

IES INDOOR REPORT

PHOTOMETRIC FILENAME : F45G23 - 2700K - 31 INCH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[MANUFAC] :Fabbian

[_EULUMDAT_ITYP] 1

[_EULUMDAT_HDIST] 5

[_EULUMD_VDIST] 5

[TEST]

[LUMINAIRE] OLYMPIC POWER-WALL-CEILING D.802 3000K LED STRIP - WHITE

[LUMCAT] F45G23

[_EULUM_FILENAME] F45 A07 01.ltd

[TESTLAB]

[ISSUEDATE] 2020-01-14

[_EULUM_AREALENGTH] 802

[_EULUM_AREAWIDTH] 0

[_EULUM_C0_LUM] 0

[_EULUM_C90_LUM] 0

[_EULUM_C180_LUM] 0

[_EULUM_C270_LUM] 0

[_EULUM_DOWN_FLUX] 52.42

[_EULUM_EFFICIENCY] 100

[_EULUM_CONV] 1

[_EULUM_TILT] 0

[_EULUM_LAMP_1_NUM] 1

[_EULUM_LAMP_1_TYPE] LED SMD2835 6406 lm

[_EULUM_LAMP_1_FLUX] 4475

[_EULUM_LAMP_1_COLOR] 2689

[_EULUM_LAMP_1_CRG] 90

[_EULUM_LAMP_1_WATTS] 48

[LAMP] LED SMD2835 6406 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	4475 (1 lamp)
Total Lamp Lumens	4475
Luminaire Lumens	4562
Total Luminaire Efficiency	102 %
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	48
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)	0.80 m (Diameter)
Luminous Width (90-270)	0.80 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	931	930	931
55	1258	1259	1258
65	1836	1835	1836
75	3094	3104	3106
85	9114	9139	9140

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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	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734
2.5	273.535	273.523	273.512	273.512	273.512	273.512	273.512	273.456	273.401	273.377
5.0	270.335	270.313	270.290	270.290	270.290	270.290	270.290	270.179	270.066	270.022
7.5	273.110	273.064	273.020	273.042	273.064	273.008	272.953	272.908	272.864	272.908
10.0	275.884	275.817	275.749	275.795	275.839	275.727	275.615	275.638	275.660	275.795
12.5	278.569	278.491	278.412	278.502	278.591	278.547	278.502	278.491	278.480	278.592
15.0	281.254	281.165	281.075	281.210	281.343	281.366	281.388	281.344	281.299	281.388
17.5	284.566	284.421	284.275	284.421	284.566	284.510	284.454	284.532	284.610	284.566
20.0	287.877	287.675	287.474	287.631	287.788	287.653	287.519	287.721	287.921	287.743
22.5	292.196	292.150	292.106	292.229	292.352	292.241	292.128	292.576	293.023	292.900
25.0	296.514	296.627	296.738	296.827	296.916	296.827	296.738	297.431	298.124	298.057
27.5	300.385	300.396	300.407	300.418	300.429	300.485	300.542	300.822	301.100	301.122
30.0	304.255	304.166	304.076	304.009	303.942	304.144	304.345	304.211	304.076	304.189
32.5	306.179	306.157	306.135	306.068	306.001	306.124	306.248	306.225	306.203	306.214
35.0	308.104	308.149	308.193	308.126	308.059	308.104	308.149	308.238	308.328	308.238
37.5	313.810	313.865	313.921	313.876	313.832	313.899	313.967	313.989	314.011	313.943
40.0	319.515	319.582	319.650	319.628	319.604	319.695	319.784	319.739	319.694	319.650
42.5	326.071	326.149	326.228	326.182	326.138	326.127	326.116	326.138	326.160	326.082
45.0	332.627	332.716	332.806	332.738	332.671	332.560	332.447	332.538	332.627	332.516
47.5	344.755	344.866	344.979	344.922	344.866	344.754	344.642	344.686	344.732	344.721
50.0	356.881	357.016	357.150	357.105	357.060	356.949	356.836	356.836	356.836	356.927
52.5	360.842	360.887	360.932	360.943	360.954	360.909	360.864	360.785	360.707	360.752
55.0	364.802	364.758	364.713	364.780	364.847	364.869	364.891	364.735	364.578	364.578
57.5	372.611	372.600	372.589	372.700	372.813	372.813	372.813	372.746	372.678	372.644
60.0	380.420	380.442	380.464	380.621	380.777	380.755	380.733	380.755	380.777	380.711
62.5	386.260	386.271	386.282	386.382	386.484	386.462	386.440	386.462	386.484	386.427
65.0	392.099	392.099	392.099	392.145	392.189	392.167	392.145	392.167	392.189	392.145
67.5	397.112	397.493	397.873	397.839	397.806	397.771	397.738	397.760	397.782	397.480
70.0	402.124	402.885	403.645	403.534	403.421	403.377	403.332	403.354	403.376	402.817
72.5	403.445	403.802	404.160	404.160	404.160	404.160	404.160	404.138	404.115	403.813
75.0	404.764	404.720	404.675	404.787	404.898	404.944	404.988	404.920	404.853	404.809
77.5	402.326	402.259	402.191	402.314	402.437	402.381	402.326	402.337	402.348	402.281
80.0	399.887	399.797	399.707	399.841	399.976	399.819	399.663	399.752	399.841	399.752
82.5	400.671	400.614	400.558	400.669	400.782	400.736	400.692	400.703	400.714	400.849
85.0	401.453	401.431	401.408	401.497	401.586	401.653	401.721	401.653	401.586	401.944
87.5	400.625	400.669	400.714	400.725	400.736	400.793	400.849	400.747	400.647	400.837
90.0	399.796	399.909	400.020	399.954	399.887	399.932	399.976	399.841	399.707	399.730
92.5	400.647	400.702	400.758	400.782	400.804	400.838	400.871	400.758	400.647	400.691
95.0	401.497	401.497	401.497	401.609	401.721	401.744	401.766	401.677	401.586	401.653
97.5	400.647	400.725	400.804	400.815	400.826	400.915	401.005	400.938	400.871	400.837
100.0	399.796	399.954	400.110	400.021	399.931	400.087	400.244	400.200	400.154	400.021
102.5	402.392	402.392	402.393	402.348	402.303	402.370	402.437	402.403	402.370	402.415
105.0	404.988	404.831	404.675	404.675	404.675	404.653	404.629	404.607	404.585	404.809
107.5	404.294	404.227	404.160	404.060	403.960	404.049	404.138	403.500	402.863	403.063
110.0	403.600	403.623	403.645	403.445	403.243	403.445	403.645	402.392	401.139	401.318
112.5	397.850	397.861	397.873	397.706	397.538	397.649	397.760	397.145	396.530	396.653
115.0	392.099	392.099	392.099	391.966	391.832	391.854	391.876	391.899	391.921	391.988
117.5	386.372	386.383	386.394	386.305	386.216	386.238	386.260	386.316	386.372	386.349
120.0	380.644	380.666	380.688	380.644	380.599	380.622	380.644	380.733	380.823	380.711
122.5	372.746	372.746	372.746	372.768	372.791	372.813	372.835	372.813	372.791	372.757
125.0	364.847	364.825	364.802	364.892	364.982	365.004	365.026	364.892	364.758	364.803
127.5	360.887	360.909	360.931	360.976	361.021	361.043	361.065	360.898	360.730	360.842
130.0	356.927	356.994	357.060	357.060	357.060	357.083	357.105	356.905	356.703	356.881
132.5	344.777	344.833	344.888	344.910	344.933	344.910	344.888	344.821	344.755	344.844

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CANDELA TABULATION - (Cont.)

135.0	332.627	332.672	332.716	332.762	332.806	332.738	332.671	332.738	332.806	332.806
137.5	326.027	326.116	326.206	326.160	326.116	326.127	326.138	326.206	326.273	326.239
140.0	319.426	319.560	319.694	319.560	319.426	319.515	319.604	319.672	319.739	319.672
142.5	313.854	313.888	313.921	313.910	313.899	313.899	313.899	313.899	313.899	313.865
145.0	308.282	308.216	308.149	308.262	308.373	308.284	308.193	308.126	308.059	308.059
147.5	306.336	306.348	306.359	306.281	306.203	306.214	306.225	306.179	306.135	306.146
150.0	304.389	304.480	304.569	304.300	304.031	304.144	304.255	304.233	304.211	304.233
152.5	300.609	300.631	300.654	300.474	300.295	300.340	300.385	300.440	300.496	300.474
155.0	296.827	296.783	296.738	296.649	296.558	296.536	296.514	296.649	296.782	296.715
157.5	292.330	292.307	292.285	292.185	292.083	292.139	292.196	292.263	292.330	292.207
160.0	287.832	287.832	287.832	287.721	287.608	287.743	287.877	287.877	287.877	287.699
162.5	284.521	284.498	284.476	284.419	284.364	284.476	284.588	284.621	284.655	284.577
165.0	281.209	281.165	281.119	281.119	281.119	281.210	281.299	281.366	281.432	281.456
167.5	278.502	278.480	278.458	278.401	278.345	278.412	278.480	278.558	278.636	278.658
170.0	275.795	275.795	275.795	275.683	275.571	275.616	275.660	275.749	275.839	275.862
172.5	272.975	272.931	272.886	272.819	272.751	272.797	272.841	272.930	273.020	272.975
175.0	270.156	270.066	269.977	269.955	269.932	269.977	270.021	270.112	270.201	270.090
177.5	273.468	273.423	273.379	273.366	273.355	273.377	273.401	273.445	273.490	273.434
180.0	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913

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	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734
2.5	273.355	273.355	273.355	273.377	273.401	273.445	273.490	273.423	273.355	273.445
5.0	269.977	269.977	269.977	270.022	270.066	270.156	270.245	270.112	269.977	270.157
7.5	272.953	272.864	272.775	272.841	272.908	272.908	272.908	272.931	272.953	272.987
10.0	275.929	275.751	275.571	275.660	275.749	275.660	275.571	275.751	275.929	275.818
12.5	278.703	278.547	278.390	278.412	278.434	278.390	278.345	278.502	278.659	278.525
15.0	281.478	281.343	281.209	281.165	281.119	281.119	281.119	281.254	281.388	281.232
17.5	284.521	284.443	284.364	284.397	284.432	284.408	284.386	284.465	284.543	284.499
20.0	287.564	287.542	287.519	287.631	287.743	287.699	287.653	287.675	287.697	287.765
22.5	292.778	292.487	292.196	292.498	292.800	292.856	292.912	292.889	292.867	292.609
25.0	297.990	297.431	296.871	297.364	297.857	298.013	298.170	298.102	298.035	297.453
27.5	301.146	300.888	300.631	300.911	301.191	301.302	301.415	301.291	301.168	300.966
30.0	304.300	304.345	304.389	304.457	304.524	304.591	304.658	304.480	304.300	304.480
32.5	306.225	306.314	306.403	306.336	306.270	306.303	306.337	306.303	306.270	306.392
35.0	308.149	308.284	308.417	308.216	308.015	308.015	308.015	308.127	308.238	308.306
37.5	313.877	313.910	313.943	313.854	313.765	313.821	313.877	313.854	313.832	313.877
40.0	319.604	319.537	319.470	319.493	319.515	319.628	319.739	319.582	319.426	319.448
42.5	326.004	326.060	326.116	325.736	325.356	325.825	326.295	326.116	325.937	326.015
45.0	332.403	332.583	332.762	331.979	331.195	332.023	332.851	332.649	332.447	332.582
47.5	344.710	344.732	344.755	344.441	344.128	344.542	344.955	344.777	344.597	344.699
50.0	357.016	356.881	356.747	356.903	357.060	357.060	357.060	356.903	356.747	356.814
52.5	360.798	360.785	360.774	360.796	360.820	360.898	360.976	360.898	360.820	360.809
55.0	364.578	364.691	364.802	364.691	364.578	364.735	364.891	364.891	364.891	364.802
57.5	372.611	372.611	372.611	372.611	372.611	372.700	372.790	372.824	372.857	372.779
60.0	380.644	380.533	380.420	380.533	380.644	380.666	380.688	380.755	380.823	380.755
62.5	386.372	386.271	386.171	386.316	386.462	386.372	386.282	386.349	386.416	386.427
65.0	392.099	392.010	391.921	392.101	392.279	392.077	391.876	391.943	392.010	392.099
67.5	397.178	397.458	397.738	397.504	397.269	397.111	396.955	396.989	397.022	397.111
70.0	402.257	402.907	403.556	402.907	402.257	402.146	402.034	402.034	402.034	402.124
72.5	403.511	404.138	404.764	404.484	404.205	404.126	404.047	404.025	404.003	404.104
75.0	404.764	405.368	405.972	406.062	406.152	406.106	406.061	406.017	405.972	406.084
77.5	402.213	402.526	402.839	402.863	402.885	402.952	403.019	402.918	402.817	402.850
80.0	399.663	399.685	399.707	399.663	399.618	399.797	399.976	399.819	399.663	399.618

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CANDELA TABULATION - (Cont.)

82.5	400.984	400.815	400.647	400.826	401.005	401.151	401.296	401.195	401.095	401.049
85.0	402.303	401.944	401.586	401.990	402.392	402.504	402.616	402.572	402.526	402.482
87.5	401.027	400.804	400.580	400.826	401.073	401.151	401.229	401.162	401.095	401.140
90.0	399.752	399.663	399.572	399.663	399.752	399.797	399.841	399.752	399.663	399.797
92.5	400.736	400.703	400.669	400.636	400.603	400.669	400.736	400.669	400.603	400.703
95.0	401.721	401.744	401.766	401.609	401.453	401.542	401.631	401.587	401.542	401.609
97.5	400.804	400.815	400.827	400.849	400.871	400.916	400.960	400.904	400.849	400.860
100.0	399.887	399.887	399.887	400.089	400.289	400.289	400.289	400.222	400.154	400.110
102.5	402.461	402.359	402.259	402.404	402.550	402.583	402.616	402.572	402.526	402.504
105.0	405.033	404.831	404.629	404.720	404.809	404.876	404.942	404.920	404.898	404.898
107.5	403.265	403.097	402.930	402.941	402.952	403.063	403.176	403.086	402.997	403.041
110.0	401.497	401.364	401.229	401.162	401.095	401.251	401.408	401.251	401.095	401.184
112.5	396.776	396.687	396.598	396.563	396.530	396.574	396.620	396.485	396.352	396.385
115.0	392.055	392.010	391.965	391.965	391.965	391.899	391.832	391.721	391.608	391.586
117.5	386.327	386.338	386.349	386.327	386.305	386.316	386.327	386.260	386.193	386.136
120.0	380.599	380.666	380.733	380.690	380.644	380.733	380.823	380.801	380.777	380.688
122.5	372.724	372.802	372.880	372.757	372.635	372.700	372.768	372.801	372.835	372.824
125.0	364.847	364.936	365.026	364.825	364.623	364.669	364.713	364.802	364.891	364.958
127.5	360.954	360.998	361.043	360.942	360.842	360.842	360.842	360.864	360.887	360.876
130.0	357.060	357.060	357.060	357.060	357.060	357.016	356.971	356.927	356.881	356.792
132.5	344.933	344.843	344.754	344.788	344.821	344.844	344.866	344.855	344.844	344.710
135.0	332.806	332.627	332.447	332.515	332.582	332.672	332.762	332.784	332.806	332.627
137.5	326.206	326.093	325.982	325.971	325.960	326.116	326.273	326.184	326.093	326.093
140.0	319.604	319.560	319.515	319.426	319.337	319.560	319.784	319.582	319.381	319.560
142.5	313.832	313.821	313.810	313.754	313.698	313.821	313.945	313.865	313.787	313.832
145.0	308.059	308.082	308.104	308.082	308.059	308.082	308.104	308.149	308.193	308.104
147.5	306.157	306.135	306.113	306.057	306.001	306.034	306.068	306.201	306.336	306.236
150.0	304.255	304.189	304.122	304.032	303.942	303.987	304.031	304.255	304.479	304.367
152.5	300.451	300.396	300.340	300.351	300.362	300.418	300.474	300.507	300.542	300.542
155.0	296.647	296.603	296.558	296.671	296.782	296.849	296.916	296.760	296.603	296.716
157.5	292.083	292.139	292.196	292.185	292.174	292.229	292.285	292.263	292.241	292.241
160.0	287.519	287.675	287.832	287.699	287.564	287.609	287.653	287.766	287.877	287.766
162.5	284.499	284.487	284.476	284.499	284.521	284.488	284.454	284.499	284.543	284.499
165.0	281.478	281.299	281.119	281.299	281.478	281.366	281.254	281.232	281.209	281.232
167.5	278.681	278.536	278.390	278.323	278.256	278.412	278.569	278.536	278.502	278.558
170.0	275.884	275.773	275.660	275.347	275.034	275.460	275.884	275.840	275.795	275.884
172.5	272.931	272.875	272.819	272.707	272.595	272.773	272.953	272.942	272.931	273.031
175.0	269.977	269.977	269.977	270.066	270.156	270.088	270.021	270.044	270.066	270.179
177.5	273.379	273.379	273.379	273.423	273.468	273.434	273.401	273.412	273.423	273.479
180.0	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913

