



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZIS-24-LED4-MO-SAL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L021506201 PRORATED TO ZIS-24-LED4-LO-SAL

[TESTLAB] LIGHT LABORATORY, INC.

[ISSUEDATE] 2/23/2015

[MANUFAC] PRUDENTIAL LTG.

[LUMCAT] ZIS-24-LED4-LO-SAL

[LUMINAIRE] 24 " L X 48" W X 1.5" H LED LINEAR DIRECT LUMINAIRE DIFFUSED LENS

[LAMPCAT]

[BALLAST]

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7559
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	66
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)	4.13 ft
Luminous Width (90-270)	2.14 ft
Luminous Height	0.14 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1076	1118	1056
55	1214	1268	1177
65	1462	1517	1390
75	2023	2028	1847
85	4200	3702	3345

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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	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099
2.5	709.156	709.108	709.070	709.032	708.994	708.956	708.918	708.871	708.833	708.795
5.0	709.222	709.146	709.070	708.994	708.918	708.842	708.766	708.681	708.605	708.690
7.5	711.426	711.303	711.170	711.018	710.837	710.647	710.429	710.362	710.087	710.286
10.0	714.276	714.115	713.934	713.754	713.545	713.554	713.146	713.649	714.324	714.960
12.5	715.207	715.027	714.827	714.609	714.371	714.400	715.378	716.376	717.335	718.266
15.0	716.357	716.176	715.654	715.388	715.226	716.376	717.601	718.798	719.796	720.499
17.5	715.312	715.065	714.818	714.552	715.378	716.946	718.494	719.748	720.774	721.772
20.0	714.485	714.143	713.830	713.592	715.416	717.212	718.751	719.986	721.183	722.342
22.5	711.388	711.103	710.828	711.493	713.687	715.796	717.421	719.036	720.670	722.503
25.0	708.225	707.883	707.588	709.080	711.540	713.564	715.369	717.183	719.207	721.202
27.5	703.285	702.971	702.715	705.128	707.883	710.068	712.272	714.656	717.525	718.979
30.0	698.107	697.746	697.746	700.729	703.446	705.840	708.405	711.103	713.374	715.568
32.5	691.229	690.916	691.543	694.944	697.803	700.606	703.665	706.562	709.165	711.778
35.0	684.076	683.705	684.864	688.484	691.438	694.459	697.870	700.891	703.931	706.990
37.5	675.668	675.326	677.131	680.922	684.294	687.781	691.305	694.716	698.164	700.957
40.0	666.786	666.377	668.762	672.657	676.305	680.143	683.952	687.809	691.305	694.184
42.5	657.105	656.735	659.784	663.841	667.831	671.849	675.972	680.038	683.525	686.812
45.0	647.168	646.741	650.398	654.578	658.910	663.090	667.555	671.526	675.231	678.461
47.5	636.215	635.787	639.929	644.404	648.897	653.476	658.093	662.264	666.301	669.721
50.0	624.663	624.625	628.928	633.716	638.390	643.473	648.270	652.631	656.317	659.917
52.5	612.702	613.111	617.728	622.649	627.456	632.728	637.592	642.086	646.180	649.743
55.0	600.362	601.131	605.796	611.135	616.312	621.718	626.753	631.161	635.274	638.903
57.5	587.461	588.591	593.436	599.051	604.390	609.928	614.868	619.675	623.646	627.275
60.0	574.028	575.548	580.640	586.397	591.954	597.578	602.233	606.261	610.299	613.947
62.5	559.854	561.858	567.055	572.897	578.160	583.233	587.917	592.230	596.039	600.248
65.0	545.347	547.865	553.213	559.170	563.473	568.100	572.774	577.590	581.941	586.226
67.5	530.936	533.814	538.944	543.903	548.264	553.783	558.733	563.407	567.748	572.422
70.0	516.268	519.536	524.077	528.637	533.548	539.362	545.005	550.135	554.401	559.141
72.5	500.849	504.136	507.756	513.180	519.593	525.939	531.050	536.370	540.654	545.385
75.0	485.203	488.138	491.881	498.284	504.811	511.442	516.306	520.989	525.378	530.052
77.5	468.388	470.839	476.045	483.540	489.715	495.444	500.431	505.343	509.124	513.874
80.0	451.459	454.024	460.750	467.628	473.736	479.797	484.471	489.468	493.050	497.401
82.5	434.549	438.700	445.426	452.732	458.185	464.265	468.901	473.385	477.308	481.897
85.0	417.715	423.424	429.191	436.278	442.120	447.763	452.741	456.798	460.835	465.623
87.5	402.382	408.718	414.694	421.059	426.711	432.307	437.551	441.541	445.616	450.376
90.0	404.310	403.142	411.036	417.924	425.486	431.765	438.073	443.564	449.217	454.945
92.5	402.382	408.718	414.694	421.059	426.711	432.307	437.551	441.541	445.616	450.376
95.0	417.715	423.424	429.191	436.278	442.120	447.763	452.741	456.798	460.835	465.623
97.5	434.549	438.700	445.426	452.732	458.185	464.265	468.901	473.385	477.308	481.897
100.0	451.459	454.024	460.750	467.628	473.736	479.797	484.471	489.468	493.050	497.401
102.5	468.388	470.839	476.045	483.540	489.715	495.444	500.431	505.343	509.124	513.874
105.0	485.203	488.138	491.881	498.284	504.811	511.442	516.306	520.989	525.378	530.052
107.5	500.849	504.136	507.756	513.180	519.593	525.939	531.050	536.370	540.654	545.385
110.0	516.268	519.536	524.077	528.637	533.548	539.362	545.005	550.135	554.401	559.141
112.5	530.936	533.814	538.944	543.903	548.264	553.783	558.733	563.407	567.748	572.422
115.0	545.347	547.865	553.213	559.170	563.473	568.100	572.774	577.590	581.941	586.226
117.5	559.854	561.858	567.055	572.897	578.160	583.233	587.917	592.230	596.039	600.248
120.0	574.028	575.548	580.640	586.397	591.954	597.578	602.233	606.261	610.299	613.947
122.5	587.461	588.591	593.436	599.051	604.390	609.928	614.868	619.675	623.646	627.275
125.0	600.362	601.131	605.796	611.135	616.312	621.718	626.753	631.161	635.274	638.903
127.5	612.702	613.111	617.728	622.649	627.456	632.728	637.592	642.086	646.180	649.743
130.0	624.663	624.625	628.928	633.716	638.390	643.473	648.270	652.631	656.317	659.917
132.5	636.215	635.787	639.929	644.404	648.897	653.476	658.093	662.264	666.301	669.721

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CANDELA TABULATION - (Cont.)

135.0	647.168	646.741	650.398	654.578	658.910	663.090	667.555	671.526	675.231	678.461
137.5	657.105	656.735	659.784	663.841	667.831	671.849	675.972	680.038	683.525	686.812
140.0	666.786	666.377	668.762	672.657	676.305	680.143	683.952	687.809	691.305	694.184
142.5	675.668	675.326	677.131	680.922	684.294	687.781	691.305	694.716	698.164	700.957
145.0	684.076	683.705	684.864	688.484	691.438	694.459	697.870	700.891	703.931	706.990
147.5	691.229	690.916	691.543	694.944	697.803	700.606	703.665	706.562	709.165	711.778
150.0	698.107	697.746	697.746	700.729	703.446	705.840	708.405	711.103	713.374	715.568
152.5	703.285	702.971	702.715	705.128	707.883	710.068	712.272	714.656	717.525	718.979
155.0	708.225	707.883	707.588	709.080	711.540	713.564	715.369	717.183	719.207	721.202
157.5	711.388	711.103	710.828	711.493	713.687	715.796	717.421	719.036	720.670	722.503
160.0	714.485	714.143	713.830	713.592	715.416	717.212	718.751	719.986	721.183	722.342
162.5	715.312	715.065	714.818	714.552	715.378	716.946	718.494	719.748	720.774	721.772
165.0	716.357	716.176	715.654	715.388	715.226	716.376	717.601	718.798	719.796	720.499
167.5	715.207	715.027	714.827	714.609	714.371	714.400	715.378	716.376	717.335	718.266
170.0	714.276	714.115	713.934	713.754	713.545	713.554	713.146	713.649	714.324	714.960
172.5	711.426	711.303	711.170	711.018	710.837	710.647	710.429	710.362	710.087	710.286
175.0	709.222	709.146	709.070	708.994	708.918	708.842	708.766	708.681	708.605	708.690
177.5	709.156	709.108	709.070	709.032	708.994	708.956	708.918	708.871	708.833	708.795
180.0	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099

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	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099
2.5	708.747	708.709	708.671	708.633	708.586	708.548	708.510	708.472	708.434	708.396
5.0	708.443	708.386	708.405	708.424	708.719	709.070	709.403	709.726	710.030	710.324
7.5	710.733	711.141	711.531	711.873	712.196	712.481	712.728	713.184	713.136	713.668
10.0	715.559	716.119	716.642	716.803	716.984	717.117	717.212	717.269	717.288	717.269
12.5	718.922	719.454	719.948	720.404	720.860	721.316	721.534	721.705	721.829	721.895
15.0	721.173	721.810	722.408	723.064	723.710	724.308	724.859	725.201	725.391	725.572
17.5	722.731	723.776	724.945	725.828	726.436	726.788	727.101	727.367	727.586	727.671
20.0	723.681	724.973	726.018	726.778	727.481	728.146	728.726	729.239	729.286	729.391
22.5	724.318	725.534	726.550	727.405	728.184	728.754	729.277	729.400	729.438	729.457
25.0	722.684	724.156	725.600	726.902	728.004	728.564	728.897	729.001	729.039	729.049
27.5	720.812	722.541	724.023	725.078	725.914	726.721	727.491	728.061	728.469	728.165
30.0	717.753	719.834	721.202	722.418	723.615	724.821	725.315	725.629	726.009	725.961
32.5	714.476	715.872	717.430	718.979	720.641	721.202	721.886	722.532	722.912	723.064
35.0	709.260	711.122	713.070	714.694	716.034	717.088	718.352	718.665	718.846	718.941
37.5	703.484	705.859	707.759	709.431	710.970	712.538	713.402	714.020	714.276	714.362
40.0	696.939	699.190	701.394	703.769	705.679	707.151	707.731	708.548	709.127	709.203
42.5	689.529	691.856	694.336	696.502	698.554	700.359	702.050	702.316	702.705	702.791
45.0	681.188	683.981	686.546	688.978	691.049	692.569	693.975	695.181	695.799	695.514
47.5	672.885	675.564	678.205	680.741	682.917	684.494	686.213	686.612	686.964	687.068
50.0	663.138	666.453	669.341	671.859	674.101	675.763	676.647	677.359	677.967	677.882
52.5	653.163	656.469	659.499	662.340	664.164	665.807	667.318	667.745	668.135	668.220
55.0	642.893	646.085	649.068	651.500	653.733	655.167	656.450	657.628	658.112	657.903
57.5	630.790	634.448	637.307	639.768	642.000	644.014	645.420	646.313	646.712	646.598
60.0	617.718	621.338	624.492	627.000	629.413	631.427	633.175	633.935	634.524	634.210
62.5	605.292	608.370	611.211	613.500	615.676	617.766	619.637	620.673	621.129	621.119
65.0	590.909	595.479	597.208	599.383	601.806	603.772	605.729	606.660	607.002	607.116
67.5	576.707	580.165	582.559	584.782	587.271	589.123	590.995	592.021	592.116	592.534
70.0	563.616	566.713	569.088	570.807	572.441	574.265	576.004	577.334	577.068	577.552
72.5	550.430	553.726	555.009	556.339	557.422	558.885	560.186	561.079	561.269	561.288
75.0	534.346	538.317	540.046	541.196	541.747	542.906	544.017	544.644	544.901	544.901
77.5	517.788	521.046	523.953	525.036	525.568	526.794	527.744	528.285	528.665	528.532
80.0	500.973	503.889	506.986	507.642	508.440	509.266	510.254	511.109	511.831	511.328

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CANDELA TABULATION - (Cont.)

82.5	485.820	487.644	489.250	490.238	491.359	491.710	492.309	493.173	494.209	493.401
85.0	470.126	470.981	471.912	472.824	474.040	474.629	475.446	476.776	478.410	476.957
87.5	455.335	455.696	456.104	457.092	458.128	458.992	459.857	461.453	463.039	461.548
90.0	460.731	466.222	467.599	468.939	470.924	472.929	474.952	476.871	477.593	478.002
92.5	455.335	455.696	456.104	457.092	458.128	458.992	459.857	461.453	463.039	461.548
95.0	470.126	470.981	471.912	472.824	474.040	474.629	475.446	476.776	478.410	476.957
97.5	485.820	487.644	489.250	490.238	491.359	491.710	492.309	493.173	494.209	493.401
100.0	500.973	503.889	506.986	507.642	508.440	509.266	510.254	511.109	511.831	511.328
102.5	517.788	521.046	523.953	525.036	525.568	526.794	527.744	528.285	528.665	528.532
105.0	534.346	538.317	540.046	541.196	541.747	542.906	544.017	544.644	544.901	544.901
107.5	550.430	553.726	555.009	556.339	557.422	558.885	560.186	561.079	561.269	561.288
110.0	563.616	566.713	569.088	570.807	572.441	574.265	576.004	577.334	577.068	577.552
112.5	576.707	580.165	582.559	584.782	587.271	589.123	590.995	592.021	592.116	592.534
115.0	590.909	595.479	597.208	599.383	601.806	603.772	605.729	606.660	607.002	607.116
117.5	605.292	608.370	611.211	613.500	615.676	617.766	619.637	620.673	621.129	621.119
120.0	617.718	621.338	624.492	627.000	629.413	631.427	633.175	633.935	634.524	634.210
122.5	630.790	634.448	637.307	639.768	642.000	644.014	645.420	646.313	646.712	646.598
125.0	642.893	646.085	649.068	651.500	653.733	655.167	656.450	657.628	658.112	657.903
127.5	653.163	656.469	659.499	662.340	664.164	665.807	667.318	667.745	668.135	668.220
130.0	663.138	666.453	669.341	671.859	674.101	675.763	676.647	677.359	677.967	677.882
132.5	672.885	675.564	678.205	680.741	682.917	684.494	686.213	686.612	686.964	687.068
135.0	681.188	683.981	686.546	688.978	691.049	692.569	693.975	695.181	695.799	695.514
137.5	689.529	691.856	694.336	696.502	698.554	700.359	702.050	702.316	702.705	702.791
140.0	696.939	699.190	701.394	703.769	705.679	707.151	707.731	708.548	709.127	709.203
142.5	703.484	705.859	707.759	709.431	710.970	712.538	713.402	714.020	714.276	714.362
145.0	709.260	711.122	713.070	714.694	716.034	717.088	718.352	718.665	718.846	718.941
147.5	714.476	715.872	717.430	718.979	720.641	721.202	721.886	722.532	722.912	723.064
150.0	717.753	719.834	721.202	722.418	723.615	724.821	725.315	725.629	726.009	725.961
152.5	720.812	722.541	724.023	725.078	725.914	726.721	727.491	728.061	728.469	728.165
155.0	722.684	724.156	725.600	726.902	728.004	728.564	728.897	729.001	729.039	729.049
157.5	724.318	725.534	726.550	727.405	728.184	728.754	729.277	729.400	729.438	729.457
160.0	723.681	724.973	726.018	726.778	727.481	728.146	728.726	729.239	729.286	729.391
162.5	722.731	723.776	724.945	725.828	726.436	726.788	727.101	727.367	727.586	727.671
165.0	721.173	721.810	722.408	723.064	723.710	724.308	724.859	725.201	725.391	725.572
167.5	718.922	719.454	719.948	720.404	720.860	721.316	721.534	721.705	721.829	721.895
170.0	715.559	716.119	716.642	716.803	716.984	717.117	717.212	717.269	717.288	717.269
172.5	710.733	711.141	711.531	711.873	712.196	712.481	712.728	713.184	713.136	713.668
175.0	708.443	708.386	708.405	708.424	708.719	709.070	709.403	709.726	710.030	710.324
177.5	708.747	708.709	708.671	708.633	708.586	708.548	708.510	708.472	708.434	708.396
180.0	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099

