

IES INDOOR REPORT

PHOTOMETRIC FILENAME : F44A0102 (1M LENGTH).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[MANUFAC] Fabbian srl

[_EULUMDAT_ITYP] 2

[_EULUMDAT_HDIST] 10

[_EULUMD_VDIST] 1

[TEST] F44A01

[LUMINAIRE] F44A01

[LUMCAT] Led

[_EULUM_FILENAME] 14.4W

[ISSUEDATE] 11-04-2018 / AZ

[_EULUM_AREALENGTH] 1000

[_EULUM_AREAWIDTH] 3

[_EULUM_C0_LUM] 0

[_EULUM_C90_LUM] 0

[_EULUM_C180_LUM] 0

[_EULUM_C270_LUM] 0

[_EULUM_DOWN_FLUX] 99.55

[_EULUM_EFFICIENCY] 100

[_EULUM_CONV] 1

[_EULUM_TILT] 0.00

[_EULUM_LAMP_1_NUM] 1

[_EULUM_LAMP_1_TYPE] LED STRIP 14.4W MT

[_EULUM_LAMP_1_FLUX] 680

[_EULUM_LAMP_1_COLOR] 0

[_EULUM_LAMP_1_CRG] 0

[_EULUM_LAMP_1_WATTS] 14.40

[LAMP] LED STRIP 14.4W MT

[_EULUM_DR_0] 0.29551

[_EULUM_DR_1] 0.38142

[_EULUM_DR_2] 0.45544

[_EULUM_DR_3] 0.52894

[_EULUM_DR_4] 0.58571

[_EULUM_DR_5] 0.67401

[_EULUM_DR_6] 0.73231

[_EULUM_DR_7] 0.77415

[_EULUM_DR_8] 0.82571

[_EULUM_DR_9] 0.8575

[_CONVERT] Luminaire test position and photometric web converted from original test data (European LDT Format)

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CHARACTERISTICS

Lumens Per Lamp	680 (1 lamp)
Total Lamp Lumens	680
Luminaire Lumens	680
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	47
Total Luminaire Watts	14.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.00 m
Luminous Width (90-270)	0.00 m
Luminous Height	0.00 m



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	75087	74979	74281
55	73421	73310	72080
65	69199	69004	67137
75	59606	58990	56471
85	42339	42588	38524

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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	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934
2.5	224.777	224.768	224.759	224.749	224.740	224.716	224.691	224.667	224.643	224.664
5.0	224.246	224.231	224.216	224.201	224.186	224.185	224.184	224.183	224.182	224.166
7.5	223.291	223.269	223.247	223.225	223.203	223.192	223.182	223.171	223.160	223.188
10.0	221.985	221.965	221.944	221.924	221.903	221.893	221.883	221.873	221.863	221.854
12.5	220.256	220.218	220.179	220.141	220.102	220.106	220.111	220.115	220.120	220.119
15.0	218.068	218.044	218.020	217.996	217.972	217.967	217.961	217.956	217.950	217.955
17.5	215.537	215.509	215.480	215.452	215.423	215.414	215.406	215.397	215.388	215.396
20.0	212.563	212.549	212.536	212.522	212.508	212.472	212.435	212.399	212.362	212.404
22.5	209.122	209.093	209.063	209.034	209.005	208.995	208.986	208.977	208.968	208.987
25.0	205.378	205.369	205.361	205.352	205.343	205.281	205.219	205.156	205.094	205.114
27.5	201.045	201.060	201.074	201.089	201.103	201.089	201.074	201.060	201.045	201.036
30.0	196.525	196.494	196.464	196.433	196.402	196.401	196.400	196.398	196.397	196.399
32.5	191.217	191.226	191.234	191.243	191.251	191.244	191.237	191.230	191.224	191.233
35.0	185.619	185.686	185.753	185.820	185.887	185.865	185.843	185.820	185.798	185.786
37.5	179.929	179.883	179.838	179.792	179.746	179.735	179.724	179.713	179.702	179.715
40.0	173.460	173.447	173.433	173.420	173.406	173.406	173.406	173.406	173.406	173.397
42.5	166.579	166.604	166.630	166.656	166.682	166.633	166.584	166.535	166.487	166.532
45.0	159.352	159.362	159.372	159.381	159.391	159.360	159.329	159.297	159.266	159.310
47.5	151.755	151.719	151.683	151.647	151.612	151.654	151.697	151.739	151.782	151.752
50.0	143.484	143.530	143.576	143.622	143.668	143.639	143.610	143.580	143.551	143.602
52.5	135.364	135.332	135.301	135.269	135.237	135.275	135.314	135.352	135.391	135.298
55.0	126.392	126.343	126.294	126.244	126.195	126.232	126.269	126.306	126.343	126.352
57.5	117.155	117.105	117.056	117.006	116.956	116.938	116.919	116.900	116.881	116.914
60.0	107.789	107.721	107.653	107.584	107.516	107.543	107.571	107.598	107.625	107.567
62.5	98.055	97.928	97.801	97.675	97.548	97.591	97.634	97.677	97.721	97.689
65.0	87.772	87.703	87.634	87.564	87.495	87.575	87.656	87.736	87.816	87.725
67.5	77.378	77.295	77.212	77.130	77.047	77.135	77.222	77.310	77.397	77.313
70.0	67.159	67.088	67.017	66.945	66.874	66.929	66.985	67.040	67.095	67.066
72.5	56.534	56.462	56.390	56.318	56.247	56.285	56.323	56.362	56.400	56.375
75.0	46.301	46.223	46.145	46.067	45.989	46.061	46.134	46.206	46.278	46.173
77.5	36.333	36.213	36.093	35.973	35.853	35.927	36.001	36.075	36.150	36.104
80.0	26.951	26.886	26.822	26.757	26.692	26.634	26.576	26.518	26.460	26.489
82.5	18.238	18.188	18.139	18.089	18.040	18.112	18.185	18.257	18.330	18.270
85.0	11.075	11.039	11.003	10.966	10.930	10.973	11.017	11.060	11.103	11.136
87.5	5.240	5.329	5.419	5.509	5.599	5.615	5.631	5.647	5.663	5.668
90.0	0.990	1.248	1.505	1.763	2.020	2.052	2.083	2.115	2.146	2.184
92.5	0.395	0.506	0.618	0.729	0.841	0.863	0.885	0.907	0.930	0.931
95.0	0.349	0.361	0.372	0.384	0.395	0.418	0.440	0.463	0.485	0.483
97.5	0.326	0.327	0.327	0.328	0.329	0.328	0.328	0.327	0.327	0.326
100.0	0.318	0.317	0.317	0.316	0.315	0.312	0.309	0.306	0.303	0.300
102.5	0.316	0.315	0.315	0.315	0.315	0.311	0.308	0.305	0.302	0.298
105.0	0.316	0.316	0.316	0.315	0.315	0.312	0.309	0.306	0.303	0.299
107.5	0.318	0.318	0.318	0.317	0.317	0.315	0.313	0.310	0.308	0.305
110.0	0.324	0.324	0.324	0.323	0.323	0.321	0.319	0.317	0.315	0.314
112.5	0.337	0.336	0.335	0.335	0.334	0.333	0.332	0.330	0.329	0.329
115.0	0.354	0.354	0.353	0.353	0.352	0.351	0.349	0.348	0.346	0.346
117.5	0.377	0.377	0.377	0.376	0.376	0.375	0.374	0.372	0.371	0.372
120.0	0.406	0.406	0.406	0.405	0.405	0.403	0.400	0.398	0.395	0.396
122.5	0.433	0.432	0.431	0.430	0.429	0.427	0.424	0.422	0.420	0.421
125.0	0.456	0.456	0.457	0.457	0.457	0.454	0.451	0.448	0.445	0.446
127.5	0.480	0.479	0.479	0.479	0.479	0.476	0.474	0.472	0.470	0.470
130.0	0.505	0.504	0.503	0.502	0.501	0.499	0.496	0.494	0.491	0.492
132.5	0.525	0.524	0.524	0.524	0.524	0.521	0.519	0.516	0.514	0.514

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CANDELA TABULATION - (Cont.)

135.0	0.546	0.545	0.545	0.544	0.543	0.541	0.539	0.537	0.535	0.534
137.5	0.565	0.564	0.564	0.563	0.563	0.560	0.558	0.556	0.554	0.553
140.0	0.582	0.581	0.581	0.580	0.579	0.578	0.576	0.575	0.573	0.572
142.5	0.596	0.596	0.596	0.596	0.597	0.595	0.593	0.591	0.589	0.588
145.0	0.613	0.613	0.613	0.612	0.612	0.610	0.608	0.606	0.604	0.603
147.5	0.625	0.625	0.625	0.626	0.626	0.625	0.623	0.622	0.620	0.619
150.0	0.637	0.638	0.638	0.639	0.639	0.638	0.636	0.635	0.633	0.632
152.5	0.652	0.652	0.652	0.652	0.652	0.650	0.649	0.648	0.647	0.645
155.0	0.661	0.662	0.662	0.663	0.663	0.662	0.661	0.659	0.658	0.657
157.5	0.672	0.672	0.672	0.672	0.672	0.671	0.670	0.668	0.667	0.665
160.0	0.659	0.659	0.659	0.659	0.659	0.659	0.658	0.658	0.657	0.655
162.5	0.646	0.646	0.646	0.646	0.646	0.645	0.645	0.645	0.645	0.644
165.0	0.650	0.651	0.651	0.652	0.652	0.651	0.650	0.649	0.648	0.647
167.5	0.655	0.655	0.655	0.655	0.656	0.655	0.655	0.654	0.654	0.653
170.0	0.661	0.661	0.661	0.661	0.661	0.660	0.659	0.658	0.657	0.657
172.5	0.659	0.660	0.661	0.662	0.663	0.662	0.661	0.660	0.660	0.659
175.0	0.659	0.660	0.662	0.663	0.664	0.664	0.663	0.663	0.662	0.661
177.5	0.675	0.676	0.678	0.679	0.681	0.679	0.678	0.676	0.675	0.674
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934
2.5	224.686	224.708	224.730	224.712	224.693	224.675	224.656	224.685	224.714	224.743
5.0	224.151	224.135	224.119	224.134	224.148	224.163	224.177	224.202	224.226	224.251
7.5	223.215	223.243	223.270	223.257	223.245	223.232	223.219	223.226	223.233	223.240
10.0	221.844	221.835	221.825	221.827	221.830	221.832	221.834	221.867	221.899	221.932
12.5	220.118	220.117	220.116	220.107	220.098	220.089	220.081	220.099	220.117	220.135
15.0	217.960	217.964	217.969	217.965	217.960	217.956	217.951	217.971	217.991	218.010
17.5	215.404	215.412	215.421	215.394	215.367	215.340	215.313	215.329	215.345	215.361
20.0	212.446	212.487	212.529	212.481	212.433	212.384	212.336	212.353	212.370	212.387
22.5	209.007	209.026	209.046	209.043	209.040	209.037	209.034	209.048	209.063	209.077
25.0	205.134	205.154	205.174	205.170	205.167	205.163	205.159	205.168	205.176	205.185
27.5	201.028	201.019	201.010	201.008	201.006	201.004	201.003	200.986	200.969	200.953
30.0	196.401	196.403	196.405	196.378	196.352	196.325	196.298	196.312	196.326	196.339
32.5	191.243	191.252	191.262	191.263	191.264	191.265	191.266	191.260	191.254	191.248
35.0	185.773	185.761	185.748	185.752	185.755	185.759	185.762	185.769	185.777	185.784
37.5	179.729	179.742	179.756	179.745	179.733	179.722	179.711	179.703	179.696	179.688
40.0	173.389	173.380	173.371	173.352	173.333	173.313	173.294	173.278	173.262	173.245
42.5	166.577	166.622	166.668	166.600	166.532	166.464	166.397	166.389	166.382	166.374
45.0	159.354	159.397	159.441	159.364	159.287	159.209	159.132	159.127	159.123	159.118
47.5	151.722	151.692	151.662	151.675	151.689	151.702	151.716	151.719	151.721	151.724
50.0	143.652	143.703	143.753	143.738	143.722	143.707	143.691	143.667	143.642	143.618
52.5	135.205	135.112	135.019	135.085	135.152	135.218	135.285	135.237	135.190	135.143
55.0	126.360	126.369	126.377	126.327	126.277	126.226	126.176	126.188	126.200	126.211
57.5	116.947	116.980	117.013	117.067	117.122	117.176	117.231	117.175	117.118	117.062
60.0	107.509	107.450	107.392	107.438	107.484	107.529	107.575	107.520	107.466	107.411
62.5	97.657	97.625	97.593	97.645	97.698	97.750	97.803	97.682	97.561	97.441
65.0	87.634	87.542	87.451	87.520	87.589	87.657	87.726	87.625	87.524	87.422
67.5	77.229	77.145	77.062	77.117	77.172	77.227	77.282	77.242	77.202	77.162
70.0	67.036	67.007	66.977	66.964	66.951	66.937	66.924	66.851	66.778	66.705
72.5	56.351	56.326	56.301	56.311	56.320	56.330	56.340	56.345	56.350	56.355
75.0	46.069	45.964	45.859	45.879	45.899	45.919	45.939	45.881	45.823	45.764
77.5	36.058	36.013	35.967	36.019	36.071	36.123	36.175	36.140	36.105	36.070
80.0	26.517	26.546	26.574	26.629	26.684	26.738	26.793	26.736	26.679	26.621

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CANDELA TABULATION - (Cont.)