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	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734
2.5	273.535	273.445	273.355	273.355	273.355	273.445	273.535	273.434	273.333	273.366
5.0	270.335	270.157	269.977	269.977	269.977	270.157	270.335	270.134	269.932	269.999
7.5	273.020	272.942	272.864	272.919	272.975	272.975	272.975	272.875	272.773	272.897
10.0	275.705	275.727	275.749	275.862	275.973	275.795	275.615	275.615	275.615	275.795
12.5	278.390	278.423	278.458	278.513	278.569	278.469	278.367	278.356	278.345	278.480
15.0	281.075	281.121	281.165	281.165	281.165	281.143	281.119	281.097	281.075	281.165
17.5	284.454	284.454	284.454	284.488	284.521	284.476	284.432	284.364	284.297	284.397
20.0	287.832	287.788	287.743	287.810	287.877	287.810	287.743	287.631	287.519	287.631
22.5	292.352	292.565	292.778	292.889	293.001	292.923	292.845	292.520	292.196	292.474
25.0	296.871	297.342	297.811	297.968	298.124	298.035	297.946	297.409	296.871	297.319
27.5	300.765	300.955	301.146	301.190	301.235	301.269	301.302	300.955	300.609	300.833

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30.0	304.658	304.569	304.479	304.413	304.345	304.502	304.658	304.502	304.345	304.345
32.5	306.516	306.470	306.426	306.348	306.270	306.370	306.470	306.392	306.314	306.325
35.0	308.373	308.373	308.373	308.284	308.193	308.238	308.282	308.282	308.282	308.306
37.5	313.921	313.932	313.945	313.932	313.921	313.967	314.011	314.000	313.989	314.156
40.0	319.470	319.493	319.515	319.582	319.650	319.695	319.739	319.717	319.694	320.008
42.5	326.093	326.049	326.004	326.105	326.206	326.251	326.295	325.926	325.556	326.015
45.0	332.716	332.605	332.493	332.627	332.762	332.807	332.851	332.136	331.419	332.023
47.5	344.799	345.034	345.270	345.292	345.314	345.359	345.403	345.023	344.642	344.955
50.0	356.881	357.463	358.045	357.956	357.866	357.911	357.955	357.911	357.866	357.889
52.5	360.798	361.100	361.402	361.334	361.267	361.356	361.446	361.402	361.356	361.356
55.0	364.713	364.736	364.758	364.713	364.667	364.802	364.936	364.892	364.847	364.825
57.5	372.700	372.746	372.791	372.711	372.633	372.711	372.791	372.757	372.724	372.768
60.0	380.688	380.755	380.823	380.711	380.599	380.622	380.644	380.622	380.599	380.711
62.5	386.438	386.449	386.462	386.360	386.260	386.316	386.372	386.305	386.238	386.305
65.0	392.189	392.145	392.099	392.010	391.921	392.010	392.099	391.988	391.876	391.899
67.5	397.202	397.134	397.067	397.078	397.089	397.100	397.112	397.033	396.955	396.978
70.0	402.213	402.124	402.034	402.146	402.257	402.191	402.124	402.079	402.034	402.057
72.5	404.205	404.138	404.071	404.160	404.249	404.205	404.160	404.149	404.138	404.138
75.0	406.196	406.152	406.106	406.174	406.241	406.219	406.196	406.219	406.241	406.219
77.5	402.885	402.918	402.952	402.985	403.019	403.321	403.623	403.612	403.601	403.645
80.0	399.572	399.685	399.796	399.796	399.796	400.423	401.049	401.005	400.960	401.073
82.5	401.005	401.084	401.162	401.106	401.049	401.430	401.811	401.755	401.699	401.777
85.0	402.437	402.482	402.526	402.415	402.303	402.437	402.572	402.504	402.437	402.482
87.5	401.184	401.173	401.162	401.151	401.140	401.184	401.229	401.129	401.027	401.140
90.0	399.931	399.863	399.796	399.887	399.976	399.932	399.887	399.752	399.618	399.797
92.5	400.804	400.782	400.758	400.714	400.669	400.736	400.804	400.680	400.558	400.680
95.0	401.677	401.699	401.721	401.542	401.362	401.542	401.721	401.609	401.497	401.564
97.5	400.871	400.938	401.005	400.882	400.758	400.804	400.849	400.849	400.849	400.860
100.0	400.065	400.178	400.289	400.222	400.154	400.065	399.976	400.089	400.200	400.156
102.5	402.482	402.572	402.661	402.594	402.526	402.515	402.504	402.515	402.526	402.482
105.0	404.898	404.966	405.033	404.966	404.898	404.966	405.033	404.944	404.853	404.809
107.5	403.086	403.108	403.132	403.097	403.065	403.097	403.132	403.097	403.063	403.097
110.0	401.273	401.251	401.229	401.229	401.229	401.229	401.229	401.251	401.273	401.386
112.5	396.418	396.429	396.441	396.430	396.419	396.474	396.530	396.519	396.507	396.585
115.0	391.563	391.608	391.652	391.630	391.608	391.721	391.832	391.786	391.741	391.786
117.5	386.081	386.136	386.193	386.136	386.081	386.193	386.305	386.249	386.193	386.238
120.0	380.599	380.666	380.733	380.644	380.554	380.666	380.777	380.711	380.644	380.690
122.5	372.813	372.824	372.835	372.857	372.880	372.790	372.700	372.835	372.969	372.958
125.0	365.026	364.982	364.936	365.071	365.205	364.914	364.623	364.960	365.295	365.227
127.5	360.865	360.943	361.021	361.010	361.000	360.909	360.820	360.954	361.089	361.111
130.0	356.703	356.905	357.105	356.949	356.792	356.905	357.016	356.949	356.881	356.994
132.5	344.575	344.721	344.866	344.833	344.799	344.810	344.822	344.766	344.710	344.766
135.0	332.447	332.538	332.627	332.716	332.806	332.716	332.627	332.583	332.538	332.538
137.5	326.093	326.082	326.071	326.184	326.295	326.251	326.206	326.138	326.071	326.049
140.0	319.739	319.628	319.515	319.650	319.784	319.784	319.784	319.695	319.604	319.560
142.5	313.877	313.821	313.765	313.877	313.989	314.000	314.012	313.921	313.832	313.843
145.0	308.015	308.015	308.015	308.104	308.193	308.216	308.238	308.149	308.059	308.126
147.5	306.135	306.146	306.157	306.157	306.157	306.168	306.181	306.192	306.203	306.203
150.0	304.255	304.278	304.300	304.211	304.122	304.122	304.122	304.234	304.345	304.278
152.5	300.542	300.553	300.564	300.463	300.363	300.407	300.452	300.463	300.474	300.463
155.0	296.827	296.827	296.827	296.716	296.603	296.693	296.782	296.693	296.603	296.649
157.5	292.241	292.296	292.352	292.285	292.218	292.252	292.285	292.207	292.128	292.150
160.0	287.653	287.766	287.877	287.855	287.832	287.810	287.788	287.721	287.653	287.653
162.5	284.454	284.476	284.499	284.476	284.454	284.454	284.454	284.476	284.499	284.532
165.0	281.254	281.187	281.119	281.097	281.075	281.097	281.119	281.232	281.343	281.410
167.5	278.614	278.536	278.458	278.469	278.480	278.412	278.345	278.423	278.502	278.591

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170.0	275.973	275.884	275.795	275.840	275.884	275.727	275.571	275.616	275.660	275.773
172.5	273.132	273.031	272.931	272.997	273.064	273.009	272.953	272.942	272.931	272.942
175.0	270.290	270.179	270.066	270.156	270.245	270.290	270.335	270.268	270.201	270.112
177.5	273.535	273.479	273.423	273.468	273.512	273.535	273.557	273.524	273.490	273.445
180.0	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913

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	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734
2.5	273.401	273.412	273.423	273.412	273.401	273.377	273.355	273.412	273.468	273.501
5.0	270.066	270.090	270.112	270.090	270.066	270.022	269.977	270.090	270.201	270.268
7.5	273.020	273.020	273.020	272.953	272.886	272.853	272.819	272.908	272.998	273.053
10.0	275.973	275.951	275.929	275.818	275.705	275.683	275.660	275.727	275.795	275.840
12.5	278.614	278.580	278.547	278.514	278.480	278.423	278.368	278.502	278.636	278.558
15.0	281.254	281.210	281.165	281.210	281.254	281.165	281.075	281.277	281.478	281.277
17.5	284.499	284.476	284.454	284.476	284.499	284.443	284.386	284.487	284.588	284.454
20.0	287.743	287.743	287.743	287.743	287.743	287.721	287.697	287.697	287.697	287.631
22.5	292.754	292.754	292.754	292.520	292.285	292.252	292.218	292.240	292.263	292.509
25.0	297.766	297.766	297.766	297.297	296.827	296.783	296.738	296.783	296.827	297.387
27.5	301.056	301.056	301.056	300.822	300.587	300.609	300.631	300.642	300.653	300.911
30.0	304.345	304.345	304.345	304.345	304.345	304.435	304.524	304.502	304.479	304.435
32.5	306.337	306.325	306.314	306.236	306.157	306.236	306.314	306.381	306.448	306.425
35.0	308.328	308.306	308.282	308.126	307.969	308.037	308.104	308.260	308.417	308.417
37.5	314.325	314.145	313.967	313.810	313.654	313.776	313.899	313.910	313.921	313.989
40.0	320.321	319.986	319.650	319.493	319.337	319.515	319.694	319.560	319.426	319.560
42.5	326.475	326.049	325.624	325.803	325.982	326.105	326.228	326.160	326.094	325.780
45.0	332.627	332.112	331.598	332.112	332.627	332.694	332.762	332.762	332.762	332.001
47.5	345.270	344.799	344.329	344.542	344.755	344.553	344.351	344.542	344.733	344.441
50.0	357.911	357.485	357.060	356.971	356.881	356.412	355.941	356.323	356.703	356.881
52.5	361.356	361.087	360.820	360.853	360.887	360.585	360.283	360.529	360.776	360.898
55.0	364.802	364.691	364.578	364.735	364.891	364.758	364.623	364.736	364.847	364.914
57.5	372.813	372.678	372.544	372.622	372.700	372.689	372.678	372.678	372.678	372.791
60.0	380.823	380.666	380.510	380.510	380.510	380.622	380.733	380.622	380.510	380.666
62.5	386.372	386.282	386.193	386.238	386.283	386.338	386.394	386.338	386.283	386.405
65.0	391.921	391.899	391.876	391.966	392.055	392.055	392.055	392.055	392.055	392.145
67.5	397.000	396.978	396.955	397.011	397.067	397.034	397.000	397.034	397.067	397.156
70.0	402.079	402.057	402.034	402.057	402.079	402.012	401.944	402.012	402.079	402.168
72.5	404.138	404.071	404.003	404.003	404.003	404.049	404.093	404.093	404.093	404.082
75.0	406.196	406.084	405.972	405.950	405.928	406.084	406.241	406.174	406.106	405.995
77.5	403.690	403.656	403.623	403.589	403.556	403.734	403.914	403.758	403.601	403.556
80.0	401.184	401.229	401.273	401.229	401.184	401.386	401.586	401.340	401.095	401.117
82.5	401.855	401.844	401.833	401.833	401.833	401.955	402.079	401.900	401.722	401.799
85.0	402.526	402.459	402.392	402.437	402.481	402.526	402.572	402.461	402.348	402.482
87.5	401.251	401.151	401.049	401.139	401.229	401.162	401.095	401.084	401.073	401.162
90.0	399.976	399.841	399.707	399.841	399.976	399.797	399.618	399.707	399.796	399.841
92.5	400.804	400.747	400.692	400.782	400.871	400.760	400.647	400.725	400.804	400.714
95.0	401.631	401.655	401.677	401.722	401.766	401.722	401.677	401.744	401.810	401.586
97.5	400.871	400.849	400.827	400.905	400.984	400.927	400.871	400.904	400.938	400.826
100.0	400.110	400.043	399.976	400.089	400.200	400.132	400.065	400.065	400.065	400.065
102.5	402.437	402.415	402.393	402.472	402.550	402.470	402.392	402.392	402.392	402.459
105.0	404.764	404.787	404.809	404.855	404.898	404.809	404.719	404.719	404.719	404.853
107.5	403.130	403.119	403.108	403.154	403.198	403.152	403.108	403.108	403.108	403.165
110.0	401.497	401.453	401.408	401.453	401.497	401.497	401.497	401.497	401.497	401.475
112.5	396.665	396.574	396.485	396.519	396.552	396.552	396.552	396.609	396.665	396.587
115.0	391.832	391.697	391.563	391.586	391.608	391.608	391.608	391.721	391.832	391.697

