

IES INDOOR REPORT

PHOTOMETRIC FILENAME : F07A45.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[MANUFAC] Fabbian Illuminazione SpA

[TEST] 008

[LUMINAIRE] LUMI-SFERA

[LUMCAT] F07 A45

[ISSUEDATE] 06/03/2012/Sedis Light Technology

[LAMP] LED Achrich 3 17W

[TESTLAB] IESNA:LM-63-2002

[MORE] File is based on original photometric F07A21 fixture EULUM data

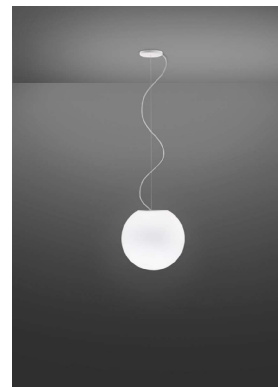
[MORE] and derated to match the Integral LED source.

[_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	1558
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)	0.37 m (Diameter)
Luminous Width (90-270)	0.37 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	1827	1827	1829
55	2209	2214	2230
65	2946	2963	2930
75	4673	4650	4689
85	13383	13351	13301

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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	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927
2.5	143.395	142.886	142.377	142.786	143.196	142.875	142.556	142.436	142.317	142.352
5.0	144.863	143.844	142.825	143.644	144.463	143.825	143.185	142.946	142.706	142.776
7.5	143.116	142.521	141.927	142.317	142.706	142.721	142.736	142.676	142.616	142.426
10.0	141.368	141.198	141.028	140.988	140.949	141.617	142.286	142.407	142.526	142.077
12.5	141.608	141.303	140.998	140.779	140.559	141.313	142.067	142.032	141.997	141.712
15.0	141.847	141.408	140.968	140.569	140.169	141.009	141.847	141.658	141.468	141.348
17.5	140.169	140.100	140.030	139.995	139.960	140.245	140.529	140.339	140.150	140.374
20.0	138.492	138.792	139.091	139.421	139.751	139.481	139.211	139.021	138.831	139.401
22.5	138.842	139.401	139.960	139.940	139.920	139.526	139.131	139.231	139.331	139.665
25.0	139.191	140.010	140.828	140.459	140.089	139.570	139.051	139.441	139.830	139.930
27.5	139.531	139.855	140.180	139.980	139.780	139.471	139.161	139.156	139.151	139.296
30.0	139.870	139.700	139.531	139.501	139.471	139.371	139.271	138.872	138.472	138.662
32.5	140.979	140.444	139.910	140.045	140.180	140.389	140.599	140.315	140.030	140.300
35.0	142.086	141.188	140.289	140.589	140.888	141.408	141.927	141.757	141.588	141.937
37.5	140.639	140.075	139.511	139.980	140.449	140.674	140.899	140.799	140.699	140.414
40.0	139.191	138.962	138.732	139.371	140.010	139.941	139.870	139.840	139.810	138.892
42.5	139.311	139.226	139.142	139.581	140.020	139.526	139.032	139.451	139.870	139.186
45.0	139.430	139.491	139.551	139.790	140.030	139.111	138.193	139.062	139.930	139.481
47.5	138.342	138.298	138.253	138.403	138.552	138.358	138.163	138.408	138.652	138.432
50.0	137.254	137.104	136.955	137.015	137.074	137.604	138.133	137.754	137.374	137.384
52.5	137.095	136.994	136.895	137.229	137.564	137.823	138.083	137.733	137.384	137.459
55.0	136.935	136.884	136.834	137.444	138.053	138.043	138.033	137.713	137.394	137.534
57.5	138.233	138.053	137.873	138.627	139.381	138.852	138.323	138.692	139.062	139.141
60.0	139.531	139.221	138.911	139.810	140.709	139.661	138.612	139.671	140.729	140.749
62.5	137.214	136.999	136.785	137.369	137.953	137.639	137.324	137.823	138.323	138.103
65.0	134.897	134.778	134.658	134.928	135.197	135.617	136.036	135.976	135.916	135.457
67.5	134.748	134.334	133.919	134.194	134.469	134.728	134.988	134.752	134.518	134.523
70.0	134.598	133.889	133.180	133.460	133.739	133.840	133.939	133.530	133.120	133.590
72.5	133.190	132.966	132.741	133.025	133.310	132.856	132.401	132.421	132.442	132.576
75.0	131.782	132.042	132.301	132.591	132.881	131.872	130.864	131.313	131.763	131.563
77.5	132.102	132.337	132.571	132.616	132.661	132.521	132.381	132.396	132.412	132.007
80.0	132.421	132.631	132.840	132.641	132.441	133.170	133.899	133.480	133.060	132.451
82.5	131.413	131.263	131.113	131.108	131.104	131.508	131.912	131.812	131.712	131.358
85.0	130.404	129.895	129.386	129.576	129.766	129.846	129.925	130.145	130.365	130.265
87.5	129.786	129.221	128.657	128.956	129.256	128.932	128.607	128.926	129.246	129.231
90.0	129.166	128.547	127.928	128.338	128.747	128.018	127.289	127.709	128.128	128.198
92.5	127.929	127.908	127.888	127.668	127.449	127.264	127.080	127.304	127.528	127.409
95.0	126.690	127.269	127.848	127.000	126.151	126.511	126.870	126.899	126.929	126.620
97.5	126.880	127.214	127.549	127.005	126.460	126.895	127.329	127.314	127.299	126.780
100.0	127.069	127.159	127.249	127.009	126.770	127.279	127.788	127.728	127.668	126.940
102.5	125.092	124.972	124.852	124.618	124.383	124.713	125.042	125.352	125.662	124.858
105.0	123.115	122.786	122.456	122.226	121.997	122.147	122.297	122.976	123.654	122.776
107.5	121.657	121.817	121.977	121.533	121.089	121.218	121.348	121.643	121.937	121.837
110.0	120.199	120.849	121.498	120.839	120.180	120.290	120.399	120.309	120.220	120.899
112.5	119.191	119.466	119.741	119.806	119.870	119.990	120.110	119.935	119.760	119.945
115.0	118.183	118.083	117.983	118.772	119.561	119.691	119.820	119.561	119.301	118.991
117.5	117.684	117.963	118.243	118.542	118.842	119.046	119.251	119.056	118.862	118.388
120.0	117.184	117.843	118.502	118.312	118.122	118.402	118.682	118.552	118.422	117.784
122.5	114.549	115.112	115.677	115.382	115.087	115.147	115.207	115.537	115.867	115.392
125.0	111.912	112.382	112.851	112.451	112.052	111.892	111.732	112.521	113.310	113.000
127.5	110.454	110.355	110.255	110.340	110.425	110.260	110.095	110.409	110.724	110.684
130.0	108.997	108.328	107.659	108.228	108.797	108.627	108.457	108.297	108.137	108.368
132.5	106.780	106.506	106.231	106.311	106.391	106.366	106.341	106.280	106.220	106.555