82.5	18.210	18.150	18.091	18.168	18.245	18.322	18.399	18.306	18.213	18.120
85.0	11.170	11.203	11.236	11.227	11.218	11.208	11.199	11.169	11.140	11.110
87.5	5.674	5.679	5.685	5.715	5.745	5.775	5.806	5.797	5.788	5.779
90.0	2.222	2.260	2.298	2.317	2.336	2.355	2.374	2.387	2.399	2.412
92.5	0.932	0.933	0.934	0.925	0.916	0.907	0.898	0.897	0.896	0.895
95.0	0.481	0.478	0.476	0.469	0.463	0.456	0.449	0.447	0.444	0.442
97.5	0.325	0.324	0.323	0.321	0.319	0.318	0.316	0.318	0.320	0.322
100.0	0.296	0.293	0.289	0.288	0.286	0.285	0.283	0.285	0.288	0.290
102.5	0.294	0.290	0.286	0.282	0.279	0.276	0.273	0.274	0.275	0.276
105.0	0.296	0.292	0.288	0.284	0.280	0.276	0.272	0.272	0.271	0.271
107.5	0.302	0.299	0.297	0.294	0.291	0.288	0.285	0.284	0.283	0.281
110.0	0.312	0.311	0.309	0.307	0.305	0.302	0.300	0.299	0.298	0.296
112.5	0.328	0.328	0.327	0.325	0.324	0.322	0.320	0.319	0.319	0.318
115.0	0.347	0.347	0.347	0.347	0.346	0.346	0.345	0.345	0.345	0.344
117.5	0.372	0.373	0.374	0.373	0.372	0.371	0.371	0.371	0.371	0.371
120.0	0.398	0.399	0.400	0.399	0.399	0.398	0.397	0.396	0.396	0.395
122.5	0.422	0.423	0.424	0.424	0.424	0.423	0.423	0.423	0.423	0.423
125.0	0.447	0.447	0.448	0.448	0.448	0.448	0.448	0.448	0.448	0.447
127.5	0.470	0.470	0.471	0.471	0.472	0.473	0.474	0.473	0.473	0.472
130.0	0.492	0.493	0.493	0.494	0.495	0.495	0.496	0.496	0.496	0.495
132.5	0.514	0.513	0.513	0.514	0.515	0.515	0.516	0.516	0.517	0.517
135.0	0.533	0.532	0.531	0.533	0.535	0.536	0.538	0.538	0.538	0.537
137.5	0.553	0.552	0.552	0.553	0.554	0.555	0.556	0.556	0.557	0.557
140.0	0.571	0.569	0.568	0.569	0.571	0.572	0.573	0.574	0.576	0.577
142.5	0.586	0.585	0.584	0.585	0.587	0.588	0.590	0.591	0.592	0.593
145.0	0.603	0.602	0.601	0.602	0.603	0.604	0.605	0.606	0.608	0.609
147.5	0.617	0.616	0.614	0.615	0.616	0.617	0.618	0.619	0.621	0.623
150.0	0.631	0.629	0.628	0.629	0.630	0.630	0.631	0.633	0.635	0.637
152.5	0.644	0.642	0.640	0.641	0.641	0.642	0.642	0.645	0.647	0.650
155.0	0.656	0.655	0.654	0.654	0.654	0.653	0.653	0.656	0.659	0.662
157.5	0.664	0.662	0.660	0.660	0.661	0.661	0.661	0.663	0.665	0.667
160.0	0.653	0.650	0.648	0.649	0.651	0.652	0.653	0.654	0.655	0.656
162.5	0.642	0.641	0.640	0.640	0.641	0.641	0.642	0.643	0.645	0.647
165.0	0.646	0.645	0.644	0.645	0.645	0.646	0.646	0.648	0.650	0.651
167.5	0.653	0.652	0.652	0.652	0.652	0.652	0.652	0.654	0.657	0.659
170.0	0.656	0.656	0.655	0.655	0.655	0.655	0.655	0.657	0.660	0.662
172.5	0.658	0.658	0.657	0.657	0.657	0.657	0.657	0.659	0.661	0.664
175.0	0.660	0.658	0.657	0.658	0.660	0.661	0.662	0.664	0.665	0.667
177.5	0.672	0.671	0.670	0.670	0.671	0.672	0.673	0.675	0.677	0.680
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934
2.5	224.772	224.754	224.735	224.717	224.699	224.708	224.717	224.726	224.736	224.747
5.0	224.275	224.250	224.224	224.199	224.173	224.153	224.132	224.112	224.091	224.138
7.5	223.247	223.249	223.250	223.252	223.254	223.248	223.242	223.236	223.231	223.243
10.0	221.964	221.948	221.933	221.917	221.901	221.904	221.908	221.911	221.914	221.918
12.5	220.154	220.154	220.155	220.156	220.157	220.150	220.144	220.137	220.131	220.139
15.0	218.030	218.005	217.981	217.956	217.931	217.921	217.911	217.900	217.890	217.908
17.5	215.378	215.382	215.387	215.392	215.397	215.378	215.359	215.340	215.322	215.331
20.0	212.404	212.383	212.362	212.340	212.319	212.330	212.342	212.353	212.364	212.375
22.5	209.092	209.053	209.014	208.976	208.937	208.942	208.948	208.953	208.958	208.950
25.0	205.193	205.186	205.179	205.172	205.165	205.155	205.145	205.134	205.124	205.125
27.5	200.936	200.928	200.920	200.911	200.903	200.894	200.884	200.875	200.865	200.867

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CANDELA TABULATION - (Cont.)

30.0	196.353	196.353	196.353	196.352	196.352	196.340	196.328	196.316	196.304	196.271
32.5	191.242	191.221	191.200	191.179	191.158	191.142	191.126	191.110	191.094	191.099
35.0	185.791	185.721	185.652	185.582	185.512	185.469	185.426	185.383	185.340	185.375
37.5	179.681	179.659	179.638	179.617	179.596	179.565	179.535	179.504	179.474	179.497
40.0	173.229	173.226	173.224	173.221	173.218	173.184	173.149	173.115	173.080	173.079
42.5	166.367	166.367	166.367	166.367	166.368	166.359	166.350	166.341	166.333	166.317
45.0	159.113	159.146	159.179	159.212	159.245	159.208	159.170	159.133	159.095	159.055
47.5	151.726	151.690	151.654	151.618	151.582	151.481	151.380	151.279	151.178	151.237
50.0	143.593	143.547	143.500	143.454	143.407	143.349	143.292	143.234	143.176	143.214
52.5	135.096	135.029	134.962	134.895	134.829	134.840	134.851	134.863	134.874	134.886
55.0	126.223	126.211	126.198	126.186	126.173	126.118	126.063	126.007	125.952	125.956
57.5	117.006	117.019	117.031	117.044	117.057	116.984	116.911	116.839	116.766	116.769
60.0	107.356	107.407	107.458	107.508	107.559	107.527	107.496	107.464	107.432	107.348
62.5	97.320	97.375	97.429	97.484	97.539	97.455	97.372	97.288	97.205	97.232
65.0	87.321	87.304	87.288	87.271	87.254	87.268	87.283	87.297	87.311	87.177
67.5	77.122	77.169	77.217	77.264	77.312	77.180	77.049	76.917	76.786	76.869
70.0	66.632	66.669	66.705	66.742	66.778	66.634	66.490	66.346	66.202	66.252
72.5	56.360	56.355	56.350	56.345	56.341	56.265	56.190	56.114	56.039	56.093
75.0	45.706	45.741	45.775	45.810	45.844	45.804	45.763	45.723	45.682	45.751
77.5	36.035	36.007	35.979	35.950	35.922	35.899	35.876	35.852	35.829	35.869
80.0	26.564	26.610	26.656	26.702	26.748	26.634	26.520	26.406	26.292	26.374
82.5	18.028	18.076	18.125	18.173	18.222	18.151	18.081	18.010	17.940	17.995
85.0	11.080	11.108	11.136	11.164	11.192	11.123	11.055	10.986	10.917	10.889
87.5	5.770	5.770	5.770	5.770	5.770	5.722	5.675	5.627	5.580	5.581
90.0	2.424	2.419	2.414	2.408	2.403	2.402	2.400	2.399	2.397	2.344
92.5	0.895	0.873	0.852	0.831	0.810	0.796	0.782	0.768	0.754	0.738
95.0	0.439	0.429	0.419	0.408	0.398	0.386	0.374	0.362	0.350	0.339
97.5	0.324	0.318	0.313	0.307	0.302	0.294	0.287	0.279	0.272	0.265
100.0	0.292	0.290	0.287	0.285	0.282	0.276	0.270	0.264	0.258	0.252
102.5	0.277	0.276	0.276	0.276	0.276	0.272	0.269	0.265	0.262	0.258
105.0	0.270	0.270	0.270	0.269	0.269	0.268	0.267	0.266	0.265	0.264
107.5	0.280	0.279	0.278	0.277	0.276	0.276	0.277	0.277	0.278	0.277
110.0	0.295	0.295	0.295	0.294	0.294	0.294	0.295	0.295	0.295	0.295
112.5	0.318	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.316
115.0	0.344	0.344	0.344	0.343	0.343	0.343	0.342	0.342	0.341	0.341
117.5	0.371	0.370	0.369	0.368	0.367	0.367	0.367	0.366	0.366	0.366
120.0	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.393	0.393	0.393
122.5	0.423	0.422	0.421	0.420	0.419	0.419	0.419	0.419	0.419	0.418
125.0	0.447	0.447	0.446	0.446	0.445	0.445	0.444	0.444	0.443	0.443
127.5	0.471	0.471	0.470	0.470	0.470	0.469	0.469	0.468	0.468	0.468
130.0	0.495	0.495	0.494	0.494	0.493	0.492	0.492	0.491	0.490	0.490
132.5	0.517	0.516	0.516	0.515	0.514	0.514	0.513	0.513	0.512	0.512
135.0	0.537	0.537	0.537	0.536	0.536	0.536	0.536	0.535	0.535	0.534
137.5	0.558	0.557	0.556	0.555	0.555	0.554	0.554	0.553	0.553	0.553
140.0	0.578	0.577	0.576	0.575	0.574	0.573	0.573	0.572	0.571	0.571
142.5	0.595	0.594	0.593	0.592	0.592	0.591	0.591	0.590	0.590	0.590
145.0	0.610	0.609	0.609	0.608	0.607	0.607	0.608	0.608	0.608	0.607
147.5	0.625	0.624	0.623	0.622	0.622	0.622	0.622	0.622	0.622	0.621
150.0	0.639	0.638	0.638	0.637	0.636	0.636	0.636	0.635	0.635	0.635
152.5	0.653	0.652	0.651	0.650	0.650	0.650	0.650	0.650	0.650	0.650
155.0	0.665	0.665	0.664	0.664	0.663	0.663	0.663	0.662	0.662	0.662
157.5	0.670	0.669	0.668	0.667	0.666	0.665	0.664	0.663	0.663	0.662
160.0	0.657	0.657	0.657	0.656	0.656	0.655	0.653	0.652	0.650	0.651
162.5	0.649	0.648	0.648	0.647	0.647	0.647	0.647	0.647	0.648	0.647
165.0	0.653	0.653	0.653	0.653	0.653	0.653	0.654	0.654	0.654	0.654
167.5	0.662	0.661	0.661	0.660	0.660	0.660	0.660	0.660	0.660	0.660

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CANDELA TABULATION - (Cont.)

170.0	0.664	0.664	0.664	0.663	0.663	0.664	0.664	0.665	0.665	0.665
172.5	0.666	0.666	0.666	0.666	0.666	0.666	0.666	0.666	0.666	0.666
175.0	0.668	0.668	0.669	0.669	0.669	0.669	0.668	0.668	0.667	0.668
177.5	0.682	0.682	0.681	0.681	0.681	0.681	0.681	0.681	0.682	0.681
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles	Horizontal Angles									
	75.0	77.5	80.0	82.5	85.0	87.5	90.0	92.5	95.0	97.5
0.0	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934
2.5	224.759	224.770	224.782	224.753	224.725	224.696	224.668	224.696	224.725	224.753
5.0	224.185	224.231	224.278	224.199	224.119	224.040	223.960	224.040	224.119	224.199
7.5	223.255	223.267	223.279	223.211	223.143	223.075	223.007	223.075	223.143	223.211
10.0	221.922	221.925	221.929	221.870	221.810	221.751	221.691	221.751	221.810	221.870
12.5	220.147	220.156	220.164	220.083	220.003	219.922	219.842	219.922	220.003	220.083
15.0	217.926	217.944	217.962	217.856	217.750	217.644	217.538	217.644	217.750	217.856
17.5	215.340	215.349	215.359	215.231	215.104	214.976	214.849	214.976	215.104	215.231
20.0	212.385	212.396	212.406	212.246	212.087	211.927	211.767	211.927	212.087	212.246
22.5	208.943	208.935	208.928	208.762	208.596	208.430	208.265	208.430	208.596	208.762
25.0	205.127	205.128	205.129	204.923	204.716	204.510	204.303	204.510	204.716	204.923
27.5	200.869	200.871	200.873	200.683	200.493	200.303	200.114	200.303	200.493	200.683
30.0	196.238	196.205	196.172	195.919	195.665	195.412	195.158	195.412	195.665	195.919
32.5	191.104	191.109	191.114	190.844	190.574	190.304	190.034	190.304	190.574	190.844
35.0	185.409	185.444	185.478	185.165	184.852	184.538	184.225	184.538	184.852	185.165
37.5	179.520	179.542	179.565	179.237	178.909	178.580	178.252	178.580	178.909	179.237
40.0	173.077	173.076	173.074	172.802	172.529	172.257	171.984	172.257	172.529	172.802
42.5	166.302	166.286	166.271	165.940	165.610	165.279	164.949	165.279	165.610	165.940
45.0	159.016	158.976	158.936	158.612	158.289	157.965	157.641	157.965	158.289	158.612
47.5	151.296	151.356	151.415	151.044	150.674	150.303	149.933	150.303	150.674	151.044
50.0	143.253	143.291	143.329	142.930	142.531	142.132	141.733	142.132	142.531	142.930
52.5	134.897	134.909	134.920	134.469	134.018	133.567	133.116	133.567	134.018	134.469
55.0	125.961	125.965	125.969	125.497	125.026	124.554	124.082	124.554	125.026	125.497
57.5	116.773	116.776	116.779	116.267	115.755	115.243	114.730	115.243	115.755	116.267
60.0	107.264	107.180	107.096	106.613	106.129	105.646	105.162	105.646	106.129	106.613
62.5	97.259	97.286	97.314	96.806	96.298	95.790	95.283	95.790	96.298	96.806
65.0	87.044	86.910	86.776	86.371	85.966	85.561	85.156	85.561	85.966	86.371
67.5	76.952	77.035	77.118	76.579	76.040	75.501	74.962	75.501	76.040	76.579
70.0	66.301	66.351	66.400	65.912	65.423	64.935	64.446	64.935	65.423	65.912
72.5	56.148	56.202	56.257	55.707	55.157	54.607	54.057	54.607	55.157	55.707
75.0	45.821	45.890	45.959	45.436	44.913	44.389	43.866	44.389	44.913	45.436
77.5	35.908	35.948	35.988	35.519	35.050	34.581	34.113	34.581	35.050	35.519
80.0	26.455	26.537	26.618	26.163	25.708	25.252	24.797	25.252	25.708	26.163
82.5	18.050	18.105	18.161	17.764	17.367	16.971	16.574	16.971	17.367	17.764
85.0	10.861	10.832	10.804	10.622	10.441	10.259	10.077	10.259	10.441	10.622
87.5	5.582	5.583	5.584	5.381	5.177	4.974	4.770	4.974	5.177	5.381
90.0	2.290	2.237	2.183	2.102	2.021	1.939	1.858	1.939	2.021	2.102
92.5	0.722	0.706	0.690	0.655	0.620	0.585	0.551	0.585	0.620	0.655
95.0	0.328	0.317	0.306	0.297	0.289	0.280	0.271	0.280	0.289	0.297
97.5	0.258	0.251	0.244	0.237	0.231	0.225	0.219	0.225	0.231	0.237
100.0	0.245	0.239	0.232	0.229	0.227	0.224	0.221	0.224	0.227	0.229
102.5	0.254	0.250	0.246	0.243	0.241	0.239	0.237	0.239	0.241	0.243
105.0	0.263	0.261	0.260	0.258	0.256	0.253	0.251	0.253	0.256	0.258
107.5	0.277	0.276	0.276	0.274	0.273	0.271	0.269	0.271	0.273	0.274
110.0	0.295	0.295	0.295	0.293	0.291	0.289	0.287	0.289	0.291	0.293
112.5	0.315	0.314	0.314	0.313	0.313	0.313	0.313	0.313	0.313	0.313
115.0	0.340	0.340	0.339	0.338	0.337	0.336	0.335	0.336	0.337	0.338

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CANDELA TABULATION - (Cont.)

