

IES INDOOR REPORT

PHOTOMETRIC FILENAME : F07A49.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[MANUFAC] Fabbian Illuminazione SpA

[TEST] 009

[LUMINAIRE] LUMI-SFERA

[LUMCAT] F07 A49

[ISSUEDATE] 07/03/2012/Sedis Light Technology

[LAMP] LED Achrich 3 17W

[TESTLAB] IESNA:LM-63-2002

[MORE] File is based on original photometric F07A25 fixture EULUM data

[MORE] and derated to match the Integral LED source.

[_ CONVERT] Luminaire test position and photometric web orientation

[MORE] adjusted by 270 deg from ELUMDAT

CHARACTERISTICS

Lumens Per Lamp	1997 (1 lamp)
Total Lamp Lumens	1997
Luminaire Lumens	1567
Total Luminaire Efficiency	78 %
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	17
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 w/ Sides
Luminous Length (0-180)	0.44 m (Diameter)
Luminous Width (90-270)	0.44 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	1313	1302	1306
55	1552	1543	1552
65	2107	2100	2109
75	3268	3273	3244
85	9304	9332	9345

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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	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905
2.5	143.396	143.376	143.356	143.396	143.436	143.406	143.376	143.426	143.476	143.441
5.0	142.886	142.847	142.807	142.886	142.966	142.906	142.847	142.946	143.046	142.976
7.5	142.727	142.872	143.016	143.032	143.046	142.982	142.916	142.882	142.847	142.877
10.0	142.567	142.896	143.226	143.176	143.126	143.056	142.986	142.817	142.647	142.777
12.5	142.347	142.427	142.507	142.452	142.397	142.337	142.277	142.123	141.968	142.198
15.0	142.128	141.958	141.788	141.728	141.668	141.618	141.568	141.429	141.289	141.618
17.5	141.678	141.539	141.399	141.324	141.249	141.194	141.139	141.099	141.059	141.134
20.0	141.229	141.119	141.009	140.919	140.830	140.770	140.710	140.770	140.830	140.650
22.5	141.059	141.005	140.949	140.855	140.760	140.525	140.290	140.320	140.350	140.540
25.0	140.889	140.889	140.889	140.790	140.690	140.280	139.871	139.871	139.871	140.430
27.5	140.959	141.209	141.459	141.424	141.389	141.204	141.019	140.840	140.660	140.785
30.0	141.029	141.529	142.028	142.058	142.088	142.128	142.168	141.808	141.449	141.139
32.5	139.911	140.260	140.610	140.725	140.840	140.750	140.660	140.385	140.111	139.996
35.0	138.793	138.992	139.192	139.392	139.591	139.372	139.152	138.962	138.773	138.853
37.5	139.761	139.851	139.941	139.976	140.011	139.836	139.661	139.796	139.931	139.821
40.0	140.730	140.710	140.690	140.560	140.430	140.300	140.171	140.630	141.089	140.790
42.5	139.571	139.217	138.863	139.037	139.212	139.077	138.942	139.197	139.452	139.267
45.0	138.413	137.724	137.035	137.515	137.994	137.854	137.714	137.764	137.814	137.744
47.5	137.145	136.841	136.536	136.436	136.336	136.456	136.576	136.701	136.826	136.521
50.0	135.877	135.957	136.037	135.358	134.679	135.058	135.438	135.637	135.837	135.298
52.5	134.399	134.085	133.770	133.436	133.101	133.316	133.530	133.935	134.339	133.855
55.0	132.921	132.212	131.504	131.513	131.523	131.573	131.623	132.232	132.842	132.412
57.5	132.911	132.702	132.492	132.362	132.232	132.242	132.252	132.587	132.921	132.512
60.0	132.901	133.191	133.481	133.211	132.941	132.911	132.881	132.941	133.001	132.612
62.5	133.061	133.301	133.540	133.396	133.251	133.236	133.221	133.236	133.251	132.997
65.0	133.221	133.411	133.600	133.580	133.560	133.560	133.560	133.530	133.501	133.381
67.5	130.625	130.924	131.224	131.339	131.454	131.129	130.805	130.825	130.844	130.944
70.0	128.029	128.438	128.847	129.097	129.347	128.698	128.049	128.119	128.188	128.508
72.5	127.579	127.659	127.739	128.014	128.288	127.959	127.629	127.480	127.330	127.499
75.0	127.130	126.880	126.631	126.930	127.230	127.220	127.210	126.840	126.471	126.491
77.5	125.413	125.218	125.023	125.443	125.862	125.727	125.592	125.478	125.363	125.188
80.0	123.695	123.555	123.416	123.955	124.494	124.234	123.975	124.115	124.254	123.885
82.5	124.144	123.970	123.795	124.030	124.264	124.254	124.244	124.484	124.724	124.240
85.0	124.594	124.384	124.174	124.105	124.035	124.274	124.514	124.853	125.193	124.594
87.5	123.765	123.890	124.015	123.790	123.565	123.755	123.945	123.990	124.035	123.875
90.0	122.936	123.396	123.855	123.475	123.096	123.236	123.376	123.126	122.876	123.156
92.5	121.658	121.783	121.908	121.698	121.488	121.508	121.528	121.439	121.349	121.598
95.0	120.380	120.170	119.961	119.921	119.881	119.781	119.681	119.751	119.821	120.041
97.5	121.219	120.919	120.620	120.885	121.149	120.865	120.580	120.825	121.069	121.139
100.0	122.058	121.668	121.279	121.848	122.417	121.948	121.478	121.898	122.317	122.237
102.5	120.650	120.500	120.350	120.286	120.220	120.310	120.400	120.286	120.170	120.340
105.0	119.242	119.332	119.422	118.723	118.024	118.673	119.322	118.673	118.024	118.443
107.5	119.262	119.217	119.172	119.157	119.142	119.481	119.821	119.477	119.132	119.037
110.0	119.282	119.102	118.922	119.591	120.260	120.290	120.320	120.280	120.240	119.631
112.5	119.442	119.202	118.962	119.172	119.382	119.631	119.881	119.866	119.851	119.407
115.0	119.601	119.302	119.002	118.753	118.503	118.972	119.442	119.452	119.461	119.182
117.5	120.550	120.325	120.101	119.751	119.402	119.626	119.851	120.081	120.310	120.086
120.0	121.498	121.349	121.199	120.750	120.300	120.280	120.260	120.710	121.159	120.989
122.5	119.581	119.686	119.791	119.242	118.693	118.753	118.812	119.097	119.382	119.352
125.0	117.664	118.024	118.383	117.734	117.085	117.225	117.365	117.484	117.604	117.714
127.5	116.216	116.481	116.746	116.351	115.957	116.206	116.456	116.541	116.626	116.451
130.0	114.769	114.938	115.108	114.968	114.828	115.188	115.547	115.597	115.647	115.188
132.5	114.329	114.484	114.639	114.559	114.479	114.709	114.938	114.874	114.808	114.734

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CANDELA TABULATION - (Cont.)

135.0	113.890	114.030	114.169	114.149	114.129	114.229	114.329	114.149	113.970	114.279
137.5	113.630	113.990	114.349	114.289	114.229	114.109	113.990	114.065	114.139	114.155
140.0	113.371	113.950	114.529	114.429	114.329	113.990	113.650	113.980	114.309	114.030
142.5	113.311	113.650	113.990	113.905	113.820	113.720	113.620	113.590	113.560	113.566
145.0	113.251	113.351	113.450	113.381	113.311	113.450	113.590	113.201	112.811	113.101
147.5	111.903	112.023	112.142	111.768	111.394	111.503	111.613	111.583	111.553	111.758
150.0	110.555	110.695	110.834	110.155	109.476	109.556	109.636	109.966	110.295	110.415
152.5	110.056	110.131	110.205	109.901	109.596	109.522	109.446	109.801	110.155	109.911
155.0	109.556	109.566	109.576	109.646	109.716	109.486	109.257	109.636	110.016	109.407
157.5	107.469	107.395	107.320	107.410	107.499	107.419	107.340	107.609	107.879	107.739
160.0	105.383	105.223	105.063	105.173	105.283	105.353	105.422	105.582	105.742	106.072
162.5	104.783	104.948	105.113	104.849	104.584	104.769	104.953	105.183	105.412	105.432
165.0	104.184	104.674	105.163	104.524	103.885	104.184	104.484	104.783	105.083	104.793
167.5	104.065	104.190	104.314	104.055	103.795	103.955	104.114	104.409	104.704	104.264
170.0	103.945	103.705	103.465	103.585	103.705	103.725	103.745	104.035	104.324	103.735
172.5	104.394	104.025	103.655	103.740	103.825	103.855	103.885	104.060	104.234	103.945
175.0	104.843	104.344	103.845	103.895	103.945	103.985	104.025	104.084	104.144	104.154
177.5	104.684	104.499	104.314	104.200	104.084	103.890	103.695	103.735	103.775	104.070
180.0	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655

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	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905
2.5	143.406	143.421	143.436	143.326	143.216	143.336	143.456	143.401	143.346	143.281
5.0	142.906	142.936	142.966	142.747	142.527	142.767	143.006	142.896	142.787	142.657
7.5	142.906	142.702	142.497	142.657	142.817	142.752	142.687	142.552	142.417	142.382
10.0	142.906	142.467	142.028	142.567	143.106	142.737	142.367	142.208	142.048	142.108
12.5	142.427	142.233	142.038	142.123	142.208	141.888	141.568	141.818	142.068	141.808
15.0	141.948	141.998	142.048	141.678	141.309	141.039	140.770	141.429	142.088	141.509
17.5	141.209	141.164	141.119	141.154	141.189	141.039	140.889	141.064	141.239	140.975
20.0	140.470	140.330	140.191	140.630	141.069	141.039	141.009	140.700	140.390	140.440
22.5	140.730	140.705	140.680	140.755	140.830	140.665	140.500	140.555	140.610	140.715
25.0	140.989	141.079	141.169	140.879	140.590	140.290	139.991	140.410	140.830	140.989
27.5	140.909	141.219	141.529	141.344	141.159	140.929	140.700	140.965	141.229	141.424
30.0	140.830	141.359	141.888	141.808	141.728	141.568	141.409	141.519	141.628	141.858
32.5	139.881	140.230	140.580	140.685	140.790	140.455	140.121	140.420	140.720	140.670
35.0	138.932	139.102	139.272	139.561	139.851	139.342	138.833	139.322	139.811	139.482
37.5	139.711	140.011	140.310	140.256	140.201	140.041	139.881	140.021	140.161	140.106
40.0	140.490	140.919	141.349	140.949	140.550	140.740	140.929	140.720	140.510	140.730
42.5	139.082	139.387	139.691	139.412	139.132	139.302	139.472	139.192	138.912	139.172
45.0	137.674	137.854	138.034	137.874	137.714	137.864	138.014	137.664	137.315	137.614
47.5	136.216	136.656	137.095	136.885	136.676	136.526	136.376	136.312	136.246	136.516
50.0	134.759	135.458	136.157	135.897	135.637	135.188	134.739	134.958	135.178	135.418
52.5	133.371	133.950	134.529	134.135	133.740	133.530	133.321	133.496	133.670	133.800
55.0	131.983	132.442	132.901	132.372	131.843	131.873	131.903	132.033	132.163	132.182
57.5	132.103	132.407	132.712	132.437	132.163	132.392	132.622	132.517	132.412	132.662
60.0	132.222	132.372	132.522	132.502	132.482	132.911	133.341	133.001	132.662	133.141
62.5	132.742	133.006	133.271	133.176	133.081	133.411	133.740	133.236	132.732	133.036
65.0	133.261	133.640	134.020	133.850	133.680	133.910	134.140	133.471	132.802	132.931
67.5	131.044	131.229	131.414	131.384	131.354	131.384	131.414	131.159	130.904	130.810
70.0	128.827	128.818	128.808	128.917	129.027	128.857	128.688	128.847	129.007	128.688
72.5	127.669	127.919	128.168	127.944	127.719	127.565	127.410	127.789	128.168	128.074
75.0	126.511	127.020	127.529	126.970	126.411	126.271	126.132	126.731	127.330	127.460
77.5	125.013	125.298	125.582	125.333	125.083	125.063	125.043	125.198	125.353	125.383
80.0	123.515	123.575	123.635	123.695	123.755	123.855	123.955	123.665	123.376	123.306

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CANDELA TABULATION - (Cont.)

82.5	123.755	124.100	124.444	124.230	124.015	124.284	124.554	124.364	124.174	123.990
85.0	123.995	124.624	125.253	124.764	124.274	124.714	125.153	125.063	124.973	124.674
87.5	123.715	123.785	123.855	123.650	123.446	123.715	123.985	123.900	123.815	123.900
90.0	123.436	122.946	122.457	122.537	122.617	122.717	122.816	122.737	122.657	123.126
92.5	121.848	121.608	121.369	121.349	121.329	121.189	121.049	121.364	121.678	121.783
95.0	120.260	120.270	120.280	120.160	120.041	119.661	119.282	119.991	120.700	120.440
97.5	121.209	120.949	120.690	120.715	120.740	120.445	120.150	120.535	120.919	120.989
100.0	122.157	121.628	121.099	121.269	121.439	121.229	121.019	121.079	121.139	121.538
102.5	120.510	120.290	120.071	120.250	120.430	120.076	119.721	119.636	119.551	119.776
105.0	118.862	118.952	119.042	119.232	119.422	118.922	118.423	118.193	117.964	118.014
107.5	118.942	119.142	119.342	119.571	119.801	119.561	119.322	118.872	118.423	118.628
110.0	119.022	119.332	119.641	119.911	120.180	120.200	120.220	119.551	118.882	119.242
112.5	118.962	119.257	119.551	119.776	120.001	119.731	119.461	119.222	118.982	119.207
115.0	118.902	119.182	119.461	119.641	119.821	119.262	118.703	118.892	119.082	119.172
117.5	119.861	119.871	119.881	120.246	120.610	120.385	120.160	120.220	120.280	120.021
120.0	120.819	120.560	120.300	120.849	121.399	121.508	121.618	121.548	121.478	120.869
122.5	119.322	119.057	118.792	119.282	119.771	119.587	119.402	119.352	119.302	119.077
125.0	117.824	117.554	117.285	117.714	118.143	117.664	117.185	117.155	117.125	117.285
127.5	116.276	116.321	116.366	116.666	116.965	116.706	116.446	116.192	115.937	116.122
130.0	114.729	115.088	115.447	115.617	115.787	115.747	115.707	115.228	114.749	114.958
132.5	114.659	114.993	115.328	115.068	114.808	114.998	115.188	114.973	114.759	114.904
135.0	114.589	114.898	115.208	114.519	113.830	114.249	114.669	114.719	114.769	114.848
137.5	114.169	114.444	114.719	114.469	114.219	114.215	114.209	114.159	114.109	114.424
140.0	113.750	113.990	114.229	114.419	114.609	114.179	113.750	113.600	113.450	114.000
142.5	113.570	113.745	113.920	113.880	113.840	113.645	113.450	113.635	113.820	114.045
145.0	113.391	113.500	113.610	113.341	113.071	113.111	113.151	113.670	114.189	114.090
147.5	111.963	111.763	111.563	111.643	111.723	111.788	111.853	112.212	112.572	112.232
150.0	110.535	110.026	109.516	109.946	110.375	110.465	110.555	110.755	110.954	110.375
152.5	109.666	109.616	109.566	109.736	109.906	110.036	110.165	110.041	109.916	109.701
155.0	108.797	109.207	109.616	109.526	109.436	109.606	109.776	109.327	108.877	109.027
157.5	107.599	107.734	107.869	107.829	107.789	107.939	108.088	107.649	107.210	107.115
160.0	106.401	106.261	106.121	106.131	106.141	106.271	106.401	105.972	105.542	105.203
162.5	105.452	105.363	105.273	105.358	105.442	105.488	105.532	105.248	104.963	104.634
165.0	104.504	104.464	104.424	104.584	104.743	104.704	104.664	104.524	104.384	104.065
167.5	103.825	103.830	103.835	104.170	104.504	104.434	104.364	104.124	103.885	103.935
170.0	103.146	103.196	103.246	103.755	104.264	104.164	104.065	103.725	103.386	103.805
172.5	103.655	103.765	103.875	104.229	104.584	104.439	104.294	103.920	103.545	103.885
175.0	104.164	104.334	104.504	104.704	104.903	104.714	104.524	104.114	103.705	103.965
177.5	104.364	104.190	104.015	104.284	104.554	104.469	104.384	104.035	103.685	103.955
180.0	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655

