

IES INDOOR REPORT

PHOTOMETRIC FILENAME : F45G25 - 2700K - 43 INCH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[MANUFAC] :Fabbian
[EULUMDAT_ITYP] 1
[EULUMDAT_HDIST] 5
[EULUMD_VDIST] 5
[TEST]
[TESTLAB]
[LUMINAIRE] OLYMPIC POWER-WALL-CEILING D.1087 3000K WHITE
[LUMCAT] F45G25
[EULUM_FILENAME] F45 A03 01.ltd
[ISSUEDATE] 2020-01-14
[EULUM_AREALENGTH] 1087
[EULUM_AREAWIDTH] 0
[EULUM_C0_LUM] 0
[EULUM_C90_LUM] 0
[EULUM_C180_LUM] 0
[EULUM_C270_LUM] 0
[EULUM_DOWN_FLUX] 52.87
[EULUM_EFFICIENCY] 100
[EULUM_CONV] 1
[EULUM_TILT] 0
[EULUM_LAMP_1_NUM] 1
[EULUM_LAMP_1_TYPE] LED SMD2835 11595 lm
[EULUM_LAMP_1_FLUX] 6120
[EULUM_LAMP_1_COLOR] 2689
[EULUM_LAMP_1_CRG] 90
[EULUM_LAMP_1_WATTS] 64
[LAMP] LED SMD2835 11595 lm
[EULUM_DR_0] 0
[EULUM_DR_1] 0
[EULUM_DR_2] 50
[EULUM_DR_3] 55
[EULUM_DR_4] 60
[EULUM_DR_5] 65
[EULUM_DR_6] 70
[EULUM_DR_7] 75
[EULUM_DR_8] 80
[EULUM_DR_9] 85
[CONVERT] Luminaire test position and photometric web converted from original test data (LDT to IES Reorientation)

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CHARACTERISTICS

Lumens Per Lamp	6120 (1 lamp)
Total Lamp Lumens	6120
Luminaire Lumens	6260
Total Luminaire Efficiency	102 %
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	64
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	Circular
Luminous Length (0-180)	1.09 m (Diameter)
Luminous Width (90-270)	1.09 m (Diameter)
Luminous Height	0.00 m



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	602	602	602
55	881	883	882
65	1397	1398	1398
75	2590	2590	2592
85	8085	8094	8092

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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	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088
2.5	288.375	288.497	288.619	288.512	288.405	288.436	288.466	288.420	288.375	288.512
5.0	286.661	286.906	287.150	286.936	286.722	286.783	286.844	286.753	286.661	286.937
7.5	289.323	289.415	289.507	289.476	289.446	289.491	289.537	289.491	289.446	289.507
10.0	291.985	291.924	291.863	292.016	292.169	292.200	292.230	292.230	292.230	292.077
12.5	296.300	296.300	296.300	296.407	296.514	296.407	296.300	296.346	296.392	296.407
15.0	300.614	300.676	300.737	300.798	300.859	300.615	300.370	300.462	300.553	300.737
17.5	304.256	304.332	304.409	304.440	304.470	304.378	304.287	304.271	304.256	304.363
20.0	307.897	307.989	308.081	308.081	308.081	308.142	308.203	308.081	307.958	307.989
22.5	316.159	316.129	316.098	316.175	316.251	316.297	316.343	316.174	316.006	316.022
25.0	324.421	324.268	324.115	324.268	324.421	324.452	324.482	324.268	324.054	324.054
27.5	332.286	332.209	332.133	332.117	332.102	332.178	332.255	332.086	331.918	331.918
30.0	340.150	340.150	340.150	339.966	339.782	339.905	340.027	339.905	339.782	339.782
32.5	344.373	344.296	344.220	344.235	344.250	344.265	344.281	344.143	344.005	344.036
35.0	348.595	348.442	348.289	348.504	348.718	348.626	348.534	348.381	348.228	348.289
37.5	360.897	360.866	360.835	361.004	361.172	361.065	360.958	360.881	360.805	360.896
40.0	373.198	373.290	373.381	373.504	373.626	373.504	373.381	373.381	373.381	373.504
42.5	384.092	384.153	384.214	384.260	384.306	384.229	384.153	384.275	384.397	384.336
45.0	394.985	395.016	395.046	395.016	394.985	394.955	394.924	395.169	395.413	395.169
47.5	418.302	418.379	418.455	418.348	418.241	418.195	418.149	418.333	418.516	418.333
50.0	441.619	441.742	441.864	441.681	441.497	441.436	441.374	441.497	441.619	441.497
52.5	455.359	455.619	455.879	455.695	455.512	455.557	455.603	455.603	455.604	455.558
55.0	469.098	469.496	469.894	469.710	469.526	469.679	469.832	469.710	469.588	469.619
57.5	488.774	489.034	489.294	489.187	489.080	489.171	489.263	489.202	489.141	489.095
60.0	508.450	508.572	508.694	508.664	508.633	508.664	508.694	508.694	508.694	508.572
62.5	528.248	528.141	528.034	528.309	528.585	528.554	528.523	528.600	528.676	528.600
65.0	548.046	547.710	547.373	547.955	548.536	548.444	548.352	548.505	548.658	548.628
67.5	570.109	569.895	569.681	569.941	570.201	570.216	570.231	570.292	570.354	570.338
70.0	592.171	592.080	591.988	591.927	591.865	591.988	592.110	592.080	592.049	592.049
72.5	607.257	607.349	607.441	607.380	607.318	607.303	607.288	607.334	607.380	607.364
75.0	622.343	622.619	622.894	622.833	622.771	622.618	622.465	622.588	622.710	622.680
77.5	629.626	629.763	629.901	629.809	629.718	629.794	629.871	629.855	629.840	629.779
80.0	636.908	636.908	636.908	636.786	636.664	636.970	637.276	637.123	636.970	636.878
82.5	645.538	645.094	644.650	644.987	645.324	645.431	645.538	645.492	645.446	645.339
85.0	654.167	653.280	652.392	653.188	653.983	653.892	653.800	653.861	653.922	653.800
87.5	654.167	653.815	653.463	653.846	654.228	654.091	653.953	654.060	654.167	654.121
90.0	654.167	654.351	654.534	654.504	654.473	654.290	654.106	654.259	654.412	654.443
92.5	654.412	654.350	654.289	654.320	654.351	654.167	653.984	654.106	654.228	654.243
95.0	654.656	654.350	654.044	654.136	654.228	654.045	653.861	653.953	654.044	654.044
97.5	645.752	645.645	645.538	645.599	645.660	645.599	645.538	645.476	645.415	645.385
100.0	636.847	636.939	637.031	637.062	637.092	637.153	637.214	637.000	636.786	636.725
102.5	629.748	629.718	629.687	629.733	629.779	629.886	629.993	629.901	629.809	629.779
105.0	622.649	622.496	622.343	622.404	622.465	622.618	622.771	622.802	622.832	622.832
107.5	607.472	607.410	607.349	607.456	607.563	607.578	607.594	607.594	607.594	607.471
110.0	592.294	592.325	592.355	592.508	592.661	592.539	592.416	592.386	592.355	592.110
112.5	570.293	570.384	570.476	570.553	570.629	570.843	571.057	570.690	570.323	570.155
115.0	548.291	548.444	548.597	548.597	548.597	549.148	549.698	548.995	548.291	548.199
117.5	527.881	527.835	527.789	527.820	527.850	528.248	528.646	528.217	527.789	527.789
120.0	507.470	507.226	506.981	507.042	507.103	507.348	507.593	507.440	507.287	507.379
122.5	488.498	488.361	488.223	488.361	488.499	488.606	488.713	488.621	488.529	488.590
125.0	469.526	469.496	469.465	469.680	469.894	469.863	469.832	469.802	469.771	469.802
127.5	455.512	455.542	455.573	455.680	455.787	455.649	455.512	455.496	455.481	455.634
130.0	441.497	441.589	441.680	441.680	441.680	441.436	441.191	441.191	441.191	441.467
132.5	418.088	418.256	418.424	418.455	418.486	418.287	418.088	417.966	417.843	418.088

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CANDELA TABULATION - (Cont.)

135.0	394.679	394.924	395.168	395.230	395.291	395.138	394.985	394.740	394.495	394.710
137.5	383.969	384.061	384.152	384.305	384.459	384.321	384.183	384.122	384.061	384.183
140.0	373.259	373.198	373.136	373.381	373.626	373.504	373.381	373.504	373.626	373.657
142.5	361.019	360.973	360.927	360.912	360.897	360.851	360.805	360.973	361.141	361.095
145.0	348.779	348.749	348.718	348.443	348.167	348.198	348.228	348.442	348.656	348.534
147.5	344.373	344.250	344.128	344.067	344.006	344.005	344.005	344.066	344.128	344.189
150.0	339.966	339.752	339.538	339.691	339.844	339.813	339.782	339.691	339.599	339.844
152.5	332.224	332.025	331.827	331.873	331.919	331.934	331.949	331.979	332.010	332.025
155.0	324.482	324.299	324.115	324.054	323.993	324.054	324.115	324.268	324.421	324.207
157.5	316.282	316.205	316.129	316.083	316.037	316.052	316.068	316.113	316.159	316.129
160.0	308.081	308.112	308.142	308.112	308.081	308.051	308.020	307.959	307.897	308.050
162.5	304.470	304.455	304.440	304.470	304.501	304.470	304.440	304.363	304.287	304.363
165.0	300.859	300.798	300.737	300.829	300.920	300.890	300.859	300.768	300.676	300.676
167.5	296.943	296.836	296.729	296.805	296.881	296.789	296.698	296.774	296.851	296.866
170.0	293.026	292.873	292.720	292.781	292.842	292.689	292.536	292.781	293.026	293.057
172.5	289.844	289.767	289.691	289.828	289.966	289.874	289.782	289.828	289.874	289.905
175.0	286.661	286.661	286.661	286.875	287.089	287.059	287.028	286.875	286.722	286.753
177.5	288.283	288.283	288.283	288.390	288.497	288.481	288.466	288.390	288.313	288.328
180.0	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000

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	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088
2.5	288.650	288.650	288.650	288.604	288.558	288.512	288.466	288.497	288.528	288.497
5.0	287.212	287.212	287.212	287.120	287.028	286.936	286.844	286.906	286.967	286.906
7.5	289.568	289.568	289.568	289.583	289.599	289.660	289.721	289.751	289.782	289.828
10.0	291.924	291.924	291.924	292.047	292.169	292.383	292.597	292.597	292.597	292.750
12.5	296.422	296.392	296.361	296.422	296.484	296.545	296.606	296.652	296.698	296.805
15.0	300.920	300.859	300.798	300.798	300.798	300.706	300.614	300.706	300.798	300.859
17.5	304.470	304.424	304.378	304.424	304.470	304.363	304.256	304.592	304.929	305.082
20.0	308.020	307.989	307.958	308.050	308.142	308.020	307.897	308.479	309.060	309.305
22.5	316.037	316.129	316.220	316.282	316.343	316.175	316.006	316.404	316.802	316.894
25.0	324.054	324.268	324.482	324.513	324.544	324.330	324.115	324.330	324.544	324.483
27.5	331.918	332.086	332.255	332.285	332.316	332.071	331.827	332.071	332.316	332.285
30.0	339.782	339.905	340.027	340.058	340.088	339.813	339.538	339.813	340.088	340.088
32.5	344.066	344.127	344.189	344.158	344.128	344.112	344.097	344.128	344.158	344.281
35.0	348.350	348.350	348.350	348.259	348.167	348.412	348.656	348.442	348.228	348.473
37.5	360.988	360.973	360.958	360.927	360.897	360.942	360.988	360.942	360.897	361.004
40.0	373.626	373.596	373.565	373.596	373.626	373.473	373.320	373.443	373.565	373.535
42.5	384.275	384.321	384.367	384.382	384.397	384.244	384.091	384.275	384.459	384.336
45.0	394.924	395.046	395.168	395.168	395.168	395.015	394.862	395.107	395.352	395.138
47.5	418.149	418.317	418.486	418.409	418.333	418.271	418.210	418.256	418.302	418.241
50.0	441.374	441.589	441.803	441.650	441.497	441.528	441.558	441.405	441.252	441.344
52.5	455.512	455.573	455.634	455.451	455.267	455.420	455.573	455.588	455.604	455.588
55.0	469.649	469.557	469.465	469.251	469.037	469.313	469.588	469.772	469.955	469.833
57.5	489.050	489.049	489.049	488.881	488.713	488.590	488.468	488.942	489.417	489.019
60.0	508.450	508.542	508.633	508.511	508.388	507.868	507.348	508.113	508.878	508.205
62.5	528.524	528.493	528.462	528.355	528.248	528.095	527.942	528.325	528.707	528.309
65.0	548.597	548.444	548.291	548.199	548.107	548.322	548.536	548.536	548.536	548.414
67.5	570.323	570.338	570.354	570.292	570.231	570.231	570.231	570.292	570.354	570.308
70.0	592.049	592.233	592.416	592.386	592.355	592.141	591.926	592.049	592.171	592.202
72.5	607.349	607.456	607.563	607.594	607.625	607.425	607.226	607.242	607.257	607.410
75.0	622.649	622.680	622.710	622.802	622.894	622.710	622.526	622.435	622.343	622.619
77.5	629.718	629.779	629.840	629.855	629.871	629.840	629.809	629.763	629.718	629.779
80.0	636.786	636.878	636.970	636.909	636.847	636.970	637.092	637.092	637.092	636.939

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CANDELA TABULATION - (Cont.)