117.5	0.366	0.365	0.365	0.365	0.364	0.364	0.363	0.364	0.364	0.365
120.0	0.393	0.392	0.392	0.391	0.390	0.389	0.388	0.389	0.390	0.391
122.5	0.417	0.416	0.415	0.415	0.415	0.415	0.416	0.415	0.415	0.415
125.0	0.443	0.442	0.442	0.442	0.442	0.441	0.441	0.441	0.442	0.442
127.5	0.467	0.467	0.466	0.466	0.465	0.465	0.464	0.465	0.465	0.466
130.0	0.489	0.489	0.488	0.489	0.489	0.490	0.490	0.490	0.489	0.489
132.5	0.512	0.512	0.512	0.511	0.511	0.510	0.510	0.510	0.511	0.511
135.0	0.534	0.533	0.532	0.532	0.531	0.531	0.530	0.531	0.531	0.532
137.5	0.552	0.552	0.551	0.551	0.552	0.552	0.552	0.552	0.552	0.551
140.0	0.570	0.570	0.569	0.569	0.569	0.569	0.569	0.569	0.569	0.569
142.5	0.589	0.589	0.589	0.588	0.588	0.587	0.587	0.587	0.588	0.588
145.0	0.606	0.605	0.604	0.604	0.604	0.603	0.603	0.603	0.604	0.604
147.5	0.621	0.620	0.620	0.620	0.619	0.619	0.619	0.619	0.619	0.620
150.0	0.635	0.635	0.635	0.635	0.635	0.634	0.634	0.634	0.635	0.635
152.5	0.649	0.649	0.649	0.648	0.648	0.647	0.647	0.647	0.648	0.648
155.0	0.661	0.661	0.660	0.658	0.657	0.655	0.653	0.655	0.657	0.658
157.5	0.662	0.662	0.662	0.658	0.654	0.650	0.646	0.650	0.654	0.658
160.0	0.651	0.652	0.652	0.644	0.636	0.627	0.619	0.627	0.636	0.644
162.5	0.647	0.647	0.647	0.635	0.624	0.612	0.600	0.612	0.624	0.635
165.0	0.654	0.653	0.653	0.640	0.628	0.615	0.602	0.615	0.628	0.640
167.5	0.660	0.660	0.661	0.648	0.635	0.622	0.610	0.622	0.635	0.648
170.0	0.664	0.664	0.663	0.651	0.638	0.626	0.613	0.626	0.638	0.651
172.5	0.666	0.665	0.665	0.652	0.640	0.627	0.614	0.627	0.640	0.652
175.0	0.669	0.669	0.670	0.658	0.645	0.633	0.620	0.633	0.645	0.658
177.5	0.680	0.680	0.679	0.673	0.667	0.661	0.655	0.661	0.667	0.673
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934
2.5	224.782	224.770	224.759	224.747	224.736	224.726	224.717	224.708	224.699	224.717
5.0	224.278	224.231	224.185	224.138	224.091	224.112	224.132	224.153	224.173	224.199
7.5	223.279	223.267	223.255	223.243	223.231	223.236	223.242	223.248	223.254	223.252
10.0	221.929	221.925	221.922	221.918	221.914	221.911	221.908	221.904	221.901	221.917
12.5	220.164	220.156	220.147	220.139	220.131	220.137	220.144	220.150	220.157	220.156
15.0	217.962	217.944	217.926	217.908	217.890	217.900	217.911	217.921	217.931	217.956
17.5	215.359	215.349	215.340	215.331	215.322	215.340	215.359	215.378	215.397	215.392
20.0	212.406	212.396	212.385	212.375	212.364	212.353	212.342	212.330	212.319	212.340
22.5	208.928	208.935	208.943	208.950	208.958	208.953	208.948	208.942	208.937	208.976
25.0	205.129	205.128	205.127	205.125	205.124	205.134	205.145	205.155	205.165	205.172
27.5	200.873	200.871	200.869	200.867	200.865	200.875	200.884	200.894	200.903	200.911
30.0	196.172	196.205	196.238	196.271	196.304	196.316	196.328	196.340	196.352	196.352
32.5	191.114	191.109	191.104	191.099	191.094	191.110	191.126	191.142	191.158	191.179
35.0	185.478	185.444	185.409	185.375	185.340	185.383	185.426	185.469	185.512	185.582
37.5	179.565	179.542	179.520	179.497	179.474	179.504	179.535	179.565	179.596	179.617
40.0	173.074	173.076	173.077	173.079	173.080	173.115	173.149	173.184	173.218	173.221
42.5	166.271	166.286	166.302	166.317	166.333	166.341	166.350	166.359	166.368	166.367
45.0	158.936	158.976	159.016	159.055	159.095	159.133	159.170	159.208	159.245	159.212
47.5	151.415	151.356	151.296	151.237	151.178	151.279	151.380	151.481	151.582	151.618
50.0	143.329	143.291	143.253	143.214	143.176	143.234	143.292	143.349	143.407	143.454
52.5	134.920	134.909	134.897	134.886	134.874	134.863	134.851	134.840	134.829	134.895
55.0	125.969	125.965	125.961	125.956	125.952	126.007	126.063	126.118	126.173	126.186
57.5	116.779	116.776	116.773	116.769	116.766	116.839	116.911	116.984	117.057	117.044
60.0	107.096	107.180	107.264	107.348	107.432	107.464	107.496	107.527	107.559	107.508
62.5	97.314	97.286	97.259	97.232	97.205	97.288	97.372	97.455	97.539	97.484

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CANDELA TABULATION - (Cont.)

65.0	86.776	86.910	87.044	87.177	87.311	87.297	87.283	87.268	87.254	87.271
67.5	77.118	77.035	76.952	76.869	76.786	76.917	77.049	77.180	77.312	77.264
70.0	66.400	66.351	66.301	66.252	66.202	66.346	66.490	66.634	66.778	66.742
72.5	56.257	56.202	56.148	56.093	56.039	56.114	56.190	56.265	56.341	56.345
75.0	45.959	45.890	45.821	45.751	45.682	45.723	45.763	45.804	45.844	45.810
77.5	35.988	35.948	35.908	35.869	35.829	35.852	35.876	35.899	35.922	35.950
80.0	26.618	26.537	26.455	26.374	26.292	26.406	26.520	26.634	26.748	26.702
82.5	18.161	18.105	18.050	17.995	17.940	18.010	18.081	18.151	18.222	18.173
85.0	10.804	10.832	10.861	10.889	10.917	10.986	11.055	11.123	11.192	11.164
87.5	5.584	5.583	5.582	5.581	5.580	5.627	5.675	5.722	5.770	5.770
90.0	2.183	2.237	2.290	2.344	2.397	2.399	2.400	2.402	2.403	2.408
92.5	0.690	0.706	0.722	0.738	0.754	0.768	0.782	0.796	0.810	0.831
95.0	0.306	0.317	0.328	0.339	0.350	0.362	0.374	0.386	0.398	0.408
97.5	0.244	0.251	0.258	0.265	0.272	0.279	0.287	0.294	0.302	0.307
100.0	0.232	0.239	0.245	0.252	0.258	0.264	0.270	0.276	0.282	0.285
102.5	0.246	0.250	0.254	0.258	0.262	0.265	0.269	0.272	0.276	0.276
105.0	0.260	0.261	0.263	0.264	0.265	0.266	0.267	0.268	0.269	0.269
107.5	0.276	0.276	0.277	0.277	0.278	0.277	0.277	0.276	0.276	0.277
110.0	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.294	0.294	0.294
112.5	0.314	0.314	0.315	0.316	0.317	0.317	0.317	0.317	0.317	0.317
115.0	0.339	0.340	0.340	0.341	0.341	0.342	0.342	0.343	0.343	0.343
117.5	0.365	0.365	0.366	0.366	0.366	0.366	0.367	0.367	0.367	0.368
120.0	0.392	0.392	0.393	0.393	0.393	0.393	0.394	0.394	0.394	0.394
122.5	0.415	0.416	0.417	0.418	0.419	0.419	0.419	0.419	0.419	0.420
125.0	0.442	0.442	0.443	0.443	0.443	0.444	0.444	0.445	0.445	0.446
127.5	0.466	0.467	0.467	0.468	0.468	0.468	0.469	0.469	0.470	0.470
130.0	0.488	0.489	0.489	0.490	0.490	0.491	0.492	0.492	0.493	0.494
132.5	0.512	0.512	0.512	0.512	0.512	0.513	0.513	0.514	0.514	0.515
135.0	0.532	0.533	0.534	0.534	0.535	0.535	0.536	0.536	0.536	0.536
137.5	0.551	0.552	0.552	0.553	0.553	0.553	0.554	0.554	0.555	0.555
140.0	0.569	0.570	0.570	0.571	0.571	0.572	0.573	0.573	0.574	0.575
142.5	0.589	0.589	0.589	0.590	0.590	0.590	0.591	0.591	0.592	0.592
145.0	0.604	0.605	0.606	0.607	0.608	0.608	0.608	0.607	0.607	0.608
147.5	0.620	0.620	0.621	0.621	0.622	0.622	0.622	0.622	0.622	0.622
150.0	0.635	0.635	0.635	0.635	0.635	0.635	0.636	0.636	0.636	0.637
152.5	0.649	0.649	0.649	0.650	0.650	0.650	0.650	0.650	0.650	0.650
155.0	0.660	0.661	0.661	0.662	0.662	0.662	0.663	0.663	0.663	0.664
157.5	0.662	0.662	0.662	0.662	0.663	0.663	0.664	0.665	0.666	0.667
160.0	0.652	0.652	0.651	0.651	0.650	0.652	0.653	0.655	0.656	0.656
162.5	0.647	0.647	0.647	0.647	0.648	0.647	0.647	0.647	0.647	0.647
165.0	0.653	0.653	0.654	0.654	0.654	0.654	0.654	0.653	0.653	0.653
167.5	0.661	0.660	0.660	0.660	0.660	0.660	0.660	0.660	0.660	0.660
170.0	0.663	0.664	0.664	0.665	0.665	0.665	0.664	0.664	0.663	0.663
172.5	0.665	0.665	0.666	0.666	0.666	0.666	0.666	0.666	0.666	0.666
175.0	0.670	0.669	0.669	0.668	0.667	0.668	0.668	0.669	0.669	0.669
177.5	0.679	0.680	0.680	0.681	0.682	0.681	0.681	0.681	0.681	0.681
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934
2.5	224.735	224.754	224.772	224.743	224.714	224.685	224.656	224.675	224.693	224.712
5.0	224.224	224.250	224.275	224.251	224.226	224.202	224.177	224.163	224.148	224.134
7.5	223.250	223.249	223.247	223.240	223.233	223.226	223.219	223.232	223.245	223.257
10.0	221.933	221.948	221.964	221.932	221.899	221.867	221.834	221.832	221.830	221.827

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CANDELA TABULATION - (Cont.)

12.5	220.155	220.154	220.154	220.135	220.117	220.099	220.081	220.089	220.098	220.107
15.0	217.981	218.005	218.030	218.010	217.991	217.971	217.951	217.956	217.960	217.965
17.5	215.387	215.382	215.378	215.361	215.345	215.329	215.313	215.340	215.367	215.394
20.0	212.362	212.383	212.404	212.387	212.370	212.353	212.336	212.384	212.433	212.481
22.5	209.014	209.053	209.092	209.077	209.063	209.048	209.034	209.037	209.040	209.043
25.0	205.179	205.186	205.193	205.185	205.176	205.168	205.159	205.163	205.167	205.170
27.5	200.920	200.928	200.936	200.953	200.969	200.986	201.003	201.004	201.006	201.008
30.0	196.353	196.353	196.353	196.339	196.326	196.312	196.298	196.325	196.352	196.378
32.5	191.200	191.221	191.242	191.248	191.254	191.260	191.266	191.265	191.264	191.263
35.0	185.652	185.721	185.791	185.784	185.777	185.769	185.762	185.759	185.755	185.752
37.5	179.638	179.659	179.681	179.688	179.696	179.703	179.711	179.722	179.733	179.745
40.0	173.224	173.226	173.229	173.245	173.262	173.278	173.294	173.313	173.333	173.352
42.5	166.367	166.367	166.367	166.374	166.382	166.389	166.397	166.464	166.532	166.600
45.0	159.179	159.146	159.113	159.118	159.123	159.127	159.132	159.209	159.287	159.364
47.5	151.654	151.690	151.726	151.724	151.721	151.719	151.716	151.702	151.689	151.675
50.0	143.500	143.547	143.593	143.618	143.642	143.667	143.691	143.707	143.722	143.738
52.5	134.962	135.029	135.096	135.143	135.190	135.237	135.285	135.218	135.152	135.085
55.0	126.198	126.211	126.223	126.211	126.200	126.188	126.176	126.226	126.277	126.327
57.5	117.031	117.019	117.006	117.062	117.118	117.175	117.231	117.176	117.122	117.067
60.0	107.458	107.407	107.356	107.411	107.466	107.520	107.575	107.529	107.484	107.438
62.5	97.429	97.375	97.320	97.441	97.561	97.682	97.803	97.750	97.698	97.645
65.0	87.288	87.304	87.321	87.422	87.524	87.625	87.726	87.657	87.589	87.520
67.5	77.217	77.169	77.122	77.162	77.202	77.242	77.282	77.227	77.172	77.117
70.0	66.705	66.669	66.632	66.705	66.778	66.851	66.924	66.937	66.951	66.964
72.5	56.350	56.355	56.360	56.355	56.350	56.345	56.340	56.330	56.320	56.311
75.0	45.775	45.741	45.706	45.764	45.823	45.881	45.939	45.919	45.899	45.879
77.5	35.979	36.007	36.035	36.070	36.105	36.140	36.175	36.123	36.071	36.019
80.0	26.656	26.610	26.564	26.621	26.679	26.736	26.793	26.738	26.684	26.629
82.5	18.125	18.076	18.028	18.120	18.213	18.306	18.399	18.322	18.245	18.168
85.0	11.136	11.108	11.080	11.110	11.140	11.169	11.199	11.208	11.218	11.227
87.5	5.770	5.770	5.770	5.779	5.788	5.797	5.806	5.775	5.745	5.715
90.0	2.414	2.419	2.424	2.412	2.399	2.387	2.374	2.355	2.336	2.317
92.5	0.852	0.873	0.895	0.895	0.896	0.897	0.898	0.907	0.916	0.925
95.0	0.419	0.429	0.439	0.442	0.444	0.447	0.449	0.456	0.463	0.469
97.5	0.313	0.318	0.324	0.322	0.320	0.318	0.316	0.318	0.319	0.321
100.0	0.287	0.290	0.292	0.290	0.288	0.285	0.283	0.285	0.286	0.288
102.5	0.276	0.276	0.277	0.276	0.275	0.274	0.273	0.276	0.279	0.282
105.0	0.270	0.270	0.270	0.271	0.271	0.272	0.272	0.276	0.280	0.284
107.5	0.278	0.279	0.280	0.281	0.283	0.284	0.285	0.288	0.291	0.294
110.0	0.295	0.295	0.295	0.296	0.298	0.299	0.300	0.302	0.305	0.307
112.5	0.317	0.317	0.318	0.318	0.319	0.319	0.320	0.322	0.324	0.325
115.0	0.344	0.344	0.344	0.344	0.345	0.345	0.345	0.346	0.346	0.347
117.5	0.369	0.370	0.371	0.371	0.371	0.371	0.371	0.371	0.372	0.373
120.0	0.394	0.394	0.394	0.395	0.396	0.396	0.397	0.398	0.399	0.399
122.5	0.421	0.422	0.423	0.423	0.423	0.423	0.423	0.423	0.424	0.424
125.0	0.446	0.447	0.447	0.447	0.448	0.448	0.448	0.448	0.448	0.448
127.5	0.470	0.471	0.471	0.472	0.473	0.473	0.474	0.473	0.472	0.471
130.0	0.494	0.495	0.495	0.495	0.496	0.496	0.496	0.495	0.495	0.494
132.5	0.516	0.516	0.517	0.517	0.517	0.516	0.516	0.515	0.515	0.514
135.0	0.537	0.537	0.537	0.537	0.538	0.538	0.538	0.536	0.535	0.533
137.5	0.556	0.557	0.558	0.557	0.557	0.556	0.556	0.555	0.554	0.553
140.0	0.576	0.577	0.578	0.577	0.576	0.574	0.573	0.572	0.571	0.569
142.5	0.593	0.594	0.595	0.593	0.592	0.591	0.590	0.588	0.587	0.585
145.0	0.609	0.609	0.610	0.609	0.608	0.606	0.605	0.604	0.603	0.602
147.5	0.623	0.624	0.625	0.623	0.621	0.619	0.618	0.617	0.616	0.615
150.0	0.638	0.638	0.639	0.637	0.635	0.633	0.631	0.630	0.630	0.629

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CANDELA TABULATION - (Cont.)