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	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905
2.5	143.216	143.316	143.416	143.461	143.506	143.396	143.286	143.276	143.266	143.266
5.0	142.527	142.727	142.926	143.016	143.106	142.886	142.667	142.647	142.627	142.627
7.5	142.347	142.767	143.186	143.211	143.236	142.802	142.367	142.382	142.397	142.607
10.0	142.168	142.807	143.446	143.406	143.366	142.717	142.068	142.118	142.168	142.587
12.5	141.548	142.118	142.687	142.537	142.387	142.008	141.628	141.858	142.088	142.297
15.0	140.929	141.429	141.928	141.668	141.409	141.299	141.189	141.598	142.008	142.008
17.5	140.710	141.025	141.339	141.159	140.979	140.905	140.830	141.149	141.469	141.229
20.0	140.490	140.620	140.750	140.650	140.550	140.510	140.470	140.700	140.929	140.450
22.5	140.820	140.879	140.939	140.605	140.270	140.420	140.570	140.595	140.620	140.290
25.0	141.149	141.139	141.129	140.560	139.991	140.330	140.670	140.490	140.310	140.131
27.5	141.618	141.284	140.949	140.740	140.530	140.690	140.850	140.955	141.059	140.705

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CANDELA TABULATION - (Cont.)

30.0	142.088	141.429	140.770	140.919	141.069	141.049	141.029	141.419	141.808	141.279
32.5	140.620	140.540	140.460	140.230	140.001	140.001	140.001	140.210	140.420	140.286
35.0	139.152	139.651	140.151	139.541	138.932	138.952	138.972	139.002	139.032	139.292
37.5	140.051	140.126	140.201	139.816	139.432	139.567	139.701	139.721	139.741	139.916
40.0	140.949	140.600	140.250	140.091	139.931	140.181	140.430	140.440	140.450	140.540
42.5	139.432	139.277	139.122	138.798	138.473	138.898	139.322	139.062	138.803	138.882
45.0	137.914	137.954	137.994	137.505	137.015	137.614	138.213	137.684	137.155	137.225
47.5	136.786	136.826	136.865	136.541	136.216	136.646	137.075	136.506	135.937	136.117
50.0	135.657	135.697	135.737	135.577	135.418	135.677	135.937	135.328	134.719	135.008
52.5	133.930	133.970	134.010	133.785	133.560	133.755	133.950	133.915	133.880	133.715
55.0	132.202	132.242	132.282	131.993	131.703	131.833	131.963	132.502	133.041	132.422
57.5	132.911	132.717	132.522	132.592	132.662	132.477	132.292	132.682	133.071	132.762
60.0	133.620	133.191	132.762	133.191	133.620	133.121	132.622	132.861	133.101	133.101
62.5	133.341	133.056	132.772	133.016	133.261	133.326	133.391	133.526	133.660	133.311
65.0	133.061	132.921	132.782	132.842	132.901	133.530	134.160	134.189	134.219	133.520
67.5	130.715	130.660	130.605	130.850	131.094	131.249	131.404	131.464	131.523	131.054
70.0	128.368	128.398	128.428	128.857	129.287	128.967	128.648	128.738	128.827	128.588
72.5	127.979	127.954	127.929	127.979	128.029	128.039	128.049	127.874	127.699	127.585
75.0	127.589	127.509	127.430	127.100	126.771	127.110	127.450	127.010	126.571	126.581
77.5	125.413	125.652	125.892	125.608	125.323	125.712	126.102	125.562	125.023	125.028
80.0	123.236	123.795	124.354	124.115	123.875	124.314	124.754	124.115	123.475	123.475
82.5	123.805	124.090	124.374	124.294	124.214	124.309	124.404	124.369	124.334	124.144
85.0	124.374	124.384	124.394	124.474	124.554	124.304	124.055	124.624	125.193	124.813
87.5	123.985	123.910	123.835	123.735	123.635	123.491	123.346	123.601	123.855	123.935
90.0	123.595	123.436	123.276	122.996	122.717	122.677	122.637	122.577	122.517	123.056
92.5	121.888	121.798	121.708	121.364	121.019	121.079	121.139	121.344	121.548	121.738
95.0	120.180	120.160	120.140	119.731	119.322	119.481	119.641	120.111	120.580	120.420
97.5	121.059	120.935	120.809	120.829	120.849	120.575	120.300	120.605	120.909	120.959
100.0	121.938	121.708	121.478	121.928	122.377	121.668	120.959	121.099	121.239	121.498
102.5	120.001	120.160	120.320	120.430	120.540	120.116	119.691	119.911	120.130	120.071
105.0	118.064	118.613	119.162	118.932	118.703	118.563	118.423	118.723	119.022	118.643
107.5	118.832	119.157	119.481	119.407	119.332	119.327	119.322	119.367	119.412	118.997
110.0	119.601	119.701	119.801	119.881	119.961	120.091	120.220	120.011	119.801	119.352
112.5	119.432	119.561	119.691	119.487	119.282	119.577	119.871	119.766	119.661	119.477
115.0	119.262	119.422	119.581	119.092	118.603	119.062	119.521	119.521	119.521	119.601
117.5	119.761	120.071	120.380	120.216	120.051	119.931	119.811	120.130	120.450	120.395
120.0	120.260	120.720	121.179	121.339	121.498	120.799	120.101	120.740	121.379	121.189
122.5	118.852	119.052	119.252	119.332	119.412	118.997	118.583	119.117	119.651	119.332
125.0	117.445	117.385	117.325	117.325	117.325	117.195	117.065	117.494	117.924	117.474
127.5	116.306	116.486	116.666	116.361	116.057	116.226	116.396	116.456	116.516	116.222
130.0	115.168	115.587	116.007	115.398	114.788	115.258	115.727	115.418	115.108	114.968
132.5	115.048	115.328	115.607	114.953	114.299	114.604	114.908	115.013	115.118	114.774
135.0	114.928	115.068	115.208	114.509	113.810	113.950	114.090	114.609	115.128	114.579
137.5	114.739	114.704	114.669	114.424	114.179	114.274	114.369	114.404	114.439	114.374
140.0	114.549	114.339	114.129	114.339	114.549	114.599	114.649	114.199	113.750	114.169
142.5	114.269	113.950	113.630	113.930	114.229	114.080	113.930	113.835	113.740	113.970
145.0	113.990	113.560	113.131	113.520	113.910	113.560	113.211	113.470	113.730	113.770
147.5	111.893	111.808	111.723	111.718	111.713	111.663	111.613	111.828	112.043	112.198
150.0	109.796	110.056	110.315	109.916	109.516	109.766	110.016	110.185	110.355	110.625
152.5	109.486	109.562	109.636	109.631	109.626	109.751	109.876	109.951	110.026	110.006
155.0	109.177	109.067	108.957	109.347	109.736	109.736	109.736	109.716	109.696	109.387
157.5	107.020	107.245	107.469	107.594	107.719	107.889	108.059	107.719	107.380	107.445
160.0	104.863	105.422	105.982	105.842	105.702	106.042	106.381	105.722	105.063	105.502
162.5	104.304	104.594	104.883	105.168	105.452	105.393	105.333	104.948	104.564	105.058
165.0	103.745	103.765	103.785	104.494	105.203	104.743	104.284	104.174	104.065	104.614
167.5	103.985	103.865	103.745	104.269	104.793	104.449	104.104	104.065	104.025	104.239

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CANDELA TABULATION - (Cont.)

170.0	104.224	103.965	103.705	104.045	104.384	104.154	103.925	103.955	103.985	103.865
172.5	104.224	103.955	103.685	104.170	104.654	104.289	103.925	103.950	103.975	103.980
175.0	104.224	103.945	103.665	104.294	104.923	104.424	103.925	103.945	103.965	104.094
177.5	104.224	104.104	103.985	104.329	104.674	104.304	103.935	104.030	104.124	104.210
180.0	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655

**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	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905
2.5	143.266	143.371	143.476	143.466	143.456	143.356	143.256	143.356	143.456	143.466
5.0	142.627	142.837	143.046	143.026	143.006	142.807	142.607	142.807	143.006	143.026
7.5	142.817	143.022	143.226	143.136	143.046	142.837	142.627	142.837	143.046	143.136
10.0	143.006	143.206	143.406	143.246	143.086	142.867	142.647	142.867	143.086	143.246
12.5	142.507	142.377	142.247	142.188	142.128	142.183	142.237	142.183	142.128	142.188
15.0	142.008	141.548	141.089	141.129	141.169	141.499	141.828	141.499	141.169	141.129
17.5	140.989	140.985	140.979	140.975	140.969	141.134	141.299	141.134	140.969	140.975
20.0	139.971	140.420	140.870	140.820	140.770	140.770	140.770	140.770	140.770	140.820
22.5	139.961	140.395	140.830	140.765	140.700	140.865	141.029	140.865	140.700	140.765
25.0	139.951	140.370	140.790	140.710	140.630	140.959	141.289	140.959	140.630	140.710
27.5	140.350	140.700	141.049	140.935	140.820	141.044	141.269	141.044	140.820	140.935
30.0	140.750	141.029	141.309	141.159	141.009	141.129	141.249	141.129	141.009	141.159
32.5	140.151	140.240	140.330	140.136	139.941	140.051	140.161	140.051	139.941	140.136
35.0	139.551	139.452	139.352	139.112	138.872	138.972	139.072	138.972	138.872	139.112
37.5	140.091	140.151	140.210	140.076	139.941	139.916	139.891	139.916	139.941	140.076
40.0	140.630	140.850	141.069	141.039	141.009	140.860	140.710	140.860	141.009	141.039
42.5	138.962	139.127	139.292	139.487	139.681	139.452	139.222	139.452	139.681	139.487
45.0	137.295	137.405	137.515	137.934	138.353	138.044	137.734	138.044	138.353	137.934
47.5	136.296	136.356	136.416	136.751	137.085	136.881	136.676	136.881	137.085	136.751
50.0	135.298	135.308	135.318	135.567	135.817	135.717	135.617	135.717	135.817	135.567
52.5	133.550	133.501	133.451	133.580	133.710	133.980	134.249	133.980	133.710	133.580
55.0	131.803	131.693	131.583	131.593	131.603	132.242	132.881	132.242	131.603	131.593
57.5	132.452	132.467	132.482	132.328	132.173	132.657	133.141	132.657	132.173	132.328
60.0	133.101	133.241	133.381	133.061	132.742	133.071	133.401	133.071	132.742	133.061
62.5	132.961	132.991	133.021	132.977	132.931	133.146	133.361	133.146	132.931	132.977
65.0	132.822	132.742	132.662	132.891	133.121	133.221	133.321	133.221	133.121	132.891
67.5	130.585	130.425	130.265	130.600	130.934	130.770	130.605	130.770	130.934	130.600
70.0	128.348	128.109	127.869	128.308	128.748	128.318	127.889	128.318	128.748	128.308
72.5	127.470	127.535	127.599	127.674	127.749	127.400	127.050	127.400	127.749	127.674
75.0	126.591	126.960	127.330	127.040	126.751	126.481	126.211	126.481	126.751	127.040
77.5	125.033	125.288	125.542	125.498	125.453	125.413	125.373	125.413	125.453	125.498
80.0	123.475	123.615	123.755	123.955	124.154	124.344	124.534	124.344	124.154	123.955
82.5	123.955	124.030	124.105	124.170	124.234	124.539	124.843	124.539	124.234	124.170
85.0	124.434	124.444	124.454	124.384	124.314	124.734	125.153	124.734	124.314	124.384
87.5	124.015	124.085	124.154	123.900	123.645	123.870	124.095	123.870	123.645	123.900
90.0	123.595	123.725	123.855	123.416	122.976	123.006	123.036	123.006	122.976	123.416
92.5	121.928	121.763	121.598	121.464	121.329	121.598	121.868	121.598	121.329	121.464
95.0	120.260	119.801	119.342	119.511	119.681	120.190	120.700	120.190	119.681	119.511
97.5	121.009	120.760	120.510	120.415	120.320	120.799	121.279	120.799	120.320	120.415
100.0	121.758	121.718	121.678	121.319	120.959	121.409	121.858	121.409	120.959	121.319
102.5	120.011	120.156	120.300	120.146	119.991	119.991	119.991	119.991	119.991	120.146
105.0	118.263	118.593	118.922	118.972	119.022	118.573	118.123	118.573	119.022	118.972
107.5	118.583	118.972	119.362	119.342	119.322	119.197	119.072	119.197	119.322	119.342
110.0	118.902	119.352	119.801	119.711	119.621	119.821	120.021	119.821	119.621	119.711
112.5	119.292	119.227	119.162	119.277	119.392	119.491	119.591	119.491	119.392	119.277
115.0	119.681	119.102	118.523	118.842	119.162	119.162	119.162	119.162	119.162	118.842

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CANDELA TABULATION - (Cont.)