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	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099
2.5	708.358	708.320	708.282	708.253	708.215	708.396	708.168	708.139	708.130	708.120
5.0	710.600	710.856	711.094	711.312	711.521	711.702	711.873	712.015	712.148	712.253
7.5	713.896	714.143	714.371	714.590	714.780	714.951	715.112	715.245	715.359	715.454
10.0	717.212	717.174	717.098	717.050	717.668	717.943	718.209	718.447	718.646	718.827
12.5	721.914	721.876	721.620	721.306	720.955	720.556	720.299	720.755	720.860	720.974
15.0	725.562	725.296	724.973	724.574	724.033	723.472	722.864	722.209	721.914	722.142
17.5	727.681	727.643	727.823	727.206	726.427	725.543	724.622	723.662	722.665	721.686
20.0	729.020	728.659	728.270	727.842	727.367	726.531	725.458	724.346	723.187	721.990
22.5	729.429	729.039	728.583	728.089	727.538	726.845	725.857	724.394	722.893	721.363
25.0	728.992	728.783	728.336	727.472	726.560	725.619	724.650	723.453	721.743	719.929
27.5	727.690	727.177	726.607	726.066	725.211	724.023	722.674	721.173	719.549	717.430

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CANDELA TABULATION - (Cont.)

30.0	725.990	725.496	724.546	723.406	722.332	721.268	719.653	718.029	716.195	714.238
32.5	722.665	722.123	721.715	720.309	719.454	717.715	716.509	714.181	711.949	709.507
35.0	718.732	718.323	717.753	716.490	714.913	713.032	711.236	709.574	706.952	704.301
37.5	714.219	713.811	712.585	711.274	709.868	708.187	706.097	703.750	701.233	698.088
40.0	708.586	707.949	707.275	705.964	703.902	701.708	699.390	696.815	694.269	691.419
42.5	702.867	701.584	700.302	699.086	696.796	694.488	692.160	689.757	686.698	683.629
45.0	694.925	693.956	692.702	691.049	689.082	686.916	684.123	681.406	678.414	674.994
47.5	687.116	685.862	684.437	682.945	680.950	678.385	675.906	672.818	669.797	665.921
50.0	677.492	677.017	675.982	674.034	671.821	669.284	666.463	663.176	659.708	656.203
52.5	667.973	667.185	666.273	664.439	662.055	659.423	656.402	652.963	649.505	645.772
55.0	657.438	656.507	655.253	653.524	651.557	648.707	645.553	642.257	638.618	634.704
57.5	646.275	644.983	643.387	641.639	639.321	636.756	633.593	630.382	626.563	623.019
60.0	633.469	632.301	630.705	628.700	626.420	623.656	620.378	616.863	613.310	609.548
62.5	620.093	618.744	616.968	615.106	613.016	610.593	607.563	603.316	599.079	595.384
65.0	606.347	604.760	603.088	601.008	599.146	597.540	593.807	589.389	584.934	580.830
67.5	591.935	590.368	588.743	586.539	584.516	582.578	579.585	575.453	570.798	566.589
70.0	577.144	575.595	573.857	572.441	570.931	568.888	566.048	562.020	557.336	553.080
72.5	561.089	559.996	558.638	557.697	556.738	555.626	553.033	548.017	543.333	539.305
75.0	544.673	543.865	542.716	542.630	541.633	540.151	536.693	532.465	527.658	523.364
77.5	528.247	527.535	526.271	526.081	525.245	522.832	519.270	515.603	511.280	507.395
80.0	510.663	509.912	509.133	508.554	507.518	505.257	502.483	499.035	494.826	491.283
82.5	492.660	492.214	491.682	490.960	490.038	488.604	486.884	483.198	478.686	474.753
85.0	475.712	474.943	474.240	473.309	472.463	471.599	470.810	466.507	461.766	457.691
87.5	459.990	459.144	458.394	457.330	456.551	456.000	455.924	450.822	445.873	441.987
90.0	477.802	476.767	475.418	474.211	473.299	472.767	470.041	464.768	459.809	454.404
92.5	459.990	459.144	458.394	457.330	456.551	456.000	455.924	450.822	445.873	441.987
95.0	475.712	474.943	474.240	473.309	472.463	471.599	470.810	466.507	461.766	457.691
97.5	492.660	492.214	491.682	490.960	490.038	488.604	486.884	483.198	478.686	474.753
100.0	510.663	509.912	509.133	508.554	507.518	505.257	502.483	499.035	494.826	491.283
102.5	528.247	527.525	526.271	526.081	525.245	522.832	519.270	515.603	511.280	507.395
105.0	544.673	543.865	542.716	542.630	541.633	540.151	536.693	532.465	527.658	523.364
107.5	561.089	559.996	558.638	557.697	556.738	555.626	553.033	548.017	543.333	539.305
110.0	577.144	575.595	573.857	572.441	570.931	568.888	566.048	562.020	557.336	553.080
112.5	591.935	590.368	588.743	586.539	584.516	582.578	579.585	575.453	570.798	566.589
115.0	606.347	604.760	603.088	601.008	599.146	597.540	593.807	589.389	584.934	580.830
117.5	620.093	618.744	616.968	615.106	613.016	610.593	607.563	603.316	599.079	595.384
120.0	633.469	632.301	630.705	628.700	626.420	623.656	620.378	616.863	613.310	609.548
122.5	646.275	644.983	643.387	641.639	639.321	636.756	633.593	630.382	626.563	623.019
125.0	657.438	656.507	655.253	653.524	651.557	648.707	645.553	642.257	638.618	634.704
127.5	667.973	667.185	666.273	664.439	662.055	659.423	656.402	652.963	649.505	645.772
130.0	677.492	677.017	675.982	674.034	671.821	669.284	666.463	663.176	659.708	656.203
132.5	687.116	685.862	684.437	682.945	680.950	678.385	675.906	672.818	669.797	665.921
135.0	694.925	693.956	692.702	691.049	689.082	686.916	684.123	681.406	678.414	674.994
137.5	702.867	701.584	700.302	699.086	696.796	694.488	692.160	689.757	686.698	683.629
140.0	708.586	707.949	707.275	705.964	703.902	701.708	699.390	696.815	694.269	691.419
142.5	714.219	713.811	712.585	711.274	709.868	708.187	706.097	703.750	701.233	698.088
145.0	718.732	718.323	717.753	716.490	714.913	713.032	711.236	709.574	706.952	704.301
147.5	722.665	722.123	721.715	720.309	719.454	717.715	716.509	714.181	711.949	709.507
150.0	725.990	725.496	724.546	723.406	722.332	721.268	719.653	718.029	716.195	714.238
152.5	727.690	727.177	726.607	726.066	725.211	724.023	722.674	721.173	719.549	717.430
155.0	728.992	728.783	728.336	727.472	726.560	725.619	724.650	723.453	721.743	719.929
157.5	729.429	729.039	728.583	728.089	727.538	726.845	725.857	724.394	722.893	721.363
160.0	729.020	728.659	728.270	727.842	727.367	726.531	725.458	724.346	723.187	721.990
162.5	727.681	727.643	727.823	727.206	726.427	725.543	724.622	723.662	722.665	721.686
165.0	725.562	725.296	724.973	724.574	724.033	723.472	722.864	722.209	721.914	722.142
167.5	721.914	721.876	721.620	721.306	720.955	720.556	720.299	720.755	720.860	720.974

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CANDELA TABULATION - (Cont.)

170.0	717.212	717.174	717.098	717.050	717.668	717.943	718.209	718.447	718.646	718.827
172.5	713.896	714.143	714.371	714.590	714.780	714.951	715.112	715.245	715.359	715.454
175.0	710.600	710.856	711.094	711.312	711.521	711.702	711.873	712.015	712.148	712.253
177.5	708.358	708.320	708.282	708.253	708.215	708.396	708.168	708.139	708.130	708.120
180.0	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099

**Vert.
Angles**

Horizontal Angles

	<u>75.0</u>	<u>77.5</u>	<u>80.0</u>	<u>82.5</u>	<u>85.0</u>	<u>87.5</u>	<u>90.0</u>	<u>92.5</u>	<u>95.0</u>	<u>97.5</u>
0.0	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099
2.5	708.101	708.481	708.082	708.120	708.158	708.196	708.244	708.244	708.168	708.130
5.0	712.348	712.414	712.462	712.490	712.519	712.595	712.680	712.604	712.633	712.509
7.5	715.891	715.587	715.616	715.635	715.625	715.625	715.749	715.635	715.644	715.654
10.0	718.969	719.074	719.150	719.197	719.207	719.454	719.311	719.558	719.226	719.216
12.5	721.059	721.126	721.154	721.249	721.107	721.040	721.107	721.059	721.126	721.268
15.0	722.199	722.218	722.218	722.180	722.123	722.028	722.066	722.047	722.142	722.199
17.5	721.867	721.791	721.705	721.591	721.477	721.582	721.468	721.601	721.496	721.610
20.0	720.879	721.021	720.907	720.784	720.632	720.461	720.356	720.480	720.651	720.803
22.5	719.815	718.865	718.703	718.456	718.276	717.943	717.706	717.962	718.304	718.475
25.0	718.095	716.233	715.749	715.416	715.084	714.761	715.055	714.780	715.103	715.435
27.5	715.245	713.060	711.455	711.236	710.761	710.391	710.153	710.410	710.780	711.255
30.0	711.730	709.222	706.781	706.173	705.726	705.308	705.118	705.327	705.745	706.192
32.5	706.999	704.121	701.280	699.798	699.257	698.753	698.563	698.772	699.276	699.817
35.0	701.613	698.478	695.267	692.740	692.217	691.647	691.505	691.666	692.236	692.768
37.5	694.868	691.733	688.256	684.874	684.000	683.325	683.173	683.344	684.019	684.950
40.0	687.942	684.494	680.599	676.922	675.212	674.424	674.310	674.443	675.231	676.989
42.5	679.810	675.944	672.039	668.002	665.484	664.629	664.563	664.648	665.503	668.059
45.0	671.365	667.147	663.242	658.853	655.500	654.597	654.626	654.607	655.519	658.920
47.5	661.903	657.419	653.068	648.546	644.166	643.311	643.397	643.330	644.214	648.603
50.0	651.918	647.510	642.675	637.991	633.260	631.712	631.845	631.731	633.317	638.048
52.5	641.449	636.737	631.550	626.743	621.737	619.485	619.656	619.495	621.784	626.800
55.0	630.458	625.556	620.397	615.258	610.004	606.983	607.259	606.993	610.061	615.315
57.5	618.611	613.823	608.361	602.822	597.407	593.550	593.997	593.560	597.455	602.879
60.0	605.577	601.093	595.707	590.244	584.649	579.937	580.450	579.946	584.696	590.292
62.5	591.204	586.739	581.875	576.507	570.864	565.459	565.905	565.468	570.902	576.555
65.0	576.184	571.463	566.874	562.343	556.966	550.819	551.180	550.819	557.013	562.400
67.5	561.982	557.080	551.741	547.019	542.345	536.417	536.332	536.446	542.383	547.076
70.0	548.150	542.583	536.769	531.515	527.155	522.082	521.350	522.110	527.202	531.563
72.5	533.966	528.808	522.690	515.983	510.663	506.359	505.381	506.378	510.701	516.021
75.0	518.804	513.893	507.471	500.735	494.437	490.190	489.297	490.209	494.465	500.773
77.5	502.730	497.648	491.957	485.744	478.353	472.596	471.846	472.615	478.372	485.773
80.0	486.343	481.593	475.674	469.395	462.602	455.449	454.337	455.468	462.621	469.423
82.5	470.316	465.709	459.657	454.071	446.880	439.850	436.743	439.859	446.889	454.090
85.0	453.691	448.742	443.108	437.199	430.150	424.175	419.178	424.184	430.160	437.209
87.5	438.016	432.791	427.224	421.524	415.169	409.089	403.123	409.089	415.178	421.534
90.0	448.799	443.403	437.551	429.827	423.358	422.465	422.142	422.503	423.405	429.979
92.5	438.016	432.791	427.224	421.524	415.169	409.089	403.123	409.089	415.178	421.534
95.0	453.691	448.742	443.108	437.199	430.150	424.175	419.178	424.184	430.160	437.209
97.5	470.316	465.709	459.657	454.071	446.880	439.850	436.743	439.859	446.889	454.090
100.0	486.343	481.593	475.674	469.395	462.602	455.449	454.337	455.468	462.621	469.423
102.5	502.730	497.648	491.957	485.744	478.353	472.596	471.846	472.615	478.372	485.773
105.0	518.804	513.893	507.471	500.735	494.437	490.190	489.297	490.209	494.465	500.773
107.5	533.966	528.808	522.690	515.983	510.663	506.359	505.381	506.378	510.701	516.021
110.0	548.150	542.583	536.769	531.515	527.155	522.082	521.350	522.110	527.202	531.563
112.5	561.982	557.080	551.741	547.019	542.345	536.417	536.332	536.446	542.383	547.076
115.0	576.184	571.463	566.874	562.343	556.966	550.819	551.180	550.819	557.013	562.400

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CANDELA TABULATION - (Cont.)