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CANDELA TABULATION - (Cont.)

135.0	104.563	104.683	104.803	104.394	103.984	104.104	104.223	104.264	104.303	104.743
137.5	102.736	102.761	102.786	102.871	102.956	102.696	102.437	102.626	102.816	102.921
140.0	100.909	100.839	100.769	101.348	101.927	101.288	100.649	100.989	101.328	101.098
142.5	99.262	99.566	99.870	100.130	100.389	100.165	99.940	100.095	100.250	99.721
145.0	97.614	98.293	98.971	98.912	98.852	99.042	99.231	99.201	99.171	98.342
147.5	95.297	95.846	96.395	95.911	95.427	95.606	95.787	95.766	95.746	95.477
150.0	92.980	93.400	93.819	92.911	92.002	92.172	92.342	92.332	92.321	92.611
152.5	91.033	91.148	91.263	90.909	90.554	90.634	90.714	90.439	90.165	90.180
155.0	89.087	88.897	88.707	88.906	89.106	89.096	89.087	88.547	88.008	87.748
157.5	85.742	85.802	85.861	86.076	86.291	86.461	86.630	86.266	85.901	85.646
160.0	82.396	82.706	83.015	83.245	83.475	83.824	84.173	83.984	83.794	83.545
162.5	81.478	81.473	81.468	81.443	81.418	81.602	81.787	81.692	81.597	81.548
165.0	80.559	80.240	79.920	79.641	79.361	79.381	79.401	79.401	79.401	79.551
167.5	80.180	79.745	79.311	79.221	79.131	79.291	79.451	79.545	79.641	79.621
170.0	79.800	79.251	78.702	78.802	78.902	79.202	79.501	79.691	79.880	79.691
172.5	78.722	78.248	77.774	77.903	78.033	78.173	78.312	78.712	79.111	78.702
175.0	77.644	77.244	76.845	77.005	77.164	77.144	77.124	77.734	78.342	77.713
177.5	77.384	77.339	77.294	77.084	76.875	77.239	77.603	77.454	77.304	77.105
180.0	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540