117.5	120.340	119.876	119.412	119.861	120.310	120.230	120.150	120.230	120.310	119.861
120.0	120.999	120.650	120.300	120.879	121.459	121.299	121.139	121.299	121.459	120.879
122.5	119.012	119.052	119.092	119.332	119.571	119.521	119.471	119.521	119.571	119.332
125.0	117.025	117.454	117.884	117.784	117.684	117.744	117.804	117.744	117.684	117.784
127.5	115.927	116.451	116.975	116.691	116.406	116.506	116.606	116.506	116.406	116.691
130.0	114.828	115.447	116.067	115.597	115.128	115.268	115.408	115.268	115.128	115.597
132.5	114.429	114.684	114.938	114.988	115.038	115.088	115.138	115.088	115.038	114.988
135.0	114.030	113.920	113.810	114.379	114.948	114.908	114.868	114.908	114.948	114.379
137.5	114.309	114.245	114.179	114.205	114.229	114.235	114.239	114.235	114.229	114.205
140.0	114.589	114.569	114.549	114.030	113.510	113.560	113.610	113.560	113.510	114.030
142.5	114.199	113.985	113.770	113.815	113.860	113.635	113.411	113.635	113.860	113.815
145.0	113.810	113.401	112.991	113.600	114.209	113.710	113.211	113.710	114.209	113.600
147.5	112.352	112.172	111.993	112.093	112.192	112.068	111.943	112.068	112.192	112.093
150.0	110.894	110.944	110.994	110.585	110.175	110.425	110.675	110.425	110.175	110.585
152.5	109.986	110.115	110.245	110.191	110.135	110.235	110.335	110.235	110.135	110.191
155.0	109.077	109.287	109.496	109.796	110.095	110.046	109.996	110.046	110.095	109.796
157.5	107.509	107.649	107.789	107.689	107.589	107.619	107.649	107.619	107.589	107.689
160.0	105.942	106.012	106.081	105.582	105.083	105.193	105.303	105.193	105.083	105.582
162.5	105.552	105.298	105.043	104.983	104.923	104.729	104.534	104.729	104.923	104.983
165.0	105.163	104.584	104.005	104.384	104.763	104.264	103.765	104.264	104.763	104.384
167.5	104.454	104.364	104.274	104.424	104.574	104.210	103.845	104.210	104.574	104.424
170.0	103.745	104.144	104.544	104.464	104.384	104.154	103.925	104.154	104.384	104.464
172.5	103.985	104.289	104.594	104.359	104.124	104.065	104.005	104.065	104.124	104.359
175.0	104.224	104.434	104.644	104.254	103.865	103.975	104.084	103.975	103.865	104.254
177.5	104.294	104.134	103.975	103.905	103.835	104.005	104.174	104.005	103.835	103.905
180.0	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655

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	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905
2.5	143.476	143.371	143.266	143.266	143.266	143.276	143.286	143.396	143.506	143.461
5.0	143.046	142.837	142.627	142.627	142.627	142.647	142.667	142.886	143.106	143.016
7.5	143.226	143.022	142.817	142.607	142.397	142.382	142.367	142.802	143.236	143.211
10.0	143.406	143.206	143.006	142.587	142.168	142.118	142.068	142.717	143.366	143.406
12.5	142.247	142.377	142.507	142.297	142.088	141.858	141.628	142.008	142.387	142.537
15.0	141.089	141.548	142.008	142.008	142.008	141.598	141.189	141.299	141.409	141.668
17.5	140.979	140.985	140.989	141.229	141.469	141.149	140.830	140.905	140.979	141.159
20.0	140.870	140.420	139.971	140.450	140.929	140.700	140.470	140.510	140.550	140.650
22.5	140.830	140.395	139.961	140.290	140.620	140.595	140.570	140.420	140.270	140.605
25.0	140.790	140.370	139.951	140.131	140.310	140.490	140.670	140.330	139.991	140.560
27.5	141.049	140.700	140.350	140.705	141.059	140.955	140.850	140.690	140.530	140.740
30.0	141.309	141.029	140.750	141.279	141.808	141.419	141.029	141.049	141.069	140.919
32.5	140.330	140.240	140.151	140.286	140.420	140.210	140.001	140.001	140.001	140.230
35.0	139.352	139.452	139.551	139.292	139.032	139.002	138.972	138.952	138.932	139.541
37.5	140.210	140.151	140.091	139.916	139.741	139.721	139.701	139.567	139.432	139.816
40.0	141.069	140.850	140.630	140.540	140.450	140.440	140.430	140.181	139.931	140.091
42.5	139.292	139.127	138.962	138.882	138.803	139.062	139.322	138.898	138.473	138.798
45.0	137.515	137.405	137.295	137.225	137.155	137.684	138.213	137.614	137.015	137.505
47.5	136.416	136.356	136.296	136.117	135.937	136.506	137.075	136.646	136.216	136.541
50.0	135.318	135.308	135.298	135.008	134.719	135.328	135.937	135.677	135.418	135.577
52.5	133.451	133.501	133.550	133.715	133.880	133.915	133.950	133.755	133.560	133.785
55.0	131.583	131.693	131.803	132.422	133.041	132.502	131.963	131.833	131.703	131.993
57.5	132.482	132.467	132.452	132.762	133.071	132.682	132.292	132.477	132.662	132.592
60.0	133.381	133.241	133.101	133.101	133.101	132.861	132.622	133.121	133.620	133.191
62.5	133.021	132.991	132.961	133.311	133.660	133.526	133.391	133.326	133.261	133.016

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CANDELA TABULATION - (Cont.)

65.0	132.662	132.742	132.822	133.520	134.219	134.189	134.160	133.530	132.901	132.842
67.5	130.265	130.425	130.585	131.054	131.523	131.464	131.404	131.249	131.094	130.850
70.0	127.869	128.109	128.348	128.588	128.827	128.738	128.648	128.967	129.287	128.857
72.5	127.599	127.535	127.470	127.585	127.699	127.874	128.049	128.039	128.029	127.979
75.0	127.330	126.960	126.591	126.581	126.571	127.010	127.450	127.110	126.771	127.100
77.5	125.542	125.288	125.033	125.028	125.023	125.562	126.102	125.712	125.323	125.608
80.0	123.755	123.615	123.475	123.475	123.475	124.115	124.754	124.314	123.875	124.115
82.5	124.105	124.030	123.955	124.144	124.334	124.369	124.404	124.309	124.214	124.294
85.0	124.454	124.444	124.434	124.813	125.193	124.624	124.055	124.304	124.554	124.474
87.5	124.154	124.085	124.015	123.935	123.855	123.601	123.346	123.491	123.635	123.735
90.0	123.855	123.725	123.595	123.056	122.517	122.577	122.637	122.677	122.717	122.996
92.5	121.598	121.763	121.928	121.738	121.548	121.344	121.139	121.079	121.019	121.364
95.0	119.342	119.801	120.260	120.420	120.580	120.111	119.641	119.481	119.322	119.731
97.5	120.510	120.760	121.009	120.959	120.909	120.605	120.300	120.575	120.849	120.829
100.0	121.678	121.718	121.758	121.498	121.239	121.099	120.959	121.668	122.377	121.928
102.5	120.300	120.156	120.011	120.071	120.130	119.911	119.691	120.116	120.540	120.430
105.0	118.922	118.593	118.263	118.643	119.022	118.723	118.423	118.563	118.703	118.932
107.5	119.362	118.972	118.583	118.997	119.412	119.367	119.322	119.327	119.332	119.407
110.0	119.801	119.352	118.902	119.352	119.801	120.011	120.220	120.091	119.961	119.881
112.5	119.162	119.227	119.292	119.477	119.661	119.766	119.871	119.577	119.282	119.487
115.0	118.523	119.102	119.681	119.601	119.521	119.521	119.521	119.062	118.603	119.092
117.5	119.412	119.876	120.340	120.395	120.450	120.130	119.811	119.931	120.051	120.216
120.0	120.300	120.650	120.999	121.189	121.379	120.740	120.101	120.799	121.498	121.339
122.5	119.092	119.052	119.012	119.332	119.651	119.117	118.583	118.997	119.412	119.332
125.0	117.884	117.454	117.025	117.474	117.924	117.494	117.065	117.195	117.325	117.325
127.5	116.975	116.451	115.927	116.222	116.516	116.456	116.396	116.226	116.057	116.361
130.0	116.067	115.447	114.828	114.968	115.108	115.418	115.727	115.258	114.788	115.398
132.5	114.938	114.684	114.429	114.774	115.118	115.013	114.908	114.604	114.299	114.953
135.0	113.810	113.920	114.030	114.579	115.128	114.609	114.090	113.950	113.810	114.509
137.5	114.179	114.245	114.309	114.374	114.439	114.404	114.369	114.274	114.179	114.424
140.0	114.549	114.569	114.589	114.169	113.750	114.199	114.649	114.599	114.549	114.339
142.5	113.770	113.985	114.199	113.970	113.740	113.835	113.930	114.080	114.229	113.930
145.0	112.991	113.401	113.810	113.770	113.730	113.470	113.211	113.560	113.910	113.520
147.5	111.993	112.172	112.352	112.198	112.043	111.828	111.613	111.663	111.713	111.718
150.0	110.994	110.944	110.894	110.625	110.355	110.185	110.016	109.766	109.516	109.916
152.5	110.245	110.115	109.986	110.006	110.026	109.951	109.876	109.751	109.626	109.631
155.0	109.496	109.287	109.077	109.387	109.696	109.716	109.736	109.736	109.736	109.347
157.5	107.789	107.649	107.509	107.445	107.380	107.719	108.059	107.889	107.719	107.594
160.0	106.081	106.012	105.942	105.502	105.063	105.722	106.381	106.042	105.702	105.842
162.5	105.043	105.298	105.552	105.058	104.564	104.948	105.333	105.393	105.452	105.168
165.0	104.005	104.584	105.163	104.614	104.065	104.174	104.284	104.743	105.203	104.494
167.5	104.274	104.364	104.454	104.239	104.025	104.065	104.104	104.449	104.793	104.269
170.0	104.544	104.144	103.745	103.865	103.985	103.955	103.925	104.154	104.384	104.045
172.5	104.594	104.289	103.985	103.980	103.975	103.950	103.925	104.289	104.654	104.170
175.0	104.644	104.434	104.224	104.094	103.965	103.945	103.925	104.424	104.923	104.294
177.5	103.975	104.134	104.294	104.210	104.124	104.030	103.935	104.304	104.674	104.329
180.0	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655

Vert. 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	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905
2.5	143.416	143.316	143.216	143.281	143.346	143.401	143.456	143.336	143.216	143.326
5.0	142.926	142.727	142.527	142.657	142.787	142.896	143.006	142.767	142.527	142.747
7.5	143.186	142.767	142.347	142.382	142.417	142.552	142.687	142.752	142.817	142.657
10.0	143.446	142.807	142.168	142.108	142.048	142.208	142.367	142.737	143.106	142.567

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CANDELA TABULATION - (Cont.)

12.5	142.687	142.118	141.548	141.808	142.068	141.818	141.568	141.888	142.208	142.123
15.0	141.928	141.429	140.929	141.509	142.088	141.429	140.770	141.039	141.309	141.678
17.5	141.339	141.025	140.710	140.975	141.239	141.064	140.889	141.039	141.189	141.154
20.0	140.750	140.620	140.490	140.440	140.390	140.700	141.009	141.039	141.069	140.630
22.5	140.939	140.879	140.820	140.715	140.610	140.555	140.500	140.665	140.830	140.755
25.0	141.129	141.139	141.149	140.989	140.830	140.410	139.991	140.290	140.590	140.879
27.5	140.949	141.284	141.618	141.424	141.229	140.965	140.700	140.929	141.159	141.344
30.0	140.770	141.429	142.088	141.858	141.628	141.519	141.409	141.568	141.728	141.808
32.5	140.460	140.540	140.620	140.670	140.720	140.420	140.121	140.455	140.790	140.685
35.0	140.151	139.651	139.152	139.482	139.811	139.322	138.833	139.342	139.851	139.561
37.5	140.201	140.126	140.051	140.106	140.161	140.021	139.881	140.041	140.201	140.256
40.0	140.250	140.600	140.949	140.730	140.510	140.720	140.929	140.740	140.550	140.949
42.5	139.122	139.277	139.432	139.172	138.912	139.192	139.472	139.302	139.132	139.412
45.0	137.994	137.954	137.914	137.614	137.315	137.664	138.014	137.864	137.714	137.874
47.5	136.865	136.826	136.786	136.516	136.246	136.312	136.376	136.526	136.676	136.885
50.0	135.737	135.697	135.657	135.418	135.178	134.958	134.739	135.188	135.637	135.897
52.5	134.010	133.970	133.930	133.800	133.670	133.496	133.321	133.530	133.740	134.135
55.0	132.282	132.242	132.202	132.182	132.163	132.033	131.903	131.873	131.843	132.372
57.5	132.522	132.717	132.911	132.662	132.412	132.517	132.622	132.392	132.163	132.437
60.0	132.762	133.191	133.620	133.141	132.662	133.001	133.341	132.911	132.482	132.502
62.5	132.772	133.056	133.341	133.036	132.732	133.236	133.740	133.411	133.081	133.176
65.0	132.782	132.921	133.061	132.931	132.802	133.471	134.140	133.910	133.680	133.850
67.5	130.605	130.660	130.715	130.810	130.904	131.159	131.414	131.384	131.354	131.384
70.0	128.428	128.398	128.368	128.688	129.007	128.847	128.688	128.857	129.027	128.917
72.5	127.929	127.954	127.979	128.074	128.168	127.789	127.410	127.565	127.719	127.944
75.0	127.430	127.509	127.589	127.460	127.330	126.731	126.132	126.271	126.411	126.970
77.5	125.892	125.652	125.413	125.383	125.353	125.198	125.043	125.063	125.083	125.333
80.0	124.354	123.795	123.236	123.306	123.376	123.665	123.955	123.855	123.755	123.695
82.5	124.374	124.090	123.805	123.990	124.174	124.364	124.554	124.284	124.015	124.230
85.0	124.394	124.384	124.374	124.674	124.973	125.063	125.153	124.714	124.274	124.764
87.5	123.835	123.910	123.985	123.900	123.815	123.900	123.985	123.715	123.446	123.650
90.0	123.276	123.436	123.595	123.126	122.657	122.737	122.816	122.717	122.617	122.537
92.5	121.708	121.798	121.888	121.783	121.678	121.364	121.049	121.189	121.329	121.349
95.0	120.140	120.160	120.180	120.440	120.700	119.991	119.282	119.661	120.041	120.160
97.5	120.809	120.935	121.059	120.989	120.919	120.535	120.150	120.445	120.740	120.715
100.0	121.478	121.708	121.938	121.538	121.139	121.079	121.019	121.229	121.439	121.269
102.5	120.320	120.160	120.001	119.776	119.551	119.636	119.721	120.076	120.430	120.250
105.0	119.162	118.613	118.064	118.014	117.964	118.193	118.423	118.922	119.422	119.232
107.5	119.481	119.157	118.832	118.628	118.423	118.872	119.322	119.561	119.801	119.571
110.0	119.801	119.701	119.601	119.242	118.882	119.551	120.220	120.200	120.180	119.911
112.5	119.691	119.561	119.432	119.207	118.982	119.222	119.461	119.731	120.001	119.776
115.0	119.581	119.422	119.262	119.172	119.082	118.892	118.703	119.262	119.821	119.641
117.5	120.380	120.071	119.761	120.021	120.280	120.220	120.160	120.385	120.610	120.246
120.0	121.179	120.720	120.260	120.869	121.478	121.548	121.618	121.508	121.399	120.849
122.5	119.252	119.052	118.852	119.077	119.302	119.352	119.402	119.587	119.771	119.282
125.0	117.325	117.385	117.445	117.285	117.125	117.155	117.185	117.664	118.143	117.714
127.5	116.666	116.486	116.306	116.122	115.937	116.192	116.446	116.706	116.965	116.666
130.0	116.007	115.587	115.168	114.958	114.749	115.228	115.707	115.747	115.787	115.617
132.5	115.607	115.328	115.048	114.904	114.759	114.973	115.188	114.998	114.808	115.068
135.0	115.208	115.068	114.928	114.848	114.769	114.719	114.669	114.249	113.830	114.519
137.5	114.669	114.704	114.739	114.424	114.109	114.159	114.209	114.215	114.219	114.469
140.0	114.129	114.339	114.549	114.000	113.450	113.600	113.750	114.179	114.609	114.419
142.5	113.630	113.950	114.269	114.045	113.820	113.635	113.450	113.645	113.840	113.880
145.0	113.131	113.560	113.990	114.090	114.189	113.670	113.151	113.111	113.071	113.341
147.5	111.723	111.808	111.893	112.232	112.572	112.212	111.853	111.788	111.723	111.643
150.0	110.315	110.056	109.796	110.375	110.954	110.755	110.555	110.465	110.375	109.946

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CANDELA TABULATION - (Cont.)