117.5	591.204	586.739	581.875	576.507	570.864	565.459	565.905	565.468	570.902	576.555
120.0	605.577	601.093	595.707	590.244	584.649	579.937	580.450	579.946	584.696	590.292
122.5	618.611	613.823	608.361	602.822	597.407	593.550	593.997	593.560	597.455	602.879
125.0	630.458	625.556	620.397	615.258	610.004	606.983	607.259	606.993	610.061	615.315
127.5	641.449	636.737	631.550	626.743	621.737	619.485	619.656	619.495	621.784	626.800
130.0	651.918	647.510	642.675	637.991	633.260	631.712	631.845	631.731	633.317	638.048
132.5	661.903	657.419	653.068	648.546	644.166	643.311	643.397	643.330	644.214	648.603
135.0	671.365	667.147	663.242	658.853	655.500	654.597	654.626	654.607	655.519	658.920
137.5	679.810	675.944	672.039	668.002	665.484	664.629	664.563	664.648	665.503	668.059
140.0	687.942	684.494	680.599	676.922	675.212	674.424	674.310	674.443	675.231	676.989
142.5	694.868	691.733	688.256	684.874	684.000	683.325	683.173	683.344	684.019	684.950
145.0	701.613	698.478	695.267	692.740	692.217	691.647	691.505	691.666	692.236	692.768
147.5	706.999	704.121	701.280	699.798	699.257	698.753	698.563	698.772	699.276	699.817
150.0	711.730	709.222	706.781	706.173	705.726	705.308	705.118	705.327	705.745	706.192
152.5	715.245	713.060	711.455	711.236	710.761	710.391	710.153	710.410	710.780	711.255
155.0	718.095	716.233	715.749	715.416	715.084	714.761	715.055	714.780	715.103	715.435
157.5	719.815	718.865	718.703	718.456	718.276	717.943	717.706	717.962	718.304	718.475
160.0	720.879	721.021	720.907	720.784	720.632	720.461	720.356	720.480	720.651	720.803
162.5	721.867	721.791	721.705	721.591	721.477	721.582	721.468	721.601	721.496	721.620
165.0	722.199	722.218	722.218	722.180	722.123	722.028	722.066	722.047	722.142	722.199
167.5	721.059	721.126	721.154	721.249	721.107	721.040	721.107	721.059	721.126	721.268
170.0	718.969	719.074	719.150	719.197	719.207	719.454	719.311	719.558	719.226	719.216
172.5	715.891	715.587	715.616	715.635	715.625	715.625	715.749	715.635	715.644	715.654
175.0	712.348	712.414	712.462	712.490	712.519	712.595	712.680	712.604	712.633	712.509
177.5	708.101	708.481	708.082	708.120	708.158	708.196	708.244	708.244	708.168	708.130
180.0	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099

**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	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099
2.5	708.139	708.111	708.120	708.139	708.149	708.158	708.187	708.415	708.234	708.272
5.0	712.481	712.433	712.367	712.272	712.167	712.044	711.892	711.721	711.540	711.331
7.5	715.635	715.606	715.910	715.473	715.378	715.264	715.131	714.970	714.799	714.609
10.0	719.169	719.093	718.988	718.846	718.665	718.466	718.228	718.390	717.677	717.088
12.5	721.173	721.145	721.078	720.993	720.879	720.727	720.337	720.641	721.031	721.382
15.0	722.237	722.237	722.218	722.161	721.952	722.294	722.950	723.558	724.118	724.660
17.5	721.724	721.810	721.886	721.724	722.741	723.738	724.698	725.619	726.503	727.282
20.0	720.926	721.040	720.917	722.066	723.263	724.422	725.543	726.617	727.462	727.928
22.5	718.722	718.893	719.891	721.449	722.969	724.470	725.933	726.940	727.633	728.175
25.0	715.768	716.309	718.171	720.005	721.819	723.548	724.745	725.714	726.655	727.557
27.5	711.493	713.136	715.321	717.506	719.748	721.268	722.769	724.109	725.296	726.170
30.0	706.847	709.298	711.806	714.314	716.290	718.114	719.748	721.354	722.427	723.510
32.5	701.356	704.197	707.075	709.593	712.034	714.267	716.566	717.810	719.482	720.413
35.0	695.343	698.554	701.698	704.396	707.037	709.659	711.341	713.136	715.008	716.604
37.5	688.332	691.809	694.953	698.183	701.318	703.845	706.192	708.291	709.982	711.379
40.0	680.675	684.579	688.018	691.505	694.364	696.910	699.485	701.812	704.007	706.078
42.5	672.106	676.020	679.896	683.724	686.793	689.852	692.265	694.592	696.910	699.133
45.0	663.309	667.223	671.441	675.089	678.499	681.511	684.228	687.021	689.187	691.163
47.5	653.144	657.504	661.988	666.007	669.892	672.913	676.010	678.490	680.988	683.059
50.0	642.751	647.586	652.004	656.279	659.794	663.271	666.567	669.389	671.925	674.139
52.5	631.617	636.823	641.525	645.857	649.591	653.058	656.497	659.518	662.150	664.515
55.0	620.473	625.632	630.534	634.790	638.713	642.352	645.648	648.802	651.671	653.628
57.5	608.427	613.890	618.697	623.114	626.648	630.467	633.688	636.851	639.416	641.734
60.0	595.773	601.169	605.653	609.634	613.396	616.949	620.464	623.741	626.515	628.795
62.5	581.941	586.805	591.280	595.431	599.165	603.392	607.639	610.679	613.101	615.191

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CANDELA TABULATION - (Cont.)

65.0	566.931	571.529	576.251	580.896	585.010	589.465	593.873	597.626	599.231	601.093
67.5	551.807	557.137	562.039	566.656	570.864	575.519	579.661	582.654	584.601	586.615
70.0	536.826	542.640	548.207	553.137	557.393	562.077	566.114	568.955	571.007	572.517
72.5	522.728	528.846	534.023	539.239	543.390	548.074	553.090	555.693	557.308	557.754
75.0	507.509	513.931	518.852	523.412	527.706	532.503	536.750	540.208	541.690	542.668
77.5	491.995	497.676	502.768	507.433	511.328	515.641	519.317	522.880	525.293	526.129
80.0	475.703	481.621	486.371	491.311	494.864	499.073	502.521	505.295	507.556	508.592
82.5	459.676	465.728	470.345	474.772	478.714	483.227	486.913	488.642	490.076	490.988
85.0	443.118	448.751	453.710	457.710	461.785	466.526	470.829	471.618	472.482	473.337
87.5	427.234	432.791	438.026	441.997	445.882	450.832	455.924	456.009	456.551	457.339
90.0	437.693	443.564	448.970	454.603	459.895	464.968	470.231	473.005	473.537	474.439
92.5	427.234	432.791	438.026	441.997	445.882	450.832	455.924	456.009	456.551	457.339
95.0	443.118	448.751	453.710	457.710	461.785	466.526	470.829	471.618	472.482	473.337
97.5	459.676	465.728	470.345	474.772	478.714	483.227	486.913	488.642	490.067	490.988
100.0	475.703	481.621	486.371	491.311	494.864	499.073	502.521	505.295	507.556	508.592
102.5	491.995	497.676	502.768	507.433	511.328	515.641	519.317	522.880	525.293	526.129
105.0	507.509	513.931	518.852	523.412	527.706	532.503	536.750	540.208	541.690	542.668
107.5	522.728	528.846	534.023	539.239	543.390	548.074	553.090	555.693	557.308	557.754
110.0	536.826	542.640	548.207	553.137	557.393	562.077	566.114	568.955	571.007	572.517
112.5	551.807	557.137	562.039	566.656	570.864	575.519	579.661	582.654	584.601	586.615
115.0	566.941	571.529	576.251	580.896	585.010	589.465	593.873	597.626	599.231	601.093
117.5	581.941	586.805	591.280	595.431	599.165	603.392	607.639	610.679	613.101	615.191
120.0	595.773	601.169	605.653	609.634	613.396	616.949	620.464	623.741	626.515	628.795
122.5	608.427	613.890	618.697	623.114	626.648	630.467	633.688	636.851	639.416	641.734
125.0	620.473	625.632	630.534	634.790	638.713	642.352	645.648	648.802	651.671	653.628
127.5	631.617	636.823	641.525	645.857	649.591	653.058	656.497	659.518	662.150	664.515
130.0	642.751	647.586	652.004	656.279	659.794	663.271	666.567	669.389	671.925	674.139
132.5	653.144	657.504	661.988	666.007	669.892	672.913	676.010	678.490	680.988	683.059
135.0	663.309	667.223	671.441	675.089	678.499	681.511	684.228	687.021	689.187	691.163
137.5	672.106	676.020	679.896	683.724	686.793	689.852	692.265	694.592	696.910	699.133
140.0	680.675	684.579	688.018	691.505	694.364	696.910	699.485	701.812	704.007	706.078
142.5	688.332	691.809	694.953	698.183	701.318	703.845	706.192	708.291	709.982	711.379
145.0	695.343	698.554	701.698	704.396	707.037	709.659	711.341	713.136	715.008	716.604
147.5	701.356	704.197	707.075	709.593	712.034	714.267	716.566	717.810	719.482	720.413
150.0	706.847	709.298	711.806	714.314	716.290	718.114	719.748	721.354	722.427	723.510
152.5	711.493	713.136	715.321	717.506	719.748	721.268	722.769	724.109	725.296	726.170
155.0	715.768	716.309	718.171	720.005	721.819	723.548	724.745	725.714	726.655	727.557
157.5	718.722	718.893	719.891	721.449	722.969	724.470	725.933	726.940	727.633	728.175
160.0	720.926	721.040	720.917	722.066	723.263	724.422	725.543	726.617	727.462	727.928
162.5	721.724	721.810	721.886	721.724	722.741	723.738	724.698	725.619	726.503	727.282
165.0	722.237	722.237	722.218	722.161	721.952	722.294	722.950	723.558	724.118	724.660
167.5	721.173	721.145	721.078	720.993	720.879	720.727	720.337	720.641	721.031	721.382
170.0	719.169	719.093	718.988	718.846	718.665	718.466	718.228	718.390	717.677	717.088
172.5	715.635	715.606	715.910	715.473	715.378	715.264	715.131	714.970	714.799	714.609
175.0	712.481	712.433	712.367	712.272	712.167	712.044	711.892	711.721	711.540	711.331
177.5	708.139	708.111	708.120	708.139	708.149	708.158	708.187	708.415	708.234	708.272
180.0	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099

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	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099
2.5	708.301	708.339	708.377	708.415	708.453	708.491	708.529	708.567	708.605	708.652
5.0	711.113	710.875	710.619	710.343	710.049	709.745	709.422	709.089	708.738	708.443
7.5	714.390	714.162	713.915	713.678	713.165	713.051	712.804	712.557	712.272	711.958
10.0	717.183	717.250	717.288	717.345	717.364	717.345	717.288	717.193	717.060	716.879

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CANDELA TABULATION - (Cont.)

12.5	721.696	721.962	721.990	721.981	721.905	721.781	721.610	721.392	720.945	720.499
15.0	725.049	725.372	725.638	725.667	725.477	725.296	724.945	724.394	723.795	723.149
17.5	727.823	727.728	727.766	727.757	727.671	727.453	727.187	726.883	726.522	725.914
20.0	728.365	728.754	729.106	729.486	729.381	729.286	728.821	728.251	727.586	726.873
22.5	728.678	729.125	729.524	729.590	729.543	729.505	729.372	728.859	728.289	727.510
25.0	728.422	728.916	729.096	729.153	729.153	729.096	729.001	728.678	728.118	727.016
27.5	727.063	727.282	727.795	728.270	728.583	728.175	727.595	726.826	726.028	725.182
30.0	724.650	725.600	726.104	726.085	726.047	725.733	725.420	724.916	723.729	722.532
32.5	721.772	722.237	722.779	723.168	723.026	722.655	722.000	721.316	720.746	719.083
35.0	717.848	718.437	718.836	719.055	718.960	718.779	718.399	717.193	716.138	714.808
37.5	712.690	713.868	714.333	714.476	714.390	714.124	713.516	712.642	711.084	709.545
40.0	707.389	708.054	708.700	709.317	709.241	708.662	707.835	707.237	705.783	703.883
42.5	700.406	701.689	702.981	702.895	702.810	702.430	702.097	700.473	698.668	696.606
45.0	692.816	694.070	695.029	695.647	695.913	695.295	694.089	692.673	691.163	689.082
47.5	684.551	685.966	687.182	687.182	687.078	686.717	686.318	684.598	682.974	680.836
50.0	676.086	677.131	677.606	677.986	678.072	677.473	676.751	675.868	674.196	671.954
52.5	666.330	667.289	668.078	668.325	668.239	667.850	667.375	665.912	664.259	662.435
55.0	655.357	656.611	657.542	658.008	658.207	657.732	656.554	655.262	653.828	651.595
57.5	643.492	645.078	646.380	646.703	646.807	646.408	645.515	644.109	642.086	639.853
60.0	630.800	632.396	633.555	634.305	634.619	634.020	633.241	631.503	629.498	627.085
62.5	617.063	618.839	620.179	621.214	621.214	620.749	619.723	617.842	615.752	613.576
65.0	603.174	604.846	606.423	607.202	607.088	606.736	605.805	603.839	601.872	599.450
67.5	588.819	590.444	592.011	592.600	592.192	592.087	591.061	589.199	587.337	584.848
70.0	573.933	575.671	577.210	577.609	577.134	577.391	576.070	574.332	572.498	570.864
72.5	558.704	560.063	561.155	561.345	561.326	561.136	560.243	558.932	557.469	556.386
75.0	542.773	543.922	544.730	544.958	544.958	544.682	544.065	542.953	541.794	541.243
77.5	526.319	527.573	528.295	528.570	528.713	528.323	527.782	526.832	525.606	525.065
80.0	509.171	509.950	510.682	511.366	511.869	511.147	510.283	509.304	508.468	507.670
82.5	491.710	492.242	492.689	493.430	494.237	493.202	492.328	491.739	491.368	490.257
85.0	474.259	474.962	475.731	476.976	478.420	476.795	475.465	474.648	474.050	472.843
87.5	458.394	459.154	459.999	461.557	463.049	461.462	459.866	459.002	458.137	457.102
90.0	475.627	476.985	478.021	478.201	477.793	477.071	475.152	473.109	471.086	469.100
92.5	458.394	459.154	459.999	461.557	463.049	461.462	459.866	459.002	458.137	457.102
95.0	474.259	474.962	475.731	476.976	478.420	476.795	475.465	474.648	474.050	472.843
97.5	491.710	492.242	492.689	493.430	494.237	493.202	492.328	491.739	491.368	490.257
100.0	509.171	509.950	510.682	511.366	511.869	511.147	510.283	509.304	508.468	507.670
102.5	526.319	527.573	528.295	528.570	528.713	528.323	527.782	526.832	525.606	525.065
105.0	542.773	543.922	544.730	544.958	544.958	544.682	544.065	542.953	541.794	541.243
107.5	558.704	560.063	561.155	561.345	561.326	561.136	560.243	558.932	557.469	556.386
110.0	573.933	575.671	577.210	577.609	577.134	577.391	576.070	574.332	572.498	570.864
112.5	588.819	590.444	592.011	592.600	592.192	592.087	591.061	589.199	587.337	584.848
115.0	603.174	604.846	606.423	607.202	607.088	606.736	605.805	603.839	601.872	599.450
117.5	617.063	618.839	620.179	621.214	621.214	620.749	619.723	617.842	615.752	613.576
120.0	630.800	632.396	633.555	634.305	634.619	634.020	633.241	631.503	629.498	627.085
122.5	643.492	645.078	646.380	646.703	646.807	646.408	645.515	644.109	642.086	639.853
125.0	655.357	656.611	657.542	658.008	658.207	657.732	656.554	655.262	653.828	651.595
127.5	666.330	667.289	668.078	668.325	668.239	667.850	667.375	665.912	664.259	662.435
130.0	676.086	677.131	677.606	677.986	678.072	677.473	676.751	675.868	674.196	671.954
132.5	684.551	685.966	687.182	687.182	687.078	686.717	686.318	684.598	682.974	680.836
135.0	692.816	694.070	695.029	695.647	695.913	695.295	694.089	692.683	691.163	689.082
137.5	700.406	701.689	702.981	702.895	702.810	702.430	702.097	700.473	698.668	696.606
140.0	707.379	708.054	708.700	709.317	709.241	708.662	707.835	707.237	705.783	703.883
142.5	712.690	713.868	714.333	714.476	714.390	714.124	713.516	712.642	711.084	709.545
145.0	717.848	718.437	718.836	719.055	718.960	718.779	718.399	717.193	716.138	714.808
147.5	721.772	722.237	722.779	723.168	723.026	722.655	722.000	721.316	720.746	719.083
150.0	724.650	725.600	726.104	726.085	726.047	725.733	725.420	724.916	723.729	722.532

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CANDELA TABULATION - (Cont.)