82.5	645.232	645.278	645.324	645.324	645.324	645.369	645.415	645.706	645.997	645.675
85.0	653.677	653.677	653.677	653.739	653.800	653.769	653.738	654.320	654.901	654.412
87.5	654.075	654.044	654.014	653.983	653.953	654.045	654.136	654.366	654.595	654.366
90.0	654.473	654.412	654.350	654.228	654.106	654.320	654.534	654.412	654.289	654.320
92.5	654.259	654.136	654.014	654.044	654.075	654.198	654.320	654.274	654.228	654.136
95.0	654.044	653.861	653.677	653.861	654.044	654.075	654.106	654.137	654.167	653.953
97.5	645.354	645.262	645.171	645.232	645.293	645.278	645.263	645.385	645.507	645.323
100.0	636.664	636.664	636.664	636.603	636.541	636.480	636.419	636.633	636.847	636.694
102.5	629.748	629.748	629.748	629.610	629.473	629.503	629.534	629.610	629.687	629.626
105.0	622.832	622.832	622.832	622.618	622.404	622.527	622.649	622.588	622.526	622.557
107.5	607.349	607.364	607.379	607.257	607.135	607.257	607.380	607.318	607.257	607.273
110.0	591.865	591.896	591.926	591.896	591.865	591.988	592.110	592.049	591.988	591.988
112.5	569.986	569.986	569.986	570.063	570.139	570.139	570.139	569.864	569.589	569.619
115.0	548.107	548.077	548.046	548.230	548.413	548.291	548.168	547.679	547.189	547.251
117.5	527.789	527.789	527.789	527.850	527.911	527.850	527.789	527.467	527.146	527.636
120.0	507.470	507.501	507.532	507.471	507.409	507.409	507.409	507.256	507.103	508.021
122.5	488.651	488.590	488.529	488.468	488.407	488.391	488.376	488.284	488.193	488.636
125.0	469.832	469.679	469.526	469.465	469.404	469.374	469.343	469.313	469.282	469.251
127.5	455.787	455.711	455.634	455.619	455.604	455.466	455.328	455.389	455.451	455.359
130.0	441.742	441.742	441.742	441.773	441.803	441.558	441.313	441.466	441.619	441.466
132.5	418.333	418.364	418.394	418.363	418.333	418.241	418.149	418.241	418.333	418.287
135.0	394.924	394.985	395.046	394.954	394.862	394.924	394.985	395.016	395.046	395.107
137.5	384.306	384.229	384.153	384.168	384.183	384.260	384.336	384.306	384.275	384.244
140.0	373.687	373.473	373.259	373.382	373.504	373.596	373.687	373.596	373.504	373.382
142.5	361.050	361.004	360.958	360.973	360.989	361.050	361.111	360.988	360.866	360.851
145.0	348.412	348.534	348.656	348.565	348.473	348.504	348.534	348.381	348.228	348.320
147.5	344.250	344.204	344.158	344.219	344.281	344.250	344.220	344.174	344.128	344.097
150.0	340.088	339.874	339.660	339.874	340.088	339.997	339.905	339.966	340.027	339.874
152.5	332.041	331.949	331.857	332.010	332.163	332.178	332.194	332.194	332.194	332.071
155.0	323.993	324.024	324.054	324.146	324.238	324.360	324.482	324.421	324.360	324.268
157.5	316.098	315.991	315.884	316.297	316.710	316.465	316.220	316.236	316.251	316.113
160.0	308.203	307.959	307.714	308.448	309.182	308.570	307.958	308.050	308.142	307.959
162.5	304.440	304.302	304.164	304.547	304.929	304.608	304.286	304.378	304.470	304.332
165.0	300.676	300.645	300.614	300.645	300.676	300.645	300.614	300.706	300.798	300.706
167.5	296.882	296.835	296.789	296.744	296.698	296.790	296.881	296.881	296.881	296.545
170.0	293.087	293.026	292.964	292.842	292.720	292.934	293.148	293.056	292.964	292.383
172.5	289.935	289.874	289.813	289.752	289.691	289.935	290.180	290.027	289.874	289.553
175.0	286.783	286.722	286.661	286.661	286.661	286.937	287.212	286.998	286.783	286.722
177.5	288.344	288.313	288.283	288.283	288.283	288.420	288.558	288.451	288.344	288.313
180.0	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000

**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	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088
2.5	288.466	288.527	288.589	288.619	288.650	288.635	288.619	288.497	288.375	288.375
5.0	286.844	286.967	287.089	287.151	287.212	287.181	287.150	286.906	286.661	286.661
7.5	289.874	289.981	290.088	290.012	289.935	290.027	290.119	289.874	289.629	289.675
10.0	292.903	292.995	293.087	292.873	292.658	292.873	293.087	292.842	292.597	292.689
12.5	296.912	296.942	296.973	296.789	296.606	296.759	296.912	296.835	296.759	296.698
15.0	300.920	300.890	300.859	300.706	300.553	300.645	300.737	300.829	300.920	300.706
17.5	305.235	304.761	304.287	304.669	305.052	304.730	304.409	304.761	305.113	304.623
20.0	309.550	308.632	307.714	308.632	309.550	308.816	308.081	308.693	309.305	308.540
22.5	316.986	316.481	315.976	316.466	316.955	316.573	316.190	316.450	316.710	316.374
25.0	324.421	324.330	324.238	324.299	324.360	324.330	324.299	324.207	324.115	324.207
27.5	332.255	332.163	332.072	332.087	332.102	332.056	332.010	331.949	331.888	331.949

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CANDELA TABULATION - (Cont.)

30.0	340.088	339.997	339.905	339.875	339.844	339.783	339.721	339.691	339.660	339.691
32.5	344.403	344.265	344.128	344.189	344.250	344.143	344.036	343.990	343.944	344.051
35.0	348.718	348.534	348.350	348.503	348.656	348.503	348.350	348.289	348.228	348.412
37.5	361.111	361.050	360.988	361.019	361.049	360.957	360.866	360.805	360.744	360.835
40.0	373.504	373.565	373.626	373.534	373.442	373.412	373.381	373.320	373.259	373.259
42.5	384.214	384.229	384.244	384.122	383.999	383.969	383.938	384.122	384.306	384.183
45.0	394.924	394.893	394.862	394.709	394.556	394.526	394.495	394.924	395.352	395.107
47.5	418.180	418.241	418.302	418.210	418.118	418.134	418.149	418.226	418.302	418.210
50.0	441.436	441.589	441.742	441.711	441.680	441.742	441.803	441.528	441.252	441.313
52.5	455.573	455.665	455.757	455.756	455.756	455.680	455.604	455.496	455.389	455.404
55.0	469.710	469.741	469.771	469.802	469.832	469.618	469.404	469.465	469.526	469.496
57.5	488.621	488.590	488.560	488.575	488.590	488.453	488.315	488.407	488.498	488.391
60.0	507.532	507.440	507.348	507.348	507.348	507.287	507.226	507.348	507.470	507.287
62.5	527.912	527.820	527.728	527.789	527.850	527.758	527.667	527.728	527.789	527.758
65.0	548.291	548.199	548.107	548.230	548.352	548.230	548.107	548.107	548.107	548.230
67.5	570.262	570.109	569.956	570.231	570.507	570.338	570.170	570.139	570.109	570.200
70.0	592.232	592.018	591.804	592.233	592.661	592.447	592.232	592.171	592.110	592.171
72.5	607.563	607.395	607.227	607.426	607.625	607.578	607.532	607.471	607.410	607.441
75.0	622.894	622.772	622.649	622.619	622.588	622.710	622.832	622.771	622.710	622.710
77.5	629.840	629.809	629.779	629.871	629.963	630.008	630.054	629.886	629.718	629.840
80.0	636.786	636.847	636.908	637.123	637.337	637.307	637.276	637.001	636.725	636.970
82.5	645.354	645.691	646.027	646.073	646.119	646.043	645.966	645.859	645.752	645.890
85.0	653.922	654.534	655.146	655.024	654.901	654.779	654.656	654.718	654.779	654.810
87.5	654.136	654.473	654.810	654.764	654.718	654.580	654.442	654.442	654.443	654.550
90.0	654.350	654.412	654.473	654.504	654.534	654.381	654.228	654.167	654.106	654.290
92.5	654.044	654.197	654.351	653.968	653.586	653.478	653.371	653.371	653.372	653.479
95.0	653.738	653.983	654.228	653.433	652.637	652.576	652.514	652.576	652.637	652.668
97.5	645.140	645.293	645.446	645.033	644.620	644.650	644.681	644.620	644.559	644.559
100.0	636.541	636.603	636.664	636.633	636.602	636.725	636.847	636.664	636.480	636.450
102.5	629.565	629.656	629.748	629.656	629.564	629.580	629.595	629.718	629.840	629.840
105.0	622.588	622.710	622.832	622.679	622.526	622.435	622.343	622.772	623.200	623.231
107.5	607.288	607.364	607.441	607.425	607.410	607.272	607.135	607.471	607.808	607.732
110.0	591.988	592.019	592.049	592.172	592.294	592.110	591.926	592.171	592.416	592.233
112.5	569.650	569.726	569.803	569.803	569.803	569.696	569.588	569.818	570.048	569.849
115.0	547.312	547.434	547.556	547.434	547.312	547.281	547.250	547.465	547.679	547.465
117.5	528.126	528.156	528.187	528.049	527.912	527.942	527.972	528.095	528.218	528.080
120.0	508.939	508.878	508.817	508.664	508.511	508.603	508.694	508.725	508.756	508.695
122.5	489.080	489.049	489.019	488.927	488.835	488.850	488.866	488.896	488.927	488.881
125.0	469.220	469.220	469.220	469.190	469.159	469.098	469.037	469.068	469.098	469.068
127.5	455.267	455.374	455.481	455.328	455.175	455.145	455.114	455.145	455.175	455.175
130.0	441.313	441.528	441.742	441.467	441.191	441.191	441.191	441.222	441.252	441.283
132.5	418.241	418.363	418.486	418.241	417.996	418.057	418.119	418.195	418.272	418.241
135.0	395.168	395.199	395.230	395.016	394.801	394.924	395.046	395.169	395.291	395.199
137.5	384.214	384.244	384.275	384.168	384.061	384.183	384.306	384.367	384.428	384.382
140.0	373.259	373.290	373.320	373.320	373.320	373.443	373.565	373.565	373.565	373.565
142.5	360.836	360.881	360.927	360.897	360.866	360.943	361.019	360.943	360.866	360.912
145.0	348.412	348.473	348.534	348.473	348.412	348.443	348.473	348.320	348.167	348.259
147.5	344.067	344.082	344.097	344.189	344.281	344.281	344.281	344.082	343.883	344.036
150.0	339.721	339.691	339.660	339.905	340.150	340.119	340.088	339.844	339.599	339.813
152.5	331.949	332.010	332.071	332.209	332.347	332.240	332.132	332.086	332.041	332.148
155.0	324.176	324.329	324.482	324.513	324.544	324.360	324.176	324.329	324.482	324.482
157.5	315.976	316.129	316.282	316.588	316.894	316.787	316.679	316.419	316.159	316.251
160.0	307.775	307.928	308.081	308.663	309.244	309.213	309.182	308.509	307.836	308.020
162.5	304.195	304.225	304.256	304.577	304.899	304.944	304.990	304.531	304.072	304.240
165.0	300.614	300.523	300.431	300.492	300.553	300.676	300.798	300.553	300.308	300.461
167.5	296.208	296.223	296.239	296.422	296.606	296.759	296.912	296.820	296.728	296.698

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CANDELA TABULATION - (Cont.)

170.0	291.802	291.924	292.046	292.352	292.658	292.842	293.026	293.087	293.148	292.934
172.5	289.232	289.293	289.354	289.537	289.721	289.920	290.119	290.134	290.149	289.935
175.0	286.661	286.661	286.661	286.722	286.783	286.998	287.212	287.181	287.150	286.936
177.5	288.283	288.283	288.283	288.313	288.344	288.451	288.558	288.543	288.527	288.420
180.0	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000

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	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088
2.5	288.375	288.497	288.619	288.619	288.619	288.497	288.375	288.420	288.466	288.512
5.0	286.661	286.906	287.150	287.150	287.150	286.906	286.661	286.753	286.844	286.936
7.5	289.721	289.859	289.996	289.996	289.996	289.950	289.905	289.920	289.935	289.905
10.0	292.781	292.812	292.842	292.842	292.842	292.995	293.148	293.087	293.026	292.873
12.5	296.637	296.637	296.637	296.682	296.728	296.744	296.759	296.729	296.698	296.667
15.0	300.492	300.462	300.431	300.523	300.614	300.492	300.370	300.370	300.370	300.462
17.5	304.134	304.455	304.776	304.501	304.225	304.593	304.960	304.578	304.195	304.531
20.0	307.775	308.448	309.121	308.479	307.836	308.693	309.550	308.785	308.020	308.601
22.5	316.037	316.328	316.618	316.343	316.068	316.527	316.986	316.603	316.221	316.481
25.0	324.299	324.207	324.115	324.207	324.299	324.360	324.421	324.421	324.421	324.360
27.5	332.010	331.995	331.980	332.087	332.194	332.163	332.133	332.148	332.163	332.163
30.0	339.721	339.783	339.844	339.966	340.088	339.966	339.844	339.875	339.905	339.966
32.5	344.158	344.158	344.159	344.189	344.219	344.128	344.036	344.189	344.342	344.357
35.0	348.595	348.534	348.473	348.412	348.350	348.289	348.228	348.504	348.779	348.749
37.5	360.927	360.912	360.897	360.851	360.805	360.866	360.927	360.988	361.050	361.065
40.0	373.259	373.290	373.320	373.290	373.259	373.443	373.626	373.473	373.320	373.381
42.5	384.061	384.107	384.153	384.214	384.275	384.275	384.275	384.168	384.061	384.137
45.0	394.862	394.924	394.985	395.138	395.291	395.108	394.924	394.863	394.801	394.893
47.5	418.118	418.180	418.241	418.363	418.486	418.272	418.058	418.165	418.272	418.226
50.0	441.374	441.436	441.497	441.589	441.680	441.436	441.191	441.467	441.742	441.558
52.5	455.420	455.450	455.481	455.558	455.634	455.573	455.512	455.665	455.818	455.680
55.0	469.465	469.465	469.465	469.527	469.588	469.710	469.832	469.863	469.894	469.802
57.5	488.284	488.361	488.437	488.514	488.591	488.544	488.498	488.514	488.529	488.529
60.0	507.103	507.256	507.409	507.501	507.593	507.379	507.164	507.164	507.164	507.256
62.5	527.728	528.187	528.646	528.370	528.095	527.988	527.881	527.850	527.819	528.125
65.0	548.352	549.117	549.882	549.240	548.597	548.597	548.597	548.536	548.474	548.995
67.5	570.292	570.705	571.119	570.797	570.476	570.476	570.476	570.491	570.506	570.736
70.0	592.232	592.294	592.355	592.355	592.355	592.355	592.355	592.447	592.538	592.477
72.5	607.471	607.471	607.472	607.456	607.441	607.502	607.563	607.517	607.471	607.532
75.0	622.710	622.649	622.588	622.557	622.526	622.649	622.771	622.588	622.404	622.588
77.5	629.962	629.825	629.687	629.702	629.717	629.886	630.054	629.855	629.656	629.794
80.0	637.214	637.000	636.786	636.847	636.908	637.123	637.337	637.123	636.908	637.000
82.5	646.027	645.935	645.844	645.905	645.966	646.012	646.058	645.997	645.935	645.997
85.0	654.840	654.871	654.901	654.963	655.024	654.902	654.779	654.871	654.962	654.993
87.5	654.657	654.687	654.718	654.702	654.687	654.641	654.596	654.534	654.473	654.641
90.0	654.473	654.504	654.534	654.442	654.350	654.381	654.412	654.198	653.983	654.289
92.5	653.586	653.524	653.463	653.524	653.585	653.494	653.402	653.371	653.341	653.402
95.0	652.698	652.545	652.392	652.606	652.820	652.606	652.392	652.545	652.698	652.515
97.5	644.559	644.559	644.559	644.681	644.803	644.650	644.497	644.604	644.712	644.589
100.0	636.419	636.572	636.725	636.756	636.786	636.694	636.602	636.664	636.725	636.664
102.5	629.840	629.901	629.963	629.855	629.748	629.779	629.809	629.794	629.779	629.763
105.0	623.261	623.231	623.200	622.955	622.710	622.863	623.016	622.924	622.832	622.863
107.5	607.655	607.686	607.716	607.640	607.563	607.548	607.533	607.487	607.441	607.487
110.0	592.049	592.141	592.232	592.324	592.416	592.233	592.049	592.049	592.049	592.110
112.5	569.650	569.680	569.711	569.772	569.833	569.849	569.864	569.818	569.772	569.772
115.0	547.250	547.220	547.189	547.220	547.250	547.465	547.679	547.587	547.495	547.434

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CANDELA TABULATION - (Cont.)