152.5	109.636	109.562	109.486	109.701	109.916	110.041	110.165	110.036	109.906	109.736
155.0	108.957	109.067	109.177	109.027	108.877	109.327	109.776	109.606	109.436	109.526
157.5	107.469	107.245	107.020	107.115	107.210	107.649	108.088	107.939	107.789	107.829
160.0	105.982	105.422	104.863	105.203	105.542	105.972	106.401	106.271	106.141	106.131
162.5	104.883	104.594	104.304	104.634	104.963	105.248	105.532	105.488	105.442	105.358
165.0	103.785	103.765	103.745	104.065	104.384	104.524	104.664	104.704	104.743	104.584
167.5	103.745	103.865	103.985	103.935	103.885	104.124	104.364	104.434	104.504	104.170
170.0	103.705	103.965	104.224	103.805	103.386	103.725	104.065	104.164	104.264	103.755
172.5	103.685	103.955	104.224	103.885	103.545	103.920	104.294	104.439	104.584	104.229
175.0	103.665	103.945	104.224	103.965	103.705	104.114	104.524	104.714	104.903	104.704
177.5	103.985	104.104	104.224	103.955	103.685	104.035	104.384	104.469	104.554	104.284
180.0	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655

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	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905
2.5	143.436	143.421	143.406	143.441	143.476	143.426	143.376	143.406	143.436	143.396
5.0	142.966	142.936	142.906	142.976	143.046	142.946	142.847	142.906	142.966	142.886
7.5	142.497	142.702	142.906	142.877	142.847	142.882	142.916	142.982	143.046	143.032
10.0	142.028	142.467	142.906	142.777	142.647	142.817	142.986	143.056	143.126	143.176
12.5	142.038	142.233	142.427	142.198	141.968	142.123	142.277	142.337	142.397	142.452
15.0	142.048	141.998	141.948	141.618	141.289	141.429	141.568	141.618	141.668	141.728
17.5	141.119	141.164	141.209	141.134	141.059	141.099	141.139	141.194	141.249	141.324
20.0	140.191	140.330	140.470	140.650	140.830	140.770	140.710	140.770	140.830	140.919
22.5	140.680	140.705	140.730	140.540	140.350	140.320	140.290	140.525	140.760	140.855
25.0	141.169	141.079	140.989	140.430	139.871	139.871	139.871	140.280	140.690	140.790
27.5	141.529	141.219	140.909	140.785	140.660	140.840	141.019	141.204	141.389	141.424
30.0	141.888	141.359	140.830	141.139	141.449	141.808	142.168	142.128	142.088	142.058
32.5	140.580	140.230	139.881	139.996	140.111	140.385	140.660	140.750	140.840	140.725
35.0	139.272	139.102	138.932	138.853	138.773	138.962	139.152	139.372	139.591	139.392
37.5	140.310	140.011	139.711	139.821	139.931	139.796	139.661	139.836	140.011	139.976
40.0	141.349	140.919	140.490	140.790	141.089	140.630	140.171	140.300	140.430	140.560
42.5	139.691	139.387	139.082	139.267	139.452	139.197	138.942	139.077	139.212	139.037
45.0	138.034	137.854	137.674	137.744	137.814	137.764	137.714	137.854	137.994	137.515
47.5	137.095	136.656	136.216	136.521	136.826	136.701	136.576	136.456	136.336	136.436
50.0	136.157	135.458	134.759	135.298	135.837	135.637	135.438	135.058	134.679	135.358
52.5	134.529	133.950	133.371	133.855	134.339	133.935	133.530	133.316	133.101	133.436
55.0	132.901	132.442	131.983	132.412	132.842	132.232	131.623	131.573	131.523	131.513
57.5	132.712	132.407	132.103	132.512	132.921	132.587	132.252	132.242	132.232	132.362
60.0	132.522	132.372	132.222	132.612	133.001	132.941	132.881	132.911	132.941	133.211
62.5	133.271	133.006	132.742	132.997	133.251	133.236	133.221	133.236	133.251	133.396
65.0	134.020	133.640	133.261	133.381	133.501	133.530	133.560	133.560	133.560	133.580
67.5	131.414	131.229	131.044	130.944	130.844	130.825	130.805	131.129	131.454	131.339
70.0	128.808	128.818	128.827	128.508	128.188	128.119	128.049	128.698	129.347	129.097
72.5	128.168	127.919	127.669	127.499	127.330	127.480	127.629	127.959	128.288	128.014
75.0	127.529	127.020	126.511	126.491	126.471	126.840	127.210	127.220	127.230	126.930
77.5	125.582	125.298	125.013	125.188	125.363	125.478	125.592	125.727	125.862	125.443
80.0	123.635	123.575	123.515	123.885	124.254	124.115	123.975	124.234	124.494	123.955
82.5	124.444	124.100	123.755	124.240	124.724	124.484	124.244	124.254	124.264	124.030
85.0	125.253	124.624	123.995	124.594	125.193	124.853	124.514	124.274	124.035	124.105
87.5	123.855	123.785	123.715	123.875	124.035	123.990	123.945	123.755	123.565	123.790
90.0	122.457	122.946	123.436	123.156	122.876	123.126	123.376	123.236	123.096	123.475
92.5	121.369	121.608	121.848	121.598	121.349	121.439	121.528	121.508	121.488	121.698
95.0	120.280	120.270	120.260	120.041	119.821	119.751	119.681	119.781	119.881	119.921
97.5	120.690	120.949	121.209	121.139	121.069	120.825	120.580	120.865	121.149	120.885

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CANDELA TABULATION - (Cont.)

100.0	121.099	121.628	122.157	122.237	122.317	121.898	121.478	121.948	122.417	121.848
102.5	120.071	120.290	120.510	120.340	120.170	120.286	120.400	120.310	120.220	120.286
105.0	119.042	118.952	118.862	118.443	118.024	118.673	119.322	118.673	118.024	118.723
107.5	119.342	119.142	118.942	119.037	119.132	119.477	119.821	119.481	119.142	119.157
110.0	119.641	119.332	119.022	119.631	120.240	120.280	120.320	120.290	120.260	119.591
112.5	119.551	119.257	118.962	119.407	119.851	119.866	119.881	119.631	119.382	119.172
115.0	119.461	119.182	118.902	119.182	119.461	119.452	119.442	118.972	118.503	118.753
117.5	119.881	119.871	119.861	120.086	120.310	120.081	119.851	119.626	119.402	119.751
120.0	120.300	120.560	120.819	120.989	121.159	120.710	120.260	120.280	120.300	120.750
122.5	118.792	119.057	119.322	119.352	119.382	119.097	118.812	118.753	118.693	119.242
125.0	117.285	117.554	117.824	117.714	117.604	117.484	117.365	117.225	117.085	117.734
127.5	116.366	116.321	116.276	116.451	116.626	116.541	116.456	116.206	115.957	116.351
130.0	115.447	115.088	114.729	115.188	115.647	115.597	115.547	115.188	114.828	114.968
132.5	115.328	114.993	114.659	114.734	114.808	114.874	114.938	114.709	114.479	114.559
135.0	115.208	114.898	114.589	114.279	113.970	114.149	114.329	114.229	114.129	114.149
137.5	114.719	114.444	114.169	114.155	114.139	114.065	113.990	114.109	114.229	114.289
140.0	114.229	113.990	113.750	114.030	114.309	113.980	113.650	113.990	114.329	114.429
142.5	113.920	113.745	113.570	113.566	113.560	113.590	113.620	113.720	113.820	113.905
145.0	113.610	113.500	113.391	113.101	112.811	113.201	113.590	113.450	113.311	113.381
147.5	111.563	111.763	111.963	111.758	111.553	111.583	111.613	111.503	111.394	111.768
150.0	109.516	110.026	110.535	110.415	110.295	109.966	109.636	109.556	109.476	110.155
152.5	109.566	109.616	109.666	109.911	110.155	109.801	109.446	109.522	109.596	109.901
155.0	109.616	109.207	108.797	109.407	110.016	109.636	109.257	109.486	109.716	109.646
157.5	107.869	107.734	107.599	107.739	107.879	107.609	107.340	107.419	107.499	107.410
160.0	106.121	106.261	106.401	106.072	105.742	105.582	105.422	105.353	105.283	105.173
162.5	105.273	105.363	105.452	105.432	105.412	105.183	104.953	104.769	104.584	104.849
165.0	104.424	104.464	104.504	104.793	105.083	104.783	104.484	104.184	103.885	104.524
167.5	103.835	103.830	103.825	104.264	104.704	104.409	104.114	103.955	103.795	104.055
170.0	103.246	103.196	103.146	103.735	104.324	104.035	103.745	103.725	103.705	103.585
172.5	103.875	103.765	103.655	103.945	104.234	104.060	103.885	103.855	103.825	103.740
175.0	104.504	104.334	104.164	104.154	104.144	104.084	104.025	103.985	103.945	103.895
177.5	104.015	104.190	104.364	104.070	103.775	103.735	103.695	103.890	104.084	104.200
180.0	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655

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	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905
2.5	143.356	143.376	143.396	143.376	143.356	143.396	143.436	143.406	143.376	143.426
5.0	142.807	142.847	142.886	142.847	142.807	142.886	142.966	142.906	142.847	142.946
7.5	143.016	142.872	142.727	142.872	143.016	143.032	143.046	142.982	142.916	142.882
10.0	143.226	142.896	142.567	142.896	143.226	143.176	143.126	143.056	142.986	142.817
12.5	142.507	142.427	142.347	142.427	142.507	142.452	142.397	142.337	142.277	142.123
15.0	141.788	141.958	142.128	141.958	141.788	141.728	141.668	141.618	141.568	141.429
17.5	141.399	141.539	141.678	141.539	141.399	141.324	141.249	141.194	141.139	141.099
20.0	141.009	141.119	141.229	141.119	141.009	140.919	140.830	140.770	140.710	140.770
22.5	140.949	141.005	141.059	141.005	140.949	140.855	140.760	140.525	140.290	140.320
25.0	140.889	140.889	140.889	140.889	140.889	140.790	140.690	140.280	139.871	139.871
27.5	141.459	141.209	140.959	141.209	141.459	141.424	141.389	141.204	141.019	140.840
30.0	142.028	141.529	141.029	141.529	142.028	142.058	142.088	142.128	142.168	141.808
32.5	140.610	140.260	139.911	140.260	140.610	140.725	140.840	140.750	140.660	140.385
35.0	139.192	138.992	138.793	138.992	139.192	139.392	139.591	139.372	139.152	138.962
37.5	139.941	139.851	139.761	139.851	139.941	139.976	140.011	139.836	139.661	139.796
40.0	140.690	140.710	140.730	140.710	140.690	140.560	140.430	140.300	140.171	140.630
42.5	138.863	139.217	139.571	139.217	138.863	139.037	139.212	139.077	138.942	139.197
45.0	137.035	137.724	138.413	137.724	137.035	137.515	137.994	137.854	137.714	137.764

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CANDELA TABULATION - (Cont.)

47.5	136.536	136.841	137.145	136.841	136.536	136.436	136.336	136.456	136.576	136.701
50.0	136.037	135.957	135.877	135.957	136.037	135.358	134.679	135.058	135.438	135.637
52.5	133.770	134.085	134.399	134.085	133.770	133.436	133.101	133.316	133.530	133.935
55.0	131.504	132.212	132.921	132.212	131.504	131.513	131.523	131.573	131.623	132.232
57.5	132.492	132.702	132.911	132.702	132.492	132.362	132.232	132.242	132.252	132.587
60.0	133.481	133.191	132.901	133.191	133.481	133.211	132.941	132.911	132.881	132.941
62.5	133.540	133.301	133.061	133.301	133.540	133.396	133.251	133.236	133.221	133.236
65.0	133.600	133.411	133.221	133.411	133.600	133.580	133.560	133.560	133.560	133.530
67.5	131.224	130.924	130.625	130.924	131.224	131.339	131.454	131.129	130.805	130.825
70.0	128.847	128.438	128.029	128.438	128.847	129.097	129.347	128.698	128.049	128.119
72.5	127.739	127.659	127.579	127.659	127.739	128.014	128.288	127.959	127.629	127.480
75.0	126.631	126.880	127.130	126.880	126.631	126.930	127.230	127.220	127.210	126.840
77.5	125.023	125.218	125.413	125.218	125.023	125.443	125.862	125.727	125.592	125.478
80.0	123.416	123.555	123.695	123.555	123.416	123.955	124.494	124.234	123.975	124.115
82.5	123.795	123.970	124.144	123.970	123.795	124.030	124.264	124.254	124.244	124.484
85.0	124.174	124.384	124.594	124.384	124.174	124.105	124.035	124.274	124.514	124.853
87.5	124.015	123.890	123.765	123.890	124.015	123.790	123.565	123.755	123.945	123.990
90.0	123.855	123.396	122.936	123.396	123.855	123.475	123.096	123.236	123.376	123.126
92.5	121.908	121.783	121.658	121.783	121.908	121.698	121.488	121.508	121.528	121.439
95.0	119.961	120.170	120.380	120.170	119.961	119.921	119.881	119.781	119.681	119.751
97.5	120.620	120.919	121.219	120.919	120.620	120.885	121.149	120.865	120.580	120.825
100.0	121.279	121.668	122.058	121.668	121.279	121.848	122.417	121.948	121.478	121.898
102.5	120.350	120.500	120.650	120.500	120.350	120.286	120.220	120.310	120.400	120.286
105.0	119.422	119.332	119.242	119.332	119.422	118.723	118.024	118.673	119.322	118.673
107.5	119.172	119.217	119.262	119.217	119.172	119.157	119.142	119.481	119.821	119.477
110.0	118.922	119.102	119.282	119.102	118.922	119.591	120.260	120.290	120.320	120.280
112.5	118.962	119.202	119.442	119.202	118.962	119.172	119.382	119.631	119.881	119.866
115.0	119.002	119.302	119.601	119.302	119.002	118.753	118.503	118.972	119.442	119.452
117.5	120.101	120.325	120.550	120.325	120.101	119.751	119.402	119.626	119.851	120.081
120.0	121.199	121.349	121.498	121.349	121.199	120.750	120.300	120.280	120.260	120.710
122.5	119.791	119.686	119.581	119.686	119.791	119.242	118.693	118.753	118.812	119.097
125.0	118.383	118.024	117.664	118.024	118.383	117.734	117.085	117.225	117.365	117.484
127.5	116.746	116.481	116.216	116.481	116.746	116.351	115.957	116.206	116.456	116.541
130.0	115.108	114.938	114.769	114.938	115.108	114.968	114.828	115.188	115.547	115.597
132.5	114.639	114.484	114.329	114.484	114.639	114.559	114.479	114.709	114.938	114.874
135.0	114.169	114.030	113.890	114.030	114.169	114.149	114.129	114.229	114.329	114.149
137.5	114.349	113.990	113.630	113.990	114.349	114.289	114.229	114.109	113.990	114.065
140.0	114.529	113.950	113.371	113.950	114.529	114.429	114.329	113.990	113.650	113.980
142.5	113.990	113.650	113.311	113.650	113.990	113.905	113.820	113.720	113.620	113.590
145.0	113.450	113.351	113.251	113.351	113.450	113.381	113.311	113.450	113.590	113.201
147.5	112.142	112.023	111.903	112.023	112.142	111.768	111.394	111.503	111.613	111.583
150.0	110.834	110.695	110.555	110.695	110.834	110.155	109.476	109.556	109.636	109.966
152.5	110.205	110.131	110.056	110.131	110.205	109.901	109.596	109.522	109.446	109.801
155.0	109.576	109.566	109.556	109.566	109.576	109.646	109.716	109.486	109.257	109.636
157.5	107.320	107.395	107.469	107.395	107.320	107.410	107.499	107.419	107.340	107.609
160.0	105.063	105.223	105.383	105.223	105.063	105.173	105.283	105.353	105.422	105.582
162.5	105.113	104.948	104.783	104.948	105.113	104.849	104.584	104.769	104.953	105.183
165.0	105.163	104.674	104.184	104.674	105.163	104.524	103.885	104.184	104.484	104.783
167.5	104.314	104.190	104.065	104.190	104.314	104.055	103.795	103.955	104.114	104.409
170.0	103.465	103.705	103.945	103.705	103.465	103.585	103.705	103.725	103.745	104.035
172.5	103.655	104.025	104.394	104.025	103.655	103.740	103.825	103.855	103.885	104.060
175.0	103.845	104.344	104.843	104.344	103.845	103.895	103.945	103.985	104.025	104.084
177.5	104.314	104.499	104.684	104.499	104.314	104.200	104.084	103.890	103.695	103.735
180.0	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655