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	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927
2.5	142.386	142.396	142.407	142.402	142.397	142.591	142.786	142.995	143.205	142.816
5.0	142.846	142.866	142.885	142.875	142.866	143.255	143.644	144.064	144.483	143.704
7.5	142.237	141.952	141.668	142.196	142.726	142.686	142.646	143.085	143.525	142.800
10.0	141.627	141.039	140.449	141.518	142.586	142.117	141.647	142.107	142.566	141.897
12.5	141.427	141.253	141.078	141.308	141.537	141.228	140.919	141.427	141.937	141.418
15.0	141.228	141.468	141.707	141.098	140.489	140.339	140.190	140.749	141.308	140.938
17.5	140.599	140.624	140.649	140.140	139.630	139.666	139.700	140.155	140.609	140.245
20.0	139.970	139.780	139.591	139.181	138.772	138.991	139.211	139.561	139.910	139.551
22.5	140.000	139.730	139.461	139.675	139.890	139.625	139.361	139.471	139.581	139.545
25.0	140.030	139.680	139.331	140.170	141.009	140.260	139.511	139.381	139.251	139.540
27.5	139.441	139.331	139.221	139.381	139.541	139.177	138.812	138.847	138.881	139.106
30.0	138.852	138.982	139.111	138.592	138.073	138.093	138.113	138.312	138.512	138.672
32.5	140.569	140.344	140.120	139.785	139.451	139.650	139.850	139.641	139.431	139.840
35.0	142.286	141.707	141.128	140.979	140.828	141.208	141.588	140.969	140.350	141.009
37.5	140.130	140.015	139.900	140.095	140.290	140.125	139.960	139.995	140.030	140.015
40.0	137.973	138.323	138.672	139.211	139.751	139.042	138.332	139.021	139.710	139.021
42.5	138.502	138.747	138.991	139.251	139.511	139.057	138.602	139.081	139.561	139.266
45.0	139.031	139.171	139.311	139.291	139.271	139.071	138.872	139.142	139.411	139.511
47.5	138.213	138.358	138.502	138.627	138.752	138.642	138.532	138.472	138.413	138.527
50.0	137.394	137.543	137.693	137.963	138.232	138.213	138.193	137.804	137.414	137.544
52.5	137.534	137.743	137.953	137.888	137.823	137.738	137.653	137.504	137.354	137.284
55.0	137.674	137.944	138.213	137.813	137.414	137.264	137.114	137.204	137.294	137.024
57.5	139.221	138.907	138.592	138.617	138.642	138.273	137.903	138.312	138.722	138.278
60.0	140.769	139.870	138.971	139.421	139.870	139.281	138.692	139.421	140.150	139.531
62.5	137.883	137.339	136.795	136.930	137.065	137.214	137.364	137.639	137.914	137.319
65.0	134.997	134.808	134.618	134.439	134.258	135.147	136.036	135.856	135.677	135.107
67.5	134.528	134.698	134.868	134.274	133.680	134.144	134.608	134.583	134.558	134.304
70.0	134.059	134.588	135.117	134.109	133.100	133.140	133.180	133.310	133.439	133.500
72.5	132.711	133.235	133.760	133.085	132.411	132.481	132.551	132.416	132.282	132.431
75.0	131.363	131.882	132.401	132.062	131.722	131.822	131.922	131.522	131.123	131.363
77.5	131.603	132.192	132.781	132.242	131.703	131.777	131.852	132.117	132.381	132.421
80.0	131.842	132.502	133.160	132.421	131.683	131.733	131.782	132.711	133.639	133.480

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CANDELA TABULATION - (Cont.)