117.5	527.942	527.957	527.973	527.881	527.789	527.911	528.034	528.080	528.126	528.003
120.0	508.633	508.695	508.756	508.542	508.327	508.358	508.388	508.572	508.756	508.572
122.5	488.835	489.004	489.172	489.065	488.958	488.881	488.804	488.957	489.111	488.973
125.0	469.037	469.313	469.588	469.588	469.588	469.404	469.220	469.343	469.465	469.374
127.5	455.175	455.512	455.849	455.711	455.573	455.451	455.328	455.359	455.389	455.435
130.0	441.313	441.711	442.109	441.834	441.558	441.497	441.436	441.375	441.313	441.497
132.5	418.210	418.409	418.608	418.425	418.241	418.272	418.302	418.287	418.272	418.363
135.0	395.107	395.107	395.107	395.016	394.924	395.046	395.168	395.199	395.230	395.230
137.5	384.336	384.290	384.244	384.137	384.030	384.214	384.397	384.351	384.306	384.275
140.0	373.565	373.473	373.381	373.259	373.136	373.381	373.626	373.504	373.381	373.320
142.5	360.958	360.942	360.927	360.927	360.927	361.019	361.111	360.988	360.866	360.896
145.0	348.350	348.412	348.473	348.596	348.718	348.657	348.595	348.473	348.350	348.473
147.5	344.189	344.219	344.250	344.266	344.281	344.250	344.220	344.143	344.066	344.112
150.0	340.027	340.027	340.027	339.936	339.844	339.844	339.844	339.813	339.782	339.752
152.5	332.255	332.270	332.286	332.224	332.163	332.163	332.163	332.071	331.979	331.995
155.0	324.482	324.513	324.544	324.513	324.482	324.482	324.482	324.329	324.176	324.238
157.5	316.343	316.312	316.282	316.205	316.129	316.144	316.159	316.190	316.220	316.220
160.0	308.203	308.112	308.020	307.898	307.775	307.806	307.836	308.050	308.264	308.203
162.5	304.409	304.439	304.470	304.332	304.195	304.286	304.378	304.424	304.470	304.409
165.0	300.614	300.767	300.920	300.767	300.614	300.767	300.920	300.798	300.676	300.615
167.5	296.667	296.759	296.851	296.789	296.728	296.743	296.759	296.744	296.729	296.728
170.0	292.720	292.751	292.781	292.812	292.842	292.720	292.597	292.689	292.781	292.842
172.5	289.721	289.736	289.752	289.767	289.782	289.782	289.782	289.874	289.966	289.966
175.0	286.722	286.722	286.722	286.722	286.722	286.845	286.967	287.059	287.150	287.089
177.5	288.313	288.313	288.313	288.313	288.313	288.374	288.436	288.481	288.527	288.497
180.0	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000

**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	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088
2.5	288.558	288.558	288.558	288.512	288.466	288.466	288.466	288.466	288.466	288.543
5.0	287.028	287.028	287.028	286.936	286.844	286.844	286.844	286.844	286.844	286.997
7.5	289.874	289.905	289.935	289.859	289.782	289.874	289.966	289.858	289.751	289.889
10.0	292.720	292.781	292.842	292.781	292.720	292.904	293.087	292.873	292.658	292.781
12.5	296.637	296.682	296.728	296.744	296.759	296.728	296.698	296.667	296.636	296.697
15.0	300.553	300.584	300.614	300.706	300.798	300.553	300.308	300.461	300.614	300.614
17.5	304.868	304.531	304.195	304.700	305.205	304.684	304.164	304.592	305.021	304.653
20.0	309.182	308.479	307.775	308.693	309.611	308.816	308.020	308.724	309.427	308.693
22.5	316.741	316.328	315.915	316.450	316.986	316.634	316.282	316.603	316.924	316.572
25.0	324.299	324.177	324.054	324.207	324.360	324.452	324.544	324.483	324.421	324.452
27.5	332.163	332.056	331.949	332.087	332.224	332.255	332.286	332.286	332.286	332.224
30.0	340.027	339.936	339.844	339.966	340.088	340.058	340.027	340.089	340.150	339.997
32.5	344.373	344.327	344.281	344.220	344.158	344.281	344.403	344.373	344.342	344.281
35.0	348.718	348.718	348.718	348.473	348.228	348.504	348.779	348.657	348.534	348.565
37.5	361.080	361.126	361.172	360.927	360.682	360.942	361.203	361.019	360.835	360.881
40.0	373.442	373.534	373.626	373.381	373.136	373.381	373.626	373.381	373.136	373.198
42.5	384.214	384.214	384.214	384.214	384.214	384.229	384.244	384.106	383.969	384.076
45.0	394.985	394.893	394.801	395.046	395.291	395.077	394.862	394.832	394.801	394.954
47.5	418.180	418.210	418.241	418.394	418.547	418.302	418.057	418.103	418.149	418.287
50.0	441.374	441.527	441.680	441.742	441.803	441.528	441.252	441.375	441.497	441.620
52.5	455.542	455.634	455.726	455.772	455.818	455.603	455.389	455.435	455.481	455.604
55.0	469.710	469.741	469.771	469.802	469.832	469.679	469.526	469.496	469.465	469.588
57.5	488.529	488.544	488.560	488.575	488.590	488.514	488.437	488.452	488.468	488.468
60.0	507.348	507.348	507.348	507.348	507.348	507.348	507.348	507.409	507.470	507.348
62.5	528.432	528.171	527.911	527.835	527.758	527.728	527.697	527.819	527.942	527.911

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65.0	549.515	548.995	548.474	548.321	548.168	548.107	548.046	548.230	548.413	548.475
67.5	570.966	570.675	570.384	570.216	570.047	570.124	570.201	570.308	570.415	570.292
70.0	592.416	592.355	592.294	592.110	591.926	592.141	592.355	592.386	592.416	592.110
72.5	607.594	607.533	607.472	607.425	607.379	607.441	607.502	607.456	607.410	607.272
75.0	622.771	622.710	622.649	622.741	622.832	622.741	622.649	622.527	622.404	622.435
77.5	629.932	629.932	629.932	629.977	630.023	629.855	629.687	629.672	629.656	629.717
80.0	637.092	637.153	637.214	637.214	637.214	636.970	636.725	636.817	636.908	637.000
82.5	646.058	646.073	646.088	646.012	645.935	645.889	645.844	645.813	645.782	645.874
85.0	655.024	654.993	654.962	654.809	654.656	654.809	654.962	654.809	654.656	654.748
87.5	654.810	654.733	654.656	654.626	654.595	654.580	654.565	654.565	654.565	654.503
90.0	654.595	654.473	654.350	654.442	654.534	654.351	654.167	654.320	654.473	654.259
92.5	653.463	653.509	653.555	653.555	653.555	653.433	653.310	653.463	653.616	653.861
95.0	652.331	652.545	652.759	652.668	652.576	652.515	652.453	652.606	652.759	653.463
97.5	644.467	644.604	644.742	644.666	644.589	644.635	644.681	644.681	644.681	645.094
100.0	636.602	636.664	636.725	636.664	636.602	636.755	636.908	636.755	636.602	636.725
102.5	629.748	629.886	630.024	629.855	629.687	629.794	629.901	629.779	629.656	629.702
105.0	622.894	623.108	623.322	623.047	622.771	622.833	622.894	622.802	622.710	622.680
107.5	607.533	607.670	607.808	607.640	607.471	607.502	607.533	607.502	607.471	607.395
110.0	592.171	592.233	592.294	592.233	592.171	592.171	592.171	592.202	592.232	592.110
112.5	569.772	569.895	570.017	569.956	569.895	569.849	569.803	569.803	569.803	569.818
115.0	547.373	547.557	547.740	547.679	547.618	547.526	547.434	547.404	547.373	547.526
117.5	527.881	528.064	528.248	528.126	528.003	527.973	527.942	527.911	527.881	528.095
120.0	508.388	508.572	508.756	508.572	508.388	508.419	508.450	508.419	508.388	508.664
122.5	488.835	488.912	488.988	488.927	488.866	488.805	488.744	488.728	488.713	488.866
125.0	469.282	469.251	469.220	469.282	469.343	469.190	469.037	469.037	469.037	469.068
127.5	455.481	455.450	455.420	455.450	455.481	455.374	455.267	455.298	455.328	455.359
130.0	441.680	441.650	441.619	441.619	441.619	441.558	441.497	441.558	441.619	441.650
132.5	418.455	418.470	418.486	418.363	418.241	418.287	418.333	418.333	418.333	418.378
135.0	395.230	395.291	395.352	395.107	394.862	395.015	395.168	395.107	395.046	395.107
137.5	384.245	384.244	384.244	384.229	384.214	384.259	384.305	384.259	384.214	384.321
140.0	373.259	373.198	373.136	373.351	373.565	373.504	373.442	373.412	373.381	373.534
142.5	360.927	360.942	360.958	360.942	360.927	360.896	360.866	360.850	360.835	361.003
145.0	348.595	348.687	348.779	348.534	348.289	348.289	348.289	348.289	348.289	348.473
147.5	344.158	344.296	344.434	344.327	344.220	344.112	344.005	344.036	344.067	344.128
150.0	339.721	339.905	340.088	340.119	340.150	339.936	339.721	339.783	339.844	339.783
152.5	332.010	332.102	332.194	332.255	332.316	332.194	332.071	332.010	331.949	332.010
155.0	324.299	324.299	324.299	324.391	324.482	324.452	324.421	324.238	324.054	324.238
157.5	316.221	316.190	316.160	316.144	316.129	316.511	316.894	316.848	316.802	316.481
160.0	308.142	308.081	308.020	307.898	307.775	308.571	309.366	309.458	309.550	308.724
162.5	304.348	304.409	304.470	304.256	304.042	304.470	304.899	305.021	305.144	304.761
165.0	300.553	300.737	300.920	300.614	300.308	300.370	300.431	300.584	300.737	300.798
167.5	296.728	296.774	296.820	296.774	296.728	296.636	296.545	296.682	296.820	296.667
170.0	292.903	292.812	292.720	292.934	293.148	292.903	292.658	292.781	292.903	292.536
172.5	289.966	289.843	289.721	289.935	290.149	290.042	289.935	289.950	289.966	289.752
175.0	287.028	286.875	286.722	286.936	287.150	287.181	287.212	287.120	287.028	286.967
177.5	288.466	288.390	288.313	288.420	288.527	288.543	288.558	288.512	288.466	288.436
180.0	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000

**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	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088
2.5	288.619	288.543	288.466	288.466	288.466	288.543	288.619	288.573	288.528	288.512
5.0	287.150	286.997	286.844	286.844	286.844	286.997	287.150	287.059	286.967	286.937
7.5	290.027	289.904	289.782	289.843	289.904	289.935	289.966	289.767	289.568	289.507
10.0	292.903	292.812	292.720	292.842	292.964	292.873	292.781	292.475	292.169	292.077

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12.5	296.759	296.713	296.667	296.728	296.789	296.728	296.667	296.575	296.484	296.453
15.0	300.614	300.614	300.614	300.614	300.614	300.584	300.553	300.676	300.798	300.829
17.5	304.286	304.562	304.837	304.852	304.868	304.501	304.134	304.317	304.501	304.409
20.0	307.958	308.509	309.060	309.091	309.121	308.418	307.714	307.959	308.203	307.989
22.5	316.220	316.404	316.588	316.649	316.710	316.282	315.854	316.098	316.343	316.220
25.0	324.482	324.299	324.115	324.207	324.299	324.146	323.993	324.238	324.482	324.452
27.5	332.163	332.132	332.102	332.056	332.010	331.918	331.827	331.964	332.102	332.194
30.0	339.844	339.966	340.088	339.905	339.721	339.691	339.660	339.691	339.721	339.936
32.5	344.220	344.296	344.372	344.280	344.189	344.082	343.975	343.975	343.975	344.112
35.0	348.595	348.626	348.656	348.656	348.656	348.473	348.289	348.259	348.228	348.289
37.5	360.927	360.942	360.958	360.942	360.927	360.866	360.805	360.866	360.927	360.958
40.0	373.259	373.259	373.259	373.229	373.198	373.259	373.320	373.473	373.626	373.626
42.5	384.183	384.198	384.214	384.244	384.275	384.244	384.214	384.321	384.428	384.397
45.0	395.107	395.138	395.168	395.260	395.352	395.230	395.107	395.169	395.230	395.169
47.5	418.425	418.440	418.455	418.455	418.455	418.470	418.486	418.363	418.241	418.425
50.0	441.742	441.742	441.742	441.650	441.558	441.711	441.864	441.558	441.252	441.681
52.5	455.726	455.696	455.665	455.696	455.726	455.680	455.634	455.451	455.267	455.634
55.0	469.710	469.649	469.588	469.741	469.894	469.649	469.404	469.343	469.282	469.588
57.5	488.468	488.392	488.315	488.851	489.386	488.896	488.407	488.621	488.835	489.095
60.0	507.226	507.134	507.042	507.960	508.878	508.144	507.409	507.899	508.388	508.603
62.5	527.881	527.743	527.605	528.156	528.707	528.233	527.758	528.125	528.493	528.600
65.0	548.536	548.352	548.168	548.352	548.536	548.322	548.107	548.352	548.597	548.597
67.5	570.170	570.185	570.200	570.216	570.231	570.246	570.262	570.308	570.354	570.308
70.0	591.804	592.018	592.232	592.079	591.926	592.171	592.416	592.263	592.110	592.018
72.5	607.135	607.333	607.532	607.379	607.226	607.456	607.686	607.548	607.410	607.410
75.0	622.465	622.649	622.832	622.679	622.526	622.741	622.955	622.833	622.710	622.802
77.5	629.779	629.824	629.870	629.840	629.809	629.932	630.054	629.932	629.809	629.871
80.0	637.092	637.000	636.908	637.000	637.092	637.123	637.153	637.031	636.908	636.939
82.5	645.966	645.629	645.293	645.599	645.905	645.691	645.477	645.400	645.323	645.400
85.0	654.840	654.259	653.677	654.198	654.718	654.259	653.800	653.769	653.738	653.861
87.5	654.442	654.243	654.045	654.305	654.565	654.290	654.014	653.968	653.922	654.014
90.0	654.044	654.228	654.412	654.412	654.412	654.320	654.228	654.167	654.106	654.167
92.5	654.106	654.198	654.290	654.182	654.075	654.090	654.106	654.121	654.137	654.121
95.0	654.167	654.167	654.167	653.953	653.738	653.861	653.983	654.075	654.167	654.075
97.5	645.507	645.431	645.354	645.339	645.323	645.369	645.415	645.415	645.416	645.354
100.0	636.847	636.694	636.541	636.725	636.908	636.878	636.847	636.756	636.664	636.633
102.5	629.748	629.595	629.442	629.610	629.779	629.763	629.748	629.672	629.595	629.595
105.0	622.649	622.496	622.343	622.496	622.649	622.649	622.649	622.588	622.526	622.557
107.5	607.319	607.242	607.166	607.196	607.227	607.318	607.410	607.395	607.379	607.395
110.0	591.988	591.988	591.988	591.896	591.804	591.988	592.171	592.202	592.232	592.232
112.5	569.834	569.818	569.803	569.650	569.497	569.833	570.170	570.277	570.384	570.262
115.0	547.679	547.649	547.618	547.404	547.189	547.679	548.168	548.352	548.536	548.291
117.5	528.309	528.233	528.156	527.758	527.361	527.559	527.758	527.804	527.850	527.835
120.0	508.939	508.817	508.694	508.113	507.532	507.440	507.348	507.256	507.164	507.379
122.5	489.019	488.988	488.957	488.759	488.560	488.422	488.284	488.299	488.315	488.529
125.0	469.098	469.159	469.220	469.404	469.588	469.404	469.220	469.343	469.465	469.680
127.5	455.389	455.359	455.328	455.435	455.543	455.389	455.236	455.282	455.328	455.588
130.0	441.680	441.558	441.436	441.467	441.497	441.375	441.252	441.222	441.191	441.497
132.5	418.424	418.363	418.302	418.317	418.333	418.164	417.996	417.996	417.996	418.287
135.0	395.168	395.168	395.168	395.168	395.168	394.954	394.740	394.771	394.801	395.077
137.5	384.428	384.412	384.397	384.305	384.214	384.152	384.091	384.030	383.969	384.198
140.0	373.687	373.657	373.626	373.443	373.259	373.351	373.442	373.289	373.136	373.320
142.5	361.172	361.126	361.080	360.897	360.713	360.912	361.111	360.973	360.835	360.851
145.0	348.656	348.595	348.534	348.351	348.167	348.473	348.779	348.657	348.534	348.381
147.5	344.189	344.143	344.097	344.082	344.067	344.204	344.342	344.311	344.281	344.128
150.0	339.721	339.691	339.660	339.813	339.966	339.936	339.905	339.966	340.027	339.874