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117.5	386.283	386.204	386.125	386.215	386.305	386.238	386.171	386.305	386.440	386.282
120.0	380.733	380.711	380.688	380.845	381.001	380.868	380.733	380.890	381.046	380.868
122.5	372.947	372.891	372.835	372.902	372.969	372.958	372.947	373.059	373.171	373.081
125.0	365.160	365.071	364.982	364.960	364.936	365.049	365.160	365.227	365.295	365.295
127.5	361.133	361.076	361.021	361.021	361.021	360.987	360.954	361.032	361.111	361.078
130.0	357.105	357.083	357.060	357.083	357.105	356.927	356.747	356.837	356.927	356.859
132.5	344.822	344.888	344.955	344.586	344.217	344.117	344.016	344.128	344.240	344.464
135.0	332.538	332.694	332.851	332.090	331.329	331.307	331.285	331.419	331.552	332.067
137.5	326.027	326.160	326.295	325.825	325.355	325.422	325.489	325.523	325.556	325.814
140.0	319.515	319.628	319.739	319.560	319.381	319.537	319.694	319.628	319.560	319.560
142.5	313.854	313.967	314.078	313.967	313.854	313.932	314.011	313.899	313.788	313.866
145.0	308.193	308.306	308.417	308.373	308.328	308.328	308.328	308.171	308.015	308.171
147.5	306.203	306.258	306.314	306.314	306.314	306.359	306.403	306.214	306.023	306.090
150.0	304.211	304.211	304.211	304.256	304.300	304.389	304.479	304.255	304.031	304.009
152.5	300.452	300.474	300.496	300.542	300.586	300.597	300.609	300.451	300.295	300.273
155.0	296.693	296.738	296.782	296.827	296.871	296.805	296.738	296.649	296.558	296.536
157.5	292.174	292.229	292.285	292.263	292.240	292.252	292.263	292.174	292.083	292.039
160.0	287.653	287.721	287.788	287.699	287.608	287.699	287.788	287.699	287.608	287.541
162.5	284.566	284.521	284.477	284.476	284.476	284.465	284.454	284.408	284.364	284.375
165.0	281.478	281.321	281.165	281.254	281.343	281.232	281.119	281.119	281.119	281.210
167.5	278.681	278.591	278.502	278.469	278.434	278.434	278.434	278.445	278.458	278.469
170.0	275.884	275.862	275.839	275.682	275.526	275.638	275.749	275.773	275.795	275.727
172.5	272.953	272.964	272.975	272.930	272.886	272.897	272.908	272.942	272.975	272.919
175.0	270.021	270.066	270.112	270.179	270.245	270.156	270.066	270.112	270.156	270.112
177.5	273.401	273.423	273.446	273.479	273.512	273.468	273.423	273.445	273.468	273.445
180.0	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913

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	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734
2.5	273.535	273.434	273.333	273.377	273.423	273.401	273.377	273.366	273.355	273.445
5.0	270.335	270.134	269.932	270.022	270.112	270.066	270.021	269.999	269.977	270.157
7.5	273.110	272.975	272.841	272.830	272.819	272.830	272.841	272.908	272.975	272.953
10.0	275.884	275.817	275.749	275.638	275.526	275.593	275.660	275.817	275.973	275.749
12.5	278.480	278.536	278.591	278.535	278.480	278.502	278.525	278.525	278.525	278.412
15.0	281.075	281.254	281.432	281.432	281.432	281.410	281.388	281.232	281.075	281.075
17.5	284.320	284.432	284.543	284.588	284.632	284.577	284.521	284.443	284.364	284.353
20.0	287.564	287.609	287.653	287.743	287.832	287.743	287.653	287.653	287.653	287.631
22.5	292.756	292.800	292.845	292.598	292.352	292.531	292.710	292.789	292.867	292.789
25.0	297.946	297.991	298.035	297.453	296.871	297.319	297.766	297.924	298.080	297.946
27.5	301.168	301.157	301.146	300.944	300.742	300.933	301.122	301.157	301.191	301.213
30.0	304.389	304.322	304.255	304.435	304.613	304.546	304.479	304.389	304.300	304.480
32.5	306.403	306.347	306.292	306.303	306.314	306.314	306.314	306.236	306.157	306.337
35.0	308.417	308.373	308.328	308.171	308.015	308.082	308.149	308.082	308.015	308.194
37.5	314.056	314.178	314.302	314.078	313.854	313.888	313.921	313.810	313.698	313.799
40.0	319.694	319.985	320.276	319.985	319.694	319.694	319.694	319.537	319.381	319.404
42.5	325.467	325.937	326.407	325.971	325.534	325.869	326.206	326.071	325.937	326.004
45.0	331.239	331.889	332.538	331.956	331.374	332.045	332.716	332.605	332.493	332.605
47.5	344.150	344.732	345.314	344.933	344.553	344.922	345.292	345.246	345.202	345.190
50.0	357.060	357.575	358.089	357.911	357.731	357.798	357.866	357.889	357.911	357.776
52.5	361.021	361.289	361.558	361.424	361.289	361.311	361.334	361.334	361.334	361.256
55.0	364.982	365.004	365.026	364.936	364.847	364.825	364.802	364.780	364.758	364.736
57.5	372.902	372.880	372.857	372.757	372.656	372.678	372.700	372.656	372.611	372.645
60.0	380.823	380.755	380.688	380.577	380.464	380.532	380.599	380.532	380.464	380.555
62.5	386.529	386.405	386.282	386.316	386.349	386.338	386.327	386.338	386.349	386.316

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65.0	392.234	392.055	391.876	392.055	392.234	392.145	392.055	392.145	392.234	392.077
67.5	397.246	397.145	397.045	397.145	397.246	397.224	397.202	397.191	397.180	397.078
70.0	402.257	402.235	402.213	402.235	402.257	402.303	402.348	402.237	402.124	402.079
72.5	404.071	404.160	404.249	404.182	404.115	404.216	404.316	404.171	404.027	404.049
75.0	405.883	406.084	406.285	406.128	405.972	406.128	406.285	406.106	405.928	406.017
77.5	403.511	403.623	403.734	403.567	403.399	403.489	403.578	403.165	402.750	402.806
80.0	401.139	401.162	401.184	401.005	400.826	400.849	400.871	400.222	399.572	399.596
82.5	401.877	401.877	401.879	401.744	401.609	401.609	401.609	401.273	400.938	401.005
85.0	402.616	402.594	402.572	402.482	402.392	402.370	402.348	402.326	402.303	402.415
87.5	401.251	401.262	401.275	401.195	401.117	401.095	401.073	401.060	401.049	401.151
90.0	399.887	399.932	399.976	399.909	399.841	399.819	399.796	399.796	399.796	399.887
92.5	400.625	400.736	400.849	400.815	400.782	400.725	400.669	400.647	400.625	400.725
95.0	401.362	401.542	401.721	401.721	401.721	401.631	401.542	401.498	401.453	401.566
97.5	400.714	400.848	400.982	400.915	400.849	400.793	400.736	400.747	400.760	400.849
100.0	400.065	400.154	400.244	400.110	399.976	399.954	399.931	399.998	400.065	400.132
102.5	402.526	402.481	402.437	402.470	402.504	402.437	402.370	402.359	402.348	402.381
105.0	404.988	404.809	404.629	404.831	405.033	404.922	404.809	404.720	404.629	404.629
107.5	403.221	403.076	402.930	403.063	403.198	403.086	402.974	402.929	402.885	402.918
110.0	401.453	401.342	401.229	401.296	401.362	401.251	401.139	401.139	401.139	401.206
112.5	396.509	396.463	396.419	396.463	396.507	396.485	396.463	396.474	396.485	396.440
115.0	391.563	391.586	391.608	391.630	391.652	391.719	391.786	391.810	391.832	391.675
117.5	386.125	386.160	386.193	386.125	386.058	386.103	386.149	386.238	386.327	386.204
120.0	380.688	380.733	380.777	380.621	380.464	380.488	380.510	380.666	380.823	380.733
122.5	372.991	372.913	372.835	372.779	372.724	372.700	372.678	372.779	372.880	372.880
125.0	365.295	365.093	364.891	364.936	364.982	364.914	364.847	364.892	364.936	365.026
127.5	361.043	360.920	360.798	360.898	361.000	360.987	360.976	361.010	361.043	361.021
130.0	356.792	356.748	356.703	356.859	357.016	357.061	357.105	357.128	357.150	357.016
132.5	344.688	344.677	344.666	344.721	344.777	344.844	344.911	344.933	344.957	344.810
135.0	332.582	332.605	332.627	332.583	332.538	332.627	332.716	332.740	332.762	332.605
137.5	326.071	326.082	326.094	326.071	326.049	326.094	326.138	326.138	326.138	326.127
140.0	319.560	319.560	319.560	319.560	319.560	319.560	319.560	319.538	319.515	319.650
142.5	313.945	313.956	313.967	313.910	313.855	313.855	313.855	313.854	313.854	313.943
145.0	308.328	308.351	308.373	308.262	308.149	308.149	308.149	308.171	308.193	308.238
147.5	306.157	306.214	306.270	306.247	306.225	306.181	306.135	306.101	306.068	306.135
150.0	303.987	304.076	304.166	304.233	304.300	304.211	304.122	304.032	303.942	304.032
152.5	300.251	300.296	300.340	300.440	300.542	300.452	300.363	300.318	300.273	300.396
155.0	296.514	296.514	296.514	296.649	296.782	296.693	296.603	296.603	296.603	296.760
157.5	291.994	292.095	292.196	292.241	292.285	292.196	292.106	292.150	292.196	292.307
160.0	287.474	287.675	287.877	287.833	287.788	287.699	287.608	287.699	287.788	287.855
162.5	284.386	284.499	284.610	284.510	284.410	284.421	284.432	284.532	284.633	284.554
165.0	281.299	281.321	281.343	281.187	281.030	281.143	281.254	281.366	281.478	281.254
167.5	278.480	278.491	278.502	278.491	278.480	278.547	278.614	278.647	278.681	278.547
170.0	275.660	275.660	275.660	275.795	275.929	275.951	275.973	275.929	275.884	275.840
172.5	272.864	272.886	272.908	272.953	272.998	273.031	273.064	273.031	272.998	273.031
175.0	270.066	270.112	270.156	270.112	270.066	270.112	270.156	270.134	270.112	270.224
177.5	273.423	273.445	273.468	273.445	273.423	273.445	273.468	273.457	273.446	273.501
180.0	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913

**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	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734
2.5	273.535	273.546	273.557	273.501	273.445	273.388	273.333	273.377	273.423	273.456
5.0	270.335	270.357	270.379	270.268	270.156	270.044	269.932	270.022	270.112	270.179
7.5	272.931	273.009	273.088	273.042	272.997	272.886	272.773	272.897	273.020	272.998
10.0	275.526	275.660	275.795	275.817	275.839	275.727	275.615	275.773	275.929	275.818

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12.5	278.301	278.423	278.547	278.603	278.658	278.569	278.480	278.591	278.703	278.580
15.0	281.075	281.188	281.299	281.388	281.478	281.410	281.343	281.410	281.478	281.343
17.5	284.342	284.432	284.521	284.610	284.699	284.610	284.521	284.565	284.610	284.510
20.0	287.608	287.675	287.743	287.832	287.921	287.810	287.697	287.721	287.743	287.675
22.5	292.710	292.487	292.263	292.654	293.045	292.945	292.844	292.844	292.845	292.463
25.0	297.811	297.297	296.782	297.476	298.170	298.080	297.990	297.968	297.946	297.253
27.5	301.235	300.978	300.720	301.045	301.369	301.257	301.146	301.168	301.191	300.809
30.0	304.658	304.658	304.658	304.614	304.569	304.435	304.300	304.367	304.435	304.367
32.5	306.516	306.459	306.404	306.359	306.314	306.247	306.179	306.203	306.225	306.225
35.0	308.373	308.262	308.149	308.104	308.059	308.059	308.059	308.037	308.015	308.082
37.5	313.899	313.832	313.765	313.754	313.743	313.809	313.876	313.865	313.854	313.821
40.0	319.426	319.404	319.381	319.404	319.426	319.560	319.694	319.694	319.694	319.560
42.5	326.071	326.015	325.960	325.993	326.027	326.149	326.273	325.869	325.467	325.702
45.0	332.716	332.627	332.538	332.583	332.627	332.740	332.851	332.045	331.239	331.843
47.5	345.179	344.966	344.755	344.732	344.710	344.788	344.866	344.486	344.106	344.441
50.0	357.642	357.307	356.971	356.881	356.792	356.837	356.881	356.927	356.971	357.038
52.5	361.178	361.087	360.998	360.943	360.887	360.831	360.774	360.820	360.865	360.865
55.0	364.713	364.869	365.026	365.004	364.982	364.825	364.667	364.713	364.758	364.691
57.5	372.678	372.700	372.724	372.791	372.858	372.724	372.589	372.622	372.656	372.689
60.0	380.644	380.533	380.420	380.577	380.733	380.622	380.510	380.532	380.554	380.688
62.5	386.283	386.216	386.149	386.216	386.283	386.305	386.327	386.338	386.349	386.451
65.0	391.921	391.899	391.876	391.854	391.832	391.988	392.145	392.145	392.145	392.212
67.5	396.978	397.022	397.067	397.011	396.956	397.022	397.089	397.167	397.247	397.604
70.0	402.034	402.146	402.257	402.168	402.079	402.057	402.034	402.191	402.348	402.997
72.5	404.071	404.138	404.205	404.115	404.025	403.992	403.958	404.036	404.116	404.496
75.0	406.106	406.130	406.152	406.062	405.972	405.928	405.883	405.883	405.883	405.995
77.5	402.863	402.941	403.019	402.963	402.907	402.907	402.907	402.874	402.839	402.896
80.0	399.618	399.752	399.887	399.865	399.841	399.887	399.931	399.863	399.796	399.796
82.5	401.073	401.106	401.140	401.206	401.273	401.284	401.296	401.262	401.229	400.949
85.0	402.526	402.459	402.392	402.548	402.705	402.683	402.661	402.661	402.661	402.102
87.5	401.251	401.128	401.005	401.084	401.162	401.184	401.207	401.195	401.184	400.971
90.0	399.976	399.797	399.618	399.618	399.618	399.685	399.752	399.730	399.707	399.841
92.5	400.827	400.703	400.580	400.614	400.647	400.636	400.625	400.669	400.714	400.782
95.0	401.677	401.609	401.542	401.609	401.677	401.587	401.497	401.609	401.721	401.721
97.5	400.938	400.905	400.871	400.860	400.849	400.849	400.849	400.849	400.849	400.826
100.0	400.200	400.200	400.200	400.110	400.020	400.110	400.200	400.089	399.976	399.932
102.5	402.415	402.493	402.572	402.504	402.437	402.481	402.526	402.448	402.370	402.359
105.0	404.629	404.786	404.942	404.898	404.853	404.853	404.853	404.809	404.764	404.787
107.5	402.952	402.985	403.019	403.019	403.019	403.074	403.130	403.097	403.063	403.030
110.0	401.273	401.184	401.095	401.140	401.184	401.296	401.408	401.386	401.362	401.273
112.5	396.396	396.429	396.463	396.496	396.530	396.598	396.665	396.676	396.687	396.698
115.0	391.517	391.675	391.832	391.854	391.876	391.899	391.921	391.966	392.010	392.123
117.5	386.081	386.125	386.171	386.171	386.171	386.193	386.216	386.238	386.260	386.316
120.0	380.644	380.577	380.510	380.488	380.464	380.488	380.510	380.510	380.510	380.510
122.5	372.880	372.880	372.880	372.735	372.589	372.611	372.635	372.700	372.768	372.678
125.0	365.115	365.182	365.249	364.982	364.713	364.736	364.758	364.892	365.026	364.847
127.5	360.998	361.043	361.089	360.931	360.774	360.831	360.887	360.920	360.954	360.820
130.0	356.881	356.905	356.927	356.881	356.836	356.927	357.016	356.949	356.881	356.792
132.5	344.664	344.721	344.777	344.755	344.732	344.810	344.889	344.799	344.710	344.721
135.0	332.447	332.538	332.627	332.627	332.627	332.694	332.762	332.651	332.538	332.651
137.5	326.116	326.160	326.206	326.173	326.138	326.138	326.138	326.071	326.004	326.038
140.0	319.784	319.784	319.784	319.717	319.650	319.582	319.515	319.493	319.470	319.426
142.5	314.034	314.011	313.989	314.011	314.034	313.956	313.877	313.832	313.787	313.821
145.0	308.282	308.238	308.193	308.306	308.417	308.328	308.238	308.171	308.104	308.216
147.5	306.203	306.225	306.247	306.303	306.359	306.303	306.247	306.157	306.068	306.190
150.0	304.122	304.211	304.300	304.300	304.300	304.278	304.255	304.144	304.031	304.166

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CANDELA TABULATION - (Cont.)