82.5	131.003	130.994	130.984	131.033	131.083	131.168	131.253	131.557	131.862	131.628
85.0	130.165	129.486	128.807	129.646	130.484	130.604	130.724	130.404	130.085	129.775
87.5	129.217	128.976	128.737	128.997	129.256	129.151	129.047	128.981	128.917	128.882
90.0	128.267	128.467	128.667	128.347	128.028	127.699	127.369	127.559	127.748	127.988
92.5	127.289	127.508	127.728	127.714	127.699	127.354	127.009	127.025	127.039	127.394
95.0	126.310	126.550	126.790	127.080	127.369	127.009	126.650	126.490	126.330	126.800
97.5	126.261	126.720	127.179	127.359	127.539	127.329	127.119	126.785	126.451	126.819
100.0	126.211	126.890	127.569	127.638	127.708	127.648	127.588	127.080	126.570	126.840
102.5	124.054	124.883	125.712	125.362	125.012	125.008	125.003	124.683	124.364	124.399
105.0	121.897	122.876	123.854	123.085	122.316	122.366	122.416	122.287	122.157	121.957
107.5	121.738	121.947	122.157	121.537	120.919	121.503	122.087	121.982	121.877	121.283
110.0	121.578	121.018	120.459	119.990	119.521	120.639	121.757	121.677	121.597	120.609
112.5	120.130	119.696	119.261	119.436	119.611	120.075	120.539	120.469	120.399	120.020
115.0	118.682	118.372	118.063	118.882	119.701	119.511	119.321	119.261	119.201	119.431
117.5	117.913	118.273	118.632	118.966	119.301	118.822	118.342	118.322	118.303	118.542
120.0	117.144	118.172	119.201	119.051	118.902	118.133	117.364	117.384	117.404	117.653
122.5	114.917	115.327	115.736	115.606	115.477	115.417	115.357	115.132	114.908	115.043
125.0	112.691	112.481	112.271	112.162	112.052	112.701	113.350	112.881	112.411	112.431
127.5	110.644	110.684	110.724	110.429	110.135	110.509	110.884	110.539	110.195	110.489
130.0	108.597	108.887	109.176	108.697	108.217	108.318	108.417	108.198	107.978	108.547
132.5	106.890	107.050	107.209	106.890	106.570	106.730	106.890	106.440	105.991	106.401
135.0	105.182	105.212	105.242	105.083	104.923	105.143	105.362	104.683	104.004	104.254
137.5	103.026	103.330	103.635	103.150	102.666	103.075	103.485	103.270	103.056	103.121
140.0	100.869	101.448	102.027	101.218	100.410	101.009	101.608	101.858	102.107	101.987
142.5	99.191	99.381	99.570	99.526	99.481	99.561	99.641	99.790	99.940	100.010
145.0	97.514	97.314	97.114	97.833	98.552	98.113	97.674	97.724	97.773	98.033
147.5	95.207	95.362	95.517	95.707	95.896	95.931	95.966	95.702	95.437	95.652
150.0	92.900	93.410	93.919	93.579	93.240	93.749	94.259	93.680	93.100	93.270
152.5	90.195	90.669	91.143	91.273	91.403	91.582	91.763	91.029	90.294	90.589
155.0	87.489	87.928	88.367	88.966	89.565	89.416	89.266	88.377	87.489	87.909
157.5	85.392	85.562	85.731	86.066	86.401	86.510	86.620	86.156	85.692	85.621
160.0	83.295	83.196	83.096	83.166	83.235	83.605	83.974	83.934	83.894	83.335
162.5	81.498	81.683	81.867	81.403	80.939	81.423	81.907	81.682	81.458	81.243
165.0	79.701	80.170	80.639	79.641	78.642	79.241	79.840	79.431	79.021	79.152
167.5	79.601	79.875	80.150	79.207	78.263	78.967	79.671	79.106	78.542	78.916
170.0	79.501	79.581	79.660	78.772	77.883	78.692	79.501	78.782	78.063	78.682
172.5	78.293	78.792	79.291	78.497	77.704	78.163	78.622	78.407	78.193	78.347
175.0	77.084	78.003	78.921	78.223	77.523	77.633	77.743	78.033	78.322	78.013
177.5	76.905	77.444	77.983	77.723	77.464	77.573	77.683	77.439	77.194	77.050
180.0	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540