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152.5	332.071	332.041	332.010	332.117	332.224	332.224	332.225	332.117	332.010	332.025
155.0	324.421	324.391	324.360	324.421	324.482	324.513	324.544	324.269	323.993	324.177
157.5	316.159	316.144	316.129	316.129	316.129	316.190	316.251	316.404	316.557	316.374
160.0	307.897	307.897	307.897	307.836	307.775	307.867	307.958	308.540	309.121	308.571
162.5	304.378	304.378	304.378	304.225	304.073	304.210	304.348	304.654	304.960	304.638
165.0	300.859	300.859	300.859	300.615	300.370	300.554	300.737	300.768	300.798	300.706
167.5	296.514	296.422	296.331	296.407	296.484	296.591	296.698	296.744	296.790	296.789
170.0	292.169	291.986	291.802	292.200	292.597	292.628	292.658	292.720	292.781	292.873
172.5	289.538	289.492	289.446	289.660	289.874	289.782	289.690	289.706	289.721	289.767
175.0	286.906	286.998	287.089	287.120	287.150	286.936	286.722	286.692	286.661	286.661
177.5	288.405	288.451	288.497	288.512	288.527	288.420	288.313	288.298	288.283	288.283
180.0	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000

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	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088
2.5	288.497	288.543	288.589	288.604	288.619	288.589	288.558	288.604	288.650	288.497
5.0	286.906	286.998	287.089	287.120	287.150	287.089	287.028	287.120	287.212	286.906
7.5	289.446	289.430	289.415	289.522	289.629	289.583	289.537	289.522	289.507	289.431
10.0	291.985	291.863	291.740	291.924	292.108	292.077	292.046	291.924	291.802	291.955
12.5	296.422	296.284	296.147	296.254	296.361	296.422	296.483	296.407	296.331	296.300
15.0	300.859	300.706	300.553	300.584	300.614	300.767	300.920	300.890	300.859	300.645
17.5	304.317	304.317	304.317	304.317	304.317	304.302	304.286	304.271	304.256	304.195
20.0	307.775	307.928	308.081	308.051	308.020	307.836	307.652	307.652	307.652	307.744
22.5	316.098	316.098	316.098	316.144	316.190	316.022	315.853	315.945	316.037	316.037
25.0	324.421	324.268	324.115	324.238	324.360	324.207	324.054	324.238	324.421	324.330
27.5	332.286	332.087	331.888	332.071	332.255	332.041	331.827	332.025	332.224	332.117
30.0	340.150	339.905	339.660	339.905	340.150	339.875	339.599	339.813	340.027	339.905
32.5	344.250	344.220	344.189	344.296	344.403	344.296	344.189	344.189	344.189	344.143
35.0	348.350	348.534	348.718	348.687	348.656	348.718	348.779	348.565	348.350	348.381
37.5	360.988	361.065	361.142	361.080	361.019	361.080	361.142	361.019	360.896	360.835
40.0	373.626	373.596	373.565	373.473	373.381	373.443	373.504	373.473	373.442	373.289
42.5	384.367	384.336	384.306	384.351	384.397	384.397	384.398	384.321	384.244	384.183
45.0	395.107	395.077	395.046	395.230	395.413	395.352	395.291	395.169	395.046	395.077
47.5	418.608	418.409	418.210	418.440	418.669	418.532	418.394	418.348	418.302	418.394
50.0	442.109	441.742	441.374	441.650	441.925	441.711	441.497	441.528	441.558	441.711
52.5	456.002	455.757	455.512	455.634	455.757	455.634	455.512	455.512	455.512	455.588
55.0	469.894	469.772	469.649	469.619	469.588	469.557	469.526	469.496	469.465	469.465
57.5	489.356	489.325	489.294	489.126	488.958	488.957	488.957	489.003	489.049	489.019
60.0	508.817	508.878	508.939	508.633	508.327	508.358	508.388	508.511	508.633	508.572
62.5	528.707	528.600	528.493	528.416	528.340	528.416	528.493	528.539	528.585	528.217
65.0	548.597	548.322	548.046	548.199	548.352	548.475	548.597	548.567	548.536	547.863
67.5	570.262	570.155	570.048	570.185	570.323	570.308	570.293	570.308	570.323	569.910
70.0	591.926	591.988	592.049	592.172	592.294	592.141	591.988	592.049	592.110	591.957
72.5	607.410	607.410	607.410	607.471	607.533	607.441	607.349	607.410	607.471	607.303
75.0	622.894	622.833	622.771	622.771	622.771	622.741	622.710	622.771	622.832	622.649
77.5	629.932	629.779	629.626	629.748	629.871	629.825	629.779	629.717	629.656	629.641
80.0	636.970	636.725	636.480	636.725	636.970	636.909	636.847	636.664	636.480	636.633
82.5	645.477	645.415	645.354	645.339	645.324	645.354	645.385	645.293	645.201	645.002
85.0	653.983	654.106	654.228	653.953	653.677	653.800	653.922	653.922	653.922	653.371
87.5	654.106	654.136	654.167	654.060	653.953	654.060	654.167	654.167	654.167	653.861
90.0	654.228	654.167	654.106	654.167	654.228	654.320	654.412	654.412	654.412	654.351
92.5	654.106	653.999	653.892	654.014	654.136	654.152	654.167	654.106	654.045	654.152
95.0	653.983	653.830	653.677	653.861	654.044	653.983	653.922	653.800	653.677	653.953
97.5	645.293	645.277	645.262	645.339	645.415	645.385	645.354	645.431	645.507	645.568

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CANDELA TABULATION - (Cont.)

100.0	636.602	636.725	636.847	636.817	636.786	636.786	636.786	637.062	637.337	637.184
102.5	629.595	629.702	629.809	629.763	629.718	629.748	629.779	629.962	630.146	630.024
105.0	622.588	622.680	622.771	622.710	622.649	622.710	622.771	622.863	622.955	622.863
107.5	607.410	607.471	607.533	607.487	607.441	607.487	607.533	607.686	607.839	607.563
110.0	592.232	592.263	592.294	592.263	592.232	592.263	592.294	592.508	592.722	592.263
112.5	570.139	570.170	570.201	570.200	570.200	570.614	571.027	570.813	570.598	570.277
115.0	548.046	548.077	548.107	548.138	548.168	548.964	549.760	549.117	548.474	548.291
117.5	527.820	527.774	527.728	527.728	527.728	528.110	528.493	528.217	527.942	527.804
120.0	507.593	507.471	507.348	507.318	507.287	507.257	507.226	507.318	507.409	507.318
122.5	488.744	488.560	488.376	488.407	488.438	488.392	488.346	488.422	488.499	488.468
125.0	469.894	469.649	469.404	469.496	469.588	469.527	469.465	469.527	469.588	469.619
127.5	455.849	455.650	455.451	455.527	455.604	455.588	455.573	455.619	455.665	455.634
130.0	441.803	441.650	441.497	441.558	441.619	441.650	441.680	441.711	441.742	441.650
132.5	418.578	418.394	418.211	418.134	418.057	418.195	418.333	418.394	418.455	418.470
135.0	395.352	395.138	394.924	394.710	394.495	394.740	394.985	395.077	395.168	395.291
137.5	384.428	384.352	384.275	384.061	383.847	384.046	384.245	384.290	384.336	384.382
140.0	373.504	373.565	373.626	373.412	373.198	373.351	373.504	373.504	373.504	373.473
142.5	360.866	361.004	361.141	360.973	360.805	360.973	361.142	360.989	360.836	360.820
145.0	348.228	348.442	348.656	348.534	348.412	348.596	348.779	348.473	348.167	348.167
147.5	343.975	344.066	344.158	344.204	344.250	344.235	344.220	344.051	343.883	343.898
150.0	339.721	339.691	339.660	339.874	340.088	339.874	339.660	339.630	339.599	339.630
152.5	332.041	331.949	331.857	332.025	332.194	332.010	331.827	331.949	332.072	331.949
155.0	324.360	324.207	324.054	324.177	324.299	324.146	323.993	324.269	324.544	324.269
157.5	316.190	316.175	316.159	316.190	316.221	316.129	316.037	316.160	316.282	316.068
160.0	308.020	308.142	308.264	308.203	308.142	308.112	308.081	308.051	308.020	307.867
162.5	304.317	304.302	304.286	304.317	304.348	304.317	304.287	304.256	304.226	304.164
165.0	300.614	300.461	300.308	300.431	300.553	300.523	300.492	300.462	300.431	300.462
167.5	296.789	296.682	296.575	296.636	296.698	296.621	296.545	296.514	296.484	296.652
170.0	292.964	292.903	292.842	292.842	292.842	292.720	292.597	292.567	292.536	292.842
172.5	289.813	289.859	289.905	289.874	289.843	289.782	289.721	289.721	289.721	289.828
175.0	286.661	286.814	286.967	286.906	286.844	286.844	286.844	286.875	286.906	286.814
177.5	288.283	288.359	288.436	288.405	288.374	288.374	288.374	288.390	288.405	288.359
180.0	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000

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	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088
2.5	288.344	288.390	288.436	288.482	288.528	288.497	288.466	288.436	288.405	288.497
5.0	286.600	286.692	286.783	286.875	286.967	286.906	286.844	286.783	286.722	286.906
7.5	289.354	289.384	289.415	289.369	289.323	289.354	289.384	289.308	289.231	289.369
10.0	292.108	292.077	292.046	291.863	291.679	291.802	291.924	291.832	291.740	291.832
12.5	296.270	296.346	296.422	296.300	296.178	296.239	296.300	296.193	296.086	296.223
15.0	300.431	300.615	300.798	300.737	300.676	300.676	300.676	300.554	300.431	300.615
17.5	304.134	304.210	304.287	304.225	304.164	304.271	304.379	304.210	304.042	304.179
20.0	307.836	307.806	307.775	307.714	307.652	307.867	308.081	307.867	307.652	307.744
22.5	316.037	316.006	315.976	316.037	316.098	316.068	316.037	316.006	315.976	316.022
25.0	324.238	324.207	324.176	324.360	324.544	324.269	323.993	324.146	324.299	324.299
27.5	332.010	331.964	331.918	332.087	332.255	332.071	331.888	332.056	332.225	332.209
30.0	339.782	339.721	339.660	339.813	339.966	339.874	339.782	339.966	340.150	340.119
32.5	344.097	344.112	344.128	344.219	344.311	344.265	344.219	344.235	344.250	344.296
35.0	348.412	348.504	348.595	348.626	348.656	348.656	348.656	348.503	348.350	348.473
37.5	360.774	360.958	361.141	361.156	361.172	361.065	360.958	360.973	360.988	361.049
40.0	373.136	373.412	373.687	373.687	373.687	373.473	373.259	373.443	373.626	373.626
42.5	384.122	384.305	384.489	384.443	384.397	384.336	384.275	384.382	384.489	384.367
45.0	395.107	395.199	395.291	395.199	395.107	395.199	395.291	395.322	395.352	395.107

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CANDELA TABULATION - (Cont.)

47.5	418.486	418.379	418.272	418.409	418.547	418.440	418.333	418.317	418.302	418.256
50.0	441.864	441.558	441.252	441.619	441.986	441.680	441.374	441.313	441.252	441.405
52.5	455.665	455.450	455.236	455.466	455.695	455.557	455.420	455.404	455.389	455.527
55.0	469.465	469.343	469.220	469.312	469.404	469.435	469.465	469.496	469.526	469.649
57.5	488.988	488.927	488.866	488.912	488.958	489.080	489.202	489.095	488.988	489.110
60.0	508.511	508.511	508.511	508.511	508.511	508.725	508.939	508.695	508.450	508.572
62.5	527.850	528.141	528.432	528.263	528.095	528.370	528.646	528.508	528.371	528.447
65.0	547.189	547.771	548.352	548.016	547.679	548.016	548.352	548.322	548.291	548.322
67.5	569.497	569.894	570.292	570.155	570.017	570.048	570.078	570.139	570.201	570.231
70.0	591.804	592.018	592.232	592.294	592.355	592.080	591.804	591.957	592.110	592.141
72.5	607.135	607.288	607.441	607.441	607.441	607.303	607.165	607.272	607.380	607.425
75.0	622.465	622.557	622.649	622.588	622.526	622.526	622.526	622.588	622.649	622.710
77.5	629.626	629.626	629.626	629.687	629.748	629.672	629.595	629.779	629.963	629.809
80.0	636.786	636.694	636.602	636.786	636.970	636.817	636.664	636.970	637.276	636.909
82.5	644.803	644.956	645.109	644.880	644.651	645.018	645.385	645.462	645.538	645.324
85.0	652.820	653.218	653.616	652.974	652.331	653.219	654.106	653.953	653.800	653.739
87.5	653.555	653.708	653.861	653.555	653.249	653.800	654.351	654.244	654.137	654.136
90.0	654.289	654.198	654.106	654.137	654.167	654.381	654.595	654.534	654.473	654.534
92.5	654.259	654.351	654.443	654.274	654.106	654.106	654.106	654.152	654.198	654.289
95.0	654.228	654.504	654.779	654.412	654.044	653.830	653.616	653.769	653.922	654.045
97.5	645.630	645.706	645.783	645.629	645.476	645.369	645.262	645.339	645.415	645.522
100.0	637.031	636.909	636.786	636.847	636.908	636.908	636.908	636.908	636.908	637.000
102.5	629.901	629.840	629.779	629.824	629.870	629.778	629.687	629.702	629.717	629.717
105.0	622.771	622.771	622.771	622.802	622.832	622.649	622.465	622.496	622.526	622.435
107.5	607.288	607.410	607.533	607.517	607.502	607.486	607.471	607.517	607.563	607.425
110.0	591.804	592.049	592.294	592.233	592.171	592.324	592.477	592.539	592.600	592.416
112.5	569.956	570.216	570.476	570.430	570.384	570.338	570.292	570.767	571.241	570.751
115.0	548.107	548.383	548.658	548.628	548.597	548.352	548.107	548.995	549.882	549.087
117.5	527.667	527.896	528.126	528.034	527.942	527.835	527.728	528.110	528.493	528.202
120.0	507.226	507.410	507.593	507.440	507.287	507.318	507.348	507.226	507.103	507.318
122.5	488.438	488.483	488.529	488.499	488.468	488.560	488.652	488.514	488.376	488.545
125.0	469.649	469.557	469.465	469.557	469.649	469.802	469.955	469.802	469.649	469.772
127.5	455.604	455.558	455.512	455.481	455.451	455.619	455.787	455.680	455.573	455.604
130.0	441.558	441.558	441.558	441.405	441.252	441.436	441.619	441.558	441.497	441.436
132.5	418.486	418.333	418.180	418.256	418.333	418.317	418.302	418.226	418.149	418.164
135.0	395.413	395.107	394.801	395.107	395.413	395.199	394.985	394.893	394.801	394.893
137.5	384.428	384.290	384.153	384.306	384.459	384.260	384.061	383.999	383.938	384.107
140.0	373.442	373.473	373.504	373.504	373.504	373.320	373.136	373.106	373.075	373.320
142.5	360.805	360.866	360.927	361.004	361.080	361.019	360.958	360.866	360.774	360.866
145.0	348.167	348.259	348.350	348.503	348.656	348.718	348.779	348.626	348.473	348.412
147.5	343.914	344.005	344.097	344.143	344.189	344.311	344.434	344.296	344.159	344.189
150.0	339.660	339.752	339.844	339.783	339.721	339.905	340.088	339.966	339.844	339.966
152.5	331.827	331.934	332.041	332.102	332.163	332.148	332.132	332.117	332.102	332.117
155.0	323.993	324.116	324.238	324.422	324.605	324.391	324.176	324.268	324.360	324.268
157.5	315.854	315.915	315.976	316.129	316.282	316.144	316.006	316.022	316.037	316.006
160.0	307.714	307.714	307.714	307.836	307.958	307.897	307.836	307.775	307.714	307.745
162.5	304.103	304.073	304.042	304.149	304.256	304.210	304.164	304.210	304.256	304.287
165.0	300.492	300.431	300.370	300.462	300.553	300.523	300.492	300.645	300.798	300.829
167.5	296.820	296.744	296.667	296.682	296.698	296.667	296.637	296.667	296.698	296.789
170.0	293.148	293.056	292.964	292.903	292.842	292.812	292.781	292.689	292.597	292.750
172.5	289.935	289.859	289.782	289.767	289.752	289.736	289.721	289.752	289.782	289.904
175.0	286.722	286.661	286.600	286.631	286.661	286.661	286.661	286.814	286.967	287.059
177.5	288.313	288.283	288.252	288.267	288.283	288.283	288.283	288.359	288.436	288.481
180.0	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000