152.5	727.063	727.282	727.795	728.270	728.583	728.175	727.595	726.826	726.028	725.182
155.0	728.422	728.916	729.096	729.153	729.153	729.096	729.001	728.678	728.118	727.016
157.5	728.678	729.125	729.524	729.590	729.543	729.505	729.372	728.859	728.289	727.510
160.0	728.365	728.754	729.106	729.486	729.381	729.286	728.821	728.251	727.586	726.873
162.5	727.823	727.728	727.766	727.757	727.671	727.453	727.187	726.883	726.522	725.914
165.0	725.049	725.372	725.638	725.667	725.477	725.296	724.945	724.394	723.795	723.149
167.5	721.696	721.962	721.990	721.981	721.905	721.781	721.610	721.392	720.945	720.499
170.0	717.183	717.250	717.288	717.345	717.364	717.345	717.288	717.193	717.060	716.879
172.5	714.390	714.162	713.915	713.678	713.165	713.051	712.804	712.557	712.272	711.958
175.0	711.113	710.875	710.619	710.343	710.049	709.745	709.422	709.089	708.738	708.443
177.5	708.301	708.339	708.377	708.415	708.453	708.491	708.529	708.567	708.605	708.652
180.0	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099

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	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099
2.5	708.690	708.728	708.776	708.814	708.852	708.890	708.937	708.975	709.013	709.051
5.0	708.424	708.405	708.462	708.614	708.624	708.700	708.785	708.861	708.937	709.013
7.5	711.607	711.217	710.809	710.362	710.163	710.438	710.505	710.723	710.913	711.094
10.0	716.718	716.195	715.635	715.036	714.400	713.725	713.222	713.535	713.611	713.820
12.5	720.033	719.539	719.007	718.361	717.421	716.461	715.464	714.485	714.457	714.694
15.0	722.494	721.895	721.259	720.584	719.881	718.884	717.687	716.461	715.312	715.473
17.5	724.964	723.881	722.836	721.876	720.879	719.853	718.589	717.050	715.483	714.656
20.0	726.123	725.068	723.776	722.446	721.278	720.081	718.855	717.307	715.511	713.697
22.5	726.645	725.648	724.422	722.617	720.774	719.140	717.525	715.901	713.782	711.588
25.0	725.705	724.261	722.788	721.306	719.311	717.278	715.473	713.659	711.635	709.175
27.5	724.128	722.646	720.926	719.093	717.573	714.761	712.376	710.163	707.978	705.232
30.0	721.316	719.938	717.858	715.673	713.469	711.198	708.510	705.935	703.541	700.824
32.5	717.535	715.977	714.533	711.882	709.270	706.667	703.769	700.701	697.898	695.039
35.0	713.184	711.227	709.308	707.094	704.026	700.986	697.965	694.554	691.533	688.569
37.5	707.864	705.964	703.579	701.062	698.269	694.820	691.400	687.876	684.389	681.017
40.0	701.508	699.295	697.034	694.279	691.400	687.904	684.038	680.238	676.390	672.733
42.5	694.440	692.293	689.624	686.907	683.620	680.124	676.067	671.935	667.907	664.202
45.0	686.650	684.085	681.283	678.556	675.326	671.612	667.631	663.176	658.986	654.654
47.5	678.300	675.659	672.970	669.816	666.387	662.349	658.179	653.552	648.973	644.470
50.0	669.436	666.548	663.223	660.003	656.402	652.716	648.318	643.549	638.457	633.783
52.5	659.585	656.554	653.248	649.819	646.256	642.152	637.668	632.795	627.522	622.706
55.0	649.154	646.171	642.941	638.970	635.341	631.227	626.819	622.022	616.369	611.192
57.5	637.393	634.514	630.857	627.342	623.713	619.732	614.925	609.985	604.437	599.108
60.0	624.568	621.414	617.785	614.004	610.356	606.318	602.290	597.626	591.992	586.444
62.5	611.277	608.437	605.330	600.305	596.106	592.277	587.964	583.271	578.198	572.935
65.0	597.274	595.545	590.966	586.283	581.998	577.628	572.812	568.138	563.502	559.189
67.5	582.616	580.222	576.754	572.470	567.796	563.445	558.771	553.812	548.283	543.922
70.0	569.135	566.770	563.663	559.179	554.439	550.173	545.024	539.391	533.577	528.656
72.5	555.056	553.774	550.468	545.423	540.683	536.398	531.078	525.958	519.612	513.199
75.0	540.094	538.355	534.384	530.081	525.397	521.008	516.325	511.461	504.830	498.303
77.5	523.991	521.075	517.797	513.883	509.143	505.362	500.450	495.463	489.734	483.550
80.0	507.005	503.918	500.992	497.420	493.069	489.487	484.481	479.807	473.746	467.637
82.5	489.269	487.663	485.830	481.906	477.327	473.394	468.910	464.265	458.194	452.741
85.0	471.922	470.991	470.136	465.633	460.845	456.798	452.751	447.773	442.120	436.278
87.5	456.114	455.705	455.335	450.385	445.616	441.550	437.551	432.307	426.721	421.059
90.0	467.751	466.364	460.845	454.983	449.312	443.650	438.140	431.822	425.524	417.962
92.5	456.114	455.705	455.335	450.385	445.616	441.550	437.551	432.307	426.721	421.059
95.0	471.922	470.991	470.136	465.633	460.845	456.798	452.751	447.773	442.120	436.278
97.5	489.269	487.663	485.830	481.906	477.327	473.394	468.910	464.265	458.194	452.741

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CANDELA TABULATION - (Cont.)

100.0	507.005	503.918	500.992	497.420	493.069	489.487	484.481	479.807	473.746	467.637
102.5	523.991	521.075	517.797	513.883	509.143	505.362	500.450	495.463	489.734	483.550
105.0	540.094	538.355	534.384	530.081	525.397	521.008	516.325	511.461	504.830	498.303
107.5	555.056	553.774	550.468	545.423	540.683	536.398	531.078	525.958	519.612	513.199
110.0	569.135	566.770	563.663	559.179	554.439	550.173	545.024	539.391	533.577	528.656
112.5	582.616	580.222	576.754	572.470	567.796	563.445	558.771	553.812	548.283	543.922
115.0	597.284	595.545	590.966	586.283	581.998	577.628	572.812	568.138	563.502	559.189
117.5	611.277	608.437	605.330	600.305	596.106	592.277	587.964	583.271	578.198	572.935
120.0	624.568	621.414	617.785	614.004	610.356	606.318	602.290	597.626	591.992	586.444
122.5	637.393	634.514	630.857	627.342	623.713	619.732	614.925	609.985	604.437	599.108
125.0	649.154	646.171	642.941	638.970	635.341	631.227	626.819	622.022	616.369	611.192
127.5	659.585	656.554	653.248	649.819	646.256	642.152	637.668	632.795	627.522	622.706
130.0	669.436	666.548	663.223	660.003	656.402	652.716	648.318	643.549	638.457	633.783
132.5	678.300	675.659	672.970	669.816	666.387	662.349	658.179	653.552	648.973	644.470
135.0	686.650	684.085	681.283	678.556	675.326	671.612	667.631	663.176	658.986	654.654
137.5	694.440	692.293	689.624	686.907	683.620	680.124	676.067	671.935	667.907	664.202
140.0	701.508	699.295	697.034	694.279	691.400	687.904	684.038	680.238	676.390	672.733
142.5	707.864	705.964	703.579	701.062	698.269	694.820	691.400	687.876	684.389	681.017
145.0	713.184	711.227	709.308	707.094	704.026	700.986	697.965	694.554	691.533	688.569
147.5	717.535	715.977	714.533	711.882	709.270	706.667	703.769	700.701	697.898	695.039
150.0	721.316	719.938	717.858	715.673	713.469	711.198	708.510	705.935	703.541	700.824
152.5	724.128	722.646	720.926	719.093	717.573	714.761	712.376	710.163	707.978	705.232
155.0	725.705	724.261	722.788	721.306	719.311	717.278	715.473	713.659	711.635	709.175
157.5	726.645	725.648	724.422	722.617	720.774	719.140	717.525	715.901	713.782	711.588
160.0	726.123	725.068	723.776	722.446	721.278	720.081	718.855	717.307	715.511	713.697
162.5	724.964	723.881	722.836	721.876	720.879	719.853	718.589	717.050	715.483	714.656
165.0	722.494	721.895	721.259	720.584	719.881	718.884	717.687	716.461	715.312	715.473
167.5	720.033	719.539	719.007	718.361	717.421	716.461	715.464	714.485	714.457	714.694
170.0	716.718	716.195	715.635	715.036	714.400	713.725	713.222	713.535	713.611	713.820
172.5	711.607	711.217	710.809	710.362	710.163	710.438	710.505	710.723	710.913	711.094
175.0	708.424	708.405	708.462	708.614	708.624	708.700	708.785	708.861	708.937	709.013
177.5	708.690	708.728	708.776	708.814	708.852	708.890	708.937	708.975	709.013	709.051
180.0	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099

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	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099
2.5	709.089	709.127	709.175	709.156	709.099	709.061	709.023	708.975	708.937	708.899
5.0	709.089	709.165	709.241	709.165	709.089	709.023	708.937	708.861	708.785	708.709
7.5	711.246	711.379	711.502	711.388	711.255	711.094	710.923	710.723	710.514	710.514
10.0	714.010	714.172	714.324	714.181	714.010	713.820	713.621	713.535	713.222	713.687
12.5	714.913	715.112	715.293	715.112	714.913	714.704	714.466	714.419	715.426	716.423
15.0	716.119	716.176	716.338	716.186	716.129	715.483	715.302	716.423	717.658	718.846
17.5	714.913	715.160	715.407	715.169	714.913	714.656	715.445	717.012	718.561	719.824
20.0	713.925	714.276	714.599	714.286	713.925	713.687	715.473	717.278	718.827	720.062
22.5	710.932	711.198	711.493	711.208	710.942	711.559	713.754	715.882	717.497	719.112
25.0	707.683	707.978	708.291	707.978	707.683	709.137	711.607	713.640	715.454	717.259
27.5	702.810	703.066	703.380	703.076	702.810	705.194	707.959	710.144	712.357	714.732
30.0	697.841	697.841	698.164	697.841	697.813	700.796	703.513	705.916	708.462	711.170
32.5	691.628	691.011	691.324	691.011	691.657	695.001	697.870	700.682	703.741	706.648
35.0	684.959	683.800	684.123	683.800	684.921	688.541	691.505	694.535	697.936	700.967
37.5	677.217	675.412	675.754	675.421	677.188	680.988	684.361	687.847	691.381	694.801
40.0	668.847	666.453	666.824	666.463	668.819	672.714	676.362	680.209	684.009	687.876
42.5	659.860	656.811	657.181	656.811	659.822	664.173	667.888	671.916	676.039	680.105
45.0	650.465	646.807	647.206	646.807	650.436	654.626	658.958	663.147	667.612	671.593

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CANDELA TABULATION - (Cont.)