**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	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927
2.5	142.427	142.436	142.446	142.916	143.385	142.866	142.347	142.516	142.686	142.946
5.0	142.926	142.946	142.965	143.904	144.843	143.804	142.766	143.105	143.445	143.964
7.5	142.077	142.381	142.686	142.741	142.796	142.227	141.658	142.092	142.526	142.990
10.0	141.228	141.817	142.407	141.578	140.749	140.650	140.549	141.079	141.608	142.017
12.5	140.899	141.064	141.228	141.054	140.879	140.584	140.290	140.529	140.769	141.018
15.0	140.569	140.309	140.050	140.529	141.009	140.519	140.030	139.980	139.930	140.020
17.5	139.880	139.675	139.471	139.785	140.100	139.920	139.740	139.671	139.601	139.481
20.0	139.191	139.042	138.891	139.042	139.191	139.321	139.451	139.361	139.271	138.942
22.5	139.511	139.236	138.962	139.036	139.111	139.655	140.200	139.751	139.301	139.571
25.0	139.830	139.430	139.031	139.031	139.031	139.990	140.949	140.140	139.331	140.200
27.5	139.331	139.196	139.061	138.836	138.612	139.586	140.559	139.905	139.251	139.431

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CANDELA TABULATION - (Cont.)

30.0	138.831	138.962	139.091	138.642	138.193	139.181	140.169	139.671	139.171	138.662
32.5	140.249	140.410	140.569	140.435	140.300	140.405	140.509	140.439	140.369	139.945
35.0	141.668	141.858	142.047	142.227	142.407	141.628	140.849	141.208	141.567	141.228
37.5	140.000	140.169	140.339	140.809	141.279	140.464	139.650	139.751	139.850	139.800
40.0	138.332	138.482	138.632	139.391	140.150	139.301	138.452	138.293	138.133	138.373
42.5	138.972	139.097	139.221	139.311	139.401	139.321	139.241	138.667	138.093	138.497
45.0	139.611	139.711	139.810	139.231	138.652	139.341	140.030	139.042	138.053	138.622
47.5	138.642	138.337	138.033	138.143	138.252	138.467	138.682	138.013	137.344	137.873
50.0	137.674	136.965	136.255	137.054	137.853	137.594	137.334	136.985	136.635	137.125
52.5	137.214	137.279	137.344	137.863	138.383	137.898	137.414	137.224	137.034	137.354
55.0	136.755	137.594	138.432	138.672	138.911	138.202	137.493	137.463	137.433	137.584
57.5	137.834	138.293	138.752	139.166	139.581	139.366	139.151	138.702	138.252	138.378
60.0	138.911	138.991	139.071	139.661	140.249	140.529	140.809	139.941	139.071	139.172
62.5	136.725	137.019	137.315	137.369	137.424	137.494	137.564	137.514	137.464	137.349
65.0	134.538	135.048	135.557	135.077	134.598	134.458	134.318	135.087	135.856	135.527
67.5	134.049	134.274	134.499	134.359	134.219	134.353	134.488	134.603	134.718	134.593
70.0	133.560	133.500	133.439	133.639	133.839	134.249	134.658	134.119	133.579	133.659
72.5	132.582	132.621	132.661	132.781	132.901	133.170	133.440	133.230	133.021	132.646
75.0	131.603	131.742	131.882	131.923	131.962	132.092	132.222	132.341	132.461	131.632
77.5	132.461	132.302	132.142	132.252	132.362	132.162	131.962	132.217	132.472	132.252
80.0	133.320	132.861	132.401	132.582	132.761	132.232	131.702	132.092	132.481	132.871