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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	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905
2.5	143.476	143.441	143.406	143.421	143.436	143.326	143.216	143.336	143.456	143.401
5.0	143.046	142.976	142.906	142.936	142.966	142.747	142.527	142.767	143.006	142.896
7.5	142.847	142.877	142.906	142.702	142.497	142.657	142.817	142.752	142.687	142.552
10.0	142.647	142.777	142.906	142.467	142.028	142.567	143.106	142.737	142.367	142.208
12.5	141.968	142.198	142.427	142.233	142.038	142.123	142.208	141.888	141.568	141.818
15.0	141.289	141.618	141.948	141.998	142.048	141.678	141.309	141.039	140.770	141.429
17.5	141.059	141.134	141.209	141.164	141.119	141.154	141.189	141.039	140.889	141.064
20.0	140.830	140.650	140.470	140.330	140.191	140.630	141.069	141.039	141.009	140.700
22.5	140.350	140.540	140.730	140.705	140.680	140.755	140.830	140.665	140.500	140.555
25.0	139.871	140.430	140.989	141.079	141.169	140.879	140.590	140.290	139.991	140.410
27.5	140.660	140.785	140.909	141.219	141.529	141.344	141.159	140.929	140.700	140.965
30.0	141.449	141.139	140.830	141.359	141.888	141.808	141.728	141.568	141.409	141.519
32.5	140.111	139.996	139.881	140.230	140.580	140.685	140.790	140.455	140.121	140.420
35.0	138.773	138.853	138.932	139.102	139.272	139.561	139.851	139.342	138.833	139.322
37.5	139.931	139.821	139.711	140.011	140.310	140.256	140.201	140.041	139.881	140.021
40.0	141.089	140.790	140.490	140.919	141.349	140.949	140.550	140.740	140.929	140.720
42.5	139.452	139.267	139.082	139.387	139.691	139.412	139.132	139.302	139.472	139.192
45.0	137.814	137.744	137.674	137.854	138.034	137.874	137.714	137.864	138.014	137.664
47.5	136.826	136.521	136.216	136.656	137.095	136.885	136.676	136.526	136.376	136.312
50.0	135.837	135.298	134.759	135.458	136.157	135.897	135.637	135.188	134.739	134.958
52.5	134.339	133.855	133.371	133.950	134.529	134.135	133.740	133.530	133.321	133.496
55.0	132.842	132.412	131.983	132.442	132.901	132.372	131.843	131.873	131.903	132.033
57.5	132.921	132.512	132.103	132.407	132.712	132.437	132.163	132.392	132.622	132.517
60.0	133.001	132.612	132.222	132.372	132.522	132.502	132.482	132.911	133.341	133.001
62.5	133.251	132.997	132.742	133.006	133.271	133.176	133.081	133.411	133.740	133.236
65.0	133.501	133.381	133.261	133.640	134.020	133.850	133.680	133.910	134.140	133.471
67.5	130.844	130.944	131.044	131.229	131.414	131.384	131.354	131.384	131.414	131.159
70.0	128.188	128.508	128.827	128.818	128.808	128.917	129.027	128.857	128.688	128.847
72.5	127.330	127.499	127.669	127.919	128.168	127.944	127.719	127.565	127.410	127.789
75.0	126.471	126.491	126.511	127.020	127.529	126.970	126.411	126.271	126.132	126.731
77.5	125.363	125.188	125.013	125.298	125.582	125.333	125.083	125.063	125.043	125.198
80.0	124.254	123.885	123.515	123.575	123.635	123.695	123.755	123.855	123.955	123.665
82.5	124.724	124.240	123.755	124.100	124.444	124.230	124.015	124.284	124.554	124.364
85.0	125.193	124.594	123.995	124.624	125.253	124.764	124.274	124.714	125.153	125.063
87.5	124.035	123.875	123.715	123.785	123.855	123.650	123.446	123.715	123.985	123.900
90.0	122.876	123.156	123.436	122.946	122.457	122.537	122.617	122.717	122.816	122.737
92.5	121.349	121.598	121.848	121.608	121.369	121.349	121.329	121.189	121.049	121.364
95.0	119.821	120.041	120.260	120.270	120.280	120.160	120.041	119.661	119.282	119.991
97.5	121.069	121.139	121.209	120.949	120.690	120.715	120.740	120.445	120.150	120.535
100.0	122.317	122.237	122.157	121.628	121.099	121.269	121.439	121.229	121.019	121.079
102.5	120.170	120.340	120.510	120.290	120.071	120.250	120.430	120.076	119.721	119.636
105.0	118.024	118.443	118.862	118.952	119.042	119.232	119.422	118.922	118.423	118.193
107.5	119.132	119.037	118.942	119.142	119.342	119.571	119.801	119.561	119.322	118.872
110.0	120.240	119.631	119.022	119.332	119.641	119.911	120.180	120.200	120.220	119.551
112.5	119.851	119.407	118.962	119.257	119.551	119.776	120.001	119.731	119.461	119.222
115.0	119.461	119.182	118.902	119.182	119.461	119.641	119.821	119.262	118.703	118.892
117.5	120.310	120.086	119.861	119.871	119.881	120.246	120.610	120.385	120.160	120.220
120.0	121.159	120.989	120.819	120.560	120.300	120.849	121.399	121.508	121.618	121.548
122.5	119.382	119.352	119.322	119.057	118.792	119.282	119.771	119.587	119.402	119.352
125.0	117.604	117.714	117.824	117.554	117.285	117.714	118.143	117.664	117.185	117.155
127.5	116.626	116.451	116.276	116.321	116.366	116.666	116.965	116.706	116.446	116.192
130.0	115.647	115.188	114.729	115.088	115.447	115.617	115.787	115.747	115.707	115.228

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CANDELA TABULATION - (Cont.)

132.5	114.808	114.734	114.659	114.993	115.328	115.068	114.808	114.998	115.188	114.973
135.0	113.970	114.279	114.589	114.898	115.208	114.519	113.830	114.249	114.669	114.719
137.5	114.139	114.155	114.169	114.444	114.719	114.469	114.219	114.215	114.209	114.159
140.0	114.309	114.030	113.750	113.990	114.229	114.419	114.609	114.179	113.750	113.600
142.5	113.560	113.566	113.570	113.745	113.920	113.880	113.840	113.645	113.450	113.635
145.0	112.811	113.101	113.391	113.500	113.610	113.341	113.071	113.111	113.151	113.670
147.5	111.553	111.758	111.963	111.763	111.563	111.643	111.723	111.788	111.853	112.212
150.0	110.295	110.415	110.535	110.026	109.516	109.946	110.375	110.465	110.555	110.755
152.5	110.155	109.911	109.666	109.616	109.566	109.736	109.906	110.036	110.165	110.041
155.0	110.016	109.407	108.797	109.207	109.616	109.526	109.436	109.606	109.776	109.327
157.5	107.879	107.739	107.599	107.734	107.869	107.829	107.789	107.939	108.088	107.649
160.0	105.742	106.072	106.401	106.261	106.121	106.131	106.141	106.271	106.401	105.972
162.5	105.412	105.432	105.452	105.363	105.273	105.358	105.442	105.488	105.532	105.248
165.0	105.083	104.793	104.504	104.464	104.424	104.584	104.743	104.704	104.664	104.524
167.5	104.704	104.264	103.825	103.830	103.835	104.170	104.504	104.434	104.364	104.124
170.0	104.324	103.735	103.146	103.196	103.246	103.755	104.264	104.164	104.065	103.725
172.5	104.234	103.945	103.655	103.765	103.875	104.229	104.584	104.439	104.294	103.920
175.0	104.144	104.154	104.164	104.334	104.504	104.704	104.903	104.714	104.524	104.114
177.5	103.775	104.070	104.364	104.190	104.015	104.284	104.554	104.469	104.384	104.035
180.0	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655

**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	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905
2.5	143.346	143.281	143.216	143.316	143.416	143.461	143.506	143.396	143.286	143.276
5.0	142.787	142.657	142.527	142.727	142.926	143.016	143.106	142.886	142.667	142.647
7.5	142.417	142.382	142.347	142.767	143.186	143.211	143.236	142.802	142.367	142.382
10.0	142.048	142.108	142.168	142.807	143.446	143.406	143.366	142.717	142.068	142.118
12.5	142.068	141.808	141.548	142.118	142.687	142.537	142.387	142.008	141.628	141.858
15.0	142.088	141.509	140.929	141.429	141.928	141.668	141.409	141.299	141.189	141.598
17.5	141.239	140.975	140.710	141.025	141.339	141.159	140.979	140.905	140.830	141.149
20.0	140.390	140.440	140.490	140.620	140.750	140.650	140.550	140.510	140.470	140.700
22.5	140.610	140.715	140.820	140.879	140.939	140.605	140.270	140.420	140.570	140.595
25.0	140.830	140.989	141.149	141.139	141.129	140.560	139.991	140.330	140.670	140.490
27.5	141.229	141.424	141.618	141.284	140.949	140.740	140.530	140.690	140.850	140.955
30.0	141.628	141.858	142.088	141.429	140.770	140.919	141.069	141.049	141.029	141.419
32.5	140.720	140.670	140.620	140.540	140.460	140.230	140.001	140.001	140.001	140.210
35.0	139.811	139.482	139.152	139.651	140.151	139.541	138.932	138.952	138.972	139.002
37.5	140.161	140.106	140.051	140.126	140.201	139.816	139.432	139.567	139.701	139.721
40.0	140.510	140.730	140.949	140.600	140.250	140.091	139.931	140.181	140.430	140.440
42.5	138.912	139.172	139.432	139.277	139.122	138.798	138.473	138.898	139.322	139.062
45.0	137.315	137.614	137.914	137.954	137.994	137.505	137.015	137.614	138.213	137.684
47.5	136.246	136.516	136.786	136.826	136.865	136.541	136.216	136.646	137.075	136.506
50.0	135.178	135.418	135.657	135.697	135.737	135.577	135.418	135.677	135.937	135.328
52.5	133.670	133.800	133.930	133.970	134.010	133.785	133.560	133.755	133.950	133.915
55.0	132.163	132.182	132.202	132.242	132.282	131.993	131.703	131.833	131.963	132.502
57.5	132.412	132.662	132.911	132.717	132.522	132.592	132.662	132.477	132.292	132.682
60.0	132.662	133.141	133.620	133.191	132.762	133.191	133.620	133.121	132.622	132.861
62.5	132.732	133.036	133.341	133.056	132.772	133.016	133.261	133.326	133.391	133.526
65.0	132.802	132.931	133.061	132.921	132.782	132.842	132.901	133.530	134.160	134.189
67.5	130.904	130.810	130.715	130.660	130.605	130.850	131.094	131.249	131.404	131.464
70.0	129.007	128.688	128.368	128.398	128.428	128.857	129.287	128.967	128.648	128.738
72.5	128.168	128.074	127.979	127.954	127.929	127.979	128.029	128.039	128.049	127.874
75.0	127.330	127.460	127.589	127.509	127.430	127.100	126.771	127.110	127.450	127.010
77.5	125.353	125.383	125.413	125.652	125.892	125.608	125.323	125.712	126.102	125.562

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CANDELA TABULATION - (Cont.)