47.5	639.996	635.854	636.281	635.854	639.967	644.451	648.945	653.524	658.160	662.330
50.0	628.995	624.682	624.691	624.663	628.966	633.754	638.428	643.520	648.289	652.697
52.5	617.804	613.168	612.759	613.149	617.785	622.677	627.494	632.766	637.649	642.143
55.0	605.843	601.179	600.390	601.150	605.824	611.163	616.350	622.003	626.800	631.208
57.5	593.484	588.639	587.508	588.620	593.465	599.089	604.418	609.957	614.906	619.723
60.0	580.678	575.586	574.037	575.567	580.659	586.416	592.002	597.607	602.271	606.309
62.5	567.093	561.896	559.882	561.877	567.074	572.916	578.179	583.252	587.945	592.249
65.0	553.242	547.884	545.357	547.874	553.223	559.179	563.492	568.128	572.793	577.619
67.5	538.963	533.833	530.955	533.824	538.944	543.913	548.273	553.802	558.752	563.435
70.0	524.096	519.555	516.277	519.536	524.077	528.646	533.558	539.372	545.034	550.164
72.5	507.765	504.155	500.859	504.146	507.756	513.180	519.593	525.948	531.069	536.389
75.0	491.891	488.138	485.203	488.138	491.881	498.284	504.820	511.451	516.315	520.999
77.5	476.054	470.848	468.388	470.839	476.045	483.540	489.725	495.453	500.441	505.352
80.0	460.759	454.033	451.459	454.024	460.750	467.628	473.736	479.797	484.471	489.478
82.5	445.426	438.710	434.549	438.700	445.417	452.732	458.185	464.265	468.901	473.385
85.0	429.191	423.424	417.715	423.415	429.181	436.268	442.120	447.763	452.751	456.798
87.5	414.694	408.718	402.382	408.718	414.694	421.059	426.711	432.307	437.551	441.550
90.0	411.055	403.161	404.320	403.151	410.989	417.905	425.467	431.775	438.092	443.593
92.5	414.694	408.718	402.382	408.718	414.694	421.059	426.711	432.307	437.551	441.550
95.0	429.191	423.424	417.715	423.415	429.181	436.268	442.120	447.763	452.751	456.798
97.5	445.426	438.710	434.549	438.700	445.417	452.732	458.185	464.265	468.901	473.385
100.0	460.759	454.033	451.459	454.024	460.750	467.628	473.736	479.797	484.471	489.478
102.5	476.054	470.848	468.388	470.839	476.045	483.540	489.725	495.453	500.441	505.352
105.0	491.891	488.138	485.203	488.138	491.881	498.284	504.820	511.451	516.315	520.999
107.5	507.765	504.155	500.859	504.146	507.756	513.180	519.593	525.948	531.069	536.389
110.0	524.096	519.555	516.277	519.536	524.077	528.646	533.558	539.372	545.034	550.164
112.5	538.963	533.833	530.955	533.824	538.944	543.913	548.273	553.802	558.752	563.435
115.0	553.242	547.884	545.357	547.874	553.223	559.179	563.492	568.128	572.793	577.619
117.5	567.093	561.896	559.882	561.877	567.074	572.916	578.179	583.252	587.945	592.249
120.0	580.678	575.586	574.037	575.567	580.659	586.416	592.002	597.607	602.271	606.309
122.5	593.484	588.639	587.508	588.620	593.465	599.089	604.418	609.957	614.906	619.723
125.0	605.843	601.179	600.390	601.150	605.824	611.163	616.350	622.003	626.800	631.208
127.5	617.804	613.168	612.759	613.149	617.785	622.677	627.494	632.766	637.649	642.143
130.0	628.995	624.682	624.691	624.663	628.966	633.754	638.428	643.520	648.289	652.697
132.5	639.996	635.854	636.281	635.854	639.967	644.451	648.945	653.524	658.160	662.330
135.0	650.465	646.807	647.206	646.807	650.436	654.626	658.958	663.147	667.612	671.593
137.5	659.860	656.811	657.181	656.811	659.822	664.173	667.888	671.916	676.039	680.105
140.0	668.847	666.453	666.824	666.463	668.819	672.714	676.362	680.209	684.009	687.876
142.5	677.217	675.412	675.754	675.421	677.188	680.988	684.361	687.847	691.381	694.801
145.0	684.959	683.800	684.123	683.800	684.921	688.541	691.505	694.535	697.936	700.967
147.5	691.628	691.011	691.324	691.011	691.657	695.001	697.870	700.682	703.741	706.648
150.0	697.841	697.841	698.164	697.841	697.813	700.796	703.513	705.916	708.462	711.170
152.5	702.810	703.066	703.380	703.076	702.810	705.194	707.959	710.144	712.357	714.732
155.0	707.683	707.978	708.291	707.978	707.683	709.137	711.607	713.640	715.454	717.259
157.5	710.932	711.198	711.493	711.208	710.942	711.559	713.754	715.882	717.497	719.112
160.0	713.925	714.276	714.599	714.286	713.925	713.687	715.473	717.278	718.827	720.062
162.5	714.913	715.160	715.407	715.169	714.913	714.656	715.445	717.012	718.561	719.824
165.0	716.119	716.176	716.338	716.186	716.129	715.483	715.302	716.423	717.658	718.846
167.5	714.913	715.112	715.293	715.112	714.913	714.704	714.466	714.419	715.426	716.423
170.0	714.010	714.172	714.324	714.181	714.010	713.820	713.621	713.535	713.222	713.687
172.5	711.246	711.379	711.502	711.388	711.255	711.094	710.923	710.723	710.514	710.514
175.0	709.089	709.165	709.241	709.165	709.089	709.023	708.937	708.861	708.785	708.709
177.5	709.089	709.127	709.175	709.156	709.099	709.061	709.023	708.975	708.937	708.899
180.0	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099

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CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	<u>200.0</u>	<u>202.5</u>	<u>205.0</u>	<u>207.5</u>	<u>210.0</u>	<u>212.5</u>	<u>215.0</u>	<u>217.5</u>	<u>220.0</u>	<u>222.5</u>
0.0	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099
2.5	708.861	708.814	708.776	708.738	708.700	708.652	708.614	708.576	708.538	708.500
5.0	708.633	708.614	708.472	708.396	708.424	708.443	708.709	709.061	709.393	709.716
7.5	710.163	710.324	710.771	711.189	711.569	711.920	712.243	712.519	712.775	713.013
10.0	714.362	715.008	715.606	716.157	716.680	716.860	717.031	717.174	717.269	717.326
12.5	717.392	718.323	718.988	719.520	720.014	720.470	720.917	721.373	721.591	721.762
15.0	719.853	720.565	721.240	721.876	722.475	723.121	723.776	724.375	724.926	725.277
17.5	720.850	721.848	722.817	723.852	724.935	725.885	726.512	726.864	727.177	727.443
20.0	721.259	722.418	723.748	725.049	726.104	726.864	727.567	728.232	728.811	729.277
22.5	720.727	722.589	724.394	725.629	726.626	727.491	728.279	728.840	729.362	729.505
25.0	719.283	721.287	722.779	724.242	725.686	726.997	728.108	728.678	728.992	729.096
27.5	717.668	719.074	720.907	722.627	724.109	725.173	726.018	726.826	727.595	728.175
30.0	713.450	715.654	717.839	719.919	721.306	722.522	723.719	724.964	725.420	725.733
32.5	709.251	711.863	714.504	715.967	717.525	719.074	720.717	721.316	722.000	722.655
35.0	704.007	707.056	709.289	711.217	713.165	714.808	716.129	717.193	718.390	718.789
37.5	698.240	701.052	703.570	705.954	707.864	709.536	711.075	712.614	713.526	714.134
40.0	691.381	694.269	697.024	699.285	701.499	703.874	705.783	707.284	707.835	708.662
42.5	683.601	686.897	689.614	692.274	694.431	696.606	698.658	700.473	702.107	702.430
45.0	675.307	678.547	681.273	684.076	686.641	689.073	691.153	692.683	694.089	695.305
47.5	666.368	669.797	672.961	675.649	678.290	680.836	682.964	684.598	686.299	686.726
50.0	656.383	659.984	663.214	666.539	669.436	671.944	674.196	675.868	676.761	677.473
52.5	646.247	649.809	653.239	656.545	659.575	662.416	664.259	665.912	667.365	667.850
55.0	635.331	638.960	642.922	646.161	649.154	651.586	653.828	655.272	656.554	657.742
57.5	623.694	627.332	630.847	634.505	637.383	639.853	642.086	644.109	645.515	646.418
60.0	610.346	613.994	617.775	621.404	624.568	627.076	629.489	631.503	633.270	634.020
62.5	596.096	600.295	605.311	608.427	611.268	613.567	615.752	617.842	619.723	620.758
65.0	581.979	586.264	590.957	595.536	597.274	599.440	601.872	603.839	605.796	606.736
67.5	567.786	572.451	576.745	580.212	582.616	584.839	587.328	589.190	591.061	592.087
70.0	554.429	559.170	563.654	566.760	569.135	570.864	572.489	574.322	576.070	577.400
72.5	540.673	545.414	550.449	553.774	555.056	556.386	557.469	558.932	560.243	561.136
75.0	525.407	530.071	534.375	538.355	540.084	541.234	541.785	542.953	544.065	544.682
77.5	509.143	513.874	517.807	521.065	523.982	525.065	525.597	526.832	527.782	528.323
80.0	493.059	497.410	500.992	503.908	507.015	507.670	508.468	509.295	510.283	511.147
82.5	477.318	481.906	485.830	487.654	489.259	490.247	491.378	491.729	492.328	493.192
85.0	460.835	465.623	470.136	470.991	471.922	472.843	474.040	474.648	475.465	476.795
87.5	445.616	450.385	455.335	455.705	456.114	457.102	458.137	459.002	459.866	461.462
90.0	449.255	455.012	460.797	466.336	467.723	469.072	471.057	473.081	475.123	477.042
92.5	445.616	450.385	455.335	455.705	456.114	457.102	458.137	459.002	459.866	461.462
95.0	460.835	465.623	470.136	470.991	471.922	472.843	474.040	474.648	475.465	476.795
97.5	477.318	481.906	485.830	487.654	489.259	490.247	491.378	491.729	492.328	493.192
100.0	493.059	497.410	500.992	503.908	507.015	507.670	508.468	509.295	510.283	511.147
102.5	509.143	513.874	517.807	521.065	523.982	525.065	525.597	526.832	527.782	528.323
105.0	525.407	530.071	534.375	538.355	540.084	541.234	541.785	542.953	544.065	544.682
107.5	540.673	545.414	550.449	553.774	555.056	556.386	557.469	558.932	560.243	561.136
110.0	554.429	559.170	563.654	566.760	569.135	570.864	572.489	574.322	576.070	577.400
112.5	567.786	572.451	576.745	580.212	582.616	584.839	587.328	589.190	591.061	592.087
115.0	581.979	586.264	590.957	595.536	597.274	599.440	601.872	603.839	605.796	606.736
117.5	596.096	600.295	605.311	608.427	611.268	613.567	615.752	617.842	619.723	620.758
120.0	610.346	613.994	617.775	621.404	624.568	627.076	629.489	631.503	633.270	634.020
122.5	623.694	627.332	630.847	634.505	637.383	639.853	642.086	644.109	645.515	646.418
125.0	635.331	638.960	642.922	646.161	649.154	651.586	653.828	655.272	656.554	657.742
127.5	646.247	649.809	653.239	656.545	659.575	662.416	664.259	665.912	667.365	667.850
130.0	656.383	659.984	663.214	666.539	669.436	671.944	674.196	675.868	676.761	677.473

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CANDELA TABULATION - (Cont.)

132.5	666.368	669.797	672.961	675.649	678.290	680.836	682.964	684.598	686.299	686.726
135.0	675.307	678.547	681.273	684.076	686.641	689.073	691.153	692.683	694.089	695.305
137.5	683.601	686.897	689.614	692.274	694.431	696.606	698.658	700.473	702.107	702.430
140.0	691.381	694.269	697.024	699.285	701.499	703.874	705.783	707.284	707.835	708.662
142.5	698.240	701.052	703.570	705.954	707.864	709.536	711.075	712.614	713.526	714.134
145.0	704.007	707.056	709.289	711.217	713.165	714.808	716.129	717.193	718.390	718.789
147.5	709.251	711.863	714.504	715.967	717.525	719.074	720.717	721.316	722.000	722.655
150.0	713.450	715.654	717.839	719.919	721.306	722.522	723.719	724.964	725.420	725.733
152.5	717.668	719.074	720.907	722.627	724.109	725.173	726.018	726.826	727.595	728.175
155.0	719.283	721.287	722.779	724.242	725.686	726.997	728.108	728.678	728.992	729.096
157.5	720.727	722.589	724.394	725.629	726.626	727.491	728.279	728.840	729.362	729.505
160.0	721.259	722.418	723.748	725.049	726.104	726.864	727.567	728.232	728.811	729.277
162.5	720.850	721.848	722.817	723.852	724.935	725.885	726.512	726.864	727.177	727.443
165.0	719.853	720.565	721.240	721.876	722.475	723.121	723.776	724.375	724.926	725.277
167.5	717.392	718.323	718.988	719.520	720.014	720.470	720.917	721.373	721.591	721.762
170.0	714.362	715.008	715.606	716.157	716.680	716.860	717.031	717.174	717.269	717.326
172.5	710.163	710.324	710.771	711.189	711.569	711.920	712.243	712.519	712.775	713.013
175.0	708.633	708.614	708.472	708.396	708.424	708.443	708.709	709.061	709.393	709.716
177.5	708.861	708.814	708.776	708.738	708.700	708.652	708.614	708.576	708.538	708.500
180.0	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099

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	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099
2.5	708.462	708.424	708.386	708.348	708.310	708.272	708.244	708.491	708.263	708.158
5.0	710.020	710.305	710.581	710.837	711.084	711.303	711.512	711.692	711.863	712.006
7.5	713.146	713.649	713.896	714.599	714.371	714.590	714.780	714.951	715.112	715.245
10.0	717.345	717.326	717.269	717.231	717.155	717.060	717.658	718.371	718.209	718.437
12.5	721.886	721.952	721.971	721.933	721.686	721.373	721.021	720.622	720.328	720.717
15.0	725.467	725.648	725.629	725.353	725.040	724.622	724.109	723.548	722.940	722.285
17.5	727.662	727.747	727.757	727.719	727.814	727.272	726.503	725.629	724.698	723.738
20.0	729.372	729.448	729.106	728.754	728.365	727.928	727.462	726.617	725.543	724.422
22.5	729.543	729.590	729.524	729.125	728.678	728.175	727.633	726.940	725.942	724.479
25.0	729.144	729.153	729.096	728.925	728.431	727.567	726.664	725.724	724.755	723.567
27.5	728.583	728.270	727.804	727.282	727.063	726.180	725.306	724.118	722.788	721.287
30.0	726.037	726.085	726.104	725.610	724.660	723.520	722.446	721.373	719.767	718.133
32.5	723.026	723.178	722.788	722.247	721.781	720.423	719.492	717.829	716.556	714.295
35.0	718.969	719.064	718.846	718.428	717.905	716.623	715.027	713.155	711.360	709.659
37.5	714.390	714.485	714.343	713.887	712.709	711.398	710.001	708.310	706.220	703.874
40.0	709.251	709.327	708.709	708.073	707.398	706.097	704.035	701.841	699.513	696.939
42.5	702.819	702.905	702.962	701.708	700.435	699.143	696.929	694.621	692.293	689.880
45.0	695.922	695.666	695.039	694.089	692.835	691.172	689.215	687.049	684.256	681.539
47.5	687.087	687.192	687.192	685.985	684.560	683.078	681.007	678.518	676.029	672.942
50.0	678.081	677.996	677.616	677.150	676.105	674.158	671.944	669.408	666.586	663.299
52.5	668.249	668.334	668.097	667.308	666.339	664.534	662.178	659.547	656.516	653.087
55.0	658.217	658.017	657.552	656.621	655.376	653.647	651.690	648.821	645.667	642.371
57.5	646.817	646.712	646.389	645.088	643.501	641.753	639.435	636.870	633.707	630.496
60.0	634.619	634.315	633.574	632.405	630.819	628.805	626.525	623.760	620.483	616.968
62.5	621.224	621.224	620.188	618.849	617.072	615.210	613.120	610.698	607.658	603.411
65.0	607.088	607.202	606.432	604.855	603.183	601.112	599.241	597.635	593.892	589.484
67.5	592.192	592.600	592.021	590.453	588.829	586.625	584.611	582.663	579.671	575.529
70.0	577.134	577.619	577.220	575.671	573.933	572.517	571.016	568.964	566.124	562.086
72.5	561.326	561.345	561.155	560.063	558.704	557.764	557.298	555.702	553.099	548.083
75.0	544.958	544.948	544.730	543.922	542.773	542.678	541.699	540.208	536.759	532.513
77.5	528.703	528.570	528.295	527.582	526.319	526.129	525.293	522.889	519.327	515.650

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CANDELA TABULATION - (Cont.)