82.5	131.393	131.318	131.243	131.123	131.003	130.799	130.594	130.973	131.353	131.163
85.0	129.466	129.775	130.085	129.665	129.246	129.366	129.486	129.855	130.225	129.456
87.5	128.847	128.832	128.817	128.782	128.747	128.727	128.707	128.832	128.957	128.892
90.0	128.228	127.888	127.549	127.898	128.247	128.088	127.928	127.808	127.689	128.328
92.5	127.748	127.673	127.599	127.533	127.469	127.583	127.698	127.528	127.359	127.963
95.0	127.269	127.459	127.648	127.169	126.690	127.080	127.469	127.249	127.030	127.599
97.5	127.189	127.434	127.678	127.349	127.020	126.805	126.590	126.970	127.349	127.659
100.0	127.109	127.409	127.708	127.528	127.349	126.530	125.711	126.690	127.668	127.718
102.5	124.433	125.033	125.632	125.337	125.042	124.943	124.843	125.072	125.302	125.417
105.0	121.757	122.656	123.555	123.146	122.736	123.355	123.974	123.455	122.935	123.116
107.5	120.689	121.278	121.867	121.578	121.288	121.633	121.977	121.907	121.837	121.987
110.0	119.620	119.900	120.180	120.010	119.840	119.911	119.980	120.359	120.739	120.859
112.5	119.641	119.735	119.831	119.406	118.982	119.311	119.641	119.506	119.371	119.790
115.0	119.660	119.570	119.481	118.802	118.122	118.712	119.301	118.652	118.003	118.722
117.5	118.782	119.001	119.221	118.891	118.562	118.927	119.291	118.937	118.582	118.812
120.0	117.903	118.433	118.962	118.982	119.001	119.141	119.281	119.221	119.161	118.902
122.5	115.178	115.612	116.046	115.796	115.546	115.791	116.036	115.716	115.397	115.576
125.0	112.451	112.791	113.130	112.611	112.092	112.442	112.791	112.212	111.632	112.252
127.5	110.784	110.744	110.704	110.584	110.464	110.844	111.223	110.589	109.955	110.090
130.0	109.116	108.697	108.277	108.557	108.837	109.247	109.656	108.967	108.277	107.928
132.5	106.810	106.475	106.141	106.291	106.440	107.074	107.709	106.825	105.941	106.245
135.0	104.503	104.254	104.004	104.024	104.044	104.903	105.761	104.683	103.605	104.564
137.5	103.185	103.020	102.856	102.496	102.137	103.036	103.934	103.075	102.217	102.736
140.0	101.867	101.787	101.707	100.968	100.229	101.168	102.107	101.468	100.828	100.909
142.5	100.080	100.250	100.419	100.090	99.760	100.210	100.659	100.055	99.451	99.501
145.0	98.292	98.712	99.131	99.211	99.291	99.251	99.211	98.642	98.073	98.093
147.5	95.866	95.931	95.996	95.821	95.647	96.171	96.695	95.996	95.297	95.232
150.0	93.440	93.150	92.861	92.431	92.002	93.090	94.179	93.350	92.521	92.371
152.5	90.884	90.674	90.464	90.539	90.615	90.819	91.024	90.744	90.464	90.360
155.0	88.327	88.198	88.068	88.647	89.226	88.547	87.868	88.138	88.407	88.348
157.5	85.552	85.717	85.882	85.996	86.111	86.006	85.901	85.717	85.532	85.827
160.0	82.775	83.235	83.695	83.345	82.995	83.465	83.934	83.295	82.656	83.305
162.5	81.028	81.618	82.207	81.778	81.348	81.748	82.147	81.388	80.629	81.243
165.0	79.281	80.000	80.719	80.210	79.701	80.030	80.360	79.481	78.602	79.182
167.5	79.291	79.296	79.301	79.152	79.002	79.072	79.141	78.897	78.652	78.782

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CANDELA TABULATION - (Cont.)