152.5	0.651	0.652	0.653	0.650	0.647	0.645	0.642	0.642	0.641	0.641
155.0	0.664	0.665	0.665	0.662	0.659	0.656	0.653	0.653	0.654	0.654
157.5	0.668	0.669	0.670	0.667	0.665	0.663	0.661	0.661	0.661	0.660
160.0	0.657	0.657	0.657	0.656	0.655	0.654	0.653	0.652	0.651	0.649
162.5	0.648	0.648	0.649	0.647	0.645	0.643	0.642	0.641	0.641	0.640
165.0	0.653	0.653	0.653	0.651	0.650	0.648	0.646	0.646	0.645	0.645
167.5	0.661	0.661	0.662	0.659	0.657	0.654	0.652	0.652	0.652	0.652
170.0	0.664	0.664	0.664	0.662	0.660	0.657	0.655	0.655	0.655	0.655
172.5	0.666	0.666	0.666	0.664	0.661	0.659	0.657	0.657	0.657	0.657
175.0	0.669	0.668	0.668	0.667	0.665	0.664	0.662	0.661	0.660	0.658
177.5	0.681	0.682	0.682	0.680	0.677	0.675	0.673	0.672	0.671	0.670
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934
2.5	224.730	224.708	224.686	224.664	224.643	224.667	224.691	224.716	224.740	224.749
5.0	224.119	224.135	224.151	224.166	224.182	224.183	224.184	224.185	224.186	224.201
7.5	223.270	223.243	223.215	223.188	223.160	223.171	223.182	223.192	223.203	223.225
10.0	221.825	221.835	221.844	221.854	221.863	221.873	221.883	221.893	221.903	221.924
12.5	220.116	220.117	220.118	220.119	220.120	220.115	220.111	220.106	220.102	220.141
15.0	217.969	217.964	217.960	217.955	217.950	217.956	217.961	217.967	217.972	217.996
17.5	215.421	215.412	215.404	215.396	215.388	215.397	215.406	215.414	215.423	215.452
20.0	212.529	212.487	212.446	212.404	212.362	212.399	212.435	212.472	212.508	212.522
22.5	209.046	209.026	209.007	208.987	208.968	208.977	208.986	208.995	209.005	209.034
25.0	205.174	205.154	205.134	205.114	205.094	205.156	205.219	205.281	205.343	205.352
27.5	201.010	201.019	201.028	201.036	201.045	201.060	201.074	201.089	201.103	201.089
30.0	196.405	196.403	196.401	196.399	196.397	196.398	196.400	196.401	196.402	196.433
32.5	191.262	191.252	191.243	191.233	191.224	191.230	191.237	191.244	191.251	191.243
35.0	185.748	185.761	185.773	185.786	185.798	185.820	185.843	185.865	185.887	185.820
37.5	179.756	179.742	179.729	179.715	179.702	179.713	179.724	179.735	179.746	179.792
40.0	173.371	173.380	173.389	173.397	173.406	173.406	173.406	173.406	173.406	173.420
42.5	166.668	166.622	166.577	166.532	166.487	166.535	166.584	166.633	166.682	166.656
45.0	159.441	159.397	159.354	159.310	159.266	159.297	159.329	159.360	159.391	159.381
47.5	151.662	151.692	151.722	151.752	151.782	151.739	151.697	151.654	151.612	151.647
50.0	143.753	143.703	143.652	143.602	143.551	143.580	143.610	143.639	143.668	143.622
52.5	135.019	135.112	135.205	135.298	135.391	135.352	135.314	135.275	135.237	135.269
55.0	126.377	126.369	126.360	126.352	126.343	126.306	126.269	126.232	126.195	126.244
57.5	117.013	116.980	116.947	116.914	116.881	116.900	116.919	116.938	116.956	117.006
60.0	107.392	107.450	107.509	107.567	107.625	107.598	107.571	107.543	107.516	107.584
62.5	97.593	97.625	97.657	97.689	97.721	97.677	97.634	97.591	97.548	97.675
65.0	87.451	87.542	87.634	87.725	87.816	87.736	87.656	87.575	87.495	87.564
67.5	77.062	77.145	77.229	77.313	77.397	77.310	77.222	77.135	77.047	77.130
70.0	66.977	67.007	67.036	67.066	67.095	67.040	66.985	66.929	66.874	66.945
72.5	56.301	56.326	56.351	56.375	56.400	56.362	56.323	56.285	56.247	56.318
75.0	45.859	45.964	46.069	46.173	46.278	46.206	46.134	46.061	45.989	46.067
77.5	35.967	36.013	36.058	36.104	36.150	36.075	36.001	35.927	35.853	35.973
80.0	26.574	26.546	26.517	26.489	26.460	26.518	26.576	26.634	26.692	26.757
82.5	18.091	18.150	18.210	18.270	18.330	18.257	18.185	18.112	18.040	18.089
85.0	11.236	11.203	11.170	11.136	11.103	11.060	11.017	10.973	10.930	10.966
87.5	5.685	5.679	5.674	5.668	5.663	5.647	5.631	5.615	5.599	5.509
90.0	2.298	2.260	2.222	2.184	2.146	2.115	2.083	2.052	2.020	1.763
92.5	0.934	0.933	0.932	0.931	0.930	0.907	0.885	0.863	0.841	0.729
95.0	0.476	0.478	0.481	0.483	0.485	0.463	0.440	0.418	0.395	0.384
97.5	0.323	0.324	0.325	0.326	0.327	0.327	0.328	0.328	0.329	0.328

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CANDELA TABULATION - (Cont.)

100.0	0.289	0.293	0.296	0.300	0.303	0.306	0.309	0.312	0.315	0.316
102.5	0.286	0.290	0.294	0.298	0.302	0.305	0.308	0.311	0.315	0.315
105.0	0.288	0.292	0.296	0.299	0.303	0.306	0.309	0.312	0.315	0.315
107.5	0.297	0.299	0.302	0.305	0.308	0.310	0.313	0.315	0.317	0.317
110.0	0.309	0.311	0.312	0.314	0.315	0.317	0.319	0.321	0.323	0.323
112.5	0.327	0.328	0.328	0.329	0.329	0.330	0.332	0.333	0.334	0.335
115.0	0.347	0.347	0.347	0.346	0.346	0.348	0.349	0.351	0.352	0.353
117.5	0.374	0.373	0.372	0.372	0.371	0.372	0.374	0.375	0.376	0.376
120.0	0.400	0.399	0.398	0.396	0.395	0.398	0.400	0.403	0.405	0.405
122.5	0.424	0.423	0.422	0.421	0.420	0.422	0.424	0.427	0.429	0.430
125.0	0.448	0.447	0.447	0.446	0.445	0.448	0.451	0.454	0.457	0.457
127.5	0.471	0.470	0.470	0.470	0.470	0.472	0.474	0.476	0.479	0.479
130.0	0.493	0.493	0.492	0.492	0.491	0.494	0.496	0.499	0.501	0.502
132.5	0.513	0.513	0.514	0.514	0.514	0.516	0.519	0.521	0.524	0.524
135.0	0.531	0.532	0.533	0.534	0.535	0.537	0.539	0.541	0.543	0.544
137.5	0.552	0.552	0.553	0.553	0.554	0.556	0.558	0.560	0.563	0.563
140.0	0.568	0.569	0.571	0.572	0.573	0.575	0.576	0.578	0.579	0.580
142.5	0.584	0.585	0.586	0.588	0.589	0.591	0.593	0.595	0.597	0.596
145.0	0.601	0.602	0.603	0.603	0.604	0.606	0.608	0.610	0.612	0.612
147.5	0.614	0.616	0.617	0.619	0.620	0.622	0.623	0.625	0.626	0.626
150.0	0.628	0.629	0.631	0.632	0.633	0.635	0.636	0.638	0.639	0.639
152.5	0.640	0.642	0.644	0.645	0.647	0.648	0.649	0.650	0.652	0.652
155.0	0.654	0.655	0.656	0.657	0.658	0.659	0.661	0.662	0.663	0.663
157.5	0.660	0.662	0.664	0.665	0.667	0.668	0.670	0.671	0.672	0.672
160.0	0.648	0.650	0.653	0.655	0.657	0.658	0.658	0.659	0.659	0.659
162.5	0.640	0.641	0.642	0.644	0.645	0.645	0.645	0.645	0.646	0.646
165.0	0.644	0.645	0.646	0.647	0.648	0.649	0.650	0.651	0.652	0.652
167.5	0.652	0.652	0.653	0.653	0.654	0.654	0.655	0.655	0.656	0.655
170.0	0.655	0.656	0.656	0.657	0.657	0.658	0.659	0.660	0.661	0.661
172.5	0.657	0.658	0.658	0.659	0.660	0.660	0.661	0.662	0.663	0.662
175.0	0.657	0.658	0.660	0.661	0.662	0.663	0.663	0.664	0.664	0.663
177.5	0.670	0.671	0.672	0.674	0.675	0.676	0.678	0.679	0.681	0.679
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	175.0	177.5	180.0	182.5	185.0	187.5	190.0	192.5	195.0	197.5
0.0	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934
2.5	224.759	224.768	224.777	224.768	224.759	224.749	224.740	224.716	224.691	224.667
5.0	224.216	224.231	224.246	224.231	224.216	224.201	224.186	224.185	224.184	224.183
7.5	223.247	223.269	223.291	223.269	223.247	223.225	223.203	223.192	223.182	223.171
10.0	221.944	221.965	221.985	221.965	221.944	221.924	221.903	221.893	221.883	221.873
12.5	220.179	220.218	220.256	220.218	220.179	220.141	220.102	220.106	220.111	220.115
15.0	218.020	218.044	218.068	218.044	218.020	217.996	217.972	217.967	217.961	217.956
17.5	215.480	215.509	215.537	215.509	215.480	215.452	215.423	215.414	215.406	215.397
20.0	212.536	212.549	212.563	212.549	212.536	212.522	212.508	212.472	212.435	212.399
22.5	209.063	209.093	209.122	209.093	209.063	209.034	209.005	208.995	208.986	208.977
25.0	205.361	205.369	205.378	205.369	205.361	205.352	205.343	205.281	205.219	205.156
27.5	201.074	201.060	201.045	201.060	201.074	201.089	201.103	201.089	201.074	201.060
30.0	196.464	196.494	196.525	196.494	196.464	196.433	196.402	196.401	196.400	196.398
32.5	191.234	191.226	191.217	191.226	191.234	191.243	191.251	191.244	191.237	191.230
35.0	185.753	185.686	185.619	185.686	185.753	185.820	185.887	185.865	185.843	185.820
37.5	179.838	179.883	179.929	179.883	179.838	179.792	179.746	179.735	179.724	179.713
40.0	173.433	173.447	173.460	173.447	173.433	173.420	173.406	173.406	173.406	173.406
42.5	166.630	166.604	166.579	166.604	166.630	166.656	166.682	166.633	166.584	166.535
45.0	159.372	159.362	159.352	159.362	159.372	159.381	159.391	159.360	159.329	159.297

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CANDELA TABULATION - (Cont.)