80.0	511.869	511.366	510.672	509.950	509.171	508.592	507.556	505.295	502.521	499.073
82.5	494.237	493.420	492.689	492.242	491.710	490.988	490.076	488.642	486.922	483.227
85.0	478.420	476.976	475.731	474.962	474.259	473.337	472.482	471.618	470.829	466.526
87.5	463.049	461.557	459.999	459.154	458.394	457.339	456.551	456.009	455.924	450.832
90.0	477.774	478.182	478.011	476.976	475.627	474.430	473.527	472.995	470.240	464.977
92.5	463.049	461.557	459.999	459.154	458.394	457.339	456.551	456.009	455.924	450.832
95.0	478.420	476.976	475.731	474.962	474.259	473.337	472.482	471.618	470.829	466.526
97.5	494.237	493.420	492.689	492.242	491.710	490.988	490.076	488.642	486.922	483.227
100.0	511.869	511.366	510.672	509.950	509.171	508.592	507.556	505.295	502.521	499.073
102.5	528.703	528.570	528.295	527.582	526.319	526.129	525.293	522.889	519.327	515.650
105.0	544.958	544.948	544.730	543.922	542.773	542.678	541.699	540.208	536.759	532.513
107.5	561.326	561.345	561.155	560.063	558.704	557.764	557.298	555.702	553.099	548.083
110.0	577.134	577.619	577.220	575.671	573.933	572.517	571.016	568.964	566.124	562.086
112.5	592.192	592.600	592.021	590.453	588.829	586.625	584.611	582.663	579.671	575.529
115.0	607.088	607.202	606.432	604.855	603.183	601.112	599.241	597.635	593.892	589.484
117.5	621.224	621.224	620.188	618.849	617.072	615.210	613.120	610.698	607.658	603.411
120.0	634.619	634.315	633.574	632.405	630.819	628.805	626.525	623.760	620.483	616.968
122.5	646.817	646.712	646.389	645.088	643.501	641.753	639.435	636.870	633.707	630.496
125.0	658.217	658.017	657.552	656.621	655.376	653.647	651.690	648.821	645.667	642.371
127.5	668.249	668.334	668.097	667.308	666.339	664.534	662.178	659.547	656.516	653.087
130.0	678.081	677.996	677.616	677.150	676.105	674.158	671.944	669.408	666.586	663.299
132.5	687.087	687.192	687.192	685.985	684.560	683.078	681.007	678.518	676.029	672.942
135.0	695.922	695.666	695.039	694.089	692.835	691.172	689.215	687.049	684.256	681.539
137.5	702.819	702.905	702.962	701.708	700.435	699.143	696.929	694.621	692.293	689.880
140.0	709.251	709.327	708.709	708.073	707.398	706.097	704.035	701.841	699.513	696.939
142.5	714.390	714.485	714.343	713.887	712.709	711.398	710.001	708.310	706.220	703.874
145.0	718.969	719.064	718.846	718.428	717.905	716.623	715.027	713.155	711.360	709.659
147.5	723.026	723.178	722.788	722.247	721.781	720.423	719.492	717.829	716.556	714.295
150.0	726.037	726.085	726.104	725.610	724.660	723.520	722.446	721.373	719.767	718.133
152.5	728.583	728.270	727.804	727.282	727.063	726.180	725.306	724.118	722.788	721.287
155.0	729.144	729.153	729.096	728.925	728.431	727.567	726.664	725.724	724.755	723.567
157.5	729.543	729.590	729.524	729.125	728.678	728.175	727.633	726.940	725.942	724.479
160.0	729.372	729.448	729.106	728.754	728.365	727.928	727.462	726.617	725.543	724.422
162.5	727.662	727.747	727.757	727.719	727.814	727.272	726.503	725.629	724.698	723.738
165.0	725.467	725.648	725.629	725.353	725.040	724.622	724.109	723.548	722.940	722.285
167.5	721.886	721.952	721.971	721.933	721.686	721.373	721.021	720.622	720.328	720.717
170.0	717.345	717.326	717.269	717.231	717.155	717.060	717.658	718.371	718.209	718.437
172.5	713.146	713.649	713.896	714.599	714.371	714.590	714.780	714.951	715.112	715.245
175.0	710.020	710.305	710.581	710.837	711.084	711.303	711.512	711.692	711.863	712.006
177.5	708.462	708.424	708.386	708.348	708.310	708.272	708.244	708.491	708.263	708.158
180.0	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099

Vert. Horizontal Angles
Angles

	250.0	252.5	255.0	257.5	260.0	262.5	265.0	267.5	270.0	272.5
0.0	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099
2.5	708.149	708.139	708.120	708.111	708.139	708.130	708.168	708.234	708.234	708.196
5.0	712.139	712.243	712.329	712.405	712.452	712.481	712.595	712.566	712.652	712.566
7.5	715.359	715.454	715.958	715.663	715.616	715.625	715.625	715.616	715.730	715.606
10.0	718.646	718.817	718.960	719.074	719.150	719.188	719.197	719.530	719.283	719.425
12.5	720.860	720.983	721.069	721.126	721.154	721.325	721.126	721.050	721.107	721.031
15.0	721.943	722.152	722.209	722.228	722.228	722.199	722.133	722.047	722.047	722.028
17.5	722.741	721.724	721.886	721.810	721.724	721.620	721.496	721.667	721.534	721.648
20.0	723.273	722.076	720.917	721.040	720.936	720.803	720.651	720.480	720.347	720.461
22.5	722.978	721.458	719.900	718.912	718.732	718.485	718.285	718.152	717.725	718.133
25.0	721.838	720.024	718.181	716.328	715.777	715.454	715.122	714.799	715.055	714.780

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CANDELA TABULATION - (Cont.)

27.5	719.767	717.525	715.340	713.155	711.512	711.255	710.799	710.429	710.182	710.419
30.0	716.309	714.343	711.825	709.327	706.876	706.220	705.764	705.346	705.118	705.327
32.5	712.063	709.621	707.104	704.225	701.385	699.846	699.304	698.801	698.592	698.791
35.0	707.066	704.444	701.727	698.582	695.371	692.806	692.265	691.695	691.514	691.685
37.5	701.347	698.212	694.982	691.837	688.351	684.978	684.047	683.382	683.211	683.363
40.0	694.393	691.533	688.075	684.608	680.703	677.017	675.269	674.471	674.329	674.462
42.5	686.821	683.753	679.924	676.048	672.144	668.097	665.532	664.686	664.601	664.667
45.0	678.528	675.117	671.479	667.261	663.337	658.948	655.547	654.645	654.645	654.626
47.5	669.921	666.035	662.017	657.533	653.172	648.641	644.242	643.368	643.425	643.349
50.0	659.822	656.307	652.032	647.615	642.779	638.077	633.355	631.759	631.864	631.750
52.5	649.619	645.886	641.554	636.851	631.645	626.829	621.813	619.523	619.685	619.514
55.0	638.732	634.809	630.562	625.651	620.492	615.343	610.090	607.021	607.278	607.012
57.5	626.677	623.133	618.716	613.918	608.456	602.898	597.483	593.588	594.016	593.579
60.0	613.415	609.653	605.672	601.188	595.792	590.311	584.715	579.965	580.459	579.965
62.5	599.184	595.450	591.299	586.834	581.960	576.574	570.921	565.487	565.924	565.478
65.0	585.029	580.915	576.270	571.548	566.950	562.419	557.032	550.838	551.199	550.829
67.5	570.874	566.675	562.058	557.156	551.817	547.086	542.402	536.465	536.351	536.436
70.0	557.403	553.147	548.216	542.649	536.835	531.572	527.212	522.120	521.360	522.101
72.5	543.400	539.248	534.033	528.855	522.737	516.030	510.710	506.388	505.390	506.369
75.0	527.715	523.412	518.861	513.931	507.518	500.773	494.475	490.219	489.307	490.200
77.5	511.328	507.442	502.778	497.686	491.995	485.773	478.382	472.625	471.855	472.596
80.0	494.864	491.321	486.381	481.621	475.703	469.423	462.621	455.468	454.337	455.458
82.5	478.714	474.772	470.345	465.728	459.686	454.090	446.889	439.859	436.743	439.859
85.0	461.785	457.710	453.710	448.751	443.118	437.218	430.160	424.184	419.178	424.175
87.5	445.882	441.997	438.026	432.791	427.234	421.534	415.178	409.089	403.123	409.089
90.0	459.876	454.603	448.979	443.574	437.703	429.979	423.415	422.512	422.161	422.484
92.5	445.882	441.997	438.026	432.791	427.234	421.534	415.178	409.089	403.123	409.089
95.0	461.785	457.710	453.710	448.751	443.118	437.218	430.160	424.184	419.178	424.175
97.5	478.714	474.772	470.345	465.728	459.686	454.090	446.889	439.859	436.743	439.859
100.0	494.864	491.321	486.381	481.621	475.703	469.423	462.621	455.468	454.337	455.458
102.5	511.328	507.442	502.778	497.686	491.995	485.773	478.382	472.625	471.855	472.596
105.0	527.715	523.412	518.861	513.931	507.518	500.773	494.475	490.219	489.307	490.200
107.5	543.400	539.248	534.033	528.855	522.737	516.030	510.710	506.388	505.390	506.369
110.0	557.403	553.147	548.216	542.649	536.835	531.572	527.212	522.120	521.360	522.101
112.5	570.874	566.675	562.058	557.156	551.817	547.086	542.402	536.465	536.351	536.436
115.0	585.029	580.915	576.270	571.548	566.950	562.419	557.032	550.838	551.199	550.829
117.5	599.184	595.450	591.299	586.834	581.960	576.574	570.921	565.487	565.924	565.478
120.0	613.415	609.653	605.672	601.188	595.792	590.311	584.715	579.965	580.459	579.965
122.5	626.677	623.133	618.716	613.918	608.456	602.898	597.483	593.588	594.016	593.579
125.0	638.732	634.809	630.562	625.651	620.492	615.343	610.090	607.021	607.278	607.012
127.5	649.619	645.886	641.554	636.851	631.645	626.829	621.813	619.523	619.685	619.514
130.0	659.822	656.307	652.032	647.615	642.779	638.077	633.355	631.759	631.864	631.750
132.5	669.921	666.035	662.017	657.533	653.172	648.641	644.242	643.368	643.425	643.349
135.0	678.528	675.117	671.479	667.261	663.337	658.948	655.547	654.645	654.645	654.626
137.5	686.821	683.753	679.924	676.048	672.144	668.097	665.532	664.686	664.601	664.667
140.0	694.393	691.533	688.075	684.608	680.703	677.017	675.269	674.471	674.329	674.462
142.5	701.347	698.212	694.982	691.837	688.351	684.978	684.047	683.382	683.211	683.363
145.0	707.066	704.444	701.727	698.582	695.371	692.806	692.265	691.695	691.514	691.685
147.5	712.063	709.621	707.104	704.225	701.385	699.846	699.304	698.801	698.592	698.791
150.0	716.309	714.343	711.825	709.327	706.876	706.220	705.764	705.346	705.118	705.327
152.5	719.767	717.525	715.340	713.155	711.512	711.255	710.799	710.429	710.182	710.419
155.0	721.838	720.024	718.181	716.328	715.777	715.454	715.122	714.799	715.055	714.780
157.5	722.978	721.458	719.900	718.912	718.732	718.485	718.285	718.152	717.725	718.133
160.0	723.273	722.076	720.917	721.040	720.936	720.803	720.651	720.480	720.347	720.461
162.5	722.741	721.724	721.886	721.810	721.724	721.620	721.496	721.667	721.534	721.648
165.0	721.943	722.152	722.209	722.228	722.228	722.199	722.133	722.047	722.047	722.028

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CANDELA TABULATION - (Cont.)

167.5	720.860	720.983	721.069	721.126	721.154	721.325	721.126	721.050	721.107	721.031
170.0	718.646	718.817	718.960	719.074	719.150	719.188	719.197	719.530	719.283	719.425
172.5	715.359	715.454	715.958	715.663	715.616	715.625	715.625	715.616	715.730	715.606
175.0	712.139	712.243	712.329	712.405	712.452	712.481	712.595	712.566	712.652	712.566
177.5	708.149	708.139	708.120	708.111	708.139	708.130	708.168	708.234	708.234	708.196
180.0	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099

**Vert.
Angles**

Horizontal Angles

	<u>275.0</u>	<u>277.5</u>	<u>280.0</u>	<u>282.5</u>	<u>285.0</u>	<u>287.5</u>	<u>290.0</u>	<u>292.5</u>	<u>295.0</u>	<u>297.5</u>
0.0	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099
2.5	708.158	708.120	708.082	708.481	708.101	708.111	708.130	708.139	708.244	708.472
5.0	712.490	712.462	712.433	712.376	712.310	712.224	712.120	711.987	711.844	711.673
7.5	715.606	715.616	715.597	715.644	715.939	715.435	715.340	715.226	715.093	714.932
10.0	719.178	719.169	719.131	719.055	718.941	718.798	718.627	718.428	718.190	717.924
12.5	721.107	721.306	721.145	721.107	721.050	720.964	720.841	720.746	720.290	720.546
15.0	722.114	722.180	722.209	722.218	722.190	722.142	721.914	722.209	722.864	723.472
17.5	721.477	721.601	721.705	721.800	721.876	721.686	722.665	723.662	724.631	725.553
20.0	720.641	720.784	720.917	721.021	720.888	722.000	723.197	724.356	725.467	726.541
22.5	718.266	718.466	718.713	718.874	719.824	721.382	722.912	724.403	725.876	726.854
25.0	715.103	715.435	715.768	716.252	718.114	719.948	721.762	723.482	724.669	725.638
27.5	710.780	711.236	711.483	713.079	715.274	717.459	719.577	721.202	722.703	724.042
30.0	705.755	706.201	706.809	709.251	711.759	714.267	716.224	718.048	719.682	721.287
32.5	699.285	699.836	701.318	704.149	707.037	709.536	711.977	714.210	716.509	717.744
35.0	692.255	692.778	695.295	698.516	701.651	704.368	706.980	709.593	711.274	713.060
37.5	684.028	684.912	688.275	691.771	694.906	698.126	701.271	703.788	706.135	708.225
40.0	675.250	676.960	680.646	684.532	688.009	691.457	694.307	696.853	699.428	701.746
42.5	665.522	668.040	672.077	675.982	679.848	683.677	686.736	689.795	692.198	694.526
45.0	655.538	658.891	663.280	667.185	671.403	675.032	678.452	681.444	684.161	686.954
47.5	644.204	648.584	653.106	657.457	661.941	665.959	669.835	672.856	675.944	678.423
50.0	633.298	638.020	642.713	647.548	651.956	656.231	659.746	663.214	666.501	669.322
52.5	621.765	626.772	631.588	636.775	641.487	645.810	649.543	653.001	656.431	659.452
55.0	610.042	615.286	620.426	625.584	630.486	634.742	638.656	642.295	645.582	648.736
57.5	597.436	602.851	608.389	613.852	618.649	623.057	626.601	630.410	633.631	636.785
60.0	584.677	590.263	595.726	601.112	605.606	609.577	613.339	616.892	620.407	623.684
62.5	570.883	576.526	581.903	586.767	591.232	595.412	599.108	603.345	607.591	610.622
65.0	556.994	562.362	566.893	571.491	576.203	580.858	584.962	589.418	593.826	597.559
67.5	542.355	547.038	551.750	557.099	562.001	566.608	570.817	575.472	579.614	582.597
70.0	527.174	531.525	536.788	542.602	548.169	553.099	557.346	562.029	566.057	568.898
72.5	510.682	515.992	522.699	528.817	533.985	539.315	543.352	548.036	553.052	555.636
75.0	494.437	500.745	507.480	513.902	518.814	523.374	527.668	532.484	536.712	540.160
77.5	478.363	485.744	491.967	497.648	502.740	507.404	511.290	515.612	519.279	522.842
80.0	462.602	469.404	475.684	481.593	486.352	491.292	494.836	499.044	502.493	505.267
82.5	446.880	454.071	459.667	465.709	470.326	474.753	478.695	483.198	486.894	488.613
85.0	430.150	437.199	443.108	448.742	453.691	457.691	461.776	466.507	470.810	471.599
87.5	415.169	421.534	427.224	432.791	438.016	441.987	445.873	450.822	455.924	456.000
90.0	423.377	429.846	437.570	443.422	448.827	454.432	459.800	464.806	470.079	472.786
92.5	415.169	421.534	427.224	432.791	438.016	441.987	445.873	450.822	455.924	456.000
95.0	430.150	437.199	443.108	448.742	453.691	457.691	461.776	466.507	470.810	471.599
97.5	446.880	454.071	459.667	465.709	470.326	474.753	478.695	483.198	486.894	488.613
100.0	462.602	469.404	475.684	481.593	486.352	491.292	494.836	499.044	502.493	505.267
102.5	478.363	485.744	491.967	497.648	502.740	507.404	511.290	515.612	519.279	522.842
105.0	494.437	500.745	507.480	513.902	518.814	523.374	527.668	532.484	536.712	540.160
107.5	510.682	515.992	522.699	528.817	533.985	539.315	543.352	548.036	553.052	555.636
110.0	527.174	531.525	536.788	542.602	548.169	553.099	557.346	562.029	566.057	568.898
112.5	542.355	547.038	551.750	557.099	562.001	566.608	570.817	575.472	579.614	582.597

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CANDELA TABULATION - (Cont.)