170.0	79.301	78.592	77.883	78.093	78.303	78.113	77.923	78.312	78.702	78.383
172.5	78.502	78.308	78.113	77.908	77.704	77.748	77.793	78.118	78.443	78.103
175.0	77.704	78.023	78.342	77.724	77.105	77.384	77.663	77.923	78.182	77.823
177.5	76.905	77.524	78.143	77.459	76.775	76.999	77.224	77.358	77.493	77.569
180.0	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540

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	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927
2.5	143.205	143.135	143.065	143.075	143.086	143.190	143.295	143.190	143.086	143.075
5.0	144.483	144.344	144.204	144.224	144.243	144.454	144.663	144.454	144.243	144.224
7.5	143.454	143.065	142.676	142.616	142.556	142.551	142.546	142.551	142.556	142.616
10.0	142.426	141.787	141.148	141.009	140.869	140.649	140.429	140.649	140.869	141.009
12.5	141.268	141.128	140.988	140.859	140.729	140.883	141.039	140.883	140.729	140.859
15.0	140.110	140.469	140.828	140.709	140.589	141.119	141.647	141.119	140.589	140.709
17.5	139.361	139.620	139.880	140.005	140.130	140.639	141.148	140.639	140.130	140.005
20.0	138.612	138.772	138.932	139.301	139.671	140.160	140.649	140.160	139.671	139.301
22.5	139.840	139.526	139.211	139.735	140.260	140.545	140.829	140.545	140.260	139.735
25.0	141.068	140.279	139.490	140.169	140.849	140.929	141.009	140.929	140.849	140.169
27.5	139.611	139.561	139.511	140.000	140.490	140.549	140.609	140.549	140.490	140.000
30.0	138.153	138.842	139.531	139.831	140.130	140.170	140.210	140.170	140.130	139.831
32.5	139.521	139.735	139.950	140.639	141.328	140.899	140.469	140.899	141.328	140.639
35.0	140.888	140.629	140.369	141.448	142.526	141.628	140.729	141.628	142.526	141.448
37.5	139.751	139.945	140.140	140.454	140.769	140.220	139.671	140.220	140.769	140.454
40.0	138.612	139.261	139.910	139.461	139.012	138.812	138.612	138.812	139.012	139.461
42.5	138.902	139.147	139.391	139.461	139.531	139.321	139.112	139.321	139.531	139.461
45.0	139.191	139.032	138.872	139.461	140.050	139.831	139.611	139.831	140.050	139.461
47.5	138.403	138.298	138.193	138.243	138.293	138.098	137.903	138.098	138.293	138.243
50.0	137.614	137.564	137.514	137.024	136.535	136.365	136.196	136.365	136.535	137.024
52.5	137.674	137.524	137.374	137.514	137.653	137.449	137.244	137.449	137.653	137.514
55.0	137.733	137.484	137.234	138.003	138.772	138.532	138.292	138.532	138.772	138.003
57.5	138.502	138.273	138.043	138.842	139.641	139.411	139.181	139.411	139.641	138.842
60.0	139.271	139.062	138.852	139.680	140.509	140.290	140.070	140.290	140.509	139.680
62.5	137.234	137.154	137.074	137.479	137.883	137.499	137.115	137.499	137.883	137.479
65.0	135.197	135.247	135.297	135.277	135.257	134.708	134.159	134.708	135.257	135.277
67.5	134.469	134.428	134.389	134.778	135.167	134.673	134.179	134.673	135.167	134.778
70.0	133.739	133.610	133.480	134.279	135.077	134.638	134.199	134.638	135.077	134.279
72.5	132.272	132.257	132.242	133.011	133.780	133.495	133.211	133.495	133.780	133.011
75.0	130.804	130.904	131.003	131.742	132.481	132.352	132.222	132.352	132.481	131.742
77.5	132.032	132.062	132.092	132.346	132.601	132.431	132.261	132.431	132.601	132.346
80.0	133.260	133.220	133.180	132.950	132.721	132.511	132.301	132.511	132.721	132.950
82.5	130.973	131.333	131.692	131.593	131.493	131.223	130.953	131.223	131.493	131.593
85.0	128.687	129.446	130.205	130.235	130.264	129.935	129.606	129.935	130.264	130.235
87.5	128.827	129.162	129.496	129.580	129.665	129.096	128.527	129.096	129.665	129.580
90.0	128.967	128.877	128.787	128.926	129.066	128.258	127.448	128.258	129.066	128.926
92.5	128.567	128.423	128.278	127.963	127.649	127.339	127.030	127.339	127.649	127.963
95.0	128.168	127.968	127.769	127.000	126.231	126.421	126.610	126.421	126.231	127.000
97.5	127.968	127.464	126.960	126.800	126.640	126.815	126.990	126.815	126.640	126.800
100.0	127.769	126.960	126.151	126.600	127.049	127.209	127.369	127.209	127.049	126.600
102.5	125.532	125.078	124.623	124.763	124.902	125.127	125.352	125.127	124.902	124.763
105.0	123.295	123.196	123.095	122.926	122.756	123.045	123.335	123.045	122.756	122.926
107.5	122.137	121.972	121.807	121.652	121.498	121.583	121.668	121.583	121.498	121.652
110.0	120.979	120.749	120.519	120.380	120.240	120.120	120.000	120.120	120.240	120.380
112.5	120.210	120.190	120.170	120.115	120.060	120.075	120.090	120.075	120.060	120.115
115.0	119.441	119.631	119.820	119.850	119.880	120.030	120.180	120.030	119.880	119.850