47.5	151.683	151.719	151.755	151.719	151.683	151.647	151.612	151.654	151.697	151.739
50.0	143.576	143.530	143.484	143.530	143.576	143.622	143.668	143.639	143.610	143.580
52.5	135.301	135.332	135.364	135.332	135.301	135.269	135.237	135.275	135.314	135.352
55.0	126.294	126.343	126.392	126.343	126.294	126.244	126.195	126.232	126.269	126.306
57.5	117.056	117.105	117.155	117.105	117.056	117.006	116.956	116.938	116.919	116.900
60.0	107.653	107.721	107.789	107.721	107.653	107.584	107.516	107.543	107.571	107.598
62.5	97.801	97.928	98.055	97.928	97.801	97.675	97.548	97.591	97.634	97.677
65.0	87.634	87.703	87.772	87.703	87.634	87.564	87.495	87.575	87.656	87.736
67.5	77.212	77.295	77.378	77.295	77.212	77.130	77.047	77.135	77.222	77.310
70.0	67.017	67.088	67.159	67.088	67.017	66.945	66.874	66.929	66.985	67.040
72.5	56.390	56.462	56.534	56.462	56.390	56.318	56.247	56.285	56.323	56.362
75.0	46.145	46.223	46.301	46.223	46.145	46.067	45.989	46.061	46.134	46.206
77.5	36.093	36.213	36.333	36.213	36.093	35.973	35.853	35.927	36.001	36.075
80.0	26.822	26.886	26.951	26.886	26.822	26.757	26.692	26.634	26.576	26.518
82.5	18.139	18.188	18.238	18.188	18.139	18.089	18.040	18.112	18.185	18.257
85.0	11.003	11.039	11.075	11.039	11.003	10.966	10.930	10.973	11.017	11.060
87.5	5.419	5.329	5.240	5.329	5.419	5.509	5.599	5.615	5.631	5.647
90.0	1.505	1.248	0.990	1.248	1.505	1.763	2.020	2.052	2.083	2.115
92.5	0.618	0.506	0.395	0.506	0.618	0.729	0.841	0.863	0.885	0.907
95.0	0.372	0.361	0.349	0.361	0.372	0.384	0.395	0.418	0.440	0.463
97.5	0.327	0.327	0.326	0.327	0.327	0.328	0.329	0.328	0.328	0.327
100.0	0.317	0.317	0.318	0.317	0.317	0.316	0.315	0.312	0.309	0.306
102.5	0.315	0.315	0.316	0.315	0.315	0.315	0.315	0.311	0.308	0.305
105.0	0.316	0.316	0.316	0.316	0.316	0.315	0.315	0.312	0.309	0.306
107.5	0.318	0.318	0.318	0.318	0.318	0.317	0.317	0.315	0.313	0.310
110.0	0.324	0.324	0.324	0.324	0.324	0.323	0.323	0.321	0.319	0.317
112.5	0.335	0.336	0.337	0.336	0.335	0.335	0.334	0.333	0.332	0.330
115.0	0.353	0.354	0.354	0.354	0.353	0.353	0.352	0.351	0.349	0.348
117.5	0.377	0.377	0.377	0.377	0.377	0.376	0.376	0.375	0.374	0.372
120.0	0.406	0.406	0.406	0.406	0.406	0.405	0.405	0.403	0.400	0.398
122.5	0.431	0.432	0.433	0.432	0.431	0.430	0.429	0.427	0.424	0.422
125.0	0.457	0.456	0.456	0.456	0.457	0.457	0.457	0.454	0.451	0.448
127.5	0.479	0.479	0.480	0.479	0.479	0.479	0.479	0.476	0.474	0.472
130.0	0.503	0.504	0.505	0.504	0.503	0.502	0.501	0.499	0.496	0.494
132.5	0.524	0.524	0.525	0.524	0.524	0.524	0.524	0.521	0.519	0.516
135.0	0.545	0.545	0.546	0.545	0.545	0.544	0.543	0.541	0.539	0.537
137.5	0.564	0.564	0.565	0.564	0.564	0.563	0.563	0.560	0.558	0.556
140.0	0.581	0.581	0.582	0.581	0.581	0.580	0.579	0.578	0.576	0.575
142.5	0.596	0.596	0.596	0.596	0.596	0.596	0.597	0.595	0.593	0.591
145.0	0.613	0.613	0.613	0.613	0.613	0.612	0.612	0.610	0.608	0.606
147.5	0.625	0.625	0.625	0.625	0.625	0.626	0.626	0.625	0.623	0.622
150.0	0.638	0.638	0.637	0.638	0.638	0.639	0.639	0.638	0.636	0.635
152.5	0.652	0.652	0.652	0.652	0.652	0.652	0.652	0.650	0.649	0.648
155.0	0.662	0.662	0.661	0.662	0.662	0.663	0.663	0.662	0.661	0.659
157.5	0.672	0.672	0.672	0.672	0.672	0.672	0.672	0.671	0.670	0.668
160.0	0.659	0.659	0.659	0.659	0.659	0.659	0.659	0.659	0.658	0.658
162.5	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.645	0.645	0.645
165.0	0.651	0.651	0.650	0.651	0.651	0.652	0.652	0.651	0.650	0.649
167.5	0.655	0.655	0.655	0.655	0.655	0.655	0.656	0.655	0.655	0.654
170.0	0.661	0.661	0.661	0.661	0.661	0.661	0.661	0.660	0.659	0.658
172.5	0.661	0.660	0.659	0.660	0.661	0.662	0.663	0.662	0.661	0.660
175.0	0.662	0.660	0.659	0.660	0.662	0.663	0.664	0.664	0.663	0.663
177.5	0.678	0.676	0.675	0.676	0.678	0.679	0.681	0.679	0.678	0.676
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	200.0	202.5	205.0	207.5	210.0	212.5	215.0	217.5	220.0	222.5
0.0	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934
2.5	224.643	224.664	224.686	224.708	224.730	224.712	224.693	224.675	224.656	224.685
5.0	224.182	224.166	224.151	224.135	224.119	224.134	224.148	224.163	224.177	224.202
7.5	223.160	223.188	223.215	223.243	223.270	223.257	223.245	223.232	223.219	223.226
10.0	221.863	221.854	221.844	221.835	221.825	221.827	221.830	221.832	221.834	221.867
12.5	220.120	220.119	220.118	220.117	220.116	220.107	220.098	220.089	220.081	220.099
15.0	217.950	217.955	217.960	217.964	217.969	217.965	217.960	217.956	217.951	217.971
17.5	215.388	215.396	215.404	215.412	215.421	215.394	215.367	215.340	215.313	215.329
20.0	212.362	212.404	212.446	212.487	212.529	212.481	212.433	212.384	212.336	212.353
22.5	208.968	208.987	209.007	209.026	209.046	209.043	209.040	209.037	209.034	209.048
25.0	205.094	205.114	205.134	205.154	205.174	205.170	205.167	205.163	205.159	205.168
27.5	201.045	201.036	201.028	201.019	201.010	201.008	201.006	201.004	201.003	200.986
30.0	196.397	196.399	196.401	196.403	196.405	196.378	196.352	196.325	196.298	196.312
32.5	191.224	191.233	191.243	191.252	191.262	191.263	191.264	191.265	191.266	191.260
35.0	185.798	185.786	185.773	185.761	185.748	185.752	185.755	185.759	185.762	185.769
37.5	179.702	179.715	179.729	179.742	179.756	179.745	179.733	179.722	179.711	179.703
40.0	173.406	173.397	173.389	173.380	173.371	173.352	173.333	173.313	173.294	173.278
42.5	166.487	166.532	166.577	166.622	166.668	166.600	166.532	166.464	166.397	166.389
45.0	159.266	159.310	159.354	159.397	159.441	159.364	159.287	159.209	159.132	159.127
47.5	151.782	151.752	151.722	151.692	151.662	151.675	151.689	151.702	151.716	151.719
50.0	143.551	143.602	143.652	143.703	143.753	143.738	143.722	143.707	143.691	143.667
52.5	135.391	135.298	135.205	135.112	135.019	135.085	135.152	135.218	135.285	135.237
55.0	126.343	126.352	126.360	126.369	126.377	126.327	126.277	126.226	126.176	126.188
57.5	116.881	116.914	116.947	116.980	117.013	117.067	117.122	117.176	117.231	117.175
60.0	107.625	107.567	107.509	107.450	107.392	107.438	107.484	107.529	107.575	107.520
62.5	97.721	97.689	97.657	97.625	97.593	97.645	97.698	97.750	97.803	97.682
65.0	87.816	87.725	87.634	87.542	87.451	87.520	87.589	87.657	87.726	87.625
67.5	77.397	77.313	77.229	77.145	77.062	77.117	77.172	77.227	77.282	77.242
70.0	67.095	67.066	67.036	67.007	66.977	66.964	66.951	66.937	66.924	66.851
72.5	56.400	56.375	56.351	56.326	56.301	56.311	56.320	56.330	56.340	56.345
75.0	46.278	46.173	46.069	45.964	45.859	45.879	45.899	45.919	45.939	45.881
77.5	36.150	36.104	36.058	36.013	35.967	36.019	36.071	36.123	36.175	36.140
80.0	26.460	26.489	26.517	26.546	26.574	26.629	26.684	26.738	26.793	26.736
82.5	18.330	18.270	18.210	18.150	18.091	18.168	18.245	18.322	18.399	18.306
85.0	11.103	11.136	11.170	11.203	11.236	11.227	11.218	11.208	11.199	11.169
87.5	5.663	5.668	5.674	5.679	5.685	5.715	5.745	5.775	5.806	5.797
90.0	2.146	2.184	2.222	2.260	2.298	2.317	2.336	2.355	2.374	2.387
92.5	0.930	0.931	0.932	0.933	0.934	0.925	0.916	0.907	0.898	0.897
95.0	0.485	0.483	0.481	0.478	0.476	0.469	0.463	0.456	0.449	0.447
97.5	0.327	0.326	0.325	0.324	0.323	0.321	0.319	0.318	0.316	0.318
100.0	0.303	0.300	0.296	0.293	0.289	0.288	0.286	0.285	0.283	0.285
102.5	0.302	0.298	0.294	0.290	0.286	0.282	0.279	0.276	0.273	0.274
105.0	0.303	0.299	0.296	0.292	0.288	0.284	0.280	0.276	0.272	0.272
107.5	0.308	0.305	0.302	0.299	0.297	0.294	0.291	0.288	0.285	0.284
110.0	0.315	0.314	0.312	0.311	0.309	0.307	0.305	0.302	0.300	0.299
112.5	0.329	0.329	0.328	0.328	0.327	0.325	0.324	0.322	0.320	0.319
115.0	0.346	0.346	0.347	0.347	0.347	0.347	0.346	0.346	0.345	0.345
117.5	0.371	0.372	0.372	0.373	0.374	0.373	0.372	0.371	0.371	0.371
120.0	0.395	0.396	0.398	0.399	0.400	0.399	0.399	0.398	0.397	0.396
122.5	0.420	0.421	0.422	0.423	0.424	0.424	0.424	0.423	0.423	0.423
125.0	0.445	0.446	0.447	0.447	0.448	0.448	0.448	0.448	0.448	0.448
127.5	0.470	0.470	0.470	0.470	0.471	0.471	0.472	0.473	0.474	0.473
130.0	0.491	0.492	0.492	0.493	0.493	0.494	0.495	0.495	0.496	0.496

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CANDELA TABULATION - (Cont.)

132.5	0.514	0.514	0.514	0.513	0.513	0.514	0.515	0.515	0.516	0.516
135.0	0.535	0.534	0.533	0.532	0.531	0.533	0.535	0.536	0.538	0.538
137.5	0.554	0.553	0.553	0.552	0.552	0.553	0.554	0.555	0.556	0.556
140.0	0.573	0.572	0.571	0.569	0.568	0.569	0.571	0.572	0.573	0.574
142.5	0.589	0.588	0.586	0.585	0.584	0.585	0.587	0.588	0.590	0.591
145.0	0.604	0.603	0.603	0.602	0.601	0.602	0.603	0.604	0.605	0.606
147.5	0.620	0.619	0.617	0.616	0.614	0.615	0.616	0.617	0.618	0.619
150.0	0.633	0.632	0.631	0.629	0.628	0.629	0.630	0.630	0.631	0.633
152.5	0.647	0.645	0.644	0.642	0.640	0.641	0.641	0.642	0.642	0.645
155.0	0.658	0.657	0.656	0.655	0.654	0.654	0.654	0.653	0.653	0.656
157.5	0.667	0.665	0.664	0.662	0.660	0.660	0.661	0.661	0.661	0.663
160.0	0.657	0.655	0.653	0.650	0.648	0.649	0.651	0.652	0.653	0.654
162.5	0.645	0.644	0.642	0.641	0.640	0.640	0.641	0.641	0.642	0.643
165.0	0.648	0.647	0.646	0.645	0.644	0.645	0.645	0.646	0.646	0.648
167.5	0.654	0.653	0.653	0.652	0.652	0.652	0.652	0.652	0.652	0.654
170.0	0.657	0.657	0.656	0.656	0.655	0.655	0.655	0.655	0.655	0.657
172.5	0.660	0.659	0.658	0.658	0.657	0.657	0.657	0.657	0.657	0.659
175.0	0.662	0.661	0.660	0.658	0.657	0.658	0.660	0.661	0.662	0.664
177.5	0.675	0.674	0.672	0.671	0.670	0.670	0.671	0.672	0.673	0.675
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934
2.5	224.714	224.743	224.772	224.754	224.735	224.717	224.699	224.708	224.717	224.726
5.0	224.226	224.251	224.275	224.250	224.224	224.199	224.173	224.153	224.132	224.112
7.5	223.233	223.240	223.247	223.249	223.250	223.252	223.254	223.248	223.242	223.236
10.0	221.899	221.932	221.964	221.948	221.933	221.917	221.901	221.904	221.908	221.911
12.5	220.117	220.135	220.154	220.154	220.155	220.156	220.157	220.150	220.144	220.137
15.0	217.991	218.010	218.030	218.005	217.981	217.956	217.931	217.921	217.911	217.900
17.5	215.345	215.361	215.378	215.382	215.387	215.392	215.397	215.378	215.359	215.340
20.0	212.370	212.387	212.404	212.383	212.362	212.340	212.319	212.330	212.342	212.353
22.5	209.063	209.077	209.092	209.053	209.014	208.976	208.937	208.942	208.948	208.953
25.0	205.176	205.185	205.193	205.186	205.179	205.172	205.165	205.155	205.145	205.134
27.5	200.969	200.953	200.936	200.928	200.920	200.911	200.903	200.894	200.884	200.875
30.0	196.326	196.339	196.353	196.353	196.353	196.352	196.352	196.340	196.328	196.316
32.5	191.254	191.248	191.242	191.221	191.200	191.179	191.158	191.142	191.126	191.110
35.0	185.777	185.784	185.791	185.721	185.652	185.582	185.512	185.469	185.426	185.383
37.5	179.696	179.688	179.681	179.659	179.638	179.617	179.596	179.565	179.535	179.504
40.0	173.262	173.245	173.229	173.226	173.224	173.221	173.218	173.184	173.149	173.115
42.5	166.382	166.374	166.367	166.367	166.367	166.367	166.368	166.359	166.350	166.341
45.0	159.123	159.118	159.113	159.146	159.179	159.212	159.245	159.208	159.170	159.133
47.5	151.721	151.724	151.726	151.690	151.654	151.618	151.582	151.481	151.380	151.279
50.0	143.642	143.618	143.593	143.547	143.500	143.454	143.407	143.349	143.292	143.234
52.5	135.190	135.143	135.096	135.029	134.962	134.895	134.829	134.840	134.851	134.863
55.0	126.200	126.211	126.223	126.211	126.198	126.186	126.173	126.118	126.063	126.007
57.5	117.118	117.062	117.006	117.019	117.031	117.044	117.057	116.984	116.911	116.839
60.0	107.466	107.411	107.356	107.407	107.458	107.508	107.559	107.527	107.496	107.464
62.5	97.561	97.441	97.320	97.375	97.429	97.484	97.539	97.455	97.372	97.288
65.0	87.524	87.422	87.321	87.304	87.288	87.271	87.254	87.268	87.283	87.297
67.5	77.202	77.162	77.122	77.169	77.217	77.264	77.312	77.180	77.049	76.917
70.0	66.778	66.705	66.632	66.669	66.705	66.742	66.778	66.634	66.490	66.346
72.5	56.350	56.355	56.360	56.355	56.350	56.345	56.341	56.265	56.190	56.114
75.0	45.823	45.764	45.706	45.741	45.775	45.810	45.844	45.804	45.763	45.723
77.5	36.105	36.070	36.035	36.007	35.979	35.950	35.922	35.899	35.876	35.852

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CANDELA TABULATION - (Cont.)