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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	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088
2.5	288.589	288.512	288.436	288.512	288.589	288.604	288.619	288.635	288.650	288.589
5.0	287.089	286.936	286.783	286.936	287.089	287.120	287.150	287.181	287.212	287.090
7.5	289.507	289.369	289.231	289.399	289.568	289.644	289.721	289.950	290.180	290.027
10.0	291.924	291.802	291.679	291.863	292.046	292.169	292.291	292.720	293.148	292.965
12.5	296.361	296.208	296.055	296.162	296.269	296.346	296.422	296.621	296.820	296.790
15.0	300.798	300.615	300.431	300.462	300.492	300.523	300.553	300.523	300.492	300.615
17.5	304.317	304.225	304.134	304.164	304.195	304.179	304.164	304.241	304.317	304.608
20.0	307.836	307.836	307.836	307.867	307.897	307.836	307.775	307.959	308.142	308.601
22.5	316.068	316.006	315.945	315.976	316.006	315.945	315.884	316.068	316.251	316.419
25.0	324.299	324.177	324.054	324.085	324.115	324.054	323.993	324.177	324.360	324.238
27.5	332.194	332.087	331.980	331.980	331.980	331.888	331.796	331.918	332.041	331.964
30.0	340.088	339.997	339.905	339.875	339.844	339.722	339.599	339.660	339.721	339.691
32.5	344.342	344.281	344.220	344.128	344.036	344.021	344.006	344.082	344.158	344.082
35.0	348.595	348.565	348.534	348.381	348.228	348.320	348.412	348.504	348.595	348.473
37.5	361.111	361.049	360.988	360.973	360.958	360.988	361.019	360.942	360.866	360.820
40.0	373.626	373.534	373.442	373.565	373.687	373.657	373.626	373.381	373.136	373.167
42.5	384.244	384.259	384.275	384.351	384.428	384.321	384.214	384.229	384.244	384.137
45.0	394.862	394.985	395.107	395.138	395.168	394.985	394.801	395.077	395.352	395.107
47.5	418.210	418.256	418.302	418.394	418.486	418.317	418.149	418.363	418.578	418.409
50.0	441.558	441.528	441.497	441.650	441.803	441.650	441.497	441.650	441.803	441.711
52.5	455.665	455.680	455.696	455.650	455.604	455.573	455.543	455.696	455.849	455.803
55.0	469.771	469.833	469.894	469.649	469.404	469.496	469.588	469.741	469.894	469.894
57.5	489.233	489.248	489.264	489.156	489.049	489.065	489.080	488.820	488.560	488.943
60.0	508.694	508.664	508.633	508.664	508.694	508.633	508.572	507.899	507.226	507.991
62.5	528.523	528.477	528.432	528.401	528.370	528.416	528.462	528.110	527.759	528.172
65.0	548.352	548.291	548.230	548.138	548.046	548.199	548.352	548.322	548.291	548.352
67.5	570.262	570.155	570.048	570.139	570.231	570.185	570.139	570.109	570.078	570.200
70.0	592.171	592.018	591.865	592.141	592.416	592.171	591.926	591.896	591.865	592.049
72.5	607.471	607.379	607.288	607.379	607.471	607.303	607.135	607.165	607.196	607.364
75.0	622.771	622.741	622.710	622.618	622.526	622.435	622.343	622.435	622.526	622.679
77.5	629.656	629.672	629.687	629.626	629.564	629.687	629.810	629.718	629.626	629.779
80.0	636.541	636.603	636.664	636.633	636.602	636.939	637.276	637.001	636.725	636.878
82.5	645.109	645.278	645.446	645.385	645.323	645.492	645.660	645.553	645.446	645.706
85.0	653.677	653.953	654.228	654.136	654.044	654.044	654.044	654.106	654.167	654.534
87.5	654.136	654.213	654.289	654.259	654.228	654.197	654.167	654.136	654.106	654.305
90.0	654.595	654.473	654.350	654.381	654.412	654.351	654.289	654.167	654.044	654.075
92.5	654.381	654.213	654.044	654.152	654.259	654.213	654.167	654.029	653.891	653.983
95.0	654.167	653.953	653.738	653.922	654.106	654.075	654.044	653.891	653.738	653.891
97.5	645.630	645.400	645.170	645.232	645.293	645.308	645.323	645.262	645.201	645.262
100.0	637.092	636.847	636.602	636.541	636.480	636.541	636.602	636.633	636.664	636.633
102.5	629.718	629.672	629.626	629.549	629.473	629.610	629.748	629.718	629.687	629.672
105.0	622.343	622.496	622.649	622.557	622.465	622.680	622.894	622.802	622.710	622.710
107.5	607.288	607.288	607.288	607.288	607.288	607.349	607.410	607.441	607.471	607.425
110.0	592.232	592.079	591.926	592.018	592.110	592.018	591.926	592.079	592.232	592.141
112.5	570.262	570.170	570.078	570.201	570.323	570.308	570.292	570.292	570.292	569.940
115.0	548.291	548.261	548.230	548.383	548.536	548.597	548.658	548.505	548.352	547.740
117.5	527.912	527.774	527.636	527.850	528.065	528.034	528.003	527.988	527.973	527.575
120.0	507.532	507.287	507.042	507.318	507.593	507.471	507.348	507.471	507.593	507.410
122.5	488.713	488.575	488.437	488.544	488.652	488.529	488.407	488.499	488.591	488.392
125.0	469.894	469.863	469.832	469.771	469.710	469.588	469.465	469.527	469.588	469.374
127.5	455.634	455.573	455.512	455.573	455.634	455.588	455.542	455.573	455.604	455.389
130.0	441.374	441.283	441.191	441.375	441.558	441.589	441.619	441.619	441.619	441.405

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CANDELA TABULATION - (Cont.)

132.5	418.180	418.027	417.874	418.180	418.486	418.302	418.119	418.164	418.210	418.180
135.0	394.985	394.771	394.556	394.985	395.413	395.016	394.618	394.710	394.801	394.954
137.5	384.275	384.137	383.999	384.168	384.336	384.229	384.122	384.153	384.183	384.198
140.0	373.565	373.504	373.442	373.351	373.259	373.443	373.626	373.596	373.565	373.443
142.5	360.958	360.912	360.866	360.805	360.744	360.835	360.927	360.988	361.050	361.034
145.0	348.350	348.320	348.289	348.259	348.228	348.228	348.228	348.381	348.534	348.626
147.5	344.219	344.097	343.975	344.051	344.128	344.082	344.036	344.158	344.281	344.342
150.0	340.088	339.874	339.660	339.844	340.027	339.936	339.844	339.936	340.027	340.058
152.5	332.132	332.117	332.102	332.102	332.102	332.041	331.980	332.041	332.102	332.117
155.0	324.176	324.360	324.544	324.360	324.176	324.146	324.115	324.146	324.176	324.176
157.5	315.976	316.190	316.404	316.159	315.914	316.266	316.618	316.358	316.098	316.067
160.0	307.775	308.020	308.264	307.958	307.652	308.387	309.121	308.571	308.020	307.959
162.5	304.317	304.363	304.409	304.210	304.011	304.501	304.990	304.623	304.256	304.287
165.0	300.859	300.706	300.553	300.462	300.370	300.615	300.859	300.676	300.492	300.615
167.5	296.881	296.851	296.820	296.637	296.453	296.652	296.851	296.759	296.667	296.667
170.0	292.903	292.995	293.087	292.812	292.536	292.689	292.842	292.842	292.842	292.720
172.5	290.027	289.996	289.966	289.813	289.660	289.751	289.843	289.920	289.996	289.828
175.0	287.150	286.997	286.844	286.814	286.783	286.814	286.844	286.997	287.150	286.936
177.5	288.527	288.451	288.374	288.359	288.344	288.359	288.374	288.451	288.527	288.420
180.0	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000

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	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088
2.5	288.528	288.451	288.375	288.451	288.528	288.589	288.650	288.604	288.558	288.512
5.0	286.967	286.814	286.661	286.814	286.967	287.090	287.212	287.120	287.028	286.936
7.5	289.874	289.798	289.721	289.828	289.935	289.951	289.966	289.905	289.843	289.843
10.0	292.781	292.781	292.781	292.842	292.903	292.812	292.720	292.689	292.658	292.750
12.5	296.759	296.744	296.729	296.728	296.728	296.774	296.820	296.805	296.789	296.682
15.0	300.737	300.707	300.676	300.615	300.553	300.737	300.920	300.920	300.920	300.614
17.5	304.899	304.960	305.021	304.669	304.317	304.700	305.082	304.700	304.317	304.592
20.0	309.060	309.213	309.366	308.724	308.081	308.663	309.244	308.479	307.714	308.571
22.5	316.588	316.634	316.680	316.420	316.160	316.389	316.619	316.358	316.098	316.496
25.0	324.115	324.054	323.993	324.116	324.238	324.116	323.993	324.238	324.482	324.421
27.5	331.888	331.918	331.949	331.934	331.919	331.995	332.072	332.117	332.163	332.209
30.0	339.660	339.783	339.905	339.752	339.599	339.875	340.150	339.997	339.844	339.997
32.5	344.005	344.174	344.342	344.143	343.944	344.082	344.220	344.128	344.036	344.143
35.0	348.350	348.565	348.779	348.534	348.289	348.289	348.289	348.259	348.228	348.289
37.5	360.774	360.988	361.203	360.973	360.744	360.820	360.897	360.789	360.682	360.728
40.0	373.198	373.412	373.626	373.412	373.198	373.351	373.504	373.320	373.136	373.167
42.5	384.030	384.168	384.306	384.214	384.122	384.092	384.061	384.061	384.061	384.045
45.0	394.862	394.924	394.985	395.016	395.046	394.832	394.618	394.802	394.985	394.924
47.5	418.241	418.302	418.364	418.256	418.149	418.042	417.935	418.042	418.149	418.134
50.0	441.619	441.681	441.742	441.497	441.252	441.252	441.252	441.283	441.313	441.344
52.5	455.757	455.726	455.696	455.650	455.604	455.619	455.634	455.527	455.420	455.404
55.0	469.894	469.772	469.649	469.802	469.955	469.986	470.016	469.771	469.526	469.465
57.5	489.325	488.942	488.560	488.514	488.468	488.560	488.652	488.575	488.498	488.361
60.0	508.756	508.113	507.470	507.226	506.981	507.134	507.287	507.379	507.470	507.256
62.5	528.585	528.248	527.911	527.774	527.636	527.789	527.942	527.957	527.972	527.835
65.0	548.413	548.383	548.352	548.322	548.291	548.444	548.597	548.536	548.474	548.413
67.5	570.323	570.323	570.323	570.231	570.140	570.262	570.384	570.384	570.384	570.308
70.0	592.232	592.263	592.294	592.141	591.988	592.080	592.171	592.233	592.294	592.202
72.5	607.532	607.487	607.441	607.410	607.380	607.410	607.441	607.487	607.533	607.425
75.0	622.832	622.710	622.588	622.680	622.771	622.741	622.710	622.741	622.771	622.649
77.5	629.932	629.886	629.840	629.809	629.779	629.779	629.779	629.886	629.993	629.809