80.0	123.376	123.306	123.236	123.795	124.354	124.115	123.875	124.314	124.754	124.115
82.5	124.174	123.990	123.805	124.090	124.374	124.294	124.214	124.309	124.404	124.369
85.0	124.973	124.674	124.374	124.384	124.394	124.474	124.554	124.304	124.055	124.624
87.5	123.815	123.900	123.985	123.910	123.835	123.735	123.635	123.491	123.346	123.601
90.0	122.657	123.126	123.595	123.436	123.276	122.996	122.717	122.677	122.637	122.577
92.5	121.678	121.783	121.888	121.798	121.708	121.364	121.019	121.079	121.139	121.344
95.0	120.700	120.440	120.180	120.160	120.140	119.731	119.322	119.481	119.641	120.111
97.5	120.919	120.989	121.059	120.935	120.809	120.829	120.849	120.575	120.300	120.605
100.0	121.139	121.538	121.938	121.708	121.478	121.928	122.377	121.668	120.959	121.099
102.5	119.551	119.776	120.001	120.160	120.320	120.430	120.540	120.116	119.691	119.911
105.0	117.964	118.014	118.064	118.613	119.162	118.932	118.703	118.563	118.423	118.723
107.5	118.423	118.628	118.832	119.157	119.481	119.407	119.332	119.327	119.322	119.367
110.0	118.882	119.242	119.601	119.701	119.801	119.881	119.961	120.091	120.220	120.011
112.5	118.982	119.207	119.432	119.561	119.691	119.487	119.282	119.577	119.871	119.766
115.0	119.082	119.172	119.262	119.422	119.581	119.092	118.603	119.062	119.521	119.521
117.5	120.280	120.021	119.761	120.071	120.380	120.216	120.051	119.931	119.811	120.130
120.0	121.478	120.869	120.260	120.720	121.179	121.339	121.498	120.799	120.101	120.740
122.5	119.302	119.077	118.852	119.052	119.252	119.332	119.412	118.997	118.583	119.117
125.0	117.125	117.285	117.445	117.385	117.325	117.325	117.325	117.195	117.065	117.494
127.5	115.937	116.122	116.306	116.486	116.666	116.361	116.057	116.226	116.396	116.456
130.0	114.749	114.958	115.168	115.587	116.007	115.398	114.788	115.258	115.727	115.418
132.5	114.759	114.904	115.048	115.328	115.607	114.953	114.299	114.604	114.908	115.013
135.0	114.769	114.848	114.928	115.068	115.208	114.509	113.810	113.950	114.090	114.609
137.5	114.109	114.424	114.739	114.704	114.669	114.424	114.179	114.274	114.369	114.404
140.0	113.450	114.000	114.549	114.339	114.129	114.339	114.549	114.599	114.649	114.199
142.5	113.820	114.045	114.269	113.950	113.630	113.930	114.229	114.080	113.930	113.835
145.0	114.189	114.090	113.990	113.560	113.131	113.520	113.910	113.560	113.211	113.470
147.5	112.572	112.232	111.893	111.808	111.723	111.718	111.713	111.663	111.613	111.828
150.0	110.954	110.375	109.796	110.056	110.315	109.916	109.516	109.766	110.016	110.185
152.5	109.916	109.701	109.486	109.562	109.636	109.631	109.626	109.751	109.876	109.951
155.0	108.877	109.027	109.177	109.067	108.957	109.347	109.736	109.736	109.736	109.716
157.5	107.210	107.115	107.020	107.245	107.469	107.594	107.719	107.889	108.059	107.719
160.0	105.542	105.203	104.863	105.422	105.982	105.842	105.702	106.042	106.381	105.722
162.5	104.963	104.634	104.304	104.594	104.883	105.168	105.452	105.393	105.333	104.948
165.0	104.384	104.065	103.745	103.765	103.785	104.494	105.203	104.743	104.284	104.174
167.5	103.885	103.935	103.985	103.865	103.745	104.269	104.793	104.449	104.104	104.065
170.0	103.386	103.805	104.224	103.965	103.705	104.045	104.384	104.154	103.925	103.955
172.5	103.545	103.885	104.224	103.955	103.685	104.170	104.654	104.289	103.925	103.950
175.0	103.705	103.965	104.224	103.945	103.665	104.294	104.923	104.424	103.925	103.945
177.5	103.685	103.955	104.224	104.104	103.985	104.329	104.674	104.304	103.935	104.030
180.0	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655

Vert. Horizontal Angles
Angles

	250.0	252.5	255.0	257.5	260.0	262.5	265.0	267.5	270.0	272.5
0.0	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905
2.5	143.266	143.266	143.266	143.371	143.476	143.466	143.456	143.356	143.256	143.356
5.0	142.627	142.627	142.627	142.837	143.046	143.026	143.006	142.807	142.607	142.807
7.5	142.397	142.607	142.817	143.022	143.226	143.136	143.046	142.837	142.627	142.837
10.0	142.168	142.587	143.006	143.206	143.406	143.246	143.086	142.867	142.647	142.867
12.5	142.088	142.297	142.507	142.377	142.247	142.188	142.128	142.183	142.237	142.183
15.0	142.008	142.008	142.008	141.548	141.089	141.129	141.169	141.499	141.828	141.499
17.5	141.469	141.229	140.989	140.985	140.979	140.975	140.969	141.134	141.299	141.134
20.0	140.929	140.450	139.971	140.420	140.870	140.820	140.770	140.770	140.770	140.770
22.5	140.620	140.290	139.961	140.395	140.830	140.765	140.700	140.865	141.029	140.865
25.0	140.310	140.131	139.951	140.370	140.790	140.710	140.630	140.959	141.289	140.959

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CANDELA TABULATION - (Cont.)

27.5	141.059	140.705	140.350	140.700	141.049	140.935	140.820	141.044	141.269	141.044
30.0	141.808	141.279	140.750	141.029	141.309	141.159	141.009	141.129	141.249	141.129
32.5	140.420	140.286	140.151	140.240	140.330	140.136	139.941	140.051	140.161	140.051
35.0	139.032	139.292	139.551	139.452	139.352	139.112	138.872	138.972	139.072	138.972
37.5	139.741	139.916	140.091	140.151	140.210	140.076	139.941	139.916	139.891	139.916
40.0	140.450	140.540	140.630	140.850	141.069	141.039	141.009	140.860	140.710	140.860
42.5	138.803	138.882	138.962	139.127	139.292	139.487	139.681	139.452	139.222	139.452
45.0	137.155	137.225	137.295	137.405	137.515	137.934	138.353	138.044	137.734	138.044
47.5	135.937	136.117	136.296	136.356	136.416	136.751	137.085	136.881	136.676	136.881
50.0	134.719	135.008	135.298	135.308	135.318	135.567	135.817	135.717	135.617	135.717
52.5	133.880	133.715	133.550	133.501	133.451	133.580	133.710	133.980	134.249	133.980
55.0	133.041	132.422	131.803	131.693	131.583	131.593	131.603	132.242	132.881	132.242
57.5	133.071	132.762	132.452	132.467	132.482	132.328	132.173	132.657	133.141	132.657
60.0	133.101	133.101	133.101	133.241	133.381	133.061	132.742	133.071	133.401	133.071
62.5	133.660	133.311	132.961	132.991	133.021	132.977	132.931	133.146	133.361	133.146
65.0	134.219	133.520	132.822	132.742	132.662	132.891	133.121	133.221	133.321	133.221
67.5	131.523	131.054	130.585	130.425	130.265	130.600	130.934	130.770	130.605	130.770
70.0	128.827	128.588	128.348	128.109	127.869	128.308	128.748	128.318	127.889	128.318
72.5	127.699	127.585	127.470	127.535	127.599	127.674	127.749	127.400	127.050	127.400
75.0	126.571	126.581	126.591	126.960	127.330	127.040	126.751	126.481	126.211	126.481
77.5	125.023	125.028	125.033	125.288	125.542	125.498	125.453	125.413	125.373	125.413
80.0	123.475	123.475	123.475	123.615	123.755	123.955	124.154	124.344	124.534	124.344
82.5	124.334	124.144	123.955	124.030	124.105	124.170	124.234	124.539	124.843	124.539
85.0	125.193	124.813	124.434	124.444	124.454	124.384	124.314	124.734	125.153	124.734
87.5	123.855	123.935	124.015	124.085	124.154	123.900	123.645	123.870	124.095	123.870
90.0	122.517	123.056	123.595	123.725	123.855	123.416	122.976	123.006	123.036	123.006
92.5	121.548	121.738	121.928	121.763	121.598	121.464	121.329	121.598	121.868	121.598
95.0	120.580	120.420	120.260	119.801	119.342	119.511	119.681	120.190	120.700	120.190
97.5	120.909	120.959	121.009	120.760	120.510	120.415	120.320	120.799	121.279	120.799
100.0	121.239	121.498	121.758	121.718	121.678	121.319	120.959	121.409	121.858	121.409
102.5	120.130	120.071	120.011	120.156	120.300	120.146	119.991	119.991	119.991	119.991
105.0	119.022	118.643	118.263	118.593	118.922	118.972	119.022	118.573	118.123	118.573
107.5	119.412	118.997	118.583	118.972	119.362	119.342	119.322	119.197	119.072	119.197
110.0	119.801	119.352	118.902	119.352	119.801	119.711	119.621	119.821	120.021	119.821
112.5	119.661	119.477	119.292	119.227	119.162	119.277	119.392	119.491	119.591	119.491
115.0	119.521	119.601	119.681	119.102	118.523	118.842	119.162	119.162	119.162	119.162
117.5	120.450	120.395	120.340	119.876	119.412	119.861	120.310	120.230	120.150	120.230
120.0	121.379	121.189	120.999	120.650	120.300	120.879	121.459	121.299	121.139	121.299
122.5	119.651	119.332	119.012	119.052	119.092	119.332	119.571	119.521	119.471	119.521
125.0	117.924	117.474	117.025	117.454	117.884	117.784	117.684	117.744	117.804	117.744
127.5	116.516	116.222	115.927	116.451	116.975	116.691	116.406	116.506	116.606	116.506
130.0	115.108	114.968	114.828	115.447	116.067	115.597	115.128	115.268	115.408	115.268
132.5	115.118	114.774	114.429	114.684	114.938	114.988	115.038	115.088	115.138	115.088
135.0	115.128	114.579	114.030	113.920	113.810	114.379	114.948	114.908	114.868	114.908
137.5	114.439	114.374	114.309	114.245	114.179	114.205	114.229	114.235	114.239	114.235
140.0	113.750	114.169	114.589	114.569	114.549	114.030	113.510	113.560	113.610	113.560
142.5	113.740	113.970	114.199	113.985	113.770	113.815	113.860	113.635	113.411	113.635
145.0	113.730	113.770	113.810	113.401	112.991	113.600	114.209	113.710	113.211	113.710
147.5	112.043	112.198	112.352	112.172	111.993	112.093	112.192	112.068	111.943	112.068
150.0	110.355	110.625	110.894	110.944	110.994	110.585	110.175	110.425	110.675	110.425
152.5	110.026	110.006	109.986	110.115	110.245	110.191	110.135	110.235	110.335	110.235
155.0	109.696	109.387	109.077	109.287	109.496	109.796	110.095	110.046	109.996	110.046
157.5	107.380	107.445	107.509	107.649	107.789	107.689	107.589	107.619	107.649	107.619
160.0	105.063	105.502	105.942	106.012	106.081	105.582	105.083	105.193	105.303	105.193
162.5	104.564	105.058	105.552	105.298	105.043	104.983	104.923	104.729	104.534	104.729
165.0	104.065	104.614	105.163	104.584	104.005	104.384	104.763	104.264	103.765	104.264

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CANDELA TABULATION - (Cont.)

167.5	104.025	104.239	104.454	104.364	104.274	104.424	104.574	104.210	103.845	104.210
170.0	103.985	103.865	103.745	104.144	104.544	104.464	104.384	104.154	103.925	104.154
172.5	103.975	103.980	103.985	104.289	104.594	104.359	104.124	104.065	104.005	104.065
175.0	103.965	104.094	104.224	104.434	104.644	104.254	103.865	103.975	104.084	103.975
177.5	104.124	104.210	104.294	104.134	103.975	103.905	103.835	104.005	104.174	104.005
180.0	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655

**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	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905
2.5	143.456	143.466	143.476	143.371	143.266	143.266	143.266	143.276	143.286	143.396
5.0	143.006	143.026	143.046	142.837	142.627	142.627	142.627	142.647	142.667	142.886
7.5	143.046	143.136	143.226	143.022	142.817	142.607	142.397	142.382	142.367	142.802
10.0	143.086	143.246	143.406	143.206	143.006	142.587	142.168	142.118	142.068	142.717
12.5	142.128	142.188	142.247	142.377	142.507	142.297	142.088	141.858	141.628	142.008
15.0	141.169	141.129	141.089	141.548	142.008	142.008	142.008	141.598	141.189	141.299
17.5	140.969	140.975	140.979	140.985	140.989	141.229	141.469	141.149	140.830	140.905
20.0	140.770	140.820	140.870	140.420	139.971	140.450	140.929	140.700	140.470	140.510
22.5	140.700	140.765	140.830	140.395	139.961	140.290	140.620	140.595	140.570	140.420
25.0	140.630	140.710	140.790	140.370	139.951	140.131	140.310	140.490	140.670	140.330
27.5	140.820	140.935	141.049	140.700	140.350	140.705	141.059	140.955	140.850	140.690
30.0	141.009	141.159	141.309	141.029	140.750	141.279	141.808	141.419	141.029	141.049
32.5	139.941	140.136	140.330	140.240	140.151	140.286	140.420	140.210	140.001	140.001
35.0	138.872	139.112	139.352	139.452	139.551	139.292	139.032	139.002	138.972	138.952
37.5	139.941	140.076	140.210	140.151	140.091	139.916	139.741	139.721	139.701	139.567
40.0	141.009	141.039	141.069	140.850	140.630	140.540	140.450	140.440	140.430	140.181
42.5	139.681	139.487	139.292	139.127	138.962	138.882	138.803	139.062	139.322	138.898
45.0	138.353	137.934	137.515	137.405	137.295	137.225	137.155	137.684	138.213	137.614
47.5	137.085	136.751	136.416	136.356	136.296	136.117	135.937	136.506	137.075	136.646
50.0	135.817	135.567	135.318	135.308	135.298	135.008	134.719	135.328	135.937	135.677
52.5	133.710	133.580	133.451	133.501	133.550	133.715	133.880	133.915	133.950	133.755
55.0	131.603	131.593	131.583	131.693	131.803	132.422	133.041	132.502	131.963	131.833
57.5	132.173	132.328	132.482	132.467	132.452	132.762	133.071	132.682	132.292	132.477
60.0	132.742	133.061	133.381	133.241	133.101	133.101	133.101	132.861	132.622	133.121
62.5	132.931	132.977	133.021	132.991	132.961	133.311	133.660	133.526	133.391	133.326
65.0	133.121	132.891	132.662	132.742	132.822	133.520	134.219	134.189	134.160	133.530
67.5	130.934	130.600	130.265	130.425	130.585	131.054	131.523	131.464	131.404	131.249
70.0	128.748	128.308	127.869	128.109	128.348	128.588	128.827	128.738	128.648	128.967
72.5	127.749	127.674	127.599	127.535	127.470	127.585	127.699	127.874	128.049	128.039
75.0	126.751	127.040	127.330	126.960	126.591	126.581	126.571	127.010	127.450	127.110
77.5	125.453	125.498	125.542	125.288	125.033	125.028	125.023	125.562	126.102	125.712
80.0	124.154	123.955	123.755	123.615	123.475	123.475	123.475	124.115	124.754	124.314
82.5	124.234	124.170	124.105	124.030	123.955	124.144	124.334	124.369	124.404	124.309
85.0	124.314	124.384	124.454	124.444	124.434	124.813	125.193	124.624	124.055	124.304
87.5	123.645	123.900	124.154	124.085	124.015	123.935	123.855	123.601	123.346	123.491
90.0	122.976	123.416	123.855	123.725	123.595	123.056	122.517	122.577	122.637	122.677
92.5	121.329	121.464	121.598	121.763	121.928	121.738	121.548	121.344	121.139	121.079
95.0	119.681	119.511	119.342	119.801	120.260	120.420	120.580	120.111	119.641	119.481
97.5	120.320	120.415	120.510	120.760	121.009	120.959	120.909	120.605	120.300	120.575
100.0	120.959	121.319	121.678	121.718	121.758	121.498	121.239	121.099	120.959	121.668
102.5	119.991	120.146	120.300	120.156	120.011	120.071	120.130	119.911	119.691	120.116
105.0	119.022	118.972	118.922	118.593	118.263	118.643	119.022	118.723	118.423	118.563
107.5	119.322	119.342	119.362	118.972	118.583	118.997	119.412	119.367	119.322	119.327
110.0	119.621	119.711	119.801	119.352	118.902	119.352	119.801	120.011	120.220	120.091
112.5	119.392	119.277	119.162	119.227	119.292	119.477	119.661	119.766	119.871	119.577

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CANDELA TABULATION - (Cont.)