80.0	26.679	26.621	26.564	26.610	26.656	26.702	26.748	26.634	26.520	26.406
82.5	18.213	18.120	18.028	18.076	18.125	18.173	18.222	18.151	18.081	18.010
85.0	11.140	11.110	11.080	11.108	11.136	11.164	11.192	11.123	11.055	10.986
87.5	5.788	5.779	5.770	5.770	5.770	5.770	5.770	5.722	5.675	5.627
90.0	2.399	2.412	2.424	2.419	2.414	2.408	2.403	2.402	2.400	2.399
92.5	0.896	0.895	0.895	0.873	0.852	0.831	0.810	0.796	0.782	0.768
95.0	0.444	0.442	0.439	0.429	0.419	0.408	0.398	0.386	0.374	0.362
97.5	0.320	0.322	0.324	0.318	0.313	0.307	0.302	0.294	0.287	0.279
100.0	0.288	0.290	0.292	0.290	0.287	0.285	0.282	0.276	0.270	0.264
102.5	0.275	0.276	0.277	0.276	0.276	0.276	0.276	0.272	0.269	0.265
105.0	0.271	0.271	0.270	0.270	0.270	0.269	0.269	0.268	0.267	0.266
107.5	0.283	0.281	0.280	0.279	0.278	0.277	0.276	0.276	0.277	0.277
110.0	0.298	0.296	0.295	0.295	0.295	0.294	0.294	0.294	0.295	0.295
112.5	0.319	0.318	0.318	0.317	0.317	0.317	0.317	0.317	0.317	0.317
115.0	0.345	0.344	0.344	0.344	0.344	0.343	0.343	0.343	0.342	0.342
117.5	0.371	0.371	0.371	0.370	0.369	0.368	0.367	0.367	0.367	0.366
120.0	0.396	0.395	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.393
122.5	0.423	0.423	0.423	0.422	0.421	0.420	0.419	0.419	0.419	0.419
125.0	0.448	0.447	0.447	0.447	0.446	0.446	0.445	0.445	0.444	0.444
127.5	0.473	0.472	0.471	0.471	0.470	0.470	0.470	0.469	0.469	0.468
130.0	0.496	0.495	0.495	0.495	0.494	0.494	0.493	0.492	0.492	0.491
132.5	0.517	0.517	0.517	0.516	0.516	0.515	0.514	0.514	0.513	0.513
135.0	0.538	0.537	0.537	0.537	0.537	0.536	0.536	0.536	0.536	0.535
137.5	0.557	0.557	0.558	0.557	0.556	0.555	0.555	0.554	0.554	0.553
140.0	0.576	0.577	0.578	0.577	0.576	0.575	0.574	0.573	0.573	0.572
142.5	0.592	0.593	0.595	0.594	0.593	0.592	0.592	0.591	0.591	0.590
145.0	0.608	0.609	0.610	0.609	0.609	0.608	0.607	0.607	0.608	0.608
147.5	0.621	0.623	0.625	0.624	0.623	0.622	0.622	0.622	0.622	0.622
150.0	0.635	0.637	0.639	0.638	0.638	0.637	0.636	0.636	0.636	0.635
152.5	0.647	0.650	0.653	0.652	0.651	0.650	0.650	0.650	0.650	0.650
155.0	0.659	0.662	0.665	0.665	0.664	0.664	0.663	0.663	0.663	0.662
157.5	0.665	0.667	0.670	0.669	0.668	0.667	0.666	0.665	0.664	0.663
160.0	0.655	0.656	0.657	0.657	0.657	0.656	0.656	0.655	0.653	0.652
162.5	0.645	0.647	0.649	0.648	0.648	0.647	0.647	0.647	0.647	0.647
165.0	0.650	0.651	0.653	0.653	0.653	0.653	0.653	0.653	0.654	0.654
167.5	0.657	0.659	0.662	0.661	0.661	0.660	0.660	0.660	0.660	0.660
170.0	0.660	0.662	0.664	0.664	0.664	0.663	0.663	0.664	0.664	0.665
172.5	0.661	0.664	0.666	0.666	0.666	0.666	0.666	0.666	0.666	0.666
175.0	0.665	0.667	0.668	0.668	0.669	0.669	0.669	0.669	0.668	0.668
177.5	0.677	0.680	0.682	0.682	0.681	0.681	0.681	0.681	0.681	0.681
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	<u>250.0</u>	<u>252.5</u>	<u>255.0</u>	<u>257.5</u>	<u>260.0</u>	<u>262.5</u>	<u>265.0</u>	<u>267.5</u>	<u>270.0</u>	<u>272.5</u>
0.0	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934
2.5	224.736	224.747	224.759	224.770	224.782	224.753	224.725	224.696	224.668	224.696
5.0	224.091	224.138	224.185	224.231	224.278	224.199	224.119	224.040	223.960	224.040
7.5	223.231	223.243	223.255	223.267	223.279	223.211	223.143	223.075	223.007	223.075
10.0	221.914	221.918	221.922	221.925	221.929	221.870	221.810	221.751	221.691	221.751
12.5	220.131	220.139	220.147	220.156	220.164	220.083	220.003	219.922	219.842	219.922
15.0	217.890	217.908	217.926	217.944	217.962	217.856	217.750	217.644	217.538	217.644
17.5	215.322	215.331	215.340	215.349	215.359	215.231	215.104	214.976	214.849	214.976
20.0	212.364	212.375	212.385	212.396	212.406	212.246	212.087	211.927	211.767	211.927
22.5	208.958	208.950	208.943	208.935	208.928	208.762	208.596	208.430	208.265	208.430
25.0	205.124	205.125	205.127	205.128	205.129	204.923	204.716	204.510	204.303	204.510

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CANDELA TABULATION - (Cont.)

27.5	200.865	200.867	200.869	200.871	200.873	200.683	200.493	200.303	200.114	200.303
30.0	196.304	196.271	196.238	196.205	196.172	195.919	195.665	195.412	195.158	195.412
32.5	191.094	191.099	191.104	191.109	191.114	190.844	190.574	190.304	190.034	190.304
35.0	185.340	185.375	185.409	185.444	185.478	185.165	184.852	184.538	184.225	184.538
37.5	179.474	179.497	179.520	179.542	179.565	179.237	178.909	178.580	178.252	178.580
40.0	173.080	173.079	173.077	173.076	173.074	172.802	172.529	172.257	171.984	172.257
42.5	166.333	166.317	166.302	166.286	166.271	165.940	165.610	165.279	164.949	165.279
45.0	159.095	159.055	159.016	158.976	158.936	158.612	158.289	157.965	157.641	157.965
47.5	151.178	151.237	151.296	151.356	151.415	151.044	150.674	150.303	149.933	150.303
50.0	143.176	143.214	143.253	143.291	143.329	142.930	142.531	142.132	141.733	142.132
52.5	134.874	134.886	134.897	134.909	134.920	134.469	134.018	133.567	133.116	133.567
55.0	125.952	125.956	125.961	125.965	125.969	125.497	125.026	124.554	124.082	124.554
57.5	116.766	116.769	116.773	116.776	116.779	116.267	115.755	115.243	114.730	115.243
60.0	107.432	107.348	107.264	107.180	107.096	106.613	106.129	105.646	105.162	105.646
62.5	97.205	97.232	97.259	97.286	97.314	96.806	96.298	95.790	95.283	95.790
65.0	87.311	87.177	87.044	86.910	86.776	86.371	85.966	85.561	85.156	85.561
67.5	76.786	76.869	76.952	77.035	77.118	76.579	76.040	75.501	74.962	75.501
70.0	66.202	66.252	66.301	66.351	66.400	65.912	65.423	64.935	64.446	64.935
72.5	56.039	56.093	56.148	56.202	56.257	55.707	55.157	54.607	54.057	54.607
75.0	45.682	45.751	45.821	45.890	45.959	45.436	44.913	44.389	43.866	44.389
77.5	35.829	35.869	35.908	35.948	35.988	35.519	35.050	34.581	34.113	34.581
80.0	26.292	26.374	26.455	26.537	26.618	26.163	25.708	25.252	24.797	25.252
82.5	17.940	17.995	18.050	18.105	18.161	17.764	17.367	16.971	16.574	16.971
85.0	10.917	10.889	10.861	10.832	10.804	10.622	10.441	10.259	10.077	10.259
87.5	5.580	5.581	5.582	5.583	5.584	5.381	5.177	4.974	4.770	4.974
90.0	2.397	2.344	2.290	2.237	2.183	2.102	2.021	1.939	1.858	1.939
92.5	0.754	0.738	0.722	0.706	0.690	0.655	0.620	0.585	0.551	0.585
95.0	0.350	0.339	0.328	0.317	0.306	0.297	0.289	0.280	0.271	0.280
97.5	0.272	0.265	0.258	0.251	0.244	0.237	0.231	0.225	0.219	0.225
100.0	0.258	0.252	0.245	0.239	0.232	0.229	0.227	0.224	0.221	0.224
102.5	0.262	0.258	0.254	0.250	0.246	0.243	0.241	0.239	0.237	0.239
105.0	0.265	0.264	0.263	0.261	0.260	0.258	0.256	0.253	0.251	0.253
107.5	0.278	0.277	0.277	0.276	0.276	0.274	0.273	0.271	0.269	0.271
110.0	0.295	0.295	0.295	0.295	0.295	0.293	0.291	0.289	0.287	0.289
112.5	0.317	0.316	0.315	0.314	0.314	0.313	0.313	0.313	0.313	0.313
115.0	0.341	0.341	0.340	0.340	0.339	0.338	0.337	0.336	0.335	0.336
117.5	0.366	0.366	0.366	0.365	0.365	0.365	0.364	0.364	0.363	0.364
120.0	0.393	0.393	0.393	0.392	0.392	0.391	0.390	0.389	0.388	0.389
122.5	0.419	0.418	0.417	0.416	0.415	0.415	0.415	0.415	0.416	0.415
125.0	0.443	0.443	0.443	0.442	0.442	0.442	0.442	0.441	0.441	0.441
127.5	0.468	0.468	0.467	0.467	0.466	0.466	0.465	0.465	0.464	0.465
130.0	0.490	0.490	0.489	0.489	0.488	0.489	0.489	0.490	0.490	0.490
132.5	0.512	0.512	0.512	0.512	0.512	0.511	0.511	0.510	0.510	0.510
135.0	0.535	0.534	0.534	0.533	0.532	0.532	0.531	0.531	0.530	0.531
137.5	0.553	0.553	0.552	0.552	0.551	0.551	0.552	0.552	0.552	0.552
140.0	0.571	0.571	0.570	0.570	0.569	0.569	0.569	0.569	0.569	0.569
142.5	0.590	0.590	0.589	0.589	0.589	0.588	0.588	0.587	0.587	0.587
145.0	0.608	0.607	0.606	0.605	0.604	0.604	0.604	0.603	0.603	0.603
147.5	0.622	0.621	0.621	0.620	0.620	0.620	0.619	0.619	0.619	0.619
150.0	0.635	0.635	0.635	0.635	0.635	0.635	0.635	0.634	0.634	0.634
152.5	0.650	0.650	0.649	0.649	0.649	0.648	0.648	0.647	0.647	0.647
155.0	0.662	0.662	0.661	0.661	0.660	0.658	0.657	0.655	0.653	0.655
157.5	0.663	0.662	0.662	0.662	0.662	0.658	0.654	0.650	0.646	0.650
160.0	0.650	0.651	0.651	0.652	0.652	0.644	0.636	0.627	0.619	0.627
162.5	0.648	0.647	0.647	0.647	0.647	0.635	0.624	0.612	0.600	0.612
165.0	0.654	0.654	0.654	0.653	0.653	0.640	0.628	0.615	0.602	0.615

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CANDELA TABULATION - (Cont.)

167.5	0.660	0.660	0.660	0.660	0.661	0.648	0.635	0.622	0.610	0.622
170.0	0.665	0.665	0.664	0.664	0.663	0.651	0.638	0.626	0.613	0.626
172.5	0.666	0.666	0.666	0.665	0.665	0.652	0.640	0.627	0.614	0.627
175.0	0.667	0.668	0.669	0.669	0.670	0.658	0.645	0.633	0.620	0.633
177.5	0.682	0.681	0.680	0.680	0.679	0.673	0.667	0.661	0.655	0.661
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934
2.5	224.725	224.753	224.782	224.770	224.759	224.747	224.736	224.726	224.717	224.708
5.0	224.119	224.199	224.278	224.231	224.185	224.138	224.091	224.112	224.132	224.153
7.5	223.143	223.211	223.279	223.267	223.255	223.243	223.231	223.236	223.242	223.248
10.0	221.810	221.870	221.929	221.925	221.922	221.918	221.914	221.911	221.908	221.904
12.5	220.003	220.083	220.164	220.156	220.147	220.139	220.131	220.137	220.144	220.150
15.0	217.750	217.856	217.962	217.944	217.926	217.908	217.890	217.900	217.911	217.921
17.5	215.104	215.231	215.359	215.349	215.340	215.331	215.322	215.340	215.359	215.378
20.0	212.087	212.246	212.406	212.396	212.385	212.375	212.364	212.353	212.342	212.330
22.5	208.596	208.762	208.928	208.935	208.943	208.950	208.958	208.953	208.948	208.942
25.0	204.716	204.923	205.129	205.128	205.127	205.125	205.124	205.134	205.145	205.155
27.5	200.493	200.683	200.873	200.871	200.869	200.867	200.865	200.875	200.884	200.894
30.0	195.665	195.919	196.172	196.205	196.238	196.271	196.304	196.316	196.328	196.340
32.5	190.574	190.844	191.114	191.109	191.104	191.099	191.094	191.110	191.126	191.142
35.0	184.852	185.165	185.478	185.444	185.409	185.375	185.340	185.383	185.426	185.469
37.5	178.909	179.237	179.565	179.542	179.520	179.497	179.474	179.504	179.535	179.565
40.0	172.529	172.802	173.074	173.076	173.077	173.079	173.080	173.115	173.149	173.184
42.5	165.610	165.940	166.271	166.286	166.302	166.317	166.333	166.341	166.350	166.359
45.0	158.289	158.612	158.936	158.976	159.016	159.055	159.095	159.133	159.170	159.208
47.5	150.674	151.044	151.415	151.356	151.296	151.237	151.178	151.279	151.380	151.481
50.0	142.531	142.930	143.329	143.291	143.253	143.214	143.176	143.234	143.292	143.349
52.5	134.018	134.469	134.920	134.909	134.897	134.886	134.874	134.863	134.851	134.840
55.0	125.026	125.497	125.969	125.965	125.961	125.956	125.952	126.007	126.063	126.118
57.5	115.755	116.267	116.779	116.776	116.773	116.769	116.766	116.839	116.911	116.984
60.0	106.129	106.613	107.096	107.180	107.264	107.348	107.432	107.464	107.496	107.527
62.5	96.298	96.806	97.314	97.286	97.259	97.232	97.205	97.288	97.372	97.455
65.0	85.966	86.371	86.776	86.910	87.044	87.177	87.311	87.297	87.283	87.268
67.5	76.040	76.579	77.118	77.035	76.952	76.869	76.786	76.917	77.049	77.180
70.0	65.423	65.912	66.400	66.351	66.301	66.252	66.202	66.346	66.490	66.634
72.5	55.157	55.707	56.257	56.202	56.148	56.093	56.039	56.114	56.190	56.265
75.0	44.913	45.436	45.959	45.890	45.821	45.751	45.682	45.723	45.763	45.804
77.5	35.050	35.519	35.988	35.948	35.908	35.869	35.829	35.852	35.876	35.899
80.0	25.708	26.163	26.618	26.537	26.455	26.374	26.292	26.406	26.520	26.634
82.5	17.367	17.764	18.161	18.105	18.050	17.995	17.940	18.010	18.081	18.151
85.0	10.441	10.622	10.804	10.832	10.861	10.889	10.917	10.986	11.055	11.123
87.5	5.177	5.381	5.584	5.583	5.582	5.581	5.580	5.627	5.675	5.722
90.0	2.021	2.102	2.183	2.237	2.290	2.344	2.397	2.399	2.400	2.402
92.5	0.620	0.655	0.690	0.706	0.722	0.738	0.754	0.768	0.782	0.796
95.0	0.289	0.297	0.306	0.317	0.328	0.339	0.350	0.362	0.374	0.386
97.5	0.231	0.237	0.244	0.251	0.258	0.265	0.272	0.279	0.287	0.294
100.0	0.227	0.229	0.232	0.239	0.245	0.252	0.258	0.264	0.270	0.276
102.5	0.241	0.243	0.246	0.250	0.254	0.258	0.262	0.265	0.269	0.272
105.0	0.256	0.258	0.260	0.261	0.263	0.264	0.265	0.266	0.267	0.268
107.5	0.273	0.274	0.276	0.276	0.277	0.277	0.278	0.277	0.277	0.276
110.0	0.291	0.293	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.294
112.5	0.313	0.313	0.314	0.314	0.315	0.316	0.317	0.317	0.317	0.317

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CANDELA TABULATION - (Cont.)