152.5	300.520	300.575	300.631	300.531	300.429	300.407	300.385	300.396	300.407	300.474
155.0	296.916	296.940	296.962	296.760	296.558	296.536	296.514	296.649	296.782	296.782
157.5	292.419	292.385	292.352	292.274	292.196	292.185	292.174	292.207	292.240	292.240
160.0	287.921	287.832	287.743	287.788	287.832	287.832	287.832	287.765	287.697	287.697
162.5	284.476	284.476	284.476	284.476	284.476	284.465	284.454	284.454	284.454	284.487
165.0	281.030	281.119	281.209	281.165	281.119	281.097	281.075	281.143	281.209	281.276
167.5	278.412	278.491	278.569	278.524	278.480	278.401	278.323	278.178	278.032	278.323
170.0	275.795	275.862	275.929	275.884	275.839	275.705	275.571	275.213	274.854	275.369
172.5	273.066	273.066	273.066	272.975	272.886	272.852	272.819	272.651	272.484	272.773
175.0	270.335	270.268	270.201	270.066	269.932	269.999	270.066	270.090	270.112	270.179
177.5	273.557	273.524	273.490	273.423	273.355	273.390	273.423	273.434	273.446	273.479
180.0	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913

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	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734
2.5	273.490	273.479	273.468	273.423	273.377	273.423	273.468	273.423	273.377	273.355
5.0	270.245	270.223	270.201	270.112	270.021	270.112	270.201	270.112	270.021	269.977
7.5	272.975	272.931	272.886	272.897	272.908	272.919	272.931	272.897	272.864	272.908
10.0	275.705	275.638	275.571	275.683	275.795	275.727	275.660	275.683	275.705	275.840
12.5	278.458	278.423	278.390	278.480	278.569	278.491	278.412	278.502	278.592	278.558
15.0	281.209	281.209	281.209	281.276	281.343	281.254	281.165	281.321	281.478	281.277
17.5	284.408	284.454	284.499	284.543	284.588	284.521	284.454	284.532	284.610	284.488
20.0	287.608	287.699	287.788	287.810	287.832	287.788	287.743	287.743	287.743	287.699
22.5	292.083	292.520	292.956	292.956	292.956	292.554	292.150	292.185	292.218	292.185
25.0	296.558	297.342	298.124	298.102	298.080	297.320	296.558	296.625	296.693	296.671
27.5	300.429	300.787	301.146	301.100	301.056	300.731	300.407	300.396	300.385	300.429
30.0	304.300	304.233	304.166	304.098	304.031	304.144	304.255	304.166	304.076	304.189
32.5	306.225	306.214	306.203	306.146	306.090	306.203	306.314	306.247	306.179	306.203
35.0	308.149	308.194	308.238	308.194	308.149	308.262	308.373	308.328	308.282	308.216
37.5	313.788	313.843	313.899	313.854	313.810	313.921	314.034	314.011	313.989	313.943
40.0	319.426	319.493	319.560	319.515	319.470	319.582	319.694	319.694	319.694	319.672
42.5	325.937	326.004	326.071	326.104	326.138	326.206	326.273	326.273	326.273	326.217
45.0	332.447	332.515	332.582	332.694	332.806	332.829	332.851	332.851	332.851	332.762
47.5	344.777	344.721	344.664	344.799	344.933	344.955	344.979	344.966	344.955	344.855
50.0	357.105	356.927	356.747	356.903	357.060	357.083	357.105	357.083	357.060	356.949
52.5	360.865	360.853	360.842	360.942	361.043	361.009	360.976	360.909	360.842	360.785
55.0	364.623	364.780	364.936	364.982	365.026	364.936	364.847	364.736	364.623	364.623
57.5	372.724	372.779	372.835	372.779	372.724	372.711	372.700	372.667	372.635	372.600
60.0	380.823	380.779	380.733	380.577	380.420	380.488	380.554	380.599	380.644	380.577
62.5	386.551	386.529	386.507	386.349	386.193	386.193	386.193	386.260	386.327	386.271
65.0	392.279	392.279	392.279	392.123	391.965	391.899	391.832	391.921	392.010	391.966
67.5	397.962	397.571	397.180	397.493	397.806	397.682	397.560	397.604	397.649	397.626
70.0	403.645	402.863	402.079	402.863	403.645	403.467	403.287	403.287	403.287	403.287
72.5	404.876	404.127	403.377	403.769	404.160	404.138	404.115	404.058	404.003	404.036
75.0	406.106	405.391	404.675	404.675	404.675	404.809	404.942	404.831	404.719	404.786
77.5	402.952	402.572	402.191	402.157	402.124	402.213	402.303	402.314	402.325	402.359
80.0	399.796	399.752	399.707	399.640	399.572	399.618	399.663	399.797	399.931	399.931
82.5	400.669	400.871	401.073	400.837	400.602	400.591	400.580	400.725	400.871	400.837
85.0	401.542	401.990	402.437	402.035	401.631	401.564	401.497	401.653	401.810	401.744
87.5	400.760	400.994	401.229	401.016	400.804	400.680	400.558	400.636	400.714	400.758
90.0	399.976	399.998	400.020	399.998	399.976	399.797	399.618	399.618	399.618	399.774
92.5	400.849	400.871	400.893	400.893	400.893	400.691	400.491	400.535	400.580	400.692
95.0	401.721	401.744	401.766	401.788	401.810	401.586	401.362	401.453	401.542	401.609
97.5	400.804	400.815	400.827	400.893	400.960	400.849	400.736	400.647	400.558	400.725

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CANDELA TABULATION - (Cont.)

100.0	399.887	399.887	399.887	399.999	400.110	400.110	400.110	399.841	399.572	399.841
102.5	402.348	402.337	402.326	402.415	402.504	402.437	402.370	402.270	402.168	402.359
105.0	404.809	404.787	404.764	404.831	404.898	404.764	404.629	404.697	404.764	404.876
107.5	402.997	403.052	403.108	403.063	403.019	403.556	404.093	404.093	404.093	404.127
110.0	401.184	401.318	401.453	401.296	401.139	402.348	403.556	403.489	403.421	403.377
112.5	396.709	396.676	396.643	396.530	396.418	397.123	397.828	397.760	397.693	397.660
115.0	392.234	392.034	391.832	391.764	391.697	391.899	392.099	392.032	391.965	391.943
117.5	386.372	386.338	386.305	386.249	386.193	386.293	386.394	386.394	386.394	386.383
120.0	380.510	380.644	380.777	380.733	380.688	380.688	380.688	380.755	380.823	380.823
122.5	372.589	372.722	372.857	372.779	372.700	372.711	372.724	372.746	372.768	372.846
125.0	364.667	364.802	364.936	364.825	364.713	364.736	364.758	364.736	364.713	364.869
127.5	360.685	360.842	360.998	360.864	360.730	360.730	360.730	360.776	360.820	360.865
130.0	356.703	356.881	357.060	356.903	356.747	356.725	356.703	356.816	356.927	356.859
132.5	344.733	344.788	344.844	344.766	344.688	344.688	344.688	344.688	344.688	344.755
135.0	332.762	332.694	332.627	332.627	332.627	332.649	332.671	332.560	332.447	332.649
137.5	326.071	326.060	326.049	326.082	326.116	326.149	326.182	326.093	326.004	326.105
140.0	319.381	319.426	319.470	319.537	319.604	319.650	319.694	319.628	319.560	319.560
142.5	313.854	313.899	313.943	313.978	314.011	313.921	313.832	313.888	313.945	313.967
145.0	308.328	308.373	308.417	308.417	308.417	308.193	307.969	308.149	308.328	308.373
147.5	306.314	306.269	306.225	306.292	306.359	306.336	306.314	306.225	306.135	306.303
150.0	304.300	304.166	304.031	304.166	304.300	304.480	304.658	304.300	303.942	304.233
152.5	300.542	300.496	300.451	300.474	300.496	300.598	300.698	300.496	300.295	300.474
155.0	296.782	296.827	296.871	296.782	296.693	296.716	296.738	296.693	296.647	296.715
157.5	292.240	292.240	292.240	292.240	292.241	292.196	292.152	292.106	292.061	292.196
160.0	287.697	287.653	287.608	287.699	287.788	287.677	287.564	287.519	287.474	287.675
162.5	284.521	284.443	284.364	284.454	284.544	284.454	284.364	284.375	284.386	284.465
165.0	281.343	281.232	281.119	281.210	281.299	281.232	281.165	281.232	281.299	281.254
167.5	278.614	278.491	278.367	278.480	278.592	278.580	278.569	278.547	278.525	278.480
170.0	275.884	275.749	275.615	275.749	275.884	275.929	275.973	275.862	275.749	275.705
172.5	273.064	272.997	272.930	272.930	272.931	272.986	273.042	272.997	272.953	272.875
175.0	270.245	270.245	270.245	270.112	269.977	270.044	270.112	270.134	270.156	270.044
177.5	273.512	273.512	273.512	273.445	273.379	273.412	273.446	273.457	273.468	273.412
180.0	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913

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	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734
2.5	273.333	273.333	273.333	273.401	273.468	273.468	273.468	273.434	273.401	273.401
5.0	269.932	269.932	269.932	270.066	270.201	270.201	270.201	270.134	270.066	270.066
7.5	272.953	272.908	272.864	272.931	272.998	272.975	272.953	272.908	272.864	272.886
10.0	275.973	275.884	275.795	275.795	275.795	275.751	275.705	275.683	275.660	275.705
12.5	278.525	278.502	278.480	278.558	278.636	278.547	278.458	278.423	278.390	278.458
15.0	281.075	281.121	281.165	281.321	281.478	281.343	281.209	281.165	281.119	281.210
17.5	284.364	284.410	284.454	284.566	284.677	284.510	284.341	284.419	284.499	284.543
20.0	287.653	287.699	287.743	287.810	287.877	287.675	287.474	287.675	287.877	287.877
22.5	292.150	292.150	292.150	292.229	292.308	292.196	292.083	292.240	292.397	292.632
25.0	296.647	296.603	296.558	296.649	296.738	296.716	296.693	296.805	296.916	297.387
27.5	300.474	300.362	300.251	300.362	300.474	300.396	300.318	300.474	300.631	300.822
30.0	304.300	304.122	303.942	304.076	304.211	304.076	303.942	304.144	304.345	304.256
32.5	306.225	306.101	305.979	306.079	306.181	306.179	306.179	306.247	306.314	306.269
35.0	308.149	308.082	308.015	308.082	308.149	308.284	308.417	308.350	308.282	308.282
37.5	313.899	313.799	313.698	313.765	313.832	313.956	314.078	314.056	314.034	313.943
40.0	319.650	319.515	319.381	319.448	319.515	319.628	319.739	319.762	319.784	319.606
42.5	326.160	326.049	325.937	326.038	326.138	326.138	326.138	326.149	326.162	326.071
45.0	332.671	332.582	332.493	332.627	332.762	332.651	332.538	332.538	332.538	332.538

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CANDELA TABULATION - (Cont.)

47.5	344.754	344.699	344.642	344.721	344.799	344.799	344.799	344.732	344.666	344.744
50.0	356.836	356.814	356.792	356.814	356.836	356.949	357.060	356.927	356.792	356.949
52.5	360.730	360.798	360.865	360.864	360.864	360.887	360.909	360.909	360.909	360.976
55.0	364.623	364.780	364.936	364.914	364.891	364.825	364.758	364.892	365.026	365.004
57.5	372.567	372.645	372.724	372.735	372.746	372.700	372.656	372.700	372.746	372.824
60.0	380.510	380.510	380.510	380.555	380.599	380.577	380.554	380.510	380.464	380.644
62.5	386.216	386.227	386.238	386.227	386.216	386.215	386.215	386.204	386.193	386.282
65.0	391.921	391.943	391.965	391.899	391.832	391.854	391.876	391.899	391.921	391.921
67.5	397.604	397.391	397.178	397.402	397.627	397.682	397.738	397.704	397.671	397.693
70.0	403.287	402.839	402.392	402.907	403.421	403.511	403.600	403.511	403.421	403.467
72.5	404.071	403.858	403.645	403.869	404.093	404.171	404.249	404.160	404.071	404.071
75.0	404.853	404.876	404.898	404.831	404.764	404.831	404.898	404.809	404.719	404.675
77.5	402.392	402.415	402.437	402.303	402.168	402.191	402.213	402.213	402.213	402.224
80.0	399.931	399.954	399.976	399.774	399.572	399.550	399.528	399.618	399.707	399.774
82.5	400.804	400.782	400.760	400.625	400.491	400.569	400.647	400.669	400.692	400.669
85.0	401.677	401.609	401.542	401.475	401.408	401.587	401.766	401.722	401.677	401.566
87.5	400.804	400.760	400.714	400.669	400.625	400.692	400.760	400.703	400.647	400.647
90.0	399.931	399.909	399.887	399.865	399.841	399.797	399.752	399.685	399.618	399.730
92.5	400.804	400.736	400.671	400.658	400.647	400.658	400.669	400.647	400.625	400.658
95.0	401.677	401.566	401.453	401.453	401.453	401.520	401.586	401.609	401.631	401.587
97.5	400.894	400.725	400.558	400.692	400.827	400.771	400.714	400.815	400.916	400.804
100.0	400.110	399.887	399.663	399.932	400.200	400.021	399.841	400.021	400.200	400.021
102.5	402.550	402.381	402.213	402.381	402.550	402.426	402.303	402.448	402.594	402.515
105.0	404.988	404.876	404.764	404.831	404.898	404.831	404.764	404.876	404.988	405.011
107.5	404.160	404.182	404.205	404.160	404.116	404.060	404.003	404.149	404.294	403.780
110.0	403.332	403.489	403.645	403.489	403.332	403.288	403.243	403.421	403.600	402.548
112.5	397.627	397.749	397.873	397.817	397.760	397.716	397.671	397.760	397.850	397.178
115.0	391.921	392.010	392.099	392.145	392.189	392.145	392.099	392.099	392.099	391.808
117.5	386.372	386.316	386.260	386.371	386.484	386.449	386.416	386.383	386.349	386.193
120.0	380.823	380.622	380.420	380.599	380.777	380.755	380.733	380.666	380.599	380.577
122.5	372.924	372.813	372.702	372.711	372.722	372.711	372.700	372.656	372.611	372.644
125.0	365.026	365.004	364.982	364.825	364.667	364.667	364.667	364.645	364.623	364.713
127.5	360.909	360.876	360.843	360.820	360.798	360.809	360.820	360.842	360.865	360.887
130.0	356.792	356.748	356.703	356.816	356.927	356.949	356.971	357.038	357.105	357.061
132.5	344.822	344.721	344.620	344.677	344.733	344.810	344.888	344.832	344.777	344.754
135.0	332.851	332.694	332.538	332.538	332.538	332.672	332.806	332.627	332.447	332.447
137.5	326.206	326.160	326.116	326.127	326.138	326.116	326.093	326.026	325.959	325.926
140.0	319.560	319.628	319.694	319.717	319.739	319.560	319.381	319.426	319.470	319.404
142.5	313.989	313.932	313.876	313.921	313.967	313.854	313.743	313.787	313.832	313.854
145.0	308.417	308.238	308.059	308.126	308.193	308.149	308.104	308.149	308.193	308.306
147.5	306.470	306.359	306.247	306.325	306.403	306.258	306.113	306.270	306.426	306.370
150.0	304.524	304.480	304.435	304.524	304.613	304.367	304.122	304.391	304.658	304.435
152.5	300.653	300.564	300.474	300.553	300.631	300.531	300.430	300.520	300.609	300.553
155.0	296.782	296.649	296.514	296.581	296.647	296.693	296.738	296.649	296.558	296.671
157.5	292.330	292.161	291.994	292.128	292.263	292.285	292.308	292.161	292.016	292.172
160.0	287.877	287.675	287.474	287.675	287.877	287.877	287.877	287.675	287.474	287.675
162.5	284.543	284.465	284.386	284.510	284.633	284.644	284.655	284.565	284.476	284.510
165.0	281.209	281.254	281.299	281.344	281.388	281.410	281.432	281.456	281.478	281.343
167.5	278.434	278.445	278.458	278.525	278.592	278.636	278.681	278.669	278.658	278.580
170.0	275.660	275.638	275.615	275.705	275.795	275.862	275.929	275.884	275.839	275.817
172.5	272.797	272.830	272.864	272.942	273.020	273.088	273.155	273.064	272.975	273.009
175.0	269.932	270.022	270.112	270.179	270.245	270.312	270.379	270.246	270.112	270.201
177.5	273.355	273.401	273.446	273.479	273.512	273.546	273.579	273.512	273.446	273.490
180.0	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913