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80.0	637.031	637.062	637.092	636.939	636.786	636.817	636.847	637.031	637.214	636.970
82.5	645.966	645.783	645.599	645.783	645.966	645.935	645.905	645.920	645.935	645.935
85.0	654.901	654.504	654.106	654.626	655.146	655.054	654.962	654.809	654.656	654.901
87.5	654.504	654.335	654.167	654.488	654.810	654.733	654.656	654.626	654.595	654.672
90.0	654.106	654.167	654.228	654.351	654.473	654.412	654.350	654.442	654.534	654.442
92.5	654.075	654.060	654.045	654.182	654.320	653.830	653.341	653.432	653.524	653.478
95.0	654.044	653.953	653.861	654.014	654.167	653.249	652.331	652.423	652.514	652.514
97.5	645.323	645.354	645.385	645.339	645.293	644.911	644.528	644.604	644.681	644.604
100.0	636.602	636.755	636.908	636.664	636.419	636.572	636.725	636.786	636.847	636.694
102.5	629.656	629.763	629.870	629.671	629.473	629.580	629.687	629.687	629.687	629.779
105.0	622.710	622.771	622.832	622.679	622.526	622.588	622.649	622.588	622.526	622.863
107.5	607.380	607.471	607.563	607.379	607.196	607.349	607.502	607.471	607.441	607.609
110.0	592.049	592.172	592.294	592.080	591.865	592.110	592.355	592.355	592.355	592.355
112.5	569.589	569.650	569.711	569.619	569.527	569.726	569.925	569.910	569.895	569.879
115.0	547.128	547.128	547.128	547.159	547.189	547.342	547.495	547.465	547.434	547.404
117.5	527.177	527.575	527.973	528.003	528.034	528.003	527.973	528.018	528.064	528.095
120.0	507.226	508.022	508.817	508.848	508.878	508.664	508.450	508.572	508.694	508.786
122.5	488.193	488.621	489.050	489.111	489.172	489.065	488.958	488.957	488.957	489.034
125.0	469.159	469.221	469.282	469.374	469.465	469.465	469.465	469.343	469.220	469.282
127.5	455.175	455.328	455.481	455.512	455.542	455.512	455.481	455.359	455.236	455.267
130.0	441.191	441.436	441.680	441.650	441.619	441.558	441.497	441.375	441.252	441.252
132.5	418.149	418.302	418.455	418.470	418.486	418.363	418.241	418.165	418.088	418.088
135.0	395.107	395.169	395.230	395.291	395.352	395.169	394.985	394.955	394.924	394.924
137.5	384.214	384.275	384.336	384.306	384.275	384.183	384.092	384.137	384.183	384.229
140.0	373.320	373.381	373.442	373.320	373.198	373.198	373.198	373.320	373.442	373.534
142.5	361.019	361.004	360.988	360.958	360.927	360.912	360.897	360.912	360.927	360.973
145.0	348.718	348.626	348.534	348.595	348.656	348.626	348.595	348.504	348.412	348.412
147.5	344.403	344.265	344.128	344.112	344.097	344.128	344.158	344.189	344.220	344.143
150.0	340.088	339.905	339.721	339.630	339.538	339.630	339.721	339.874	340.027	339.874
152.5	332.132	332.010	331.888	331.888	331.888	331.873	331.857	331.995	332.133	332.025
155.0	324.176	324.115	324.054	324.146	324.238	324.116	323.993	324.116	324.238	324.177
157.5	316.037	316.067	316.098	316.022	315.945	316.328	316.710	316.817	316.925	316.481
160.0	307.897	308.020	308.142	307.897	307.652	308.540	309.427	309.519	309.611	308.785
162.5	304.317	304.363	304.409	304.348	304.286	304.638	304.990	305.097	305.205	304.807
165.0	300.737	300.707	300.676	300.798	300.920	300.737	300.553	300.676	300.798	300.829
167.5	296.667	296.514	296.361	296.361	296.361	296.591	296.820	296.759	296.698	296.728
170.0	292.597	292.322	292.046	291.924	291.802	292.445	293.087	292.842	292.597	292.628
172.5	289.660	289.491	289.323	289.384	289.446	289.660	289.874	289.889	289.905	289.859
175.0	286.722	286.661	286.600	286.845	287.089	286.875	286.661	286.937	287.212	287.090
177.5	288.313	288.283	288.252	288.374	288.497	288.390	288.283	288.420	288.558	288.497
180.0	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000

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	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088
2.5	288.466	288.420	288.375	288.390	288.405	288.528	288.650	288.543	288.436	288.482
5.0	286.844	286.753	286.661	286.692	286.722	286.967	287.212	286.998	286.783	286.875
7.5	289.843	289.813	289.782	289.706	289.629	289.889	290.150	289.996	289.843	289.904
10.0	292.842	292.873	292.903	292.720	292.536	292.812	293.087	292.995	292.903	292.934
12.5	296.575	296.682	296.790	296.652	296.514	296.682	296.851	296.789	296.728	296.820
15.0	300.308	300.492	300.676	300.584	300.492	300.553	300.614	300.584	300.553	300.706
17.5	304.868	304.623	304.379	304.577	304.776	304.577	304.378	304.730	305.082	304.776
20.0	309.427	308.754	308.081	308.571	309.060	308.601	308.142	308.877	309.611	308.846
22.5	316.894	316.465	316.037	316.404	316.771	316.465	316.159	316.603	317.047	316.588
25.0	324.360	324.177	323.993	324.238	324.482	324.329	324.176	324.329	324.482	324.329

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CANDELA TABULATION - (Cont.)

27.5	332.255	332.148	332.041	332.132	332.224	332.041	331.857	331.949	332.041	332.041
30.0	340.150	340.119	340.088	340.027	339.966	339.752	339.538	339.569	339.599	339.752
32.5	344.250	344.327	344.403	344.327	344.250	344.174	344.097	343.990	343.883	344.051
35.0	348.350	348.534	348.718	348.626	348.534	348.595	348.656	348.412	348.167	348.351
37.5	360.774	360.912	361.050	361.034	361.019	361.004	360.988	360.851	360.713	360.790
40.0	373.198	373.290	373.381	373.443	373.504	373.412	373.320	373.290	373.259	373.229
42.5	384.030	384.152	384.275	384.275	384.275	384.214	384.153	384.107	384.061	384.168
45.0	394.862	395.015	395.168	395.107	395.046	395.016	394.985	394.924	394.862	395.107
47.5	418.118	418.271	418.424	418.317	418.210	418.195	418.180	418.164	418.149	418.272
50.0	441.374	441.527	441.680	441.527	441.374	441.374	441.374	441.405	441.436	441.436
52.5	455.389	455.481	455.573	455.588	455.603	455.511	455.420	455.450	455.481	455.558
55.0	469.404	469.435	469.465	469.649	469.832	469.649	469.465	469.496	469.526	469.679
57.5	488.223	488.376	488.529	488.606	488.682	488.544	488.407	488.452	488.498	488.498
60.0	507.042	507.318	507.593	507.563	507.532	507.440	507.348	507.409	507.470	507.317
62.5	527.697	527.789	527.881	528.217	528.554	528.172	527.789	527.865	527.942	527.835
65.0	548.352	548.260	548.168	548.872	549.576	548.903	548.230	548.322	548.413	548.352
67.5	570.231	570.262	570.292	570.721	571.149	570.797	570.446	570.415	570.384	570.338
70.0	592.110	592.263	592.416	592.569	592.722	592.692	592.661	592.508	592.355	592.325
72.5	607.318	607.410	607.502	607.655	607.808	607.670	607.533	607.579	607.625	607.502
75.0	622.526	622.557	622.588	622.741	622.894	622.649	622.404	622.649	622.894	622.680
77.5	629.626	629.702	629.779	629.825	629.871	629.748	629.626	629.779	629.932	629.794
80.0	636.725	636.848	636.970	636.909	636.847	636.847	636.847	636.909	636.970	636.909
82.5	645.936	645.936	645.936	645.874	645.813	645.798	645.783	645.936	646.089	645.905
85.0	655.146	655.024	654.901	654.840	654.779	654.749	654.718	654.963	655.207	654.901
87.5	654.748	654.641	654.534	654.611	654.687	654.626	654.565	654.580	654.595	654.457
90.0	654.350	654.259	654.167	654.381	654.595	654.504	654.412	654.198	653.983	654.014
92.5	653.432	653.402	653.372	653.402	653.433	653.402	653.372	653.310	653.249	653.295
95.0	652.514	652.545	652.576	652.423	652.270	652.301	652.331	652.423	652.514	652.576
97.5	644.528	644.604	644.681	644.635	644.589	644.604	644.620	644.574	644.528	644.574
100.0	636.541	636.664	636.786	636.847	636.908	636.908	636.908	636.725	636.541	636.572
102.5	629.871	629.809	629.748	629.825	629.901	629.993	630.085	629.993	629.901	629.886
105.0	623.200	622.955	622.710	622.802	622.894	623.078	623.261	623.261	623.261	623.200
107.5	607.778	607.533	607.288	607.349	607.410	607.609	607.808	607.823	607.839	607.762
110.0	592.355	592.110	591.865	591.896	591.926	592.141	592.355	592.386	592.416	592.324
112.5	569.864	569.711	569.558	569.558	569.558	569.757	569.956	569.925	569.895	569.925
115.0	547.373	547.312	547.250	547.220	547.189	547.373	547.556	547.465	547.373	547.526
117.5	528.126	528.049	527.972	528.003	528.034	528.049	528.064	528.080	528.095	528.049
120.0	508.878	508.786	508.694	508.786	508.878	508.725	508.572	508.695	508.817	508.572
122.5	489.111	489.095	489.080	489.172	489.264	489.065	488.866	488.942	489.019	488.973
125.0	469.343	469.404	469.465	469.557	469.649	469.404	469.159	469.190	469.220	469.373
127.5	455.298	455.435	455.573	455.603	455.634	455.450	455.267	455.236	455.206	455.313
130.0	441.252	441.466	441.680	441.650	441.619	441.497	441.374	441.283	441.191	441.252
132.5	418.088	418.317	418.547	418.501	418.455	418.287	418.118	418.180	418.241	418.210
135.0	394.924	395.169	395.413	395.352	395.291	395.077	394.862	395.077	395.291	395.169
137.5	384.275	384.290	384.306	384.244	384.183	384.122	384.061	384.214	384.367	384.275
140.0	373.626	373.412	373.198	373.137	373.075	373.167	373.259	373.351	373.442	373.381
142.5	361.019	360.943	360.866	360.866	360.866	360.789	360.713	360.881	361.049	360.988
145.0	348.412	348.473	348.534	348.595	348.656	348.412	348.167	348.412	348.656	348.595
147.5	344.067	344.204	344.342	344.357	344.372	344.250	344.128	344.158	344.189	344.250
150.0	339.721	339.936	340.150	340.119	340.088	340.088	340.088	339.905	339.721	339.905
152.5	331.918	332.133	332.347	332.332	332.316	332.301	332.285	332.148	332.010	332.025
155.0	324.115	324.330	324.544	324.544	324.544	324.513	324.482	324.391	324.299	324.146
157.5	316.037	316.098	316.160	316.175	316.190	316.266	316.343	316.159	315.976	315.899
160.0	307.958	307.867	307.775	307.806	307.836	308.020	308.203	307.928	307.652	307.652
162.5	304.409	304.256	304.103	304.195	304.287	304.332	304.378	304.225	304.072	304.118
165.0	300.859	300.645	300.431	300.584	300.737	300.645	300.553	300.523	300.492	300.584

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167.5	296.759	296.682	296.606	296.637	296.667	296.713	296.759	296.713	296.667	296.759
170.0	292.658	292.720	292.781	292.689	292.597	292.781	292.964	292.903	292.842	292.934
172.5	289.813	289.752	289.691	289.782	289.874	289.950	290.027	289.904	289.782	289.859
175.0	286.967	286.784	286.600	286.875	287.150	287.120	287.089	286.906	286.722	286.783
177.5	288.436	288.344	288.252	288.390	288.527	288.512	288.497	288.405	288.313	288.344
180.0	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000

Vert. Angles	Horizontal Angles									
	275.0	277.5	280.0	282.5	285.0	287.5	290.0	292.5	295.0	297.5
0.0	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088
2.5	288.528	288.466	288.405	288.482	288.558	288.528	288.497	288.512	288.528	288.512
5.0	286.967	286.845	286.722	286.875	287.028	286.967	286.906	286.937	286.967	286.937
7.5	289.966	289.813	289.660	289.859	290.058	289.996	289.935	289.996	290.058	290.027
10.0	292.964	292.781	292.597	292.842	293.087	293.026	292.964	293.056	293.148	293.118
12.5	296.912	296.789	296.667	296.682	296.698	296.774	296.851	296.912	296.973	296.866
15.0	300.859	300.798	300.737	300.523	300.308	300.523	300.737	300.768	300.798	300.615
17.5	304.470	304.730	304.991	304.531	304.072	304.516	304.960	304.684	304.409	304.669
20.0	308.081	308.663	309.244	308.540	307.836	308.509	309.182	308.601	308.020	308.724
22.5	316.129	316.481	316.833	316.419	316.006	316.373	316.741	316.465	316.190	316.588
25.0	324.176	324.299	324.421	324.299	324.176	324.238	324.299	324.330	324.360	324.452
27.5	332.041	332.163	332.286	332.087	331.888	332.056	332.225	332.240	332.255	332.148
30.0	339.905	340.028	340.150	339.875	339.599	339.875	340.150	340.150	340.150	339.844
32.5	344.220	344.266	344.312	344.235	344.159	344.189	344.220	344.311	344.403	344.281
35.0	348.534	348.504	348.473	348.596	348.718	348.504	348.289	348.473	348.656	348.718
37.5	360.866	360.881	360.897	360.943	360.989	360.958	360.927	361.004	361.080	361.019
40.0	373.198	373.259	373.320	373.290	373.259	373.412	373.565	373.535	373.504	373.320
42.5	384.275	384.214	384.153	384.183	384.214	384.260	384.306	384.229	384.153	384.061
45.0	395.352	395.169	394.985	395.077	395.168	395.107	395.046	394.924	394.801	394.801
47.5	418.394	418.256	418.119	418.241	418.363	418.394	418.425	418.241	418.057	418.103
50.0	441.436	441.344	441.252	441.405	441.558	441.681	441.803	441.558	441.313	441.405
52.5	455.634	455.588	455.542	455.634	455.726	455.695	455.665	455.558	455.451	455.558
55.0	469.832	469.832	469.832	469.863	469.894	469.710	469.526	469.557	469.588	469.710
57.5	488.498	488.514	488.529	488.499	488.468	488.514	488.560	488.514	488.468	488.483
60.0	507.164	507.195	507.226	507.134	507.042	507.318	507.593	507.471	507.348	507.256
62.5	527.728	528.095	528.462	528.110	527.758	527.896	528.034	527.972	527.911	527.865
65.0	548.291	548.995	549.698	549.086	548.474	548.474	548.474	548.474	548.474	548.474
67.5	570.293	570.644	570.996	570.705	570.415	570.338	570.262	570.307	570.353	570.369
70.0	592.294	592.294	592.294	592.325	592.355	592.202	592.049	592.141	592.232	592.263
72.5	607.380	607.380	607.380	607.471	607.563	607.502	607.441	607.502	607.563	607.517
75.0	622.465	622.465	622.465	622.618	622.771	622.802	622.832	622.863	622.894	622.772
77.5	629.656	629.626	629.595	629.733	629.871	629.947	630.023	630.054	630.085	629.978
80.0	636.847	636.786	636.725	636.848	636.970	637.092	637.214	637.245	637.276	637.184
82.5	645.721	645.813	645.905	645.951	645.997	645.982	645.966	646.012	646.058	646.043
85.0	654.595	654.840	655.085	655.055	655.024	654.871	654.718	654.779	654.840	654.901
87.5	654.320	654.503	654.687	654.611	654.534	654.519	654.504	654.473	654.442	654.595
90.0	654.044	654.167	654.289	654.167	654.044	654.167	654.289	654.167	654.044	654.289
92.5	653.341	653.417	653.494	653.432	653.371	653.371	653.371	653.341	653.310	653.417
95.0	652.637	652.668	652.698	652.698	652.698	652.576	652.453	652.515	652.576	652.545
97.5	644.620	644.681	644.742	644.757	644.773	644.696	644.620	644.696	644.773	644.681
100.0	636.602	636.694	636.786	636.817	636.847	636.817	636.786	636.878	636.970	636.817
102.5	629.870	629.962	630.054	629.947	629.840	629.824	629.809	629.809	629.810	629.672
105.0	623.138	623.230	623.322	623.077	622.832	622.832	622.832	622.741	622.649	622.527
107.5	607.685	607.701	607.716	607.532	607.349	607.333	607.318	607.349	607.380	607.380
110.0	592.232	592.171	592.110	591.988	591.865	591.835	591.804	591.957	592.110	592.233
112.5	569.956	569.833	569.711	569.650	569.589	569.604	569.619	569.619	569.619	569.772

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CANDELA TABULATION - (Cont.)