115.0	556.994	562.362	566.893	571.491	576.203	580.858	584.962	589.418	593.826	597.559
117.5	570.883	576.526	581.903	586.767	591.232	595.412	599.108	603.345	607.591	610.622
120.0	584.677	590.263	595.726	601.122	605.606	609.577	613.339	616.892	620.407	623.684
122.5	597.436	602.851	608.389	613.852	618.649	623.057	626.601	630.410	633.631	636.785
125.0	610.042	615.286	620.426	625.584	630.486	634.742	638.656	642.295	645.582	648.736
127.5	621.765	626.772	631.588	636.775	641.487	645.810	649.543	653.001	656.431	659.452
130.0	633.298	638.020	642.713	647.548	651.956	656.231	659.746	663.214	666.501	669.322
132.5	644.204	648.584	653.106	657.457	661.941	665.959	669.835	672.856	675.944	678.423
135.0	655.538	658.891	663.280	667.185	671.403	675.032	678.452	681.444	684.161	686.954
137.5	665.522	668.040	672.077	675.982	679.848	683.677	686.736	689.795	692.198	694.526
140.0	675.250	676.960	680.646	684.532	688.009	691.457	694.307	696.853	699.428	701.746
142.5	684.028	684.912	688.275	691.771	694.906	698.126	701.271	703.788	706.135	708.225
145.0	692.255	692.778	695.295	698.516	701.651	704.368	706.980	709.593	711.274	713.060
147.5	699.285	699.836	701.318	704.149	707.037	709.536	711.977	714.210	716.509	717.744
150.0	705.755	706.201	706.809	709.251	711.759	714.267	716.224	718.048	719.682	721.287
152.5	710.780	711.236	711.483	713.079	715.274	717.459	719.577	721.202	722.703	724.042
155.0	715.103	715.435	715.768	716.252	718.114	719.948	721.762	723.482	724.669	725.638
157.5	718.266	718.466	718.713	718.874	719.824	721.382	722.912	724.403	725.876	726.854
160.0	720.641	720.784	720.917	721.021	720.888	722.000	723.197	724.356	725.467	726.541
162.5	721.477	721.601	721.705	721.800	721.876	721.686	722.665	723.662	724.631	725.553
165.0	722.114	722.180	722.209	722.218	722.190	722.142	721.914	722.209	722.864	723.472
167.5	721.107	721.306	721.145	721.107	721.050	720.964	720.841	720.746	720.290	720.546
170.0	719.178	719.169	719.131	719.055	718.941	718.798	718.627	718.428	718.190	717.924
172.5	715.606	715.616	715.597	715.644	715.939	715.435	715.340	715.226	715.093	714.932
175.0	712.490	712.462	712.433	712.376	712.310	712.224	712.120	711.987	711.844	711.673
177.5	708.158	708.120	708.082	708.481	708.101	708.111	708.130	708.139	708.244	708.472
180.0	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099

**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	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099
2.5	708.225	708.253	708.291	708.329	708.367	708.405	708.443	708.481	708.519	708.557
5.0	711.493	711.284	711.065	710.818	710.562	710.296	710.001	709.697	709.374	709.042
7.5	714.761	714.571	714.352	714.124	713.877	713.649	713.117	713.146	712.699	712.443
10.0	717.649	717.031	717.079	717.155	717.193	717.250	717.269	717.250	717.193	717.098
12.5	720.945	721.297	721.610	721.857	721.895	721.876	721.810	721.686	721.515	721.306
15.0	724.033	724.546	724.964	725.287	725.553	725.562	725.382	725.192	724.840	724.289
17.5	726.436	727.196	727.814	727.633	727.671	727.662	727.576	727.358	727.092	726.778
20.0	727.377	727.842	728.279	728.669	729.020	729.362	729.286	729.229	728.716	728.137
22.5	727.548	728.099	728.593	729.039	729.438	729.457	729.448	729.410	729.267	728.745
25.0	726.579	727.481	728.346	728.792	729.001	729.058	729.049	729.001	728.897	728.574
27.5	725.230	726.085	727.035	727.187	727.709	728.184	728.479	728.070	727.491	726.721
30.0	722.351	723.434	724.574	725.515	725.999	725.980	726.009	725.638	725.325	724.888
32.5	719.473	720.337	721.734	722.142	722.684	723.083	722.931	722.551	721.895	721.211
35.0	714.941	716.518	717.820	718.323	718.751	718.960	718.865	718.684	718.352	717.098
37.5	709.897	711.303	712.614	713.839	714.238	714.381	714.295	714.039	713.440	712.509
40.0	703.940	706.002	707.303	707.968	708.614	709.232	709.156	708.567	707.740	707.218
42.5	696.834	699.105	700.340	701.613	702.857	702.810	702.724	702.335	702.069	700.368
45.0	689.120	691.077	692.740	693.994	694.953	695.552	695.827	695.210	693.994	692.588
47.5	680.969	682.983	684.475	685.890	687.154	687.097	686.992	686.641	686.204	684.503
50.0	671.859	674.072	676.020	677.055	677.530	677.910	677.996	677.388	676.675	675.782
52.5	662.083	664.468	666.292	667.213	668.002	668.239	668.154	667.764	667.318	665.826
55.0	651.595	653.562	655.291	656.535	657.466	657.932	658.131	657.656	656.469	655.186
57.5	639.350	641.668	643.425	645.012	646.304	646.627	646.741	646.342	645.439	644.033
60.0	626.449	628.729	630.733	632.329	633.488	634.239	634.552	633.954	633.232	631.436

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CANDELA TABULATION - (Cont.)

62.5	613.035	615.134	616.996	618.773	620.112	621.148	621.157	620.692	619.656	617.775
65.0	599.165	601.036	603.107	604.789	606.366	607.135	607.031	606.679	605.739	603.782
67.5	584.535	586.558	588.762	590.387	591.954	592.543	592.135	592.040	591.004	589.142
70.0	570.950	572.460	573.876	575.614	577.163	577.562	577.087	577.353	576.023	574.275
72.5	557.270	557.707	558.657	560.006	561.108	561.298	561.279	561.098	560.196	558.894
75.0	541.642	542.649	542.725	543.875	544.682	544.910	544.910	544.654	544.027	542.915
77.5	525.245	526.091	526.281	527.535	528.257	528.542	528.675	528.285	527.753	526.794
80.0	507.518	508.563	509.143	509.912	510.653	511.337	511.841	511.119	510.254	509.276
82.5	490.048	490.969	491.691	492.214	492.670	493.401	494.218	493.173	492.309	491.710
85.0	472.463	473.318	474.240	474.952	475.712	476.957	478.420	476.786	475.456	474.629
87.5	456.551	457.330	458.394	459.144	459.990	461.557	463.039	461.453	459.857	458.992
90.0	473.328	474.240	475.446	476.795	477.840	478.030	477.622	476.881	474.971	472.948
92.5	456.551	457.330	458.394	459.144	459.990	461.557	463.039	461.453	459.857	458.992
95.0	472.463	473.318	474.240	474.952	475.712	476.957	478.420	476.786	475.456	474.629
97.5	490.048	490.969	491.691	492.214	492.670	493.401	494.218	493.173	492.309	491.710
100.0	507.518	508.563	509.143	509.912	510.653	511.337	511.841	511.119	510.254	509.276
102.5	525.245	526.091	526.281	527.535	528.257	528.542	528.675	528.285	527.753	526.794
105.0	541.642	542.649	542.725	543.875	544.682	544.910	544.910	544.654	544.027	542.915
107.5	557.270	557.707	558.657	560.006	561.108	561.298	561.279	561.098	560.196	558.894
110.0	570.950	572.460	573.876	575.614	577.163	577.562	577.087	577.353	576.023	574.275
112.5	584.535	586.558	588.762	590.387	591.954	592.543	592.135	592.040	591.004	589.142
115.0	599.165	601.036	603.107	604.789	606.366	607.135	607.031	606.679	605.739	603.782
117.5	613.035	615.134	616.996	618.773	620.112	621.148	621.157	620.692	619.656	617.775
120.0	626.449	628.729	630.733	632.329	633.488	634.239	634.552	633.954	633.232	631.436
122.5	639.350	641.668	643.425	645.012	646.304	646.627	646.741	646.342	645.439	644.033
125.0	651.595	653.562	655.291	656.535	657.466	657.932	658.131	657.656	656.469	655.186
127.5	662.083	664.468	666.292	667.223	668.002	668.239	668.154	667.764	667.318	665.826
130.0	671.859	674.072	676.020	677.055	677.530	677.910	677.996	677.388	676.675	675.782
132.5	680.969	682.983	684.475	685.890	687.154	687.097	686.992	686.641	686.204	684.503
135.0	689.120	691.077	692.740	693.994	694.953	695.552	695.827	695.210	693.994	692.588
137.5	696.834	699.105	700.340	701.613	702.857	702.810	702.724	702.335	702.069	700.368
140.0	703.940	706.002	707.303	707.968	708.614	709.232	709.156	708.567	707.740	707.218
142.5	709.897	711.303	712.614	713.839	714.238	714.381	714.295	714.039	713.440	712.509
145.0	714.941	716.518	717.820	718.323	718.751	718.960	718.865	718.684	718.352	717.098
147.5	719.473	720.337	721.734	722.142	722.684	723.083	722.931	722.551	721.895	721.211
150.0	722.351	723.434	724.574	725.515	725.999	725.980	726.009	725.638	725.325	724.888
152.5	725.230	726.085	727.035	727.187	727.709	728.184	728.479	728.070	727.491	726.721
155.0	726.579	727.481	728.346	728.792	729.001	729.058	729.049	729.001	728.897	728.574
157.5	727.548	728.099	728.593	729.039	729.438	729.457	729.448	729.410	729.267	728.745
160.0	727.377	727.842	728.279	728.669	729.020	729.362	729.286	729.229	728.716	728.137
162.5	726.436	727.196	727.814	727.633	727.671	727.662	727.576	727.358	727.092	726.778
165.0	724.033	724.546	724.964	725.287	725.553	725.562	725.382	725.192	724.840	724.289
167.5	720.945	721.297	721.610	721.857	721.895	721.876	721.810	721.686	721.515	721.306
170.0	717.649	717.031	717.079	717.155	717.193	717.250	717.269	717.250	717.193	717.098
172.5	714.761	714.571	714.352	714.124	713.877	713.649	713.117	713.146	712.690	712.443
175.0	711.493	711.284	711.065	710.818	710.562	710.296	710.001	709.697	709.374	709.042
177.5	708.225	708.253	708.291	708.329	708.367	708.405	708.443	708.481	708.519	708.557
180.0	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099

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	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099
2.5	708.595	708.633	708.681	708.719	708.757	708.795	708.842	708.880	708.918	708.956
5.0	708.690	708.424	708.405	708.386	708.453	708.700	708.614	708.690	708.766	708.842
7.5	712.158	711.844	711.493	711.113	710.695	710.248	710.087	710.438	710.438	710.647

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CANDELA TABULATION - (Cont.)