115.0	119.162	118.842	118.523	119.102	119.681	119.601	119.521	119.521	119.521	119.062
117.5	120.310	119.861	119.412	119.876	120.340	120.395	120.450	120.130	119.811	119.931
120.0	121.459	120.879	120.300	120.650	120.999	121.189	121.379	120.740	120.101	120.799
122.5	119.571	119.332	119.092	119.052	119.012	119.332	119.651	119.117	118.583	118.997
125.0	117.684	117.784	117.884	117.454	117.025	117.474	117.924	117.494	117.065	117.195
127.5	116.406	116.691	116.975	116.451	115.927	116.222	116.516	116.456	116.396	116.226
130.0	115.128	115.597	116.067	115.447	114.828	114.968	115.108	115.418	115.727	115.258
132.5	115.038	114.988	114.938	114.684	114.429	114.774	115.118	115.013	114.908	114.604
135.0	114.948	114.379	113.810	113.920	114.030	114.579	115.128	114.609	114.090	113.950
137.5	114.229	114.205	114.179	114.245	114.309	114.374	114.439	114.404	114.369	114.274
140.0	113.510	114.030	114.549	114.569	114.589	114.169	113.750	114.199	114.649	114.599
142.5	113.860	113.815	113.770	113.985	114.199	113.970	113.740	113.835	113.930	114.080
145.0	114.209	113.600	112.991	113.401	113.810	113.770	113.730	113.470	113.211	113.560
147.5	112.192	112.093	111.993	112.172	112.352	112.198	112.043	111.828	111.613	111.663
150.0	110.175	110.585	110.994	110.944	110.894	110.625	110.355	110.185	110.016	109.766
152.5	110.135	110.191	110.245	110.115	109.986	110.006	110.026	109.951	109.876	109.751
155.0	110.095	109.796	109.496	109.287	109.077	109.387	109.696	109.716	109.736	109.736
157.5	107.589	107.689	107.789	107.649	107.509	107.445	107.380	107.719	108.059	107.889
160.0	105.083	105.582	106.081	106.012	105.942	105.502	105.063	105.722	106.381	106.042
162.5	104.923	104.983	105.043	105.298	105.552	105.058	104.564	104.948	105.333	105.393
165.0	104.763	104.384	104.005	104.584	105.163	104.614	104.065	104.174	104.284	104.743
167.5	104.574	104.424	104.274	104.364	104.454	104.239	104.025	104.065	104.104	104.449
170.0	104.384	104.464	104.544	104.144	103.745	103.865	103.985	103.955	103.925	104.154
172.5	104.124	104.359	104.594	104.289	103.985	103.980	103.975	103.950	103.925	104.289
175.0	103.865	104.254	104.644	104.434	104.224	104.094	103.965	103.945	103.925	104.424
177.5	103.835	103.905	103.975	104.134	104.294	104.210	104.124	104.030	103.935	104.304
180.0	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655

**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	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905
2.5	143.506	143.461	143.416	143.316	143.216	143.281	143.346	143.401	143.456	143.336
5.0	143.106	143.016	142.926	142.727	142.527	142.657	142.787	142.896	143.006	142.767
7.5	143.236	143.211	143.186	142.767	142.347	142.382	142.417	142.552	142.687	142.752
10.0	143.366	143.406	143.446	142.807	142.168	142.108	142.048	142.208	142.367	142.737
12.5	142.387	142.537	142.687	142.118	141.548	141.808	142.068	141.818	141.568	141.888
15.0	141.409	141.668	141.928	141.429	140.929	141.509	142.088	141.429	140.770	141.039
17.5	140.979	141.159	141.339	141.025	140.710	140.975	141.239	141.064	140.889	141.039
20.0	140.550	140.650	140.750	140.620	140.490	140.440	140.390	140.700	141.009	141.039
22.5	140.270	140.605	140.939	140.879	140.820	140.715	140.610	140.555	140.500	140.665
25.0	139.991	140.560	141.129	141.139	141.149	140.989	140.830	140.410	139.991	140.290
27.5	140.530	140.740	140.949	141.284	141.618	141.424	141.229	140.965	140.700	140.929
30.0	141.069	140.919	140.770	141.429	142.088	141.858	141.628	141.519	141.409	141.568
32.5	140.001	140.230	140.460	140.540	140.620	140.670	140.720	140.420	140.121	140.455
35.0	138.932	139.541	140.151	139.651	139.152	139.482	139.811	139.322	138.833	139.342
37.5	139.432	139.816	140.201	140.126	140.051	140.106	140.161	140.021	139.881	140.041
40.0	139.931	140.091	140.250	140.600	140.949	140.730	140.510	140.720	140.929	140.740
42.5	138.473	138.798	139.122	139.277	139.432	139.172	138.912	139.192	139.472	139.302
45.0	137.015	137.505	137.994	137.954	137.914	137.614	137.315	137.664	138.014	137.864
47.5	136.216	136.541	136.865	136.826	136.786	136.516	136.246	136.312	136.376	136.526
50.0	135.418	135.577	135.737	135.697	135.657	135.418	135.178	134.958	134.739	135.188
52.5	133.560	133.785	134.010	133.970	133.930	133.800	133.670	133.496	133.321	133.530
55.0	131.703	131.993	132.282	132.242	132.202	132.182	132.163	132.033	131.903	131.873
57.5	132.662	132.592	132.522	132.717	132.911	132.662	132.412	132.517	132.622	132.392
60.0	133.620	133.191	132.762	133.191	133.620	133.141	132.662	133.001	133.341	132.911

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CANDELA TABULATION - (Cont.)

62.5	133.261	133.016	132.772	133.056	133.341	133.036	132.732	133.236	133.740	133.411
65.0	132.901	132.842	132.782	132.921	133.061	132.931	132.802	133.471	134.140	133.910
67.5	131.094	130.850	130.605	130.660	130.715	130.810	130.904	131.159	131.414	131.384
70.0	129.287	128.857	128.428	128.398	128.368	128.688	129.007	128.847	128.688	128.857
72.5	128.029	127.979	127.929	127.954	127.979	128.074	128.168	127.789	127.410	127.565
75.0	126.771	127.100	127.430	127.509	127.589	127.460	127.330	126.731	126.132	126.271
77.5	125.323	125.608	125.892	125.652	125.413	125.383	125.353	125.198	125.043	125.063
80.0	123.875	124.115	124.354	123.795	123.236	123.306	123.376	123.665	123.955	123.855
82.5	124.214	124.294	124.374	124.090	123.805	123.990	124.174	124.364	124.554	124.284
85.0	124.554	124.474	124.394	124.384	124.374	124.674	124.973	125.063	125.153	124.714
87.5	123.635	123.735	123.835	123.910	123.985	123.900	123.815	123.900	123.985	123.715
90.0	122.717	122.996	123.276	123.436	123.595	123.126	122.657	122.737	122.816	122.717
92.5	121.019	121.364	121.708	121.798	121.888	121.783	121.678	121.364	121.049	121.189
95.0	119.322	119.731	120.140	120.160	120.180	120.440	120.700	119.991	119.282	119.661
97.5	120.849	120.829	120.809	120.935	121.059	120.989	120.919	120.535	120.150	120.445
100.0	122.377	121.928	121.478	121.708	121.938	121.538	121.139	121.079	121.019	121.229
102.5	120.540	120.430	120.320	120.160	120.001	119.776	119.551	119.636	119.721	120.076
105.0	118.703	118.932	119.162	118.613	118.064	118.014	117.964	118.193	118.423	118.922
107.5	119.332	119.407	119.481	119.157	118.832	118.628	118.423	118.872	119.322	119.561
110.0	119.961	119.881	119.801	119.701	119.601	119.242	118.882	119.551	120.220	120.200
112.5	119.282	119.487	119.691	119.561	119.432	119.207	118.982	119.222	119.461	119.731
115.0	118.603	119.092	119.581	119.422	119.262	119.172	119.082	118.892	118.703	119.262
117.5	120.051	120.216	120.380	120.071	119.761	120.021	120.280	120.220	120.160	120.385
120.0	121.498	121.339	121.179	120.720	120.260	120.869	121.478	121.548	121.618	121.508
122.5	119.412	119.332	119.252	119.052	118.852	119.077	119.302	119.352	119.402	119.587
125.0	117.325	117.325	117.325	117.385	117.445	117.285	117.125	117.155	117.185	117.664
127.5	116.057	116.361	116.666	116.486	116.306	116.122	115.937	116.192	116.446	116.706
130.0	114.788	115.398	116.007	115.587	115.168	114.958	114.749	115.228	115.707	115.747
132.5	114.299	114.953	115.607	115.328	115.048	114.904	114.759	114.973	115.188	114.998
135.0	113.810	114.509	115.208	115.068	114.928	114.848	114.769	114.719	114.669	114.249
137.5	114.179	114.424	114.669	114.704	114.739	114.424	114.109	114.159	114.209	114.215
140.0	114.549	114.339	114.129	114.339	114.549	114.000	113.450	113.600	113.750	114.179
142.5	114.229	113.930	113.630	113.950	114.269	114.045	113.820	113.635	113.450	113.645
145.0	113.910	113.520	113.131	113.560	113.990	114.090	114.189	113.670	113.151	113.111
147.5	111.713	111.718	111.723	111.808	111.893	112.232	112.572	112.212	111.853	111.788
150.0	109.516	109.916	110.315	110.056	109.796	110.375	110.954	110.755	110.555	110.465
152.5	109.626	109.631	109.636	109.562	109.486	109.701	109.916	110.041	110.165	110.036
155.0	109.736	109.347	108.957	109.067	109.177	109.027	108.877	109.327	109.776	109.606
157.5	107.719	107.594	107.469	107.245	107.020	107.115	107.210	107.649	108.088	107.939
160.0	105.702	105.842	105.982	105.422	104.863	105.203	105.542	105.972	106.401	106.271
162.5	105.452	105.168	104.883	104.594	104.304	104.634	104.963	105.248	105.532	105.488
165.0	105.203	104.494	103.785	103.765	103.745	104.065	104.384	104.524	104.664	104.704
167.5	104.793	104.269	103.745	103.865	103.985	103.935	103.885	104.124	104.364	104.434
170.0	104.384	104.045	103.705	103.965	104.224	103.805	103.386	103.725	104.065	104.164
172.5	104.654	104.170	103.685	103.955	104.224	103.885	103.545	103.920	104.294	104.439
175.0	104.923	104.294	103.665	103.945	104.224	103.965	103.705	104.114	104.524	104.714
177.5	104.674	104.329	103.985	104.104	104.224	103.955	103.685	104.035	104.384	104.469
180.0	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655

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	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905	143.905
2.5	143.216	143.326	143.436	143.421	143.406	143.441	143.476	143.426	143.376	143.406
5.0	142.527	142.747	142.966	142.936	142.906	142.976	143.046	142.946	142.847	142.906
7.5	142.817	142.657	142.497	142.702	142.906	142.877	142.847	142.882	142.916	142.982

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10.0	143.106	142.567	142.028	142.467	142.906	142.777	142.647	142.817	142.986	143.056
12.5	142.208	142.123	142.038	142.233	142.427	142.198	141.968	142.123	142.277	142.337
15.0	141.309	141.678	142.048	141.998	141.948	141.618	141.289	141.429	141.568	141.618
17.5	141.189	141.154	141.119	141.164	141.209	141.134	141.059	141.099	141.139	141.194
20.0	141.069	140.630	140.191	140.330	140.470	140.650	140.830	140.770	140.710	140.770
22.5	140.830	140.755	140.680	140.705	140.730	140.540	140.350	140.320	140.290	140.525
25.0	140.590	140.879	141.169	141.079	140.989	140.430	139.871	139.871	139.871	140.280
27.5	141.159	141.344	141.529	141.219	140.909	140.785	140.660	140.840	141.019	141.204
30.0	141.728	141.808	141.888	141.359	140.830	141.139	141.449	141.808	142.168	142.128
32.5	140.790	140.685	140.580	140.230	139.881	139.996	140.111	140.385	140.660	140.750
35.0	139.851	139.561	139.272	139.102	138.932	138.853	138.773	138.962	139.152	139.372
37.5	140.201	140.256	140.310	140.011	139.711	139.821	139.931	139.796	139.661	139.836
40.0	140.550	140.949	141.349	140.919	140.490	140.790	141.089	140.630	140.171	140.300
42.5	139.132	139.412	139.691	139.387	139.082	139.267	139.452	139.197	138.942	139.077
45.0	137.714	137.874	138.034	137.854	137.674	137.744	137.814	137.764	137.714	137.854
47.5	136.676	136.885	137.095	136.656	136.216	136.521	136.826	136.701	136.576	136.456
50.0	135.637	135.897	136.157	135.458	134.759	135.298	135.837	135.637	135.438	135.058
52.5	133.740	134.135	134.529	133.950	133.371	133.855	134.339	133.935	133.530	133.316
55.0	131.843	132.372	132.901	132.442	131.983	132.412	132.842	132.232	131.623	131.573
57.5	132.163	132.437	132.712	132.407	132.103	132.512	132.921	132.587	132.252	132.242
60.0	132.482	132.502	132.522	132.372	132.222	132.612	133.001	132.941	132.881	132.911
62.5	133.081	133.176	133.271	133.006	132.742	132.997	133.251	133.236	133.221	133.236
65.0	133.680	133.850	134.020	133.640	133.261	133.381	133.501	133.530	133.560	133.560
67.5	131.354	131.384	131.414	131.229	131.044	130.944	130.844	130.825	130.805	131.129
70.0	129.027	128.917	128.808	128.818	128.827	128.508	128.188	128.119	128.049	128.698
72.5	127.719	127.944	128.168	127.919	127.669	127.499	127.330	127.480	127.629	127.959
75.0	126.411	126.970	127.529	127.020	126.511	126.491	126.471	126.840	127.210	127.220
77.5	125.083	125.333	125.582	125.298	125.013	125.188	125.363	125.478	125.592	125.727
80.0	123.755	123.695	123.635	123.575	123.515	123.885	124.254	124.115	123.975	124.234
82.5	124.015	124.230	124.444	124.100	123.755	124.240	124.724	124.484	124.244	124.254
85.0	124.274	124.764	125.253	124.624	123.995	124.594	125.193	124.853	124.514	124.274
87.5	123.446	123.650	123.855	123.785	123.715	123.875	124.035	123.990	123.945	123.755
90.0	122.617	122.537	122.457	122.946	123.436	123.156	122.876	123.126	123.376	123.236
92.5	121.329	121.349	121.369	121.608	121.848	121.598	121.349	121.439	121.528	121.508
95.0	120.041	120.160	120.280	120.270	120.260	120.041	119.821	119.751	119.681	119.781
97.5	120.740	120.715	120.690	120.949	121.209	121.139	121.069	120.825	120.580	120.865
100.0	121.439	121.269	121.099	121.628	122.157	122.237	122.317	121.898	121.478	121.948
102.5	120.430	120.250	120.071	120.290	120.510	120.340	120.170	120.286	120.400	120.310
105.0	119.422	119.232	119.042	118.952	118.862	118.443	118.024	118.673	119.322	118.673
107.5	119.801	119.571	119.342	119.142	118.942	119.037	119.132	119.477	119.821	119.481
110.0	120.180	119.911	119.641	119.332	119.022	119.631	120.240	120.280	120.320	120.290
112.5	120.001	119.776	119.551	119.257	118.962	119.407	119.851	119.866	119.881	119.631
115.0	119.821	119.641	119.461	119.182	118.902	119.182	119.461	119.452	119.442	118.972
117.5	120.610	120.246	119.881	119.871	119.861	120.086	120.310	120.081	119.851	119.626
120.0	121.399	120.849	120.300	120.560	120.819	120.989	121.159	120.710	120.260	120.280
122.5	119.771	119.282	118.792	119.057	119.322	119.352	119.382	119.097	118.812	118.753
125.0	118.143	117.714	117.285	117.554	117.824	117.714	117.604	117.484	117.365	117.225
127.5	116.965	116.666	116.366	116.321	116.276	116.451	116.626	116.541	116.456	116.206
130.0	115.787	115.617	115.447	115.088	114.729	115.188	115.647	115.597	115.547	115.188
132.5	114.808	115.068	115.328	114.993	114.659	114.734	114.808	114.874	114.938	114.709
135.0	113.830	114.519	115.208	114.898	114.589	114.279	113.970	114.149	114.329	114.229
137.5	114.219	114.469	114.719	114.444	114.169	114.155	114.139	114.065	113.990	114.109
140.0	114.609	114.419	114.229	113.990	113.750	114.030	114.309	113.980	113.650	113.990
142.5	113.840	113.880	113.920	113.745	113.570	113.566	113.560	113.590	113.620	113.720
145.0	113.071	113.341	113.610	113.500	113.391	113.101	112.811	113.201	113.590	113.450
147.5	111.723	111.643	111.563	111.763	111.963	111.758	111.553	111.583	111.613	111.503

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CANDELA TABULATION - (Cont.)