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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	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734
2.5	273.401	273.412	273.423	273.479	273.535	273.501	273.468	273.423	273.377	273.366
5.0	270.066	270.090	270.112	270.224	270.335	270.268	270.201	270.112	270.021	269.999
7.5	272.908	272.919	272.931	273.042	273.155	273.099	273.042	272.930	272.819	272.875
10.0	275.749	275.749	275.749	275.862	275.973	275.929	275.884	275.749	275.615	275.749
12.5	278.525	278.469	278.412	278.547	278.681	278.647	278.614	278.569	278.524	278.513
15.0	281.299	281.188	281.075	281.232	281.388	281.366	281.343	281.388	281.432	281.276
17.5	284.588	284.532	284.477	284.566	284.655	284.621	284.588	284.543	284.499	284.397
20.0	287.877	287.877	287.877	287.899	287.921	287.877	287.832	287.699	287.564	287.519
22.5	292.867	292.856	292.845	292.542	292.240	292.553	292.867	292.800	292.732	292.765
25.0	297.857	297.835	297.811	297.185	296.558	297.229	297.901	297.901	297.901	298.013
27.5	301.011	300.966	300.922	300.720	300.518	300.877	301.235	301.246	301.257	301.224
30.0	304.166	304.098	304.031	304.255	304.479	304.524	304.569	304.591	304.613	304.435
32.5	306.225	306.123	306.023	306.123	306.225	306.325	306.426	306.403	306.381	306.336
35.0	308.282	308.149	308.015	307.993	307.969	308.126	308.282	308.216	308.149	308.238
37.5	313.854	313.821	313.788	313.787	313.787	313.821	313.854	313.877	313.899	313.888
40.0	319.426	319.493	319.560	319.582	319.604	319.515	319.426	319.538	319.650	319.538
42.5	325.982	326.016	326.049	326.105	326.160	325.836	325.512	325.825	326.138	326.093
45.0	332.538	332.538	332.538	332.627	332.716	332.158	331.598	332.112	332.627	332.649
47.5	344.822	344.766	344.710	344.766	344.822	344.531	344.240	344.553	344.866	344.777
50.0	357.105	356.994	356.881	356.905	356.927	356.905	356.881	356.994	357.105	356.905
52.5	361.043	360.998	360.954	360.865	360.776	360.820	360.865	360.865	360.865	360.763
55.0	364.982	365.004	365.026	364.825	364.623	364.736	364.847	364.736	364.623	364.623
57.5	372.902	372.869	372.835	372.768	372.700	372.700	372.700	372.622	372.544	372.544
60.0	380.823	380.733	380.644	380.711	380.777	380.666	380.554	380.510	380.464	380.464
62.5	386.372	386.349	386.327	386.427	386.529	386.462	386.394	386.349	386.305	386.260
65.0	391.921	391.966	392.010	392.145	392.279	392.257	392.234	392.190	392.145	392.055
67.5	397.716	397.414	397.112	397.526	397.940	397.526	397.112	397.089	397.067	397.022
70.0	403.511	402.863	402.213	402.907	403.600	402.795	401.990	401.990	401.990	401.990
72.5	404.071	403.791	403.512	404.160	404.809	404.484	404.160	404.104	404.049	404.014
75.0	404.629	404.720	404.809	405.413	406.017	406.174	406.330	406.219	406.106	406.039
77.5	402.235	402.303	402.370	402.605	402.841	402.997	403.154	403.030	402.907	402.941
80.0	399.841	399.887	399.931	399.797	399.663	399.819	399.976	399.841	399.707	399.841
82.5	400.647	400.904	401.162	400.916	400.671	400.927	401.184	401.173	401.162	401.229
85.0	401.453	401.922	402.392	402.035	401.677	402.035	402.392	402.504	402.616	402.616
87.5	400.647	400.927	401.206	401.005	400.804	401.005	401.206	401.217	401.229	401.273
90.0	399.841	399.931	400.020	399.976	399.931	399.976	400.020	399.931	399.841	399.931
92.5	400.692	400.771	400.849	400.815	400.782	400.736	400.691	400.669	400.647	400.782
95.0	401.542	401.609	401.677	401.655	401.631	401.497	401.362	401.408	401.453	401.631
97.5	400.692	400.703	400.714	400.782	400.849	400.725	400.602	400.725	400.849	400.849
100.0	399.841	399.797	399.752	399.909	400.065	399.954	399.841	400.043	400.244	400.065
102.5	402.437	402.381	402.326	402.392	402.459	402.381	402.303	402.403	402.504	402.381
105.0	405.033	404.966	404.898	404.876	404.853	404.809	404.764	404.764	404.764	404.697
107.5	403.265	403.130	402.997	403.097	403.198	403.130	403.063	403.007	402.952	402.974
110.0	401.497	401.296	401.095	401.318	401.542	401.453	401.362	401.251	401.139	401.251
112.5	396.507	396.507	396.509	396.676	396.843	396.765	396.687	396.596	396.507	396.541
115.0	391.517	391.719	391.921	392.034	392.145	392.077	392.010	391.943	391.876	391.832
117.5	386.036	386.182	386.327	386.405	386.484	386.383	386.282	386.238	386.193	386.193
120.0	380.554	380.644	380.733	380.779	380.823	380.688	380.554	380.532	380.510	380.555
122.5	372.678	372.735	372.791	372.768	372.746	372.746	372.746	372.711	372.678	372.656
125.0	364.802	364.825	364.847	364.758	364.667	364.802	364.936	364.892	364.847	364.758
127.5	360.909	360.876	360.842	360.809	360.774	360.798	360.820	360.798	360.776	360.763
130.0	357.016	356.927	356.836	356.859	356.881	356.792	356.703	356.703	356.703	356.770

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CANDELA TABULATION - (Cont.)

132.5	344.732	344.710	344.688	344.721	344.755	344.732	344.710	344.666	344.620	344.688
135.0	332.447	332.493	332.538	332.583	332.627	332.672	332.716	332.627	332.538	332.605
137.5	325.893	325.993	326.094	326.105	326.116	326.171	326.228	326.171	326.116	326.116
140.0	319.337	319.493	319.650	319.628	319.604	319.672	319.739	319.717	319.694	319.628
142.5	313.877	313.910	313.945	313.888	313.832	313.943	314.056	313.978	313.899	313.865
145.0	308.417	308.328	308.238	308.149	308.059	308.216	308.373	308.238	308.104	308.104
147.5	306.314	306.270	306.225	306.101	305.979	306.057	306.135	306.101	306.068	306.236
150.0	304.211	304.211	304.211	304.054	303.898	303.898	303.898	303.965	304.031	304.367
152.5	300.496	300.507	300.520	300.363	300.207	300.296	300.385	300.351	300.318	300.463
155.0	296.782	296.805	296.827	296.671	296.514	296.693	296.871	296.738	296.603	296.559
157.5	292.330	292.285	292.241	292.163	292.084	292.174	292.263	292.229	292.196	292.196
160.0	287.877	287.766	287.653	287.653	287.653	287.653	287.653	287.721	287.788	287.833
162.5	284.543	284.465	284.386	284.408	284.432	284.476	284.521	284.510	284.499	284.577
165.0	281.209	281.165	281.119	281.165	281.209	281.299	281.388	281.299	281.209	281.321
167.5	278.502	278.469	278.434	278.491	278.547	278.345	278.145	278.289	278.434	278.535
170.0	275.795	275.773	275.749	275.817	275.884	275.392	274.900	275.280	275.660	275.749
172.5	273.042	272.986	272.931	272.986	273.042	272.740	272.438	272.684	272.931	272.953
175.0	270.290	270.201	270.112	270.157	270.201	270.090	269.977	270.090	270.201	270.157
177.5	273.535	273.490	273.446	273.468	273.490	273.434	273.379	273.434	273.490	273.468
180.0	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913

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	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734
2.5	273.355	273.445	273.535	273.445	273.355	273.401	273.445	273.467	273.490	273.512
5.0	269.977	270.157	270.335	270.157	269.977	270.066	270.156	270.201	270.245	270.290
7.5	272.931	272.953	272.975	272.964	272.953	272.897	272.841	272.953	273.064	273.088
10.0	275.884	275.749	275.615	275.773	275.929	275.727	275.526	275.705	275.884	275.884
12.5	278.502	278.445	278.390	278.469	278.547	278.491	278.434	278.558	278.681	278.636
15.0	281.119	281.143	281.165	281.165	281.165	281.254	281.343	281.410	281.478	281.388
17.5	284.297	284.386	284.477	284.488	284.499	284.521	284.543	284.610	284.677	284.610
20.0	287.474	287.631	287.788	287.810	287.832	287.788	287.743	287.810	287.877	287.833
22.5	292.800	292.576	292.352	292.632	292.911	292.844	292.778	292.833	292.889	292.576
25.0	298.124	297.520	296.916	297.453	297.990	297.901	297.811	297.857	297.901	297.320
27.5	301.190	300.977	300.765	300.966	301.168	301.202	301.235	301.257	301.280	300.989
30.0	304.255	304.435	304.613	304.480	304.345	304.502	304.658	304.658	304.658	304.658
32.5	306.292	306.325	306.359	306.348	306.337	306.415	306.494	306.426	306.359	306.426
35.0	308.328	308.216	308.104	308.216	308.328	308.328	308.328	308.193	308.059	308.193
37.5	313.877	313.810	313.743	313.899	314.056	314.056	314.056	313.967	313.876	313.876
40.0	319.426	319.404	319.381	319.582	319.784	319.784	319.784	319.739	319.694	319.560
42.5	326.049	326.082	326.116	326.184	326.251	326.273	326.295	326.206	326.116	325.713
45.0	332.671	332.762	332.851	332.784	332.716	332.762	332.806	332.672	332.538	331.867
47.5	344.688	344.755	344.822	345.057	345.292	345.314	345.336	345.314	345.292	344.855
50.0	356.703	356.748	356.792	357.329	357.866	357.866	357.866	357.956	358.045	357.844
52.5	360.663	360.674	360.685	361.009	361.334	361.300	361.267	361.391	361.514	361.312
55.0	364.623	364.601	364.578	364.691	364.802	364.735	364.667	364.825	364.982	364.780
57.5	372.544	372.589	372.633	372.633	372.633	372.600	372.566	372.689	372.813	372.735
60.0	380.464	380.577	380.688	380.577	380.464	380.464	380.464	380.555	380.644	380.690
62.5	386.215	386.349	386.484	386.360	386.238	386.271	386.305	386.360	386.416	386.416
65.0	391.965	392.123	392.279	392.145	392.010	392.077	392.145	392.167	392.189	392.145
67.5	396.978	397.145	397.314	397.167	397.022	397.078	397.134	397.112	397.089	397.134
70.0	401.990	402.170	402.348	402.191	402.034	402.079	402.124	402.057	401.990	402.124
72.5	403.981	404.049	404.116	404.127	404.138	404.093	404.049	404.036	404.025	404.082
75.0	405.972	405.928	405.883	406.062	406.241	406.106	405.972	406.017	406.061	406.039
77.5	402.974	402.896	402.817	402.885	402.952	402.930	402.907	403.265	403.623	403.534

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CANDELA TABULATION - (Cont.)

80.0	399.976	399.865	399.752	399.708	399.663	399.752	399.841	400.513	401.184	401.027
82.5	401.296	401.206	401.117	401.140	401.162	401.129	401.095	401.442	401.788	401.732
85.0	402.616	402.548	402.481	402.572	402.661	402.504	402.348	402.370	402.392	402.437
87.5	401.318	401.273	401.229	401.195	401.162	401.117	401.073	401.038	401.005	401.027
90.0	400.020	399.998	399.976	399.819	399.663	399.730	399.796	399.707	399.618	399.618
92.5	400.915	400.860	400.804	400.703	400.603	400.625	400.647	400.602	400.558	400.591
95.0	401.810	401.721	401.631	401.587	401.542	401.520	401.497	401.497	401.497	401.564
97.5	400.849	400.815	400.782	400.793	400.804	400.758	400.714	400.703	400.692	400.725
100.0	399.887	399.909	399.931	399.998	400.065	399.998	399.931	399.909	399.887	399.887
102.5	402.259	402.303	402.348	402.381	402.415	402.448	402.482	402.459	402.437	402.370
105.0	404.629	404.697	404.764	404.764	404.764	404.898	405.033	405.011	404.988	404.853
107.5	402.996	403.030	403.063	403.041	403.019	403.108	403.198	403.165	403.130	403.097
110.0	401.362	401.362	401.362	401.318	401.273	401.318	401.362	401.318	401.273	401.340
112.5	396.574	396.574	396.574	396.552	396.530	396.574	396.620	396.552	396.485	396.563
115.0	391.786	391.786	391.786	391.786	391.786	391.832	391.876	391.786	391.697	391.786
117.5	386.193	386.238	386.282	386.238	386.193	386.260	386.327	386.215	386.103	386.171
120.0	380.599	380.688	380.777	380.688	380.599	380.688	380.777	380.644	380.510	380.555
122.5	372.633	372.746	372.857	372.801	372.746	372.813	372.880	372.779	372.678	372.791
125.0	364.667	364.802	364.936	364.914	364.891	364.936	364.982	364.914	364.847	365.027
127.5	360.752	360.887	361.021	360.965	360.909	360.954	361.000	360.909	360.820	360.965
130.0	356.836	356.971	357.105	357.016	356.927	356.972	357.016	356.905	356.792	356.905
132.5	344.754	344.855	344.955	344.888	344.822	344.810	344.799	344.743	344.688	344.732
135.0	332.671	332.738	332.806	332.762	332.716	332.649	332.582	332.582	332.582	332.560
137.5	326.116	326.116	326.116	326.116	326.116	326.138	326.160	326.160	326.160	326.071
140.0	319.560	319.493	319.426	319.471	319.515	319.628	319.739	319.739	319.739	319.582
142.5	313.832	313.810	313.788	313.877	313.967	314.011	314.056	314.023	313.989	313.945
145.0	308.104	308.127	308.149	308.284	308.417	308.395	308.373	308.306	308.238	308.306
147.5	306.403	306.281	306.157	306.179	306.203	306.247	306.292	306.292	306.292	306.292
150.0	304.702	304.435	304.166	304.076	303.987	304.100	304.211	304.278	304.345	304.278
152.5	300.609	300.553	300.496	300.385	300.273	300.318	300.363	300.396	300.430	300.485
155.0	296.514	296.671	296.827	296.693	296.558	296.536	296.514	296.514	296.514	296.693
157.5	292.196	292.252	292.308	292.185	292.061	292.061	292.061	292.117	292.174	292.185
160.0	287.877	287.833	287.788	287.677	287.564	287.586	287.608	287.721	287.832	287.675
162.5	284.655	284.599	284.544	284.510	284.477	284.432	284.386	284.487	284.588	284.499
165.0	281.432	281.366	281.299	281.344	281.388	281.277	281.165	281.254	281.343	281.321
167.5	278.636	278.569	278.503	278.514	278.525	278.469	278.412	278.434	278.458	278.547
170.0	275.839	275.773	275.705	275.683	275.660	275.660	275.660	275.616	275.571	275.773
172.5	272.975	272.919	272.864	272.864	272.864	272.886	272.908	272.908	272.908	272.930
175.0	270.112	270.066	270.021	270.044	270.066	270.112	270.156	270.201	270.245	270.088
177.5	273.446	273.423	273.401	273.412	273.423	273.445	273.468	273.490	273.512	273.434
180.0	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913