115.0	0.337	0.338	0.339	0.340	0.340	0.341	0.341	0.342	0.342	0.343
117.5	0.364	0.365	0.365	0.365	0.366	0.366	0.366	0.366	0.367	0.367
120.0	0.390	0.391	0.392	0.392	0.393	0.393	0.393	0.393	0.394	0.394
122.5	0.415	0.415	0.415	0.416	0.417	0.418	0.419	0.419	0.419	0.419
125.0	0.442	0.442	0.442	0.442	0.443	0.443	0.443	0.444	0.444	0.445
127.5	0.465	0.466	0.466	0.467	0.467	0.468	0.468	0.468	0.469	0.469
130.0	0.489	0.489	0.488	0.489	0.489	0.490	0.490	0.491	0.492	0.492
132.5	0.511	0.511	0.512	0.512	0.512	0.512	0.512	0.513	0.513	0.514
135.0	0.531	0.532	0.532	0.533	0.534	0.534	0.535	0.535	0.536	0.536
137.5	0.552	0.551	0.551	0.552	0.552	0.553	0.553	0.553	0.554	0.554
140.0	0.569	0.569	0.569	0.570	0.570	0.571	0.571	0.572	0.573	0.573
142.5	0.588	0.588	0.589	0.589	0.589	0.590	0.590	0.590	0.591	0.591
145.0	0.604	0.604	0.604	0.605	0.606	0.607	0.608	0.608	0.608	0.607
147.5	0.619	0.620	0.620	0.620	0.621	0.621	0.622	0.622	0.622	0.622
150.0	0.635	0.635	0.635	0.635	0.635	0.635	0.635	0.635	0.636	0.636
152.5	0.648	0.648	0.649	0.649	0.649	0.650	0.650	0.650	0.650	0.650
155.0	0.657	0.658	0.660	0.661	0.661	0.662	0.662	0.662	0.663	0.663
157.5	0.654	0.658	0.662	0.662	0.662	0.662	0.663	0.663	0.664	0.665
160.0	0.636	0.644	0.652	0.652	0.651	0.651	0.650	0.652	0.653	0.655
162.5	0.624	0.635	0.647	0.647	0.647	0.647	0.648	0.647	0.647	0.647
165.0	0.628	0.640	0.653	0.653	0.654	0.654	0.654	0.654	0.654	0.653
167.5	0.635	0.648	0.661	0.660	0.660	0.660	0.660	0.660	0.660	0.660
170.0	0.638	0.651	0.663	0.664	0.664	0.665	0.665	0.665	0.664	0.664
172.5	0.640	0.652	0.665	0.665	0.666	0.666	0.666	0.666	0.666	0.666
175.0	0.645	0.658	0.670	0.669	0.669	0.668	0.667	0.668	0.668	0.669
177.5	0.667	0.673	0.679	0.680	0.680	0.681	0.682	0.681	0.681	0.681
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934
2.5	224.699	224.717	224.735	224.754	224.772	224.743	224.714	224.685	224.656	224.675
5.0	224.173	224.199	224.224	224.250	224.275	224.251	224.226	224.202	224.177	224.163
7.5	223.254	223.252	223.250	223.249	223.247	223.240	223.233	223.226	223.219	223.232
10.0	221.901	221.917	221.933	221.948	221.964	221.932	221.899	221.867	221.834	221.832
12.5	220.157	220.156	220.155	220.154	220.154	220.135	220.117	220.099	220.081	220.089
15.0	217.931	217.956	217.981	218.005	218.030	218.010	217.991	217.971	217.951	217.956
17.5	215.397	215.392	215.387	215.382	215.378	215.361	215.345	215.329	215.313	215.340
20.0	212.319	212.340	212.362	212.383	212.404	212.387	212.370	212.353	212.336	212.384
22.5	208.937	208.976	209.014	209.053	209.092	209.077	209.063	209.048	209.034	209.037
25.0	205.165	205.172	205.179	205.186	205.193	205.185	205.176	205.168	205.159	205.163
27.5	200.903	200.911	200.920	200.928	200.936	200.953	200.969	200.986	201.003	201.004
30.0	196.352	196.352	196.353	196.353	196.353	196.339	196.326	196.312	196.298	196.325
32.5	191.158	191.179	191.200	191.221	191.242	191.248	191.254	191.260	191.266	191.265
35.0	185.512	185.582	185.652	185.721	185.791	185.784	185.777	185.769	185.762	185.759
37.5	179.596	179.617	179.638	179.659	179.681	179.688	179.696	179.703	179.711	179.722
40.0	173.218	173.221	173.224	173.226	173.229	173.245	173.262	173.278	173.294	173.313
42.5	166.368	166.367	166.367	166.367	166.367	166.374	166.382	166.389	166.397	166.464
45.0	159.245	159.212	159.179	159.146	159.113	159.118	159.123	159.127	159.132	159.209
47.5	151.582	151.618	151.654	151.690	151.726	151.724	151.721	151.719	151.716	151.702
50.0	143.407	143.454	143.500	143.547	143.593	143.618	143.642	143.667	143.691	143.707
52.5	134.829	134.895	134.962	135.029	135.096	135.143	135.190	135.237	135.285	135.218
55.0	126.173	126.186	126.198	126.211	126.223	126.211	126.200	126.188	126.176	126.226
57.5	117.057	117.044	117.031	117.019	117.006	117.062	117.118	117.175	117.231	117.176
60.0	107.559	107.508	107.458	107.407	107.356	107.411	107.466	107.520	107.575	107.529

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CANDELA TABULATION - (Cont.)

62.5	97.539	97.484	97.429	97.375	97.320	97.441	97.561	97.682	97.803	97.750
65.0	87.254	87.271	87.288	87.304	87.321	87.422	87.524	87.625	87.726	87.657
67.5	77.312	77.264	77.217	77.169	77.122	77.162	77.202	77.242	77.282	77.227
70.0	66.778	66.742	66.705	66.669	66.632	66.705	66.778	66.851	66.924	66.937
72.5	56.341	56.345	56.350	56.355	56.360	56.355	56.350	56.345	56.340	56.330
75.0	45.844	45.810	45.775	45.741	45.706	45.764	45.823	45.881	45.939	45.919
77.5	35.922	35.950	35.979	36.007	36.035	36.070	36.105	36.140	36.175	36.123
80.0	26.748	26.702	26.656	26.610	26.564	26.621	26.679	26.736	26.793	26.738
82.5	18.222	18.173	18.125	18.076	18.028	18.120	18.213	18.306	18.399	18.322
85.0	11.192	11.164	11.136	11.108	11.080	11.110	11.140	11.169	11.199	11.208
87.5	5.770	5.770	5.770	5.770	5.770	5.779	5.788	5.797	5.806	5.775
90.0	2.403	2.408	2.414	2.419	2.424	2.412	2.399	2.387	2.374	2.355
92.5	0.810	0.831	0.852	0.873	0.895	0.895	0.896	0.897	0.898	0.907
95.0	0.398	0.408	0.419	0.429	0.439	0.442	0.444	0.447	0.449	0.456
97.5	0.302	0.307	0.313	0.318	0.324	0.322	0.320	0.318	0.316	0.318
100.0	0.282	0.285	0.287	0.290	0.292	0.290	0.288	0.285	0.283	0.285
102.5	0.276	0.276	0.276	0.276	0.277	0.276	0.275	0.274	0.273	0.276
105.0	0.269	0.269	0.270	0.270	0.270	0.271	0.271	0.272	0.272	0.276
107.5	0.276	0.277	0.278	0.279	0.280	0.281	0.283	0.284	0.285	0.288
110.0	0.294	0.294	0.295	0.295	0.295	0.296	0.298	0.299	0.300	0.302
112.5	0.317	0.317	0.317	0.317	0.318	0.318	0.319	0.319	0.320	0.322
115.0	0.343	0.343	0.344	0.344	0.344	0.344	0.345	0.345	0.345	0.346
117.5	0.367	0.368	0.369	0.370	0.371	0.371	0.371	0.371	0.371	0.371
120.0	0.394	0.394	0.394	0.394	0.394	0.395	0.396	0.396	0.397	0.398
122.5	0.419	0.420	0.421	0.422	0.423	0.423	0.423	0.423	0.423	0.423
125.0	0.445	0.446	0.446	0.447	0.447	0.447	0.448	0.448	0.448	0.448
127.5	0.470	0.470	0.470	0.471	0.471	0.472	0.473	0.473	0.474	0.473
130.0	0.493	0.494	0.494	0.495	0.495	0.495	0.496	0.496	0.496	0.495
132.5	0.514	0.515	0.516	0.516	0.517	0.517	0.517	0.516	0.516	0.515
135.0	0.536	0.536	0.537	0.537	0.537	0.537	0.538	0.538	0.538	0.536
137.5	0.555	0.555	0.556	0.557	0.558	0.557	0.557	0.556	0.556	0.555
140.0	0.574	0.575	0.576	0.577	0.578	0.577	0.576	0.574	0.573	0.572
142.5	0.592	0.592	0.593	0.594	0.595	0.593	0.592	0.591	0.590	0.588
145.0	0.607	0.608	0.609	0.609	0.610	0.609	0.608	0.606	0.605	0.604
147.5	0.622	0.622	0.623	0.624	0.625	0.623	0.621	0.619	0.618	0.617
150.0	0.636	0.637	0.638	0.638	0.639	0.637	0.635	0.633	0.631	0.630
152.5	0.650	0.650	0.651	0.652	0.653	0.650	0.647	0.645	0.642	0.642
155.0	0.663	0.664	0.664	0.665	0.665	0.662	0.659	0.656	0.653	0.653
157.5	0.666	0.667	0.668	0.669	0.670	0.667	0.665	0.663	0.661	0.661
160.0	0.656	0.656	0.657	0.657	0.657	0.656	0.655	0.654	0.653	0.652
162.5	0.647	0.647	0.648	0.648	0.649	0.647	0.645	0.643	0.642	0.641
165.0	0.653	0.653	0.653	0.653	0.653	0.651	0.650	0.648	0.646	0.646
167.5	0.660	0.660	0.661	0.661	0.662	0.659	0.657	0.654	0.652	0.652
170.0	0.663	0.663	0.664	0.664	0.664	0.662	0.660	0.657	0.655	0.655
172.5	0.666	0.666	0.666	0.666	0.666	0.664	0.661	0.659	0.657	0.657
175.0	0.669	0.669	0.669	0.668	0.668	0.667	0.665	0.664	0.662	0.661
177.5	0.681	0.681	0.681	0.682	0.682	0.680	0.677	0.675	0.673	0.672
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934	224.934
2.5	224.693	224.712	224.730	224.708	224.686	224.664	224.643	224.667	224.691	224.716
5.0	224.148	224.134	224.119	224.135	224.151	224.166	224.182	224.183	224.184	224.185
7.5	223.245	223.257	223.270	223.243	223.215	223.188	223.160	223.171	223.182	223.192

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CANDELA TABULATION - (Cont.)

10.0	221.830	221.827	221.825	221.835	221.844	221.854	221.863	221.873	221.883	221.893
12.5	220.098	220.107	220.116	220.117	220.118	220.119	220.120	220.115	220.111	220.106
15.0	217.960	217.965	217.969	217.964	217.960	217.955	217.950	217.956	217.961	217.967
17.5	215.367	215.394	215.421	215.412	215.404	215.396	215.388	215.397	215.406	215.414
20.0	212.433	212.481	212.529	212.487	212.446	212.404	212.362	212.399	212.435	212.472
22.5	209.040	209.043	209.046	209.026	209.007	208.987	208.968	208.977	208.986	208.995
25.0	205.167	205.170	205.174	205.154	205.134	205.114	205.094	205.156	205.219	205.281
27.5	201.006	201.008	201.010	201.019	201.028	201.036	201.045	201.060	201.074	201.089
30.0	196.352	196.378	196.405	196.403	196.401	196.399	196.397	196.398	196.400	196.401
32.5	191.264	191.263	191.262	191.252	191.243	191.233	191.224	191.230	191.237	191.244
35.0	185.755	185.752	185.748	185.761	185.773	185.786	185.798	185.820	185.843	185.865
37.5	179.733	179.745	179.756	179.742	179.729	179.715	179.702	179.713	179.724	179.735
40.0	173.333	173.352	173.371	173.380	173.389	173.397	173.406	173.406	173.406	173.406
42.5	166.532	166.600	166.668	166.622	166.577	166.532	166.487	166.535	166.584	166.633
45.0	159.287	159.364	159.441	159.397	159.354	159.310	159.266	159.297	159.329	159.360
47.5	151.689	151.675	151.662	151.692	151.722	151.752	151.782	151.739	151.697	151.654
50.0	143.722	143.738	143.753	143.703	143.652	143.602	143.551	143.580	143.610	143.639
52.5	135.152	135.085	135.019	135.112	135.205	135.298	135.391	135.352	135.314	135.275
55.0	126.277	126.327	126.377	126.369	126.360	126.352	126.343	126.306	126.269	126.232
57.5	117.122	117.067	117.013	116.980	116.947	116.914	116.881	116.900	116.919	116.938
60.0	107.484	107.438	107.392	107.450	107.509	107.567	107.625	107.598	107.571	107.543
62.5	97.698	97.645	97.593	97.625	97.657	97.689	97.721	97.677	97.634	97.591
65.0	87.589	87.520	87.451	87.542	87.634	87.725	87.816	87.736	87.656	87.575
67.5	77.172	77.117	77.062	77.145	77.229	77.313	77.397	77.310	77.222	77.135
70.0	66.951	66.964	66.977	67.007	67.036	67.066	67.095	67.040	66.985	66.929
72.5	56.320	56.311	56.301	56.326	56.351	56.375	56.400	56.362	56.323	56.285
75.0	45.899	45.879	45.859	45.964	46.069	46.173	46.278	46.206	46.134	46.061
77.5	36.071	36.019	35.967	36.013	36.058	36.104	36.150	36.075	36.001	35.927
80.0	26.684	26.629	26.574	26.546	26.517	26.489	26.460	26.518	26.576	26.634
82.5	18.245	18.168	18.091	18.150	18.210	18.270	18.330	18.257	18.185	18.112
85.0	11.218	11.227	11.236	11.203	11.170	11.136	11.103	11.060	11.017	10.973
87.5	5.745	5.715	5.685	5.679	5.674	5.668	5.663	5.647	5.631	5.615
90.0	2.336	2.317	2.298	2.260	2.222	2.184	2.146	2.115	2.083	2.052
92.5	0.916	0.925	0.934	0.933	0.932	0.931	0.930	0.907	0.885	0.863
95.0	0.463	0.469	0.476	0.478	0.481	0.483	0.485	0.463	0.440	0.418
97.5	0.319	0.321	0.323	0.324	0.325	0.326	0.327	0.327	0.328	0.328
100.0	0.286	0.288	0.289	0.293	0.296	0.300	0.303	0.306	0.309	0.312
102.5	0.279	0.282	0.286	0.290	0.294	0.298	0.302	0.305	0.308	0.311
105.0	0.280	0.284	0.288	0.292	0.296	0.299	0.303	0.306	0.309	0.312
107.5	0.291	0.294	0.297	0.299	0.302	0.305	0.308	0.310	0.313	0.315
110.0	0.305	0.307	0.309	0.311	0.312	0.314	0.315	0.317	0.319	0.321
112.5	0.324	0.325	0.327	0.328	0.328	0.329	0.329	0.330	0.332	0.333
115.0	0.346	0.347	0.347	0.347	0.347	0.346	0.346	0.348	0.349	0.351
117.5	0.372	0.373	0.374	0.373	0.372	0.372	0.371	0.372	0.374	0.375
120.0	0.399	0.399	0.400	0.399	0.398	0.396	0.395	0.398	0.400	0.403
122.5	0.424	0.424	0.424	0.423	0.422	0.421	0.420	0.422	0.424	0.427
125.0	0.448	0.448	0.448	0.447	0.447	0.446	0.445	0.448	0.451	0.454
127.5	0.472	0.471	0.471	0.470	0.470	0.470	0.470	0.472	0.474	0.476
130.0	0.495	0.494	0.493	0.493	0.492	0.492	0.491	0.494	0.496	0.499
132.5	0.515	0.514	0.513	0.513	0.514	0.514	0.514	0.516	0.519	0.521
135.0	0.535	0.533	0.531	0.532	0.533	0.534	0.535	0.537	0.539	0.541
137.5	0.554	0.553	0.552	0.552	0.553	0.553	0.554	0.556	0.558	0.560
140.0	0.571	0.569	0.568	0.569	0.571	0.572	0.573	0.575	0.576	0.578
142.5	0.587	0.585	0.584	0.585	0.586	0.588	0.589	0.591	0.593	0.595
145.0	0.603	0.602	0.601	0.602	0.603	0.603	0.604	0.606	0.608	0.610
147.5	0.616	0.615	0.614	0.616	0.617	0.619	0.620	0.622	0.623	0.625