115.0	547.679	547.496	547.312	547.312	547.312	547.373	547.434	547.281	547.128	547.312
117.5	528.003	527.911	527.820	527.942	528.065	528.080	528.095	528.019	527.942	528.018
120.0	508.327	508.327	508.327	508.572	508.817	508.787	508.756	508.756	508.756	508.725
122.5	488.927	488.850	488.774	488.881	488.988	488.973	488.958	489.080	489.203	489.034
125.0	469.526	469.373	469.220	469.190	469.159	469.159	469.159	469.404	469.649	469.343
127.5	455.420	455.450	455.481	455.374	455.267	455.297	455.328	455.389	455.451	455.298
130.0	441.313	441.528	441.742	441.558	441.374	441.436	441.497	441.375	441.252	441.252
132.5	418.180	418.333	418.486	418.302	418.118	418.241	418.364	418.348	418.333	418.241
135.0	395.046	395.138	395.230	395.046	394.862	395.046	395.230	395.322	395.413	395.230
137.5	384.183	384.244	384.306	384.137	383.969	384.137	384.306	384.321	384.336	384.306
140.0	373.320	373.351	373.381	373.228	373.075	373.228	373.381	373.320	373.259	373.382
142.5	360.927	360.881	360.835	360.820	360.805	360.927	361.050	360.897	360.744	360.912
145.0	348.534	348.412	348.289	348.412	348.534	348.626	348.718	348.473	348.228	348.442
147.5	344.311	344.204	344.097	344.189	344.281	344.342	344.403	344.281	344.158	344.250
150.0	340.088	339.997	339.905	339.966	340.027	340.058	340.088	340.088	340.088	340.058
152.5	332.041	332.041	332.041	332.117	332.194	332.239	332.285	332.178	332.071	332.194
155.0	323.993	324.085	324.176	324.268	324.360	324.421	324.482	324.268	324.054	324.330
157.5	315.823	315.899	315.976	316.037	316.098	316.159	316.220	316.435	316.649	316.848
160.0	307.652	307.714	307.775	307.806	307.836	307.897	307.958	308.601	309.244	309.366
162.5	304.164	304.103	304.042	304.179	304.317	304.256	304.195	304.562	304.929	305.036
165.0	300.676	300.492	300.308	300.553	300.798	300.615	300.431	300.523	300.614	300.706
167.5	296.851	296.652	296.453	296.636	296.820	296.790	296.759	296.774	296.789	296.774
170.0	293.026	292.812	292.597	292.720	292.842	292.965	293.087	293.026	292.964	292.842
172.5	289.935	289.813	289.690	289.782	289.874	289.905	289.935	289.920	289.904	289.782
175.0	286.844	286.814	286.783	286.845	286.906	286.845	286.783	286.814	286.844	286.722
177.5	288.374	288.359	288.344	288.374	288.405	288.374	288.344	288.359	288.374	288.313
180.0	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000

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	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088
2.5	288.497	288.528	288.558	288.528	288.497	288.436	288.375	288.405	288.436	288.482
5.0	286.906	286.967	287.028	286.967	286.906	286.784	286.661	286.722	286.783	286.875
7.5	289.997	289.966	289.935	289.874	289.813	289.736	289.660	289.813	289.966	289.721
10.0	293.087	292.965	292.842	292.781	292.720	292.689	292.658	292.903	293.148	292.567
12.5	296.759	296.713	296.667	296.667	296.667	296.591	296.514	296.637	296.759	296.575
15.0	300.431	300.462	300.492	300.553	300.614	300.492	300.370	300.370	300.370	300.584
17.5	304.929	304.638	304.348	304.623	304.898	304.853	304.807	304.470	304.134	304.210
20.0	309.427	308.815	308.203	308.693	309.182	309.213	309.244	308.571	307.897	307.836
22.5	316.986	316.649	316.312	316.435	316.557	316.588	316.619	316.328	316.037	316.083
25.0	324.544	324.483	324.421	324.177	323.932	323.963	323.993	324.085	324.176	324.329
27.5	332.041	332.133	332.224	332.010	331.796	331.888	331.980	331.964	331.949	332.086
30.0	339.538	339.783	340.027	339.844	339.660	339.813	339.966	339.844	339.721	339.844
32.5	344.159	344.281	344.403	344.250	344.097	344.189	344.281	344.204	344.128	344.204
35.0	348.779	348.779	348.779	348.657	348.534	348.565	348.595	348.565	348.534	348.565
37.5	360.958	361.004	361.050	360.942	360.835	360.881	360.927	360.912	360.897	360.881
40.0	373.136	373.228	373.320	373.228	373.136	373.198	373.259	373.259	373.259	373.198
42.5	383.969	384.061	384.153	384.107	384.061	384.107	384.153	384.199	384.245	384.214
45.0	394.801	394.893	394.985	394.985	394.985	395.016	395.046	395.138	395.230	395.230
47.5	418.149	418.149	418.149	418.256	418.364	418.256	418.149	418.333	418.517	418.364
50.0	441.497	441.405	441.313	441.528	441.742	441.497	441.252	441.528	441.803	441.497
52.5	455.665	455.649	455.634	455.757	455.879	455.604	455.328	455.466	455.604	455.389
55.0	469.832	469.894	469.955	469.986	470.016	469.710	469.404	469.404	469.404	469.282
57.5	488.498	488.605	488.713	488.651	488.590	488.850	489.111	488.805	488.499	488.682
60.0	507.164	507.317	507.470	507.317	507.164	507.991	508.817	508.205	507.593	508.083

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CANDELA TABULATION - (Cont.)

62.5	527.819	527.850	527.881	527.850	527.819	528.171	528.524	528.325	528.126	528.294
65.0	548.474	548.383	548.291	548.383	548.474	548.352	548.230	548.444	548.658	548.505
67.5	570.384	570.323	570.262	570.399	570.537	570.354	570.170	570.247	570.323	570.247
70.0	592.294	592.263	592.232	592.416	592.600	592.355	592.110	592.049	591.988	591.988
72.5	607.472	607.456	607.441	607.533	607.625	607.563	607.502	607.380	607.257	607.334
75.0	622.649	622.649	622.649	622.649	622.649	622.772	622.894	622.710	622.526	622.679
77.5	629.871	629.932	629.993	629.886	629.779	629.901	630.024	629.962	629.901	629.916
80.0	637.092	637.215	637.337	637.123	636.908	637.031	637.153	637.215	637.276	637.154
82.5	646.027	646.043	646.058	645.737	645.415	645.752	646.089	645.859	645.630	645.538
85.0	654.962	654.871	654.779	654.351	653.922	654.473	655.024	654.504	653.983	653.922
87.5	654.748	654.702	654.657	654.381	654.106	654.320	654.534	654.335	654.136	654.090
90.0	654.534	654.534	654.534	654.412	654.289	654.167	654.044	654.167	654.289	654.259
92.5	653.524	653.907	654.289	654.228	654.167	654.121	654.075	654.136	654.198	654.182
95.0	652.514	653.279	654.044	654.044	654.044	654.075	654.106	654.106	654.106	654.106
97.5	644.589	645.063	645.538	645.461	645.385	645.431	645.477	645.431	645.385	645.324
100.0	636.664	636.848	637.031	636.878	636.725	636.786	636.847	636.756	636.664	636.542
102.5	629.534	629.656	629.779	629.718	629.657	629.672	629.687	629.733	629.779	629.733
105.0	622.404	622.465	622.526	622.557	622.588	622.557	622.526	622.710	622.894	622.925
107.5	607.380	607.349	607.318	607.380	607.441	607.364	607.288	607.364	607.441	607.426
110.0	592.355	592.233	592.110	592.202	592.294	592.172	592.049	592.019	591.988	591.927
112.5	569.925	569.833	569.742	569.833	569.925	569.895	569.864	570.017	570.170	570.170
115.0	547.495	547.434	547.373	547.465	547.556	547.618	547.679	548.016	548.352	548.413
117.5	528.095	528.080	528.065	528.049	528.034	527.728	527.422	527.590	527.758	527.804
120.0	508.694	508.725	508.756	508.634	508.511	507.838	507.164	507.164	507.164	507.195
122.5	488.866	488.958	489.050	488.973	488.897	488.514	488.131	488.162	488.192	488.254
125.0	469.037	469.190	469.343	469.313	469.282	469.190	469.098	469.159	469.220	469.312
127.5	455.145	455.282	455.420	455.328	455.237	455.191	455.145	455.297	455.450	455.496
130.0	441.252	441.375	441.497	441.344	441.191	441.191	441.191	441.436	441.680	441.680
132.5	418.149	418.195	418.241	418.134	418.027	418.164	418.302	418.271	418.241	418.317
135.0	395.046	395.016	394.985	394.924	394.862	395.138	395.413	395.107	394.801	394.954
137.5	384.275	384.229	384.183	384.168	384.152	384.305	384.459	384.229	384.000	384.168
140.0	373.504	373.443	373.381	373.412	373.442	373.473	373.504	373.351	373.198	373.382
142.5	361.080	361.019	360.958	360.988	361.019	360.958	360.897	360.866	360.836	360.851
145.0	348.656	348.595	348.534	348.565	348.595	348.442	348.289	348.381	348.473	348.320
147.5	344.342	344.235	344.128	344.219	344.311	344.265	344.220	344.266	344.312	344.143
150.0	340.027	339.874	339.721	339.874	340.027	340.089	340.150	340.150	340.150	339.966
152.5	332.316	332.117	331.918	331.995	332.071	332.148	332.225	332.255	332.286	332.224
155.0	324.605	324.360	324.115	324.115	324.115	324.207	324.299	324.360	324.421	324.483
157.5	317.047	316.465	315.884	315.960	316.037	316.144	316.251	316.159	316.068	316.542
160.0	309.488	308.570	307.652	307.805	307.958	308.081	308.203	307.959	307.714	308.601
162.5	305.143	304.699	304.256	304.332	304.409	304.439	304.470	304.378	304.287	304.669
165.0	300.798	300.829	300.859	300.859	300.859	300.798	300.737	300.798	300.859	300.737
167.5	296.759	296.529	296.300	296.300	296.300	296.499	296.698	296.835	296.973	296.927
170.0	292.720	292.230	291.740	291.740	291.740	292.199	292.658	292.873	293.087	293.118
172.5	289.660	289.507	289.354	289.369	289.384	289.614	289.843	289.904	289.966	289.996
175.0	286.600	286.784	286.967	286.998	287.028	287.028	287.028	286.936	286.844	286.875
177.5	288.252	288.344	288.436	288.451	288.466	288.466	288.466	288.420	288.374	288.390
180.0	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000

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	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088	290.088
2.5	288.528	288.451	288.375	288.420	288.466	288.543	288.619	288.589	288.558	288.558
5.0	286.967	286.814	286.661	286.753	286.844	286.997	287.150	287.089	287.028	287.028
7.5	289.476	289.354	289.232	289.338	289.445	289.476	289.507	289.491	289.476	289.491

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10.0	291.985	291.894	291.802	291.924	292.046	291.955	291.863	291.894	291.924	291.955
12.5	296.392	296.331	296.270	296.269	296.269	296.193	296.117	296.193	296.269	296.254
15.0	300.798	300.768	300.737	300.615	300.492	300.431	300.370	300.492	300.614	300.553
17.5	304.287	304.241	304.195	304.133	304.072	304.118	304.164	304.256	304.348	304.332
20.0	307.775	307.714	307.652	307.652	307.652	307.805	307.958	308.020	308.081	308.112
22.5	316.129	316.037	315.945	316.006	316.067	316.113	316.159	316.159	316.160	316.175
25.0	324.482	324.360	324.238	324.360	324.482	324.421	324.360	324.299	324.238	324.238
27.5	332.224	332.102	331.980	332.010	332.041	332.132	332.224	332.148	332.072	332.056
30.0	339.966	339.844	339.721	339.660	339.599	339.844	340.088	339.997	339.905	339.875
32.5	344.281	344.189	344.097	343.990	343.883	344.021	344.158	344.235	344.312	344.250
35.0	348.595	348.534	348.473	348.320	348.167	348.198	348.228	348.473	348.718	348.626
37.5	360.866	360.881	360.897	360.774	360.652	360.698	360.744	360.851	360.958	360.958
40.0	373.136	373.228	373.320	373.228	373.136	373.198	373.259	373.229	373.198	373.290
42.5	384.183	384.214	384.244	384.214	384.183	384.244	384.306	384.306	384.306	384.290
45.0	395.230	395.199	395.168	395.199	395.230	395.291	395.352	395.383	395.413	395.291
47.5	418.211	418.348	418.486	418.455	418.425	418.455	418.486	418.532	418.578	418.455
50.0	441.191	441.497	441.803	441.711	441.619	441.619	441.619	441.681	441.742	441.620
52.5	455.175	455.405	455.634	455.680	455.726	455.619	455.512	455.542	455.573	455.650
55.0	469.159	469.312	469.465	469.649	469.832	469.618	469.404	469.404	469.404	469.680
57.5	488.866	488.973	489.080	489.202	489.325	489.202	489.080	489.111	489.141	489.187
60.0	508.572	508.633	508.694	508.756	508.817	508.787	508.756	508.817	508.878	508.695
62.5	528.462	528.447	528.431	528.477	528.524	528.524	528.524	528.646	528.768	528.569
65.0	548.352	548.260	548.168	548.199	548.230	548.261	548.291	548.475	548.658	548.444
67.5	570.170	570.124	570.078	570.155	570.231	570.246	570.262	570.353	570.445	570.338
70.0	591.988	591.988	591.988	592.110	592.232	592.232	592.232	592.232	592.232	592.232
72.5	607.410	607.395	607.380	607.410	607.441	607.486	607.532	607.502	607.471	607.425
75.0	622.832	622.802	622.771	622.710	622.649	622.741	622.832	622.771	622.710	622.618
77.5	629.932	629.855	629.779	629.656	629.534	629.672	629.809	629.779	629.748	629.656
80.0	637.031	636.909	636.786	636.603	636.419	636.603	636.786	636.786	636.786	636.694
82.5	645.446	645.400	645.354	645.216	645.079	645.232	645.385	645.431	645.477	645.400
85.0	653.861	653.892	653.922	653.830	653.738	653.861	653.983	654.075	654.167	654.106
87.5	654.045	654.090	654.136	654.136	654.136	654.197	654.259	654.167	654.075	654.182
90.0	654.228	654.289	654.350	654.442	654.534	654.534	654.534	654.259	653.983	654.259
92.5	654.167	654.136	654.106	654.243	654.381	654.381	654.381	654.213	654.045	654.090
95.0	654.106	653.984	653.861	654.045	654.228	654.228	654.228	654.167	654.106	653.922
97.5	645.263	645.263	645.263	645.431	645.599	645.538	645.477	645.553	645.630	645.446
100.0	636.419	636.542	636.664	636.817	636.970	636.848	636.725	636.939	637.153	636.970
102.5	629.687	629.595	629.504	629.718	629.932	629.810	629.687	629.779	629.871	629.763
105.0	622.955	622.649	622.343	622.619	622.894	622.772	622.649	622.619	622.588	622.557
107.5	607.410	607.318	607.227	607.288	607.349	607.364	607.380	607.517	607.655	607.533
110.0	591.865	591.988	592.110	591.957	591.804	591.957	592.110	592.416	592.722	592.508
112.5	570.170	570.185	570.201	570.063	569.925	570.017	570.109	570.751	571.394	570.843
115.0	548.474	548.383	548.291	548.169	548.046	548.077	548.107	549.087	550.066	549.179
117.5	527.850	527.804	527.759	527.682	527.605	527.636	527.667	528.110	528.554	528.202
120.0	507.226	507.226	507.226	507.195	507.164	507.195	507.226	507.134	507.042	507.226
122.5	488.315	488.361	488.407	488.361	488.315	488.422	488.529	488.407	488.284	488.422
125.0	469.404	469.496	469.588	469.527	469.465	469.649	469.832	469.679	469.526	469.618
127.5	455.542	455.512	455.481	455.542	455.604	455.695	455.787	455.695	455.603	455.588
130.0	441.680	441.527	441.374	441.558	441.742	441.742	441.742	441.711	441.680	441.558
132.5	418.394	418.241	418.088	418.256	418.425	418.318	418.211	418.272	418.333	418.379
135.0	395.107	394.954	394.801	394.954	395.107	394.893	394.679	394.832	394.985	395.199
137.5	384.336	384.260	384.183	384.214	384.244	384.107	383.969	384.137	384.306	384.275
140.0	373.565	373.565	373.565	373.473	373.381	373.320	373.259	373.443	373.626	373.351
142.5	360.866	360.943	361.019	361.050	361.080	361.019	360.958	360.973	360.988	360.896
145.0	348.167	348.320	348.473	348.626	348.779	348.718	348.656	348.503	348.350	348.442
147.5	343.975	344.112	344.250	344.220	344.189	344.174	344.158	344.173	344.189	344.173

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CANDELA TABULATION - (Cont.)