**Vert.
Angles**

Horizontal Angles

	<u>250.0</u>	<u>252.5</u>	<u>255.0</u>	<u>257.5</u>	<u>260.0</u>	<u>262.5</u>	<u>265.0</u>	<u>267.5</u>	<u>270.0</u>	<u>272.5</u>
0.0	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734
2.5	273.535	273.512	273.490	273.456	273.423	273.490	273.557	273.445	273.333	273.333
5.0	270.335	270.290	270.245	270.179	270.112	270.246	270.379	270.156	269.932	269.932
7.5	273.110	273.064	273.020	272.931	272.842	272.975	273.110	273.020	272.931	272.931
10.0	275.884	275.840	275.795	275.683	275.571	275.705	275.839	275.884	275.929	275.929
12.5	278.592	278.547	278.502	278.458	278.412	278.536	278.658	278.603	278.547	278.514
15.0	281.299	281.254	281.209	281.232	281.254	281.366	281.478	281.321	281.165	281.097
17.5	284.544	284.543	284.543	284.499	284.454	284.521	284.588	284.521	284.454	284.454
20.0	287.788	287.833	287.877	287.766	287.653	287.675	287.697	287.721	287.743	287.810
22.5	292.263	292.543	292.822	292.833	292.845	292.498	292.150	292.185	292.218	292.307
25.0	296.738	297.253	297.766	297.901	298.035	297.320	296.603	296.649	296.693	296.805

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CANDELA TABULATION - (Cont.)

27.5	300.698	300.900	301.100	301.179	301.257	300.866	300.474	300.542	300.609	300.597
30.0	304.658	304.547	304.435	304.457	304.479	304.413	304.345	304.435	304.524	304.389
32.5	306.494	306.426	306.359	306.325	306.292	306.325	306.359	306.392	306.426	306.336
35.0	308.328	308.306	308.282	308.193	308.104	308.238	308.373	308.351	308.328	308.284
37.5	313.877	314.156	314.436	314.123	313.810	313.932	314.056	314.011	313.967	313.932
40.0	319.426	320.008	320.589	320.052	319.515	319.628	319.739	319.672	319.604	319.582
42.5	325.311	326.004	326.697	326.082	325.467	325.882	326.295	326.171	326.049	326.060
45.0	331.195	332.001	332.806	332.112	331.419	332.136	332.851	332.672	332.493	332.538
47.5	344.419	344.844	345.268	344.732	344.195	344.586	344.979	344.553	344.128	344.430
50.0	357.642	357.687	357.731	357.351	356.971	357.038	357.105	356.434	355.763	356.323
52.5	361.111	361.144	361.178	361.087	360.998	360.987	360.976	360.618	360.261	360.596
55.0	364.578	364.601	364.623	364.825	365.026	364.936	364.847	364.803	364.758	364.871
57.5	372.656	372.689	372.724	372.790	372.857	372.768	372.678	372.667	372.656	372.746
60.0	380.733	380.779	380.823	380.755	380.688	380.599	380.510	380.532	380.554	380.621
62.5	386.416	386.473	386.529	386.451	386.372	386.360	386.349	386.327	386.305	386.316
65.0	392.099	392.167	392.234	392.145	392.055	392.123	392.189	392.123	392.055	392.010
67.5	397.178	397.189	397.202	397.134	397.067	397.178	397.291	397.246	397.202	397.180
70.0	402.257	402.213	402.168	402.124	402.079	402.235	402.392	402.370	402.348	402.348
72.5	404.138	404.171	404.205	404.182	404.160	404.216	404.272	404.272	404.272	404.216
75.0	406.017	406.130	406.241	406.241	406.241	406.197	406.152	406.174	406.196	406.084
77.5	403.445	403.545	403.645	403.679	403.712	403.669	403.623	403.690	403.758	403.600
80.0	400.871	400.960	401.049	401.117	401.184	401.140	401.095	401.207	401.318	401.117
82.5	401.677	401.699	401.721	401.788	401.855	401.822	401.788	401.822	401.855	401.799
85.0	402.481	402.437	402.392	402.459	402.526	402.504	402.481	402.437	402.392	402.482
87.5	401.049	401.128	401.206	401.162	401.117	401.139	401.162	401.095	401.027	401.062
90.0	399.618	399.819	400.020	399.863	399.707	399.774	399.841	399.752	399.663	399.641
92.5	400.625	400.714	400.804	400.702	400.602	400.680	400.760	400.736	400.714	400.658
95.0	401.631	401.609	401.586	401.542	401.497	401.587	401.677	401.722	401.766	401.677
97.5	400.760	400.747	400.736	400.793	400.849	400.815	400.782	400.860	400.938	400.893
100.0	399.887	399.887	399.887	400.043	400.200	400.043	399.887	399.999	400.110	400.110
102.5	402.303	402.359	402.415	402.426	402.437	402.370	402.303	402.437	402.572	402.482
105.0	404.719	404.831	404.942	404.809	404.675	404.697	404.719	404.876	405.033	404.855
107.5	403.063	403.085	403.108	403.074	403.041	403.030	403.019	403.141	403.265	403.097
110.0	401.408	401.340	401.273	401.340	401.408	401.364	401.318	401.408	401.497	401.340
112.5	396.642	396.518	396.396	396.429	396.463	396.530	396.598	396.552	396.507	396.474
115.0	391.876	391.697	391.517	391.517	391.517	391.697	391.876	391.697	391.517	391.608
117.5	386.238	386.160	386.081	386.092	386.103	386.282	386.462	386.271	386.081	386.204
120.0	380.599	380.622	380.644	380.666	380.688	380.868	381.046	380.846	380.644	380.801
122.5	372.902	372.902	372.902	372.846	372.790	372.969	373.148	373.048	372.947	372.991
125.0	365.205	365.183	365.160	365.026	364.891	365.071	365.249	365.249	365.249	365.182
127.5	361.111	361.032	360.954	360.931	360.909	360.943	360.976	361.076	361.178	361.144
130.0	357.016	356.881	356.747	356.837	356.927	356.816	356.703	356.905	357.105	357.105
132.5	344.777	344.710	344.642	344.721	344.799	344.375	343.949	344.128	344.307	344.251
135.0	332.538	332.538	332.538	332.605	332.671	331.934	331.195	331.352	331.508	331.397
137.5	325.982	326.071	326.162	326.171	326.182	325.825	325.467	325.445	325.423	325.467
140.0	319.426	319.606	319.784	319.739	319.694	319.717	319.739	319.538	319.337	319.538
142.5	313.899	313.978	314.056	313.956	313.854	313.899	313.945	313.854	313.765	313.821
145.0	308.373	308.351	308.328	308.171	308.015	308.082	308.149	308.171	308.193	308.104
147.5	306.292	306.281	306.270	306.179	306.090	306.101	306.113	306.203	306.292	306.124
150.0	304.211	304.211	304.211	304.189	304.166	304.122	304.076	304.233	304.389	304.144
152.5	300.542	300.542	300.542	300.474	300.407	300.396	300.385	300.463	300.542	300.385
155.0	296.871	296.871	296.871	296.760	296.647	296.671	296.693	296.693	296.693	296.625
157.5	292.196	292.251	292.307	292.207	292.106	292.094	292.083	292.139	292.196	292.185
160.0	287.519	287.631	287.743	287.653	287.564	287.519	287.474	287.586	287.697	287.743
162.5	284.410	284.410	284.410	284.375	284.342	284.397	284.454	284.430	284.408	284.499
165.0	281.299	281.188	281.075	281.097	281.119	281.276	281.432	281.276	281.119	281.254

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CANDELA TABULATION - (Cont.)

167.5	278.636	278.536	278.436	278.412	278.390	278.513	278.636	278.591	278.547	278.591
170.0	275.973	275.884	275.795	275.727	275.660	275.749	275.839	275.906	275.973	275.929
172.5	272.953	272.975	272.998	272.964	272.931	272.919	272.908	273.008	273.110	273.053
175.0	269.932	270.066	270.201	270.201	270.201	270.090	269.977	270.112	270.245	270.179
177.5	273.355	273.423	273.490	273.490	273.490	273.434	273.379	273.445	273.512	273.479
180.0	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913

**Vert.
Angles**

Horizontal Angles

	<u>275.0</u>	<u>277.5</u>	<u>280.0</u>	<u>282.5</u>	<u>285.0</u>	<u>287.5</u>	<u>290.0</u>	<u>292.5</u>	<u>295.0</u>	<u>297.5</u>
0.0	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734
2.5	273.333	273.377	273.423	273.412	273.401	273.434	273.468	273.501	273.535	273.434
5.0	269.932	270.022	270.112	270.090	270.066	270.134	270.201	270.268	270.335	270.134
7.5	272.931	272.920	272.909	272.953	272.998	272.998	272.998	273.077	273.155	273.031
10.0	275.929	275.818	275.705	275.818	275.929	275.862	275.795	275.884	275.973	275.929
12.5	278.480	278.469	278.458	278.558	278.659	278.547	278.436	278.513	278.591	278.536
15.0	281.030	281.119	281.209	281.299	281.388	281.232	281.075	281.143	281.209	281.143
17.5	284.454	284.397	284.341	284.476	284.610	284.532	284.454	284.408	284.364	284.375
20.0	287.877	287.675	287.474	287.653	287.832	287.832	287.832	287.675	287.519	287.608
22.5	292.397	292.542	292.687	292.811	292.934	292.643	292.352	292.498	292.643	292.721
25.0	296.916	297.409	297.901	297.968	298.035	297.453	296.871	297.319	297.766	297.833
27.5	300.586	300.855	301.124	301.168	301.213	300.933	300.653	300.844	301.033	301.078
30.0	304.255	304.300	304.345	304.367	304.389	304.413	304.435	304.367	304.300	304.323
32.5	306.247	306.236	306.225	306.270	306.314	306.303	306.292	306.325	306.359	306.270
35.0	308.238	308.171	308.104	308.171	308.238	308.194	308.149	308.284	308.417	308.216
37.5	313.899	313.899	313.899	314.056	314.212	314.067	313.921	313.978	314.034	313.877
40.0	319.560	319.628	319.694	319.941	320.186	319.941	319.694	319.672	319.650	319.538
42.5	326.071	325.836	325.602	325.982	326.362	325.915	325.467	325.825	326.184	326.149
45.0	332.582	332.045	331.508	332.023	332.538	331.889	331.239	331.978	332.716	332.762
47.5	344.732	344.464	344.195	344.744	345.292	344.911	344.531	344.933	345.336	345.325
50.0	356.881	356.881	356.881	357.463	358.045	357.934	357.822	357.889	357.955	357.889
52.5	360.932	360.842	360.752	361.133	361.514	361.424	361.334	361.413	361.491	361.356
55.0	364.982	364.803	364.623	364.803	364.982	364.914	364.847	364.936	365.026	364.825
57.5	372.835	372.678	372.522	372.700	372.880	372.757	372.635	372.689	372.746	372.678
60.0	380.688	380.555	380.420	380.599	380.777	380.599	380.420	380.442	380.464	380.532
62.5	386.327	386.327	386.327	386.416	386.506	386.394	386.283	386.260	386.238	386.338
65.0	391.965	392.099	392.234	392.234	392.234	392.190	392.145	392.077	392.010	392.145
67.5	397.156	397.178	397.202	397.246	397.291	397.280	397.269	397.235	397.202	397.213
70.0	402.348	402.259	402.168	402.259	402.348	402.370	402.392	402.392	402.392	402.281
72.5	404.160	404.182	404.205	404.171	404.138	404.182	404.227	404.182	404.138	404.149
75.0	405.972	406.106	406.241	406.084	405.928	405.995	406.061	405.972	405.883	406.017
77.5	403.443	403.545	403.645	403.567	403.489	403.500	403.511	403.500	403.489	403.198
80.0	400.915	400.982	401.049	401.049	401.049	401.005	400.960	401.027	401.095	400.380
82.5	401.744	401.766	401.788	401.810	401.833	401.833	401.833	401.844	401.855	401.497
85.0	402.572	402.550	402.526	402.572	402.616	402.661	402.705	402.661	402.616	402.616
87.5	401.095	401.151	401.207	401.173	401.140	401.218	401.296	401.273	401.251	401.229
90.0	399.618	399.752	399.887	399.776	399.663	399.776	399.887	399.887	399.887	399.841
92.5	400.602	400.636	400.671	400.614	400.558	400.625	400.692	400.771	400.849	400.815
95.0	401.586	401.520	401.453	401.453	401.453	401.475	401.497	401.653	401.810	401.788
97.5	400.849	400.860	400.871	400.804	400.736	400.747	400.758	400.804	400.849	400.849
100.0	400.110	400.200	400.289	400.154	400.020	400.020	400.020	399.954	399.887	399.909
102.5	402.393	402.504	402.616	402.537	402.459	402.414	402.370	402.381	402.393	402.404
105.0	404.675	404.809	404.942	404.920	404.898	404.809	404.719	404.809	404.898	404.898
107.5	402.930	403.074	403.220	403.119	403.019	402.974	402.929	403.019	403.108	403.086
110.0	401.184	401.340	401.497	401.318	401.139	401.139	401.139	401.229	401.318	401.275
112.5	396.441	396.519	396.598	396.541	396.485	396.440	396.396	396.496	396.598	396.496

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CANDELA TABULATION - (Cont.)