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CANDELA TABULATION - (Cont.)

150.0	0.630	0.629	0.628	0.629	0.631	0.632	0.633	0.635	0.636	0.638
152.5	0.641	0.641	0.640	0.642	0.644	0.645	0.647	0.648	0.649	0.650
155.0	0.654	0.654	0.654	0.655	0.656	0.657	0.658	0.659	0.661	0.662
157.5	0.661	0.660	0.660	0.662	0.664	0.665	0.667	0.668	0.670	0.671
160.0	0.651	0.649	0.648	0.650	0.653	0.655	0.657	0.658	0.658	0.659
162.5	0.641	0.640	0.640	0.641	0.642	0.644	0.645	0.645	0.645	0.645
165.0	0.645	0.645	0.644	0.645	0.646	0.647	0.648	0.649	0.650	0.651
167.5	0.652	0.652	0.652	0.652	0.653	0.653	0.654	0.654	0.655	0.655
170.0	0.655	0.655	0.655	0.656	0.656	0.657	0.657	0.658	0.659	0.660
172.5	0.657	0.657	0.657	0.658	0.658	0.659	0.660	0.660	0.661	0.662
175.0	0.660	0.658	0.657	0.658	0.660	0.661	0.662	0.663	0.663	0.664
177.5	0.671	0.670	0.670	0.671	0.672	0.674	0.675	0.676	0.678	0.679
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	<u>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	224.934	224.934	224.934	224.934	224.934
2.5	224.740	224.749	224.759	224.768	224.777
5.0	224.186	224.201	224.216	224.231	224.246
7.5	223.203	223.225	223.247	223.269	223.291
10.0	221.903	221.924	221.944	221.965	221.985
12.5	220.102	220.141	220.179	220.218	220.256
15.0	217.972	217.996	218.020	218.044	218.068
17.5	215.423	215.452	215.480	215.509	215.537
20.0	212.508	212.522	212.536	212.549	212.563
22.5	209.005	209.034	209.063	209.093	209.122
25.0	205.343	205.352	205.361	205.369	205.378
27.5	201.103	201.089	201.074	201.060	201.045
30.0	196.402	196.433	196.464	196.494	196.525
32.5	191.251	191.243	191.234	191.226	191.217
35.0	185.887	185.820	185.753	185.686	185.619
37.5	179.746	179.792	179.838	179.883	179.929
40.0	173.406	173.420	173.433	173.447	173.460
42.5	166.682	166.656	166.630	166.604	166.579
45.0	159.391	159.381	159.372	159.362	159.352
47.5	151.612	151.647	151.683	151.719	151.755
50.0	143.668	143.622	143.576	143.530	143.484
52.5	135.237	135.269	135.301	135.332	135.364
55.0	126.195	126.244	126.294	126.343	126.392
57.5	116.956	117.006	117.056	117.105	117.155
60.0	107.516	107.584	107.653	107.721	107.789
62.5	97.548	97.675	97.801	97.928	98.055
65.0	87.495	87.564	87.634	87.703	87.772
67.5	77.047	77.130	77.212	77.295	77.378
70.0	66.874	66.945	67.017	67.088	67.159
72.5	56.247	56.318	56.390	56.462	56.534
75.0	45.989	46.067	46.145	46.223	46.301
77.5	35.853	35.973	36.093	36.213	36.333
80.0	26.692	26.757	26.822	26.886	26.951
82.5	18.040	18.089	18.139	18.188	18.238
85.0	10.930	10.966	11.003	11.039	11.075
87.5	5.599	5.509	5.419	5.329	5.240
90.0	2.020	1.763	1.505	1.248	0.990
92.5	0.841	0.729	0.618	0.506	0.395
95.0	0.395	0.384	0.372	0.361	0.349

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CANDELA TABULATION - (Cont.)

97.5	0.329	0.328	0.327	0.327	0.326
100.0	0.315	0.316	0.317	0.317	0.318
102.5	0.315	0.315	0.315	0.315	0.316
105.0	0.315	0.315	0.316	0.316	0.316
107.5	0.317	0.317	0.318	0.318	0.318
110.0	0.323	0.323	0.324	0.324	0.324
112.5	0.334	0.335	0.335	0.336	0.337
115.0	0.352	0.353	0.353	0.354	0.354
117.5	0.376	0.376	0.377	0.377	0.377
120.0	0.405	0.405	0.406	0.406	0.406
122.5	0.429	0.430	0.431	0.432	0.433
125.0	0.457	0.457	0.457	0.456	0.456
127.5	0.479	0.479	0.479	0.479	0.480
130.0	0.501	0.502	0.503	0.504	0.505
132.5	0.524	0.524	0.524	0.524	0.525
135.0	0.543	0.544	0.545	0.545	0.546
137.5	0.563	0.563	0.564	0.564	0.565
140.0	0.579	0.580	0.581	0.581	0.582
142.5	0.597	0.596	0.596	0.596	0.596
145.0	0.612	0.612	0.613	0.613	0.613
147.5	0.626	0.626	0.625	0.625	0.625
150.0	0.639	0.639	0.638	0.638	0.637
152.5	0.652	0.652	0.652	0.652	0.652
155.0	0.663	0.663	0.662	0.662	0.661
157.5	0.672	0.672	0.672	0.672	0.672
160.0	0.659	0.659	0.659	0.659	0.659
162.5	0.646	0.646	0.646	0.646	0.646
165.0	0.652	0.652	0.651	0.651	0.650
167.5	0.656	0.655	0.655	0.655	0.655
170.0	0.661	0.661	0.661	0.661	0.661
172.5	0.663	0.662	0.661	0.660	0.659
175.0	0.664	0.663	0.662	0.660	0.659
177.5	0.681	0.679	0.678	0.676	0.675
180.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	82.88	12.20	12.20
0-30	177.48	26.10	26.10
0-40	293.58	43.20	43.20
0-60	528.84	77.80	77.70
0-80	663.75	97.60	97.60
0-90	677.09	99.60	99.50
10-90	655.76	96.40	96.40
20-40	210.69	31.00	31.00
20-50	333.38	49.00	49.00
40-70	321.54	47.30	47.30
60-80	134.91	19.80	19.80
70-80	48.63	7.20	7.10
80-90	13.34	2.00	2.00
90-110	1.05	0.20	0.20
90-120	1.39	0.20	0.20
90-130	1.79	0.30	0.30
90-150	2.59	0.40	0.40
90-180	3.13	0.50	0.50
110-180	2.08	0.30	0.30
0-180	680.22	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	21.33
10-20	61.56
20-30	94.59
30-40	116.10
40-50	122.69
50-60	112.57
60-70	86.28
70-80	48.63
80-90	13.34
90-100	0.75
100-110	0.30
110-120	0.34
120-130	0.40
130-140	0.41
140-150	0.38
150-160	0.30
160-170	0.18
170-180	0.06

IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

IES INDOOR REPORT
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UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	27.2	28.9	27.6	29.2	29.5	UGR Viewed Endwise			
	3H	29.0	30.5	29.4	30.9	31.2	27.2	28.9	27.6	29.2
	4H	29.7	31.1	30.1	31.4	31.8	29.0	30.5	29.4	30.8
	6H	30.2	31.5	30.6	31.8	32.2	29.7	31.1	30.0	31.4
	8H	30.3	31.5	30.7	31.9	32.3	30.1	31.4	30.5	31.8
	12H	30.4	31.6	30.8	32.0	32.4	30.2	31.5	30.6	31.9

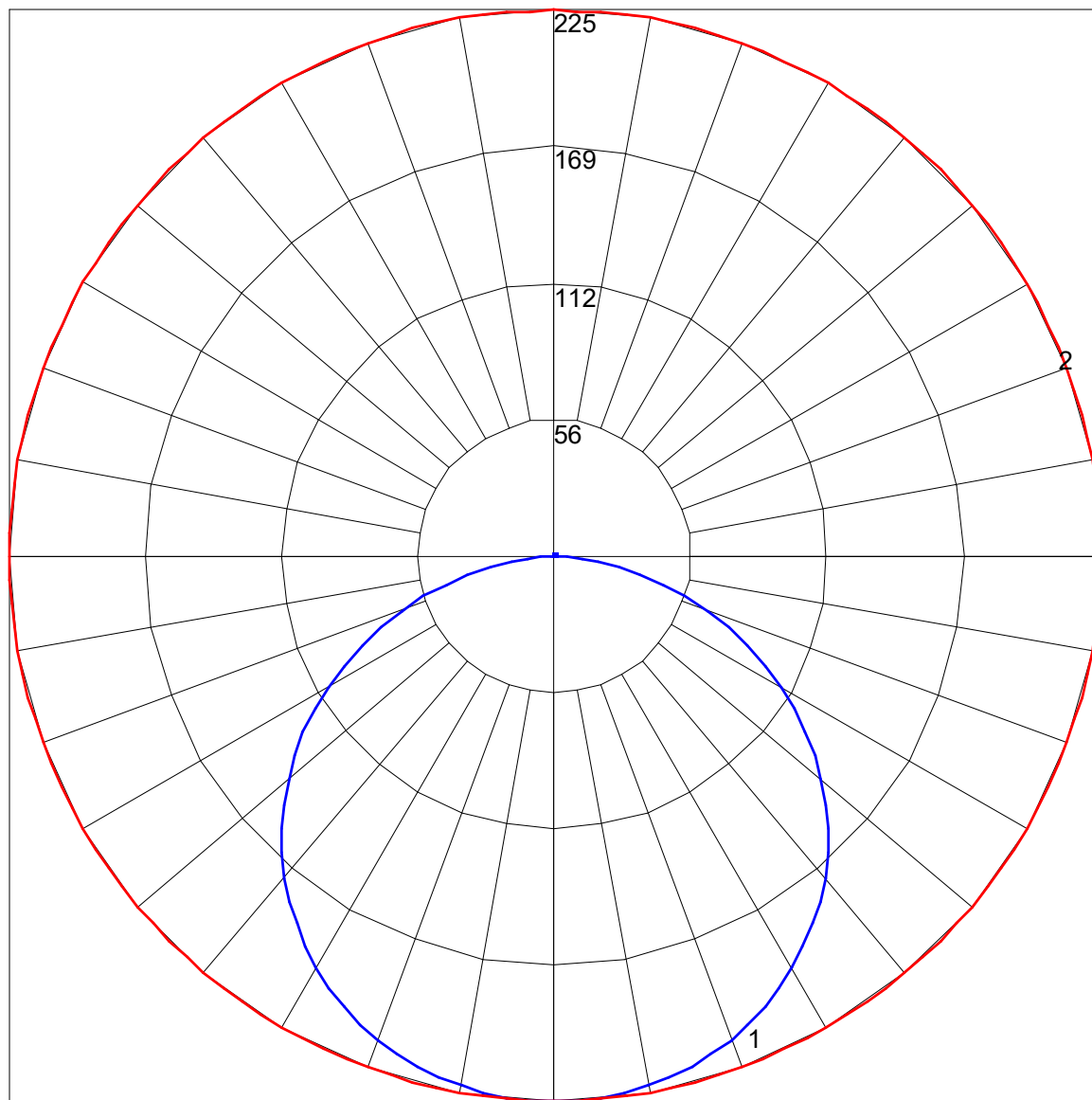
4H	2H	27.8	29.3	28.2	29.6	30.0	27.8	29.3	28.2	29.6
	3H	29.9	31.1	30.3	31.5	31.9	29.9	31.1	30.3	31.5
	4H	30.7	31.8	31.1	32.2	32.6	30.7	31.7	31.1	32.1
	6H	31.3	32.2	31.7	32.6	33.1	31.2	32.2	31.7	32.6
	8H	31.4	32.3	31.9	32.8	33.2	31.4	32.3	31.8	32.7
	12H	31.6	32.4	32.0	32.8	33.3	31.5	32.3	32.0	32.8

8H	4H	31.0	31.9	31.4	32.3	32.8	30.9	31.8	31.4	32.3
	6H	31.7	32.4	32.2	32.9	33.4	31.6	32.4	32.1	32.9
	8H	31.9	32.6	32.4	33.1	33.6	31.9	32.5	32.4	33.0
	12H	32.1	32.7	32.6	33.2	33.7	32.1	32.6	32.6	33.1

12H	4H	31.0	31.8	31.5	32.3	32.7	31.0	31.8	31.5	32.3
	6H	31.7	32.4	32.3	32.9	33.4	31.7	32.4	32.2	32.8
	8H	32.0	32.6	32.5	33.1	33.7	32.0	32.6	32.5	33.1

Maximum UGR = 33.7

POLAR GRAPH



Maximum Candela = 224.934 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)