150.0	339.782	339.905	340.027	339.813	339.599	339.630	339.660	339.844	340.027	339.905
152.5	332.163	332.194	332.224	332.041	331.857	331.903	331.949	332.041	332.133	332.102
155.0	324.544	324.483	324.421	324.268	324.115	324.177	324.238	324.238	324.238	324.299
157.5	317.016	316.588	316.159	316.083	316.006	316.037	316.068	316.022	315.976	316.007
160.0	309.488	308.693	307.897	307.897	307.897	307.897	307.897	307.806	307.714	307.714
162.5	305.051	304.699	304.348	304.286	304.225	304.302	304.378	304.348	304.317	304.271
165.0	300.614	300.706	300.798	300.676	300.553	300.706	300.859	300.890	300.920	300.829
167.5	296.881	296.912	296.943	296.835	296.728	296.851	296.973	296.897	296.820	296.790
170.0	293.148	293.118	293.087	292.995	292.903	292.995	293.087	292.904	292.720	292.751
172.5	290.027	289.951	289.874	289.874	289.874	290.012	290.150	290.027	289.905	289.905
175.0	286.906	286.784	286.661	286.753	286.844	287.028	287.212	287.151	287.089	287.059
177.5	288.405	288.344	288.283	288.328	288.374	288.466	288.558	288.527	288.497	288.481
180.0	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000	289.000

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	290.088	290.088	290.088	290.088	290.088
2.5	288.558	288.604	288.650	288.512	288.375
5.0	287.028	287.120	287.212	286.937	286.661
7.5	289.507	289.537	289.568	289.446	289.323
10.0	291.985	291.955	291.924	291.955	291.985
12.5	296.239	296.330	296.422	296.361	296.300
15.0	300.492	300.706	300.920	300.767	300.614
17.5	304.317	304.424	304.531	304.393	304.256
20.0	308.142	308.142	308.142	308.020	307.897
22.5	316.190	316.205	316.221	316.190	316.159
25.0	324.238	324.269	324.299	324.360	324.421
27.5	332.041	332.010	331.980	332.133	332.286
30.0	339.844	339.752	339.660	339.905	340.150
32.5	344.189	344.174	344.158	344.265	344.373
35.0	348.534	348.595	348.656	348.626	348.595
37.5	360.958	360.912	360.866	360.881	360.897
40.0	373.381	373.228	373.075	373.137	373.198
42.5	384.275	384.122	383.969	384.030	384.092
45.0	395.168	395.015	394.862	394.924	394.985
47.5	418.333	418.394	418.455	418.379	418.302
50.0	441.497	441.773	442.048	441.834	441.619
52.5	455.726	455.757	455.787	455.573	455.359
55.0	469.955	469.741	469.526	469.312	469.098
57.5	489.233	489.218	489.202	488.988	488.774
60.0	508.511	508.695	508.878	508.664	508.450
62.5	528.371	528.263	528.156	528.202	528.248
65.0	548.230	547.832	547.434	547.740	548.046
67.5	570.231	570.048	569.864	569.986	570.109
70.0	592.232	592.263	592.294	592.233	592.171
72.5	607.379	607.471	607.563	607.410	607.257
75.0	622.526	622.679	622.832	622.588	622.343
77.5	629.564	629.610	629.656	629.641	629.626
80.0	636.602	636.541	636.480	636.694	636.908
82.5	645.323	644.910	644.497	645.017	645.538
85.0	654.044	653.279	652.514	653.341	654.167
87.5	654.289	653.876	653.463	653.815	654.167
90.0	654.534	654.473	654.412	654.290	654.167
92.5	654.136	654.167	654.198	654.305	654.412
95.0	653.738	653.861	653.983	654.320	654.656

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CANDELA TABULATION - (Cont.)

97.5	645.262	645.430	645.599	645.675	645.752
100.0	636.786	637.000	637.214	637.031	636.847
102.5	629.656	629.763	629.870	629.809	629.748
105.0	622.526	622.526	622.526	622.588	622.649
107.5	607.410	607.379	607.349	607.410	607.472
110.0	592.294	592.233	592.171	592.233	592.294
112.5	570.293	570.216	570.139	570.216	570.293
115.0	548.291	548.199	548.107	548.199	548.291
117.5	527.850	527.850	527.850	527.865	527.881
120.0	507.409	507.501	507.593	507.532	507.470
122.5	488.560	488.529	488.499	488.498	488.498
125.0	469.710	469.557	469.404	469.465	469.526
127.5	455.573	455.527	455.481	455.496	455.512
130.0	441.436	441.497	441.558	441.528	441.497
132.5	418.425	418.394	418.363	418.226	418.088
135.0	395.413	395.291	395.168	394.924	394.679
137.5	384.244	384.275	384.305	384.137	383.969
140.0	373.075	373.259	373.442	373.351	373.259
142.5	360.805	360.927	361.049	361.034	361.019
145.0	348.534	348.595	348.656	348.718	348.779
147.5	344.158	344.265	344.372	344.372	344.373
150.0	339.782	339.935	340.088	340.027	339.966
152.5	332.071	332.132	332.194	332.209	332.224
155.0	324.360	324.330	324.299	324.391	324.482
157.5	316.037	316.129	316.221	316.251	316.282
160.0	307.714	307.928	308.142	308.112	308.081
162.5	304.226	304.317	304.409	304.440	304.470
165.0	300.737	300.707	300.676	300.768	300.859
167.5	296.759	296.759	296.759	296.851	296.943
170.0	292.781	292.812	292.842	292.934	293.026
172.5	289.905	289.843	289.782	289.813	289.844
175.0	287.028	286.875	286.722	286.692	286.661
177.5	288.466	288.390	288.313	288.298	288.283
180.0	289.000	289.000	289.000	289.000	289.000

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	113.05	1.80	1.80
0-30	263.54	4.30	4.20
0-40	485.43	7.90	7.80
0-60	1221.1	20.00	19.50
0-80	2421.42	39.60	38.70
0-90	3130.59	51.20	50.00
10-90	3102.96	50.70	49.60
20-40	372.37	6.10	5.90
20-50	683.85	11.20	10.90
40-70	1281.37	20.90	20.50
60-80	1200.32	19.60	19.20
70-80	654.62	10.70	10.50
80-90	709.17	11.60	11.30
90-110	1363.29	22.30	21.80
90-120	1908.76	31.20	30.50
90-130	2332.86	38.10	37.30
90-150	2866.2	46.80	45.80
90-180	3129.73	51.10	50.00
110-180	1766.44	28.90	28.20
0-180	6260.32	102.30	100.00

Total Luminaire Efficiency = 102.30%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	27.63
10-20	85.42
20-30	150.49
30-40	221.89
40-50	311.47
50-60	424.20
60-70	545.70
70-80	654.62
80-90	709.17
90-100	708.69
100-110	654.60
110-120	545.47
120-130	424.10
130-140	311.46
140-150	221.89
150-160	150.47
160-170	85.42
170-180	27.64

IES INDOOR REPORT
PHOTOMETRIC FILENAME : F45G25 - 2700K - 43 INCH.IES

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	110	110	110	110	101	101	101	101	85	85	85	71	71	71	57	57	57	51
1	94	87	81	76	86	80	74	69	66	62	58	53	50	47	42	39	37	31
2	84	73	65	57	76	67	59	53	55	49	44	44	39	35	33	30	27	22
3	75	63	53	45	68	57	49	42	47	40	34	37	32	27	28	24	21	16
4	68	54	44	37	61	50	41	34	40	33	28	32	27	22	24	20	17	12
5	62	48	38	31	56	44	35	28	36	29	23	28	23	18	21	17	14	10
6	57	42	33	26	51	39	30	24	32	25	20	25	20	15	19	15	11	8
7	52	38	29	22	47	35	26	20	28	22	17	23	17	13	17	13	10	7
8	48	34	25	19	44	31	23	18	26	19	15	21	15	12	16	12	8	6
9	45	31	23	17	41	28	21	16	23	17	13	19	14	10	14	10	7	5
10	42	28	20	15	38	26	19	14	22	15	11	17	12	9	13	9	7	4

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	7.2	8.2	8.1	9.2	10.4	7.1	8.2	8.1	9.1	10.4
	3H	11.5	12.5	12.4	13.4	14.7	11.5	12.5	12.4	13.4	14.7
	4H	13.8	14.7	14.7	15.6	16.9	13.8	14.7	14.7	15.6	16.9
	6H	16.2	17.0	17.1	18.0	19.3	16.2	17.0	17.1	18.0	19.3
	8H	17.4	18.2	18.4	19.2	20.5	17.4	18.2	18.4	19.2	20.5
	12H	18.9	19.6	19.8	20.6	22.0	18.9	19.7	19.8	20.7	22.0

UGR Viewed Endwise

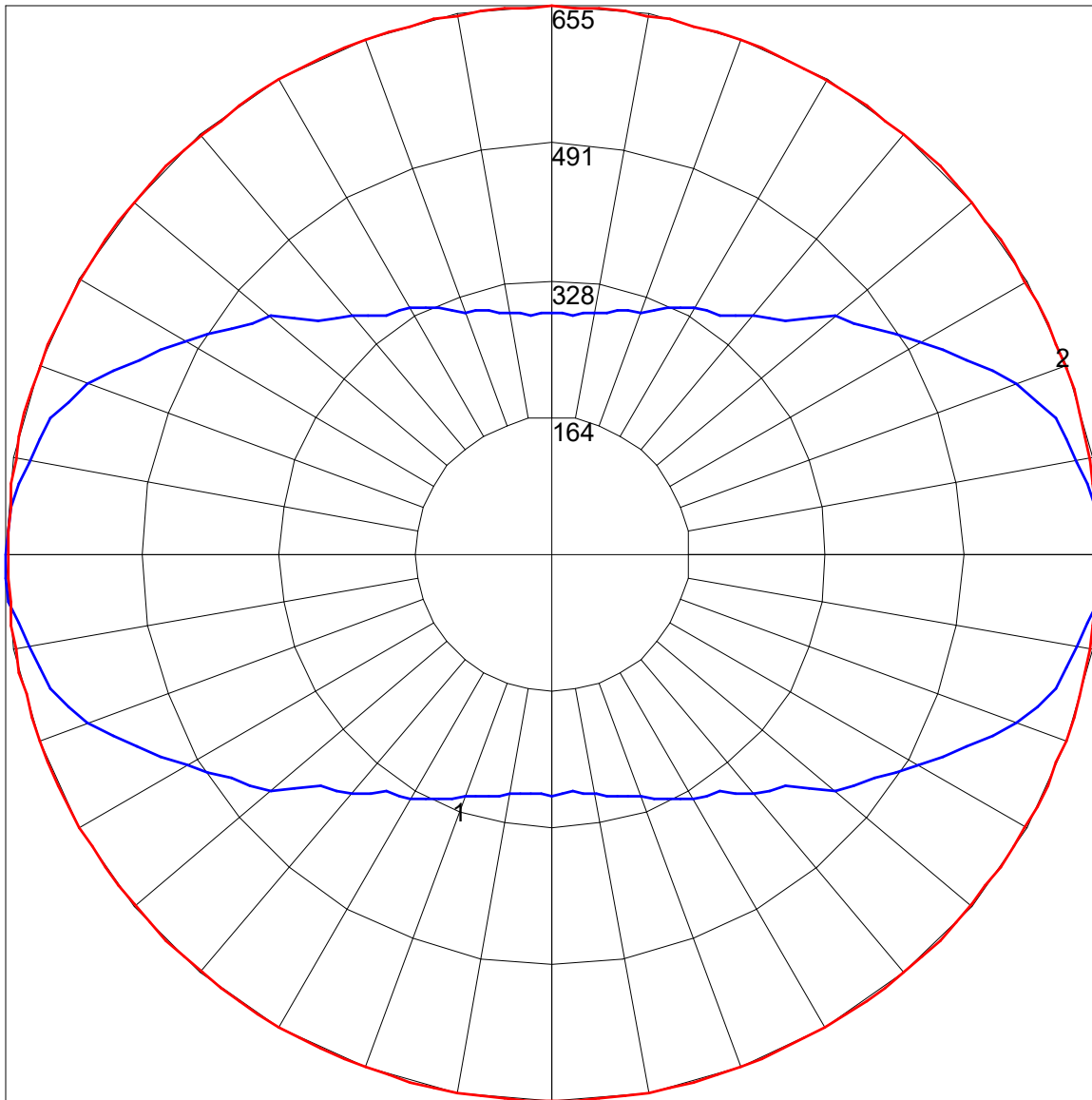
4H	2H	8.5	9.4	9.4	10.4	11.6	8.5	9.4	9.4	10.4	11.6
	3H	12.9	13.7	13.9	14.7	16.0	12.9	13.7	13.9	14.7	16.0
	4H	15.3	16.0	16.3	17.0	18.4	15.3	16.0	16.3	17.0	18.4
	6H	17.8	18.5	18.8	19.5	20.8	17.8	18.5	18.8	19.5	20.8
	8H	19.2	19.8	20.2	20.8	22.2	19.2	19.8	20.2	20.8	22.2
	12H	20.7	21.3	21.7	22.3	23.7	20.7	21.3	21.7	22.3	23.7

8H	4H	16.2	16.8	17.2	17.9	19.2	16.2	16.9	17.2	17.9	19.2
	6H	19.0	19.5	20.0	20.6	21.9	19.0	19.5	20.0	20.6	21.9
	8H	20.5	21.0	21.5	22.0	23.4	20.5	21.0	21.5	22.1	23.4
	12H	22.3	22.7	23.3	23.7	25.1	22.3	22.7	23.3	23.8	25.1

12H	4H	16.5	17.1	17.5	18.1	19.4	16.5	17.1	17.5	18.1	19.4
	6H	19.4	19.9	20.4	20.9	22.3	19.4	19.9	20.4	20.9	22.3
	8H	21.0	21.5	22.0	22.5	23.9	21.0	21.5	22.0	22.5	23.9

Maximum UGR = 25.1

POLAR GRAPH



Maximum Candela = 655.207 Located At Horizontal Angle = 270, Vertical Angle = 85
1 - Vertical Plane Through Horizontal Angles (270 - 90) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (85) (Through Max. Cd.)