115.0	391.697	391.697	391.697	391.764	391.832	391.742	391.652	391.764	391.876	391.719
117.5	386.327	386.249	386.171	386.216	386.260	386.249	386.238	386.271	386.305	386.249
120.0	380.957	380.801	380.644	380.666	380.688	380.755	380.823	380.779	380.733	380.779
122.5	373.037	372.980	372.926	372.891	372.857	372.924	372.991	372.846	372.700	372.790
125.0	365.115	365.160	365.205	365.116	365.026	365.093	365.160	364.914	364.667	364.802
127.5	361.111	361.089	361.067	361.054	361.043	361.032	361.021	360.864	360.707	360.820
130.0	357.105	357.016	356.927	356.994	357.060	356.971	356.881	356.814	356.747	356.837
132.5	344.195	344.542	344.889	344.855	344.821	344.799	344.777	344.710	344.642	344.732
135.0	331.285	332.068	332.851	332.716	332.582	332.627	332.671	332.605	332.538	332.627
137.5	325.512	325.893	326.273	326.171	326.071	326.104	326.138	326.071	326.004	326.127
140.0	319.739	319.717	319.694	319.628	319.560	319.582	319.604	319.537	319.470	319.628
142.5	313.877	313.899	313.921	313.877	313.832	313.888	313.943	313.932	313.921	313.989
145.0	308.015	308.082	308.149	308.127	308.104	308.193	308.282	308.328	308.373	308.351
147.5	305.957	306.023	306.090	306.057	306.023	306.079	306.135	306.179	306.225	306.270
150.0	303.898	303.965	304.031	303.987	303.942	303.965	303.987	304.032	304.076	304.189
152.5	300.229	300.362	300.496	300.362	300.229	300.273	300.318	300.362	300.407	300.463
155.0	296.558	296.760	296.962	296.738	296.514	296.581	296.647	296.693	296.738	296.738
157.5	292.174	292.252	292.330	292.174	292.017	292.128	292.240	292.252	292.263	292.241
160.0	287.788	287.743	287.697	287.608	287.519	287.675	287.832	287.810	287.788	287.743
162.5	284.588	284.543	284.499	284.465	284.432	284.532	284.632	284.532	284.432	284.443
165.0	281.388	281.344	281.299	281.321	281.343	281.388	281.432	281.254	281.075	281.143
167.5	278.636	278.536	278.436	278.502	278.569	278.547	278.524	278.491	278.458	278.458
170.0	275.884	275.727	275.571	275.683	275.795	275.705	275.615	275.727	275.839	275.773
172.5	272.998	272.897	272.797	272.919	273.042	272.997	272.953	273.031	273.110	273.053
175.0	270.112	270.066	270.021	270.156	270.290	270.290	270.290	270.335	270.379	270.335
177.5	273.446	273.423	273.401	273.468	273.535	273.535	273.535	273.557	273.579	273.557
180.0	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913

**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	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734
2.5	273.333	273.412	273.490	273.479	273.468	273.456	273.445	273.501	273.557	273.546
5.0	269.932	270.088	270.245	270.223	270.201	270.179	270.156	270.268	270.379	270.357
7.5	272.908	272.997	273.088	273.064	273.042	272.997	272.953	273.053	273.155	273.077
10.0	275.884	275.907	275.929	275.907	275.884	275.817	275.749	275.840	275.929	275.795
12.5	278.480	278.569	278.659	278.558	278.458	278.469	278.480	278.524	278.569	278.469
15.0	281.075	281.232	281.388	281.210	281.030	281.119	281.209	281.209	281.209	281.143
17.5	284.386	284.476	284.566	284.465	284.364	284.408	284.454	284.476	284.499	284.476
20.0	287.697	287.721	287.743	287.721	287.697	287.697	287.697	287.743	287.788	287.810
22.5	292.800	292.867	292.934	292.553	292.172	292.531	292.889	292.889	292.889	292.934
25.0	297.901	298.013	298.124	297.386	296.647	297.364	298.080	298.035	297.990	298.057
27.5	301.124	301.213	301.302	300.899	300.496	300.866	301.235	301.235	301.235	301.224
30.0	304.345	304.413	304.479	304.413	304.345	304.367	304.389	304.435	304.479	304.389
32.5	306.181	306.247	306.314	306.281	306.248	306.314	306.381	306.414	306.448	306.403
35.0	308.015	308.082	308.149	308.149	308.149	308.262	308.373	308.395	308.417	308.417
37.5	313.721	313.788	313.855	313.832	313.810	313.865	313.921	313.943	313.967	314.034
40.0	319.426	319.493	319.560	319.515	319.470	319.470	319.470	319.493	319.515	319.650
42.5	326.116	326.138	326.162	326.149	326.138	326.127	326.116	326.116	326.116	325.858
45.0	332.806	332.784	332.762	332.784	332.806	332.784	332.762	332.740	332.716	332.068
47.5	345.314	345.325	345.337	345.057	344.777	344.788	344.799	344.821	344.844	344.542
50.0	357.822	357.867	357.911	357.329	356.747	356.792	356.836	356.903	356.971	357.016
52.5	361.223	361.334	361.447	361.076	360.707	360.796	360.887	360.909	360.931	360.931
55.0	364.623	364.803	364.982	364.825	364.667	364.802	364.936	364.914	364.891	364.847
57.5	372.611	372.656	372.702	372.724	372.746	372.790	372.835	372.846	372.857	372.824
60.0	380.599	380.510	380.420	380.622	380.823	380.779	380.733	380.779	380.823	380.801

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CANDELA TABULATION - (Cont.)

62.5	386.440	386.327	386.216	386.294	386.372	386.349	386.327	386.416	386.506	386.462
65.0	392.279	392.145	392.010	391.966	391.921	391.921	391.921	392.055	392.189	392.123
67.5	397.224	397.202	397.180	397.134	397.089	397.045	397.000	397.045	397.089	397.078
70.0	402.168	402.259	402.348	402.303	402.257	402.168	402.079	402.035	401.990	402.035
72.5	404.160	404.182	404.205	404.171	404.138	404.071	404.003	403.992	403.981	403.981
75.0	406.152	406.106	406.061	406.039	406.017	405.973	405.928	405.950	405.972	405.928
77.5	402.908	402.963	403.019	402.941	402.863	402.896	402.930	402.839	402.750	402.761
80.0	399.663	399.819	399.976	399.841	399.707	399.819	399.931	399.730	399.528	399.596
82.5	401.140	401.218	401.296	401.151	401.005	401.128	401.251	401.162	401.073	401.027
85.0	402.616	402.616	402.616	402.459	402.303	402.437	402.572	402.594	402.616	402.459
87.5	401.206	401.206	401.206	401.128	401.049	401.117	401.184	401.195	401.206	401.173
90.0	399.796	399.796	399.796	399.796	399.796	399.796	399.796	399.796	399.796	399.887
92.5	400.782	400.758	400.736	400.680	400.625	400.703	400.782	400.782	400.782	400.815
95.0	401.766	401.722	401.677	401.566	401.453	401.609	401.766	401.766	401.766	401.744
97.5	400.849	400.815	400.782	400.749	400.714	400.827	400.938	400.916	400.893	400.849
100.0	399.931	399.909	399.887	399.932	399.976	400.043	400.110	400.065	400.020	399.954
102.5	402.415	402.337	402.259	402.314	402.370	402.472	402.572	402.470	402.370	402.403
105.0	404.898	404.764	404.629	404.697	404.764	404.898	405.033	404.876	404.719	404.853
107.5	403.065	403.030	402.996	403.041	403.086	403.097	403.108	403.041	402.974	403.041
110.0	401.229	401.296	401.362	401.386	401.408	401.296	401.184	401.207	401.229	401.229
112.5	396.396	396.485	396.574	396.563	396.552	396.552	396.552	396.463	396.374	396.474
115.0	391.563	391.675	391.786	391.742	391.697	391.810	391.921	391.719	391.517	391.719
117.5	386.193	386.249	386.305	386.238	386.171	386.227	386.283	386.227	386.171	386.271
120.0	380.823	380.823	380.823	380.733	380.644	380.644	380.644	380.733	380.823	380.823
122.5	372.880	372.913	372.947	372.947	372.947	372.869	372.791	372.802	372.813	372.857
125.0	364.936	365.004	365.071	365.160	365.249	365.093	364.936	364.869	364.802	364.892
127.5	360.932	360.954	360.976	361.021	361.065	360.954	360.842	360.842	360.842	360.853
130.0	356.927	356.905	356.881	356.881	356.881	356.814	356.747	356.814	356.881	356.814
132.5	344.822	344.799	344.777	344.799	344.822	344.777	344.732	344.777	344.822	344.799
135.0	332.716	332.694	332.671	332.716	332.762	332.740	332.716	332.740	332.762	332.784
137.5	326.251	326.127	326.004	326.049	326.094	326.116	326.138	326.173	326.206	326.217
140.0	319.784	319.560	319.337	319.382	319.426	319.493	319.560	319.606	319.650	319.650
142.5	314.056	313.967	313.877	313.877	313.877	313.899	313.921	313.943	313.967	313.932
145.0	308.328	308.373	308.417	308.373	308.328	308.306	308.282	308.282	308.282	308.216
147.5	306.314	306.269	306.225	306.190	306.157	306.269	306.381	306.236	306.090	306.124
150.0	304.300	304.166	304.031	304.009	303.987	304.233	304.479	304.189	303.898	304.032
152.5	300.520	300.463	300.407	300.429	300.452	300.564	300.675	300.529	300.385	300.463
155.0	296.738	296.760	296.782	296.849	296.916	296.894	296.871	296.871	296.871	296.894
157.5	292.218	292.229	292.240	292.296	292.352	292.330	292.307	292.296	292.285	292.274
160.0	287.697	287.697	287.697	287.743	287.788	287.766	287.743	287.721	287.697	287.653
162.5	284.454	284.521	284.588	284.510	284.432	284.488	284.543	284.565	284.588	284.476
165.0	281.209	281.343	281.478	281.277	281.075	281.210	281.343	281.410	281.478	281.299
167.5	278.458	278.525	278.592	278.480	278.368	278.480	278.591	278.591	278.592	278.356
170.0	275.705	275.705	275.705	275.683	275.660	275.749	275.839	275.773	275.705	275.414
172.5	272.998	272.942	272.886	272.942	272.998	273.020	273.042	273.008	272.975	272.830
175.0	270.290	270.179	270.066	270.201	270.335	270.290	270.245	270.245	270.245	270.245
177.5	273.535	273.479	273.423	273.490	273.557	273.535	273.512	273.512	273.512	273.512
180.0	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913

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	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734	276.734
2.5	273.535	273.512	273.490	273.490	273.490	273.490	273.490	273.479	273.468	273.512
5.0	270.335	270.290	270.245	270.245	270.245	270.245	270.245	270.223	270.201	270.290
7.5	272.998	272.986	272.975	272.964	272.953	272.941	272.930	272.953	272.975	272.986

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CANDELA TABULATION - (Cont.)

10.0	275.660	275.683	275.705	275.683	275.660	275.638	275.615	275.682	275.749	275.682
12.5	278.368	278.458	278.547	278.525	278.502	278.412	278.323	278.367	278.412	278.434
15.0	281.075	281.232	281.388	281.366	281.343	281.187	281.030	281.053	281.075	281.188
17.5	284.454	284.443	284.432	284.432	284.432	284.454	284.476	284.408	284.342	284.397
20.0	287.832	287.653	287.474	287.497	287.519	287.721	287.921	287.765	287.608	287.608
22.5	292.978	292.531	292.083	292.396	292.710	292.789	292.867	292.520	292.174	292.207
25.0	298.124	297.409	296.693	297.297	297.901	297.857	297.811	297.275	296.738	296.805
27.5	301.213	300.944	300.676	300.809	300.944	300.933	300.922	300.809	300.698	300.564
30.0	304.300	304.480	304.658	304.323	303.987	304.009	304.031	304.345	304.658	304.323
32.5	306.359	306.336	306.314	306.236	306.157	306.146	306.135	306.336	306.538	306.303
35.0	308.417	308.193	307.969	308.149	308.328	308.284	308.238	308.328	308.417	308.284
37.5	314.101	313.910	313.720	313.876	314.034	313.910	313.788	313.910	314.034	313.910
40.0	319.784	319.628	319.470	319.604	319.739	319.538	319.337	319.493	319.650	319.538
42.5	325.602	325.803	326.004	326.082	326.160	326.060	325.960	326.082	326.206	326.127
45.0	331.419	331.979	332.538	332.560	332.582	332.582	332.582	332.672	332.762	332.716
47.5	344.240	344.486	344.733	344.777	344.821	344.777	344.732	344.821	344.911	344.866
50.0	357.060	356.994	356.927	356.994	357.060	356.971	356.881	356.971	357.060	357.016
52.5	360.931	360.842	360.752	360.809	360.864	360.864	360.865	360.864	360.864	360.875
55.0	364.802	364.691	364.578	364.623	364.667	364.758	364.847	364.758	364.667	364.735
57.5	372.790	372.733	372.678	372.667	372.656	372.633	372.611	372.622	372.633	372.700
60.0	380.777	380.777	380.777	380.711	380.644	380.510	380.375	380.488	380.599	380.666
62.5	386.416	386.449	386.484	386.416	386.351	386.271	386.193	386.204	386.216	386.316
65.0	392.055	392.123	392.189	392.123	392.055	392.034	392.010	391.921	391.832	391.966
67.5	397.067	397.458	397.850	397.458	397.067	397.447	397.828	397.716	397.604	397.693
70.0	402.079	402.795	403.511	402.795	402.079	402.863	403.645	403.511	403.376	403.421
72.5	403.981	404.451	404.920	404.138	403.354	403.847	404.340	404.171	404.003	404.127
75.0	405.883	406.106	406.330	405.480	404.629	404.831	405.033	404.831	404.629	404.831
77.5	402.774	402.941	403.108	402.639	402.168	402.325	402.482	402.337	402.191	402.281
80.0	399.663	399.776	399.887	399.797	399.707	399.819	399.931	399.841	399.752	399.730
82.5	400.984	400.893	400.804	400.982	401.162	400.927	400.692	400.636	400.580	400.602
85.0	402.303	402.012	401.721	402.168	402.616	402.035	401.453	401.431	401.408	401.475
87.5	401.140	400.938	400.736	400.927	401.117	400.838	400.558	400.536	400.513	400.535
90.0	399.976	399.865	399.752	399.685	399.618	399.641	399.663	399.641	399.618	399.596
92.5	400.849	400.782	400.714	400.703	400.692	400.682	400.671	400.692	400.714	400.702
95.0	401.721	401.699	401.677	401.722	401.766	401.722	401.677	401.744	401.810	401.810
97.5	400.804	400.849	400.894	400.804	400.714	400.838	400.960	400.938	400.915	400.859
100.0	399.887	399.999	400.110	399.887	399.663	399.954	400.244	400.132	400.020	399.909
102.5	402.437	402.404	402.370	402.303	402.237	402.381	402.526	402.426	402.325	402.347
105.0	404.988	404.809	404.629	404.720	404.809	404.809	404.809	404.720	404.629	404.786
107.5	403.108	403.041	402.974	402.963	402.952	403.041	403.132	403.634	404.138	404.193
110.0	401.229	401.275	401.318	401.207	401.095	401.275	401.453	402.550	403.645	403.601
112.5	396.576	396.665	396.754	396.665	396.576	396.519	396.463	397.191	397.917	397.828
115.0	391.921	392.055	392.189	392.123	392.055	391.764	391.473	391.832	392.189	392.055
117.5	386.372	386.416	386.462	386.427	386.394	386.249	386.103	386.204	386.305	386.249
120.0	380.823	380.779	380.733	380.733	380.733	380.733	380.733	380.577	380.420	380.442
122.5	372.902	372.813	372.724	372.711	372.700	372.779	372.858	372.757	372.656	372.667
125.0	364.982	364.847	364.713	364.691	364.667	364.825	364.982	364.936	364.891	364.891
127.5	360.865	360.798	360.730	360.785	360.842	360.853	360.865	360.842	360.820	360.875
130.0	356.747	356.747	356.747	356.881	357.016	356.881	356.747	356.747	356.747	356.859
132.5	344.777	344.754	344.732	344.766	344.799	344.766	344.732	344.675	344.620	344.664
135.0	332.806	332.762	332.716	332.649	332.582	332.649	332.716	332.605	332.493	332.471
137.5	326.228	326.184	326.138	326.060	325.982	326.026	326.071	326.060	326.049	325.982
140.0	319.650	319.606	319.560	319.471	319.381	319.404	319.426	319.515	319.604	319.493
142.5	313.899	313.934	313.967	313.877	313.787	313.776	313.765	313.821	313.877	313.888
145.0	308.149	308.262	308.373	308.284	308.193	308.149	308.104	308.127	308.149	308.284
147.5	306.157	306.203	306.248	306.214	306.179	306.135	306.090	306.157	306.225	306.225

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CANDELA TABULATION - (Cont.)