150.0	110.375	109.946	109.516	110.026	110.535	110.415	110.295	109.966	109.636	109.556
152.5	109.906	109.736	109.566	109.616	109.666	109.911	110.155	109.801	109.446	109.522
155.0	109.436	109.526	109.616	109.207	108.797	109.407	110.016	109.636	109.257	109.486
157.5	107.789	107.829	107.869	107.734	107.599	107.739	107.879	107.609	107.340	107.419
160.0	106.141	106.131	106.121	106.261	106.401	106.072	105.742	105.582	105.422	105.353
162.5	105.442	105.358	105.273	105.363	105.452	105.432	105.412	105.183	104.953	104.769
165.0	104.743	104.584	104.424	104.464	104.504	104.793	105.083	104.783	104.484	104.184
167.5	104.504	104.170	103.835	103.830	103.825	104.264	104.704	104.409	104.114	103.955
170.0	104.264	103.755	103.246	103.196	103.146	103.735	104.324	104.035	103.745	103.725
172.5	104.584	104.229	103.875	103.765	103.655	103.945	104.234	104.060	103.885	103.855
175.0	104.903	104.704	104.504	104.334	104.164	104.154	104.144	104.084	104.025	103.985
177.5	104.554	104.284	104.015	104.190	104.364	104.070	103.775	103.735	103.695	103.890
180.0	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655	103.655

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	143.905	143.905	143.905	143.905	143.905
2.5	143.436	143.396	143.356	143.376	143.396
5.0	142.966	142.886	142.807	142.847	142.886
7.5	143.046	143.032	143.016	142.872	142.727
10.0	143.126	143.176	143.226	142.896	142.567
12.5	142.397	142.452	142.507	142.427	142.347
15.0	141.668	141.728	141.788	141.958	142.128
17.5	141.249	141.324	141.399	141.539	141.678
20.0	140.830	140.919	141.009	141.119	141.229
22.5	140.760	140.855	140.949	141.005	141.059
25.0	140.690	140.790	140.889	140.889	140.889
27.5	141.389	141.424	141.459	141.209	140.959
30.0	142.088	142.058	142.028	141.529	141.029
32.5	140.840	140.725	140.610	140.260	139.911
35.0	139.591	139.392	139.192	138.992	138.793
37.5	140.011	139.976	139.941	139.851	139.761
40.0	140.430	140.560	140.690	140.710	140.730
42.5	139.212	139.037	138.863	139.217	139.571
45.0	137.994	137.515	137.035	137.724	138.413
47.5	136.336	136.436	136.536	136.841	137.145
50.0	134.679	135.358	136.037	135.957	135.877
52.5	133.101	133.436	133.770	134.085	134.399
55.0	131.523	131.513	131.504	132.212	132.921
57.5	132.232	132.362	132.492	132.702	132.911
60.0	132.941	133.211	133.481	133.191	132.901
62.5	133.251	133.396	133.540	133.301	133.061
65.0	133.560	133.580	133.600	133.411	133.221
67.5	131.454	131.339	131.224	130.924	130.625
70.0	129.347	129.097	128.847	128.438	128.029
72.5	128.288	128.014	127.739	127.659	127.579
75.0	127.230	126.930	126.631	126.880	127.130
77.5	125.862	125.443	125.023	125.218	125.413
80.0	124.494	123.955	123.416	123.555	123.695
82.5	124.264	124.030	123.795	123.970	124.144
85.0	124.035	124.105	124.174	124.384	124.594
87.5	123.565	123.790	124.015	123.890	123.765
90.0	123.096	123.475	123.855	123.396	122.936
92.5	121.488	121.698	121.908	121.783	121.658
95.0	119.881	119.921	119.961	120.170	120.380

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CANDELA TABULATION - (Cont.)

97.5	121.149	120.885	120.620	120.919	121.219
100.0	122.417	121.848	121.279	121.668	122.058
102.5	120.220	120.286	120.350	120.500	120.650
105.0	118.024	118.723	119.422	119.332	119.242
107.5	119.142	119.157	119.172	119.217	119.262
110.0	120.260	119.591	118.922	119.102	119.282
112.5	119.382	119.172	118.962	119.202	119.442
115.0	118.503	118.753	119.002	119.302	119.601
117.5	119.402	119.751	120.101	120.325	120.550
120.0	120.300	120.750	121.199	121.349	121.498
122.5	118.693	119.242	119.791	119.686	119.581
125.0	117.085	117.734	118.383	118.024	117.664
127.5	115.957	116.351	116.746	116.481	116.216
130.0	114.828	114.968	115.108	114.938	114.769
132.5	114.479	114.559	114.639	114.484	114.329
135.0	114.129	114.149	114.169	114.030	113.890
137.5	114.229	114.289	114.349	113.990	113.630
140.0	114.329	114.429	114.529	113.950	113.371
142.5	113.820	113.905	113.990	113.650	113.311
145.0	113.311	113.381	113.450	113.351	113.251
147.5	111.394	111.768	112.142	112.023	111.903
150.0	109.476	110.155	110.834	110.695	110.555
152.5	109.596	109.901	110.205	110.131	110.056
155.0	109.716	109.646	109.576	109.566	109.556
157.5	107.499	107.410	107.320	107.395	107.469
160.0	105.283	105.173	105.063	105.223	105.383
162.5	104.584	104.849	105.113	104.948	104.783
165.0	103.885	104.524	105.163	104.674	104.184
167.5	103.795	104.055	104.314	104.190	104.065
170.0	103.705	103.585	103.465	103.705	103.945
172.5	103.825	103.740	103.655	104.025	104.394
175.0	103.945	103.895	103.845	104.344	104.843
177.5	104.084	104.200	104.314	104.499	104.684
180.0	103.655	103.655	103.655	103.655	103.655

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	53.76	2.70	3.40
0-30	118.96	6.00	7.60
0-40	206.99	10.40	13.20
0-60	433.15	21.70	27.60
0-80	698.14	35.00	44.60
0-90	833.45	41.70	53.20
10-90	819.81	41.10	52.30
20-40	153.22	7.70	9.80
20-50	259.95	13.00	16.60
40-70	357.25	17.90	22.80
60-80	264.99	13.30	16.90
70-80	133.90	6.70	8.50
80-90	135.31	6.80	8.60
90-110	258.81	13.00	16.50
90-120	377.69	18.90	24.10
90-130	483.44	24.20	30.90
90-150	643.13	32.20	41.10
90-180	733.14	36.70	46.80
110-180	474.33	23.80	30.30
0-180	1566.59	78.40	100.00

Total Luminaire Efficiency = 78.40%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	13.64
10-20	40.12
20-30	65.20
30-40	88.03
40-50	106.73
50-60	119.43
60-70	131.10
70-80	133.90
80-90	135.31
90-100	132.19
100-110	126.62
110-120	118.88
120-130	105.76
130-140	88.75
140-150	70.94
150-160	50.39
160-170	29.69
170-180	9.93

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	85	85	85	85	78	78	78	78	67	67	67	56	56	56	46	46	46	42
1	74	69	65	61	68	64	60	57	54	51	48	44	42	40	36	34	33	28
2	66	59	53	47	61	54	49	44	45	41	37	37	34	31	30	27	25	21
3	60	51	44	38	54	47	40	35	39	34	30	32	28	25	25	23	20	17
4	54	44	37	31	49	41	34	29	34	29	25	28	24	21	22	19	17	14
5	49	39	32	26	45	36	29	25	30	25	21	25	21	17	20	17	14	11
6	45	35	28	23	41	32	26	21	27	22	18	22	18	15	18	14	12	10
7	42	31	24	19	38	29	23	18	24	19	16	20	16	13	16	13	10	8
8	39	28	22	17	35	26	20	16	22	17	14	18	14	11	15	12	9	7
9	36	26	19	15	33	24	18	14	20	15	12	17	13	10	13	10	8	6
10	34	23	17	13	31	22	16	12	18	14	11	15	12	9	12	9	7	6

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	9.4	10.4	10.3	11.3	12.5	9.4	10.4	10.3	11.3	12.5
	3H	12.8	13.8	13.7	14.7	15.9	12.8	13.7	13.7	14.7	15.9
	4H	14.6	15.5	15.5	16.5	17.7	14.6	15.5	15.5	16.5	17.7
	6H	16.6	17.4	17.5	18.4	19.6	16.6	17.4	17.5	18.4	19.6
	8H	17.7	18.5	18.6	19.5	20.7	17.7	18.5	18.6	19.5	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

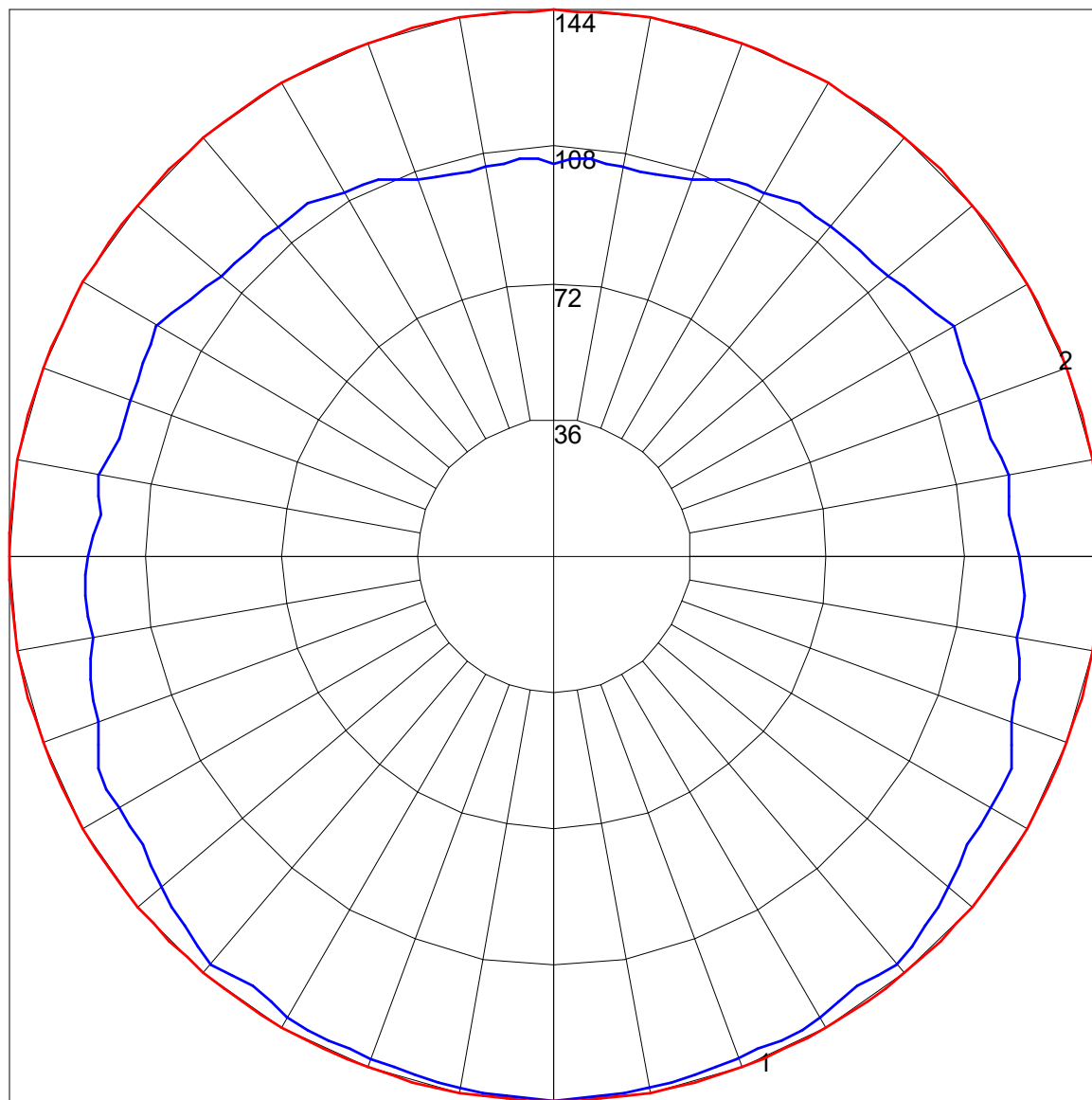
4H	2H	10.4	11.3	11.3	12.3	13.5	10.4	11.3	11.4	12.3	13.5
	3H	14.1	14.8	15.0	15.8	17.1	14.0	14.8	15.0	15.8	17.1
	4H	16.0	16.8	17.0	17.7	19.0	16.0	16.8	17.0	17.7	19.0
	6H	18.2	18.8	19.1	19.8	21.1	18.2	18.8	19.1	19.8	21.1
	8H	19.4	20.0	20.3	21.0	22.3	19.4	20.0	20.3	21.0	22.3
	12H	20.7	21.3	21.7	22.3	23.6	20.7	21.3	21.7	22.3	23.6

8H	4H	16.8	17.4	17.8	18.4	19.7	16.8	17.4	17.8	18.4	19.7
	6H	19.2	19.7	20.2	20.8	22.0	19.2	19.7	20.2	20.8	22.0
	8H	20.6	21.1	21.6	22.1	23.4	20.6	21.1	21.6	22.1	23.4
	12H	22.2	22.6	23.2	23.6	25.0	22.2	22.6	23.2	23.7	25.0

12H	4H	17.0	17.6	18.0	18.6	19.9	17.0	17.6	18.0	18.6	19.9
	6H	19.6	20.0	20.5	21.0	22.4	19.6	20.0	20.5	21.0	22.4
	8H	21.0	21.5	22.0	22.5	23.8	21.0	21.5	22.0	22.5	23.8

Maximum UGR = 25.0

POLAR GRAPH



Maximum Candela = 143.905 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)