10.0	716.965	716.784	716.604	716.081	715.530	714.932	714.295	713.611	713.146	713.554
12.5	720.841	720.385	719.929	719.435	718.903	718.238	717.307	716.338	715.340	714.333
15.0	723.691	723.035	722.389	721.791	721.154	720.480	719.777	718.770	717.573	716.338
17.5	726.427	725.809	724.916	723.757	722.712	721.753	720.755	719.729	718.466	716.917
20.0	727.472	726.759	726.009	724.945	723.653	722.323	721.164	719.967	718.732	717.183
22.5	728.184	727.396	726.531	725.524	724.289	722.484	720.622	719.017	717.402	715.777
25.0	728.004	726.902	725.591	724.147	722.674	721.192	719.188	717.164	715.350	713.535
27.5	725.923	725.078	724.014	722.532	720.793	718.969	717.620	714.637	712.253	710.049
30.0	723.615	722.418	721.202	719.824	717.744	715.559	713.355	711.075	708.367	705.821
32.5	720.613	718.979	717.430	715.872	714.438	711.759	709.156	706.543	703.646	700.587
35.0	716.043	714.704	713.070	711.122	709.241	706.971	703.912	700.872	697.851	694.440
37.5	710.980	709.441	707.769	705.859	703.484	700.957	698.155	694.706	691.286	687.762
40.0	705.698	703.779	701.404	699.200	696.929	694.174	691.296	687.800	683.933	680.124
42.5	698.563	696.511	694.336	691.856	689.529	686.812	683.515	680.019	675.963	671.830
45.0	691.068	688.987	686.555	683.990	681.188	678.461	675.231	671.517	667.536	663.071
47.5	682.917	680.751	678.214	675.564	672.885	669.721	666.301	662.254	658.084	653.457
50.0	674.110	671.868	669.351	666.453	663.138	659.917	656.317	652.621	648.251	643.454
52.5	664.183	662.340	659.499	656.469	653.163	649.743	646.180	642.076	637.583	632.709
55.0	653.752	651.510	649.078	646.095	642.884	638.903	635.274	631.151	626.743	621.965
57.5	642.019	639.787	637.317	634.448	630.790	627.275	623.646	619.675	614.859	609.909
60.0	629.432	627.019	624.501	621.347	617.718	613.947	610.299	606.261	602.233	597.569
62.5	615.685	613.510	611.220	608.370	605.273	600.248	596.049	592.201	587.917	583.224
65.0	601.815	599.393	597.227	595.488	590.909	586.226	581.941	577.581	572.764	568.100
67.5	587.280	584.791	582.568	580.165	576.707	572.422	567.748	563.397	558.733	553.774
70.0	572.451	570.817	569.097	566.722	563.625	559.141	554.401	550.135	545.024	539.353
72.5	557.431	556.348	555.018	553.736	550.420	545.385	540.654	536.370	531.050	525.929
75.0	541.756	541.205	540.056	538.327	534.346	530.043	525.397	520.989	516.306	511.432
77.5	525.578	525.046	523.963	521.046	517.807	513.864	509.124	505.343	500.431	495.444
80.0	508.440	507.651	507.005	503.889	500.973	497.401	493.050	489.468	484.462	479.797
82.5	491.368	490.238	489.250	487.644	485.820	481.897	477.308	473.385	468.891	464.255
85.0	474.031	472.834	471.912	470.981	470.126	465.623	460.835	456.798	452.741	447.763
87.5	458.128	457.092	456.104	455.696	455.335	450.376	445.607	441.541	437.551	432.307
90.0	470.943	468.958	467.618	466.241	460.721	455.002	449.198	443.545	438.045	431.737
92.5	458.128	457.092	456.104	455.696	455.335	450.376	445.607	441.541	437.551	432.307
95.0	474.031	472.834	471.912	470.981	470.126	465.623	460.835	456.798	452.741	447.763
97.5	491.368	490.238	489.250	487.644	485.820	481.897	477.308	473.385	468.891	464.255
100.0	508.440	507.651	507.005	503.889	500.973	497.401	493.050	489.468	484.462	479.797
102.5	525.578	525.046	523.963	521.046	517.807	513.864	509.124	505.343	500.431	495.444
105.0	541.756	541.205	540.056	538.327	534.346	530.043	525.397	520.989	516.306	511.432
107.5	557.431	556.348	555.018	553.736	550.420	545.385	540.654	536.370	531.050	525.929
110.0	572.451	570.817	569.097	566.722	563.625	559.141	554.401	550.135	545.024	539.353
112.5	587.280	584.791	582.568	580.165	576.707	572.422	567.748	563.397	558.733	553.774
115.0	601.815	599.393	597.227	595.488	590.909	586.226	581.941	577.581	572.764	568.100
117.5	615.685	613.510	611.220	608.370	605.273	600.248	596.049	592.201	587.917	583.224
120.0	629.432	627.019	624.501	621.347	617.718	613.947	610.299	606.261	602.233	597.569
122.5	642.019	639.787	637.317	634.448	630.790	627.275	623.646	619.675	614.859	609.909
125.0	653.752	651.510	649.078	646.095	642.884	638.903	635.274	631.151	626.743	621.965
127.5	664.183	662.340	659.499	656.469	653.163	649.743	646.180	642.076	637.583	632.709
130.0	674.110	671.868	669.351	666.453	663.138	659.917	656.317	652.621	648.251	643.454
132.5	682.917	680.751	678.214	675.564	672.885	669.721	666.301	662.254	658.084	653.457
135.0	691.068	688.987	686.555	683.990	681.188	678.461	675.231	671.517	667.536	663.071
137.5	698.563	696.511	694.336	691.856	689.529	686.812	683.515	680.019	675.963	671.830
140.0	705.698	703.779	701.404	699.200	696.929	694.174	691.296	687.800	683.933	680.124
142.5	710.980	709.441	707.769	705.859	703.484	700.957	698.155	694.706	691.286	687.762
145.0	716.043	714.704	713.070	711.122	709.241	706.971	703.912	700.872	697.851	694.440
147.5	720.613	718.979	717.430	715.872	714.438	711.759	709.156	706.543	703.646	700.587

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CANDELA TABULATION - (Cont.)

150.0	723.615	722.418	721.202	719.824	717.744	715.559	713.355	711.075	708.367	705.821
152.5	725.923	725.078	724.014	722.532	720.793	718.969	717.620	714.637	712.253	710.049
155.0	728.004	726.902	725.591	724.147	722.674	721.192	719.188	717.164	715.350	713.535
157.5	728.184	727.396	726.531	725.524	724.289	722.484	720.622	719.017	717.402	715.777
160.0	727.472	726.759	726.009	724.945	723.653	722.323	721.164	719.967	718.732	717.183
162.5	726.427	725.809	724.916	723.757	722.712	721.753	720.755	719.729	718.466	716.917
165.0	723.691	723.035	722.389	721.791	721.154	720.480	719.777	718.770	717.573	716.338
167.5	720.841	720.385	719.929	719.435	718.903	718.238	717.307	716.338	715.340	714.333
170.0	716.965	716.784	716.604	716.081	715.530	714.932	714.295	713.611	713.146	713.554
172.5	712.158	711.844	711.493	711.113	710.695	710.248	710.087	710.438	710.438	710.647
175.0	708.690	708.424	708.405	708.386	708.453	708.700	708.614	708.690	708.766	708.842
177.5	708.595	708.633	708.681	708.719	708.757	708.795	708.842	708.880	708.918	708.956
180.0	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099	709.099

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	709.099	709.099	709.099	709.099	709.099
2.5	709.004	709.042	709.080	709.137	709.156
5.0	708.928	709.004	709.080	709.156	709.222
7.5	710.847	711.018	711.179	711.312	711.426
10.0	713.554	713.754	713.944	714.115	714.276
12.5	714.381	714.618	714.827	715.027	715.207
15.0	715.217	715.397	715.654	716.186	716.357
17.5	715.350	714.561	714.818	715.065	715.312
20.0	715.378	713.592	713.830	714.153	714.485
22.5	713.649	711.455	710.837	711.103	711.388
25.0	711.512	709.042	707.588	707.883	708.225
27.5	707.864	705.099	702.715	702.981	703.285
30.0	703.427	700.701	697.727	697.756	698.107
32.5	697.775	694.915	691.571	690.925	691.229
35.0	691.419	688.455	684.836	683.715	684.076
37.5	684.275	680.903	677.103	675.336	675.668
40.0	676.286	672.628	668.733	666.387	666.786
42.5	667.802	663.822	659.756	656.735	657.105
45.0	658.891	654.559	650.370	646.741	647.168
47.5	648.878	644.375	639.901	635.787	636.215
50.0	638.371	633.697	628.909	624.596	624.663
52.5	627.437	622.630	617.709	613.092	612.702
55.0	616.293	611.116	605.777	601.112	600.362
57.5	604.371	599.032	593.417	588.572	587.461
60.0	591.973	586.387	580.621	575.538	574.028
62.5	578.151	572.878	567.036	561.849	559.854
65.0	563.464	559.160	553.194	547.846	545.347
67.5	548.254	543.894	538.925	533.805	530.936
70.0	533.539	528.627	524.067	519.526	516.268
72.5	519.583	513.171	507.746	504.127	500.849
75.0	504.811	498.275	491.872	488.129	485.203
77.5	489.715	483.540	476.035	470.839	468.388
80.0	473.727	467.628	460.750	454.024	451.459
82.5	458.185	452.732	445.417	438.700	434.549
85.0	442.120	436.268	429.181	423.415	417.715
87.5	426.711	421.059	414.694	408.718	402.382
90.0	425.448	417.886	410.979	403.142	404.310
92.5	426.711	421.059	414.694	408.718	402.382
95.0	442.120	436.268	429.181	423.415	417.715

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CANDELA TABULATION - (Cont.)

97.5	458.185	452.732	445.417	438.700	434.549
100.0	473.727	467.628	460.750	454.024	451.459
102.5	489.715	483.540	476.035	470.839	468.388
105.0	504.801	498.275	491.872	488.129	485.203
107.5	519.583	513.171	507.746	504.127	500.849
110.0	533.539	528.627	524.067	519.526	516.268
112.5	548.254	543.894	538.925	533.805	530.936
115.0	563.464	559.160	553.194	547.846	545.347
117.5	578.151	572.878	567.036	561.849	559.854
120.0	591.973	586.387	580.621	575.538	574.028
122.5	604.371	599.032	593.417	588.572	587.461
125.0	616.293	611.116	605.777	601.112	600.362
127.5	627.437	622.630	617.709	613.092	612.702
130.0	638.371	633.697	628.909	624.596	624.663
132.5	648.878	644.375	639.901	635.787	636.215
135.0	658.891	654.559	650.370	646.741	647.168
137.5	667.802	663.822	659.756	656.735	657.105
140.0	676.286	672.628	668.733	666.387	666.786
142.5	684.275	680.903	677.103	675.336	675.668
145.0	691.419	688.455	684.836	683.715	684.076
147.5	697.775	694.915	691.571	690.925	691.229
150.0	703.427	700.701	697.727	697.756	698.107
152.5	707.864	705.099	702.715	702.981	703.285
155.0	711.512	709.042	707.588	707.883	708.225
157.5	713.649	711.455	710.837	711.103	711.388
160.0	715.378	713.592	713.830	714.153	714.485
162.5	715.350	714.561	714.818	715.065	715.312
165.0	715.217	715.397	715.654	716.186	716.357
167.5	714.381	714.618	714.827	715.027	715.207
170.0	713.554	713.754	713.944	714.115	714.276
172.5	710.847	711.018	711.179	711.312	711.426
175.0	708.928	709.004	709.080	709.156	709.222
177.5	709.004	709.042	709.080	709.137	709.156
180.0	709.099	709.099	709.099	709.099	709.099

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	272.50	N.A.	3.60
0-30	605.82	N.A.	8.00
0-40	1048.41	N.A.	13.90
0-60	2141.8	N.A.	28.30
0-80	3275.26	N.A.	43.30
0-90	3779.71	N.A.	50.00
10-90	3711.69	N.A.	49.10
20-40	775.91	N.A.	10.30
20-50	1299.22	N.A.	17.20
40-70	1672.42	N.A.	22.10
60-80	1133.46	N.A.	15.00
70-80	554.43	N.A.	7.30
80-90	504.44	N.A.	6.70
90-110	1058.88	N.A.	14.00
90-120	1637.91	N.A.	21.70
90-130	2207.99	N.A.	29.20
90-150	3173.89	N.A.	42.00
90-180	3779.71	N.A.	50.00
110-180	2720.83	N.A.	36.00
0-180	7559.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	68.02
10-20	204.49
20-30	333.32
30-40	442.59
40-50	523.31
50-60	570.08
60-70	579.03
70-80	554.43
80-90	504.44
90-100	504.44
100-110	554.43
110-120	579.03
120-130	570.08
130-140	523.31
140-150	442.59
150-160	333.32
160-170	204.49
170-180	68.02

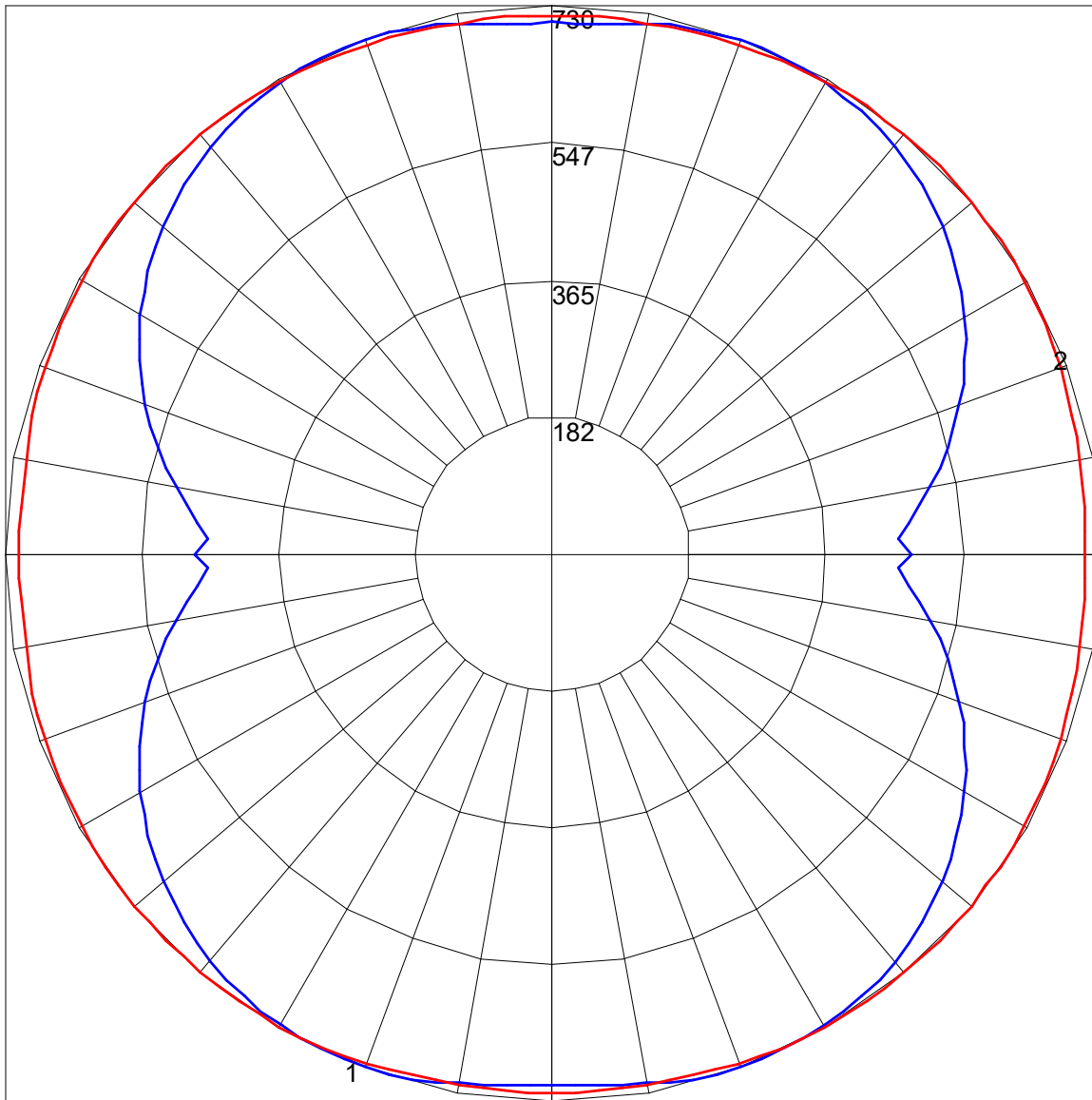
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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	45	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	25	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	19	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 = 729.59 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.)