150.0	304.166	304.144	304.122	304.144	304.166	304.122	304.076	304.189	304.300	304.166
152.5	300.542	300.463	300.385	300.463	300.542	300.531	300.520	300.507	300.496	300.429
155.0	296.916	296.782	296.647	296.782	296.916	296.940	296.962	296.827	296.693	296.693
157.5	292.263	292.161	292.061	292.161	292.263	292.307	292.352	292.307	292.263	292.218
160.0	287.608	287.541	287.474	287.541	287.608	287.675	287.743	287.788	287.832	287.743
162.5	284.364	284.419	284.476	284.487	284.499	284.499	284.499	284.554	284.610	284.499
165.0	281.119	281.299	281.478	281.434	281.388	281.321	281.254	281.321	281.388	281.254
167.5	278.121	278.334	278.547	278.547	278.547	278.514	278.480	278.514	278.547	278.434
170.0	275.123	275.369	275.615	275.660	275.705	275.705	275.705	275.705	275.705	275.616
172.5	272.684	272.808	272.930	272.919	272.909	272.964	273.020	272.953	272.886	272.875
175.0	270.245	270.245	270.245	270.179	270.112	270.224	270.335	270.201	270.066	270.134
177.5	273.512	273.512	273.512	273.479	273.446	273.501	273.557	273.490	273.423	273.457
180.0	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913	275.913

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	276.734	276.734	276.734	276.734	276.734
2.5	273.557	273.490	273.423	273.479	273.535
5.0	270.379	270.246	270.112	270.224	270.335
7.5	272.997	272.953	272.909	273.009	273.110
10.0	275.615	275.660	275.705	275.795	275.884
12.5	278.458	278.502	278.547	278.558	278.569
15.0	281.299	281.344	281.388	281.321	281.254
17.5	284.454	284.543	284.633	284.599	284.566
20.0	287.608	287.743	287.877	287.877	287.877
22.5	292.240	292.285	292.330	292.263	292.196
25.0	296.871	296.827	296.782	296.649	296.514
27.5	300.429	300.385	300.340	300.362	300.385
30.0	303.987	303.943	303.898	304.076	304.255
32.5	306.068	306.057	306.046	306.112	306.179
35.0	308.149	308.171	308.193	308.149	308.104
37.5	313.788	313.799	313.810	313.810	313.810
40.0	319.426	319.426	319.426	319.471	319.515
42.5	326.049	326.071	326.094	326.082	326.071
45.0	332.671	332.716	332.762	332.694	332.627
47.5	344.821	344.810	344.799	344.777	344.755
50.0	356.971	356.903	356.836	356.859	356.881
52.5	360.887	360.875	360.864	360.853	360.842
55.0	364.802	364.847	364.891	364.847	364.802
57.5	372.768	372.735	372.700	372.656	372.611
60.0	380.733	380.622	380.510	380.466	380.420
62.5	386.416	386.338	386.260	386.260	386.260
65.0	392.099	392.055	392.010	392.055	392.099
67.5	397.784	397.749	397.716	397.414	397.112
70.0	403.467	403.445	403.421	402.774	402.124
72.5	404.251	404.171	404.093	403.769	403.445
75.0	405.033	404.898	404.764	404.764	404.764
77.5	402.370	402.337	402.303	402.314	402.326
80.0	399.707	399.774	399.841	399.865	399.887
82.5	400.625	400.647	400.669	400.669	400.671
85.0	401.542	401.520	401.497	401.475	401.453
87.5	400.558	400.569	400.580	400.602	400.625
90.0	399.572	399.618	399.663	399.730	399.796
92.5	400.691	400.636	400.580	400.613	400.647
95.0	401.810	401.653	401.497	401.497	401.497

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CANDELA TABULATION - (Cont.)

97.5	400.804	400.758	400.714	400.680	400.647
100.0	399.796	399.863	399.931	399.863	399.796
102.5	402.370	402.381	402.392	402.392	402.392
105.0	404.942	404.898	404.853	404.920	404.988
107.5	404.249	404.171	404.093	404.193	404.294
110.0	403.556	403.445	403.332	403.467	403.600
112.5	397.738	397.706	397.671	397.760	397.850
115.0	391.921	391.966	392.010	392.055	392.099
117.5	386.193	386.215	386.238	386.305	386.372
120.0	380.464	380.464	380.464	380.555	380.644
122.5	372.678	372.667	372.656	372.700	372.746
125.0	364.891	364.869	364.847	364.847	364.847
127.5	360.931	360.942	360.954	360.920	360.887
130.0	356.971	357.016	357.060	356.994	356.927
132.5	344.710	344.765	344.821	344.799	344.777
135.0	332.447	332.515	332.582	332.605	332.627
137.5	325.915	326.049	326.184	326.105	326.027
140.0	319.381	319.582	319.784	319.606	319.426
142.5	313.899	313.932	313.967	313.910	313.854
145.0	308.417	308.284	308.149	308.216	308.282
147.5	306.225	306.314	306.404	306.370	306.336
150.0	304.031	304.345	304.658	304.524	304.389
152.5	300.362	300.474	300.587	300.598	300.609
155.0	296.693	296.603	296.514	296.671	296.827
157.5	292.174	292.139	292.106	292.218	292.330
160.0	287.653	287.675	287.697	287.765	287.832
162.5	284.386	284.465	284.543	284.532	284.521
165.0	281.119	281.254	281.388	281.299	281.209
167.5	278.323	278.434	278.547	278.525	278.502
170.0	275.526	275.616	275.705	275.751	275.795
172.5	272.864	272.942	273.020	272.998	272.975
175.0	270.201	270.268	270.335	270.246	270.156
177.5	273.490	273.524	273.557	273.512	273.468
180.0	275.913	275.913	275.913	275.913	275.913

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	106.03	2.40	2.30
0-30	243.60	5.40	5.30
0-40	438.59	9.80	9.60
0-60	1028.07	23.00	22.50
0-80	1844.02	41.20	40.40
0-90	2281.64	51.00	50.00
10-90	2255.58	50.40	49.40
20-40	332.56	7.40	7.30
20-50	592.72	13.20	13.00
40-70	978.54	21.90	21.50
60-80	815.94	18.20	17.90
70-80	426.88	9.50	9.40
80-90	437.63	9.80	9.60
90-110	863.44	19.30	18.90
90-120	1252.19	28.00	27.50
90-130	1581.53	35.30	34.70
90-150	2036.63	45.50	44.60
90-180	2280.05	51.00	50.00
110-180	1416.61	31.70	31.10
0-180	4561.69	101.90	100.00

Total Luminaire Efficiency = 101.90%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	26.06
10-20	79.97
20-30	137.57
30-40	194.99
40-50	260.16
50-60	329.32
60-70	389.06
70-80	426.88
80-90	437.63
90-100	437.26
100-110	426.17
110-120	388.76
120-130	329.34
130-140	260.14
140-150	194.97
150-160	137.39
160-170	79.97
170-180	26.06

IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	109	109	109	109	101	101	101	101	85	85	85	71	71	71	57	57	57	51
1	95	88	82	77	87	81	76	71	67	63	60	54	52	49	43	41	39	33
2	84	74	66	59	77	68	61	55	56	51	46	45	41	37	35	32	29	24
3	76	64	55	47	69	58	50	44	48	42	36	38	33	29	30	26	23	18
4	69	56	46	39	62	51	42	36	42	35	30	33	28	24	26	22	18	14
5	63	49	39	32	57	45	36	30	37	30	25	29	24	20	23	18	15	12
6	57	43	34	27	52	40	31	25	33	26	21	26	21	17	20	16	13	10
7	53	39	30	24	48	36	28	22	29	23	18	24	18	15	18	14	11	8
8	49	35	26	20	45	32	24	19	27	20	16	22	16	13	17	13	10	7
9	45	32	24	18	41	29	22	17	24	18	14	20	15	11	15	11	9	6
10	42	29	21	16	39	27	20	15	22	16	12	18	13	10	14	10	8	5

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	8.5	9.5	9.4	10.4	11.7	8.5	9.5	9.4	10.4	11.7
	3H	12.3	13.3	13.3	14.2	15.5	12.3	13.3	13.3	14.2	15.5
	4H	14.3	15.2	15.3	16.2	17.5	14.3	15.2	15.3	16.2	17.5
	6H	16.5	17.3	17.4	18.3	19.6	16.5	17.3	17.4	18.3	19.6
	8H	17.6	18.4	18.6	19.4	20.7	17.6	18.4	18.6	19.4	20.7
	12H	18.9	19.7	19.9	20.7	22.0	19.0	19.7	19.9	20.7	22.0

UGR Viewed Endwise

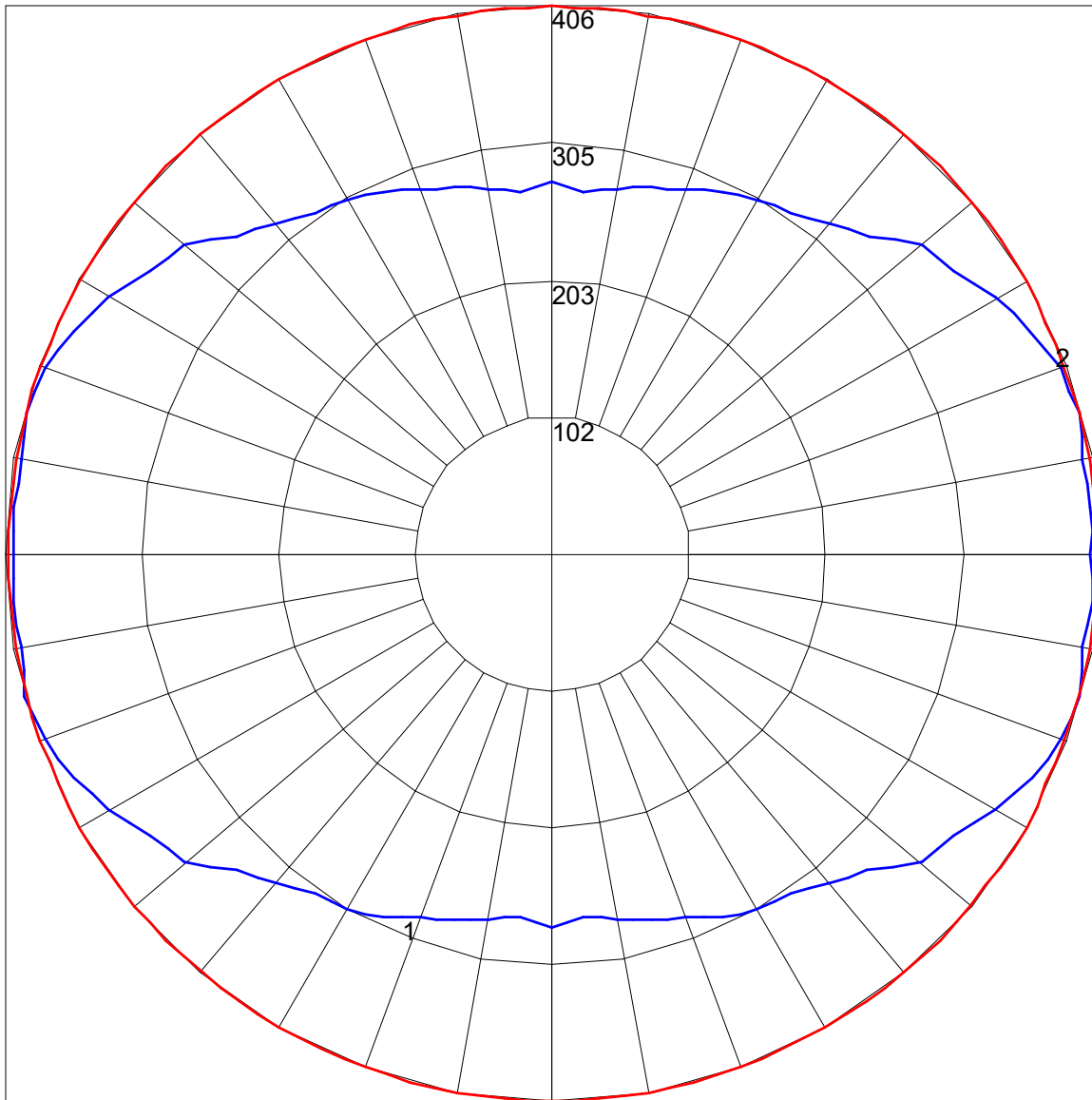
4H	2H	9.6	10.5	10.6	11.5	12.8	9.6	10.5	10.6	11.5	12.8
	3H	13.7	14.4	14.6	15.4	16.7	13.6	14.4	14.6	15.4	16.7
	4H	15.8	16.5	16.8	17.5	18.8	15.8	16.5	16.8	17.5	18.8
	6H	18.1	18.7	19.1	19.7	21.1	18.1	18.7	19.1	19.8	21.1
	8H	19.3	19.9	20.3	21.0	22.3	19.3	20.0	20.3	21.0	22.3
	12H	20.8	21.3	21.8	22.4	23.7	20.8	21.3	21.8	22.4	23.7

8H	4H	16.6	17.2	17.6	18.3	19.6	16.6	17.2	17.6	18.3	19.6
	6H	19.2	19.7	20.2	20.8	22.1	19.2	19.7	20.2	20.8	22.1
	8H	20.6	21.1	21.6	22.1	23.5	20.6	21.1	21.6	22.1	23.5
	12H	22.3	22.7	23.3	23.7	25.1	22.3	22.7	23.3	23.7	25.1

12H	4H	16.9	17.4	17.9	18.5	19.8	16.9	17.4	17.9	18.5	19.8
	6H	19.5	20.0	20.5	21.0	22.4	19.5	20.0	20.6	21.0	22.4
	8H	21.1	21.5	22.1	22.5	23.9	21.1	21.5	22.1	22.6	23.9

Maximum UGR = 25.1

POLAR GRAPH



Maximum Candela = 406.33 Located At Horizontal Angle = 215, Vertical Angle = 75
1 - Vertical Plane Through Horizontal Angles (215 - 35) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (75) (Through Max. Cd.)