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CANDELA TABULATION - (Cont.)

117.5	119.042	119.106	119.171	118.882	118.592	118.867	119.142	118.867	118.592	118.882
120.0	118.642	118.582	118.522	117.913	117.304	117.704	118.103	117.704	117.304	117.913
122.5	115.757	115.606	115.457	114.988	114.518	115.073	115.626	115.073	114.518	114.988
125.0	112.870	112.631	112.392	112.062	111.732	112.441	113.150	112.441	111.732	112.062
127.5	110.225	110.220	110.215	110.329	110.444	110.894	111.343	110.894	110.444	110.329
130.0	107.579	107.808	108.038	108.597	109.156	109.346	109.535	109.346	109.156	108.597
132.5	106.550	106.585	106.620	107.035	107.449	107.508	107.569	107.508	107.449	107.035
135.0	105.522	105.362	105.202	105.472	105.741	105.671	105.602	105.671	105.741	105.472
137.5	103.256	103.146	103.036	103.015	102.995	102.901	102.806	102.901	102.995	103.015
140.0	100.989	100.929	100.869	100.559	100.250	100.130	100.010	100.130	100.250	100.559
142.5	99.551	99.341	99.131	99.127	99.122	99.271	99.421	99.271	99.122	99.127
145.0	98.113	97.754	97.394	97.694	97.993	98.413	98.831	98.413	97.993	97.694
147.5	95.167	95.112	95.057	95.332	95.607	95.512	95.417	95.512	95.607	95.332
150.0	92.222	92.472	92.721	92.971	93.220	92.612	92.002	92.612	93.220	92.971
152.5	90.255	90.469	90.684	90.634	90.585	90.400	90.215	90.400	90.585	90.634
155.0	88.288	88.467	88.647	88.297	87.948	88.188	88.428	88.188	87.948	88.297
157.5	86.121	86.086	86.051	85.856	85.662	85.566	85.472	85.566	85.662	85.856
160.0	83.954	83.704	83.455	83.415	83.375	82.945	82.516	82.945	83.375	83.415
162.5	81.858	81.638	81.418	81.218	81.018	80.938	80.858	80.938	81.018	81.218
165.0	79.760	79.570	79.381	79.021	78.662	78.932	79.201	78.932	78.662	79.021
167.5	78.912	78.827	78.742	78.502	78.262	78.367	78.472	78.367	78.262	78.502
170.0	78.063	78.083	78.103	77.983	77.863	77.803	77.743	77.803	77.863	77.983
172.5	77.763	78.048	78.333	78.312	78.292	77.793	77.294	77.793	78.292	78.312
175.0	77.464	78.013	78.562	78.642	78.722	77.784	76.845	77.784	78.722	78.642
177.5	77.644	77.743	77.843	77.923	78.003	77.608	77.214	77.608	78.003	77.923
180.0	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540

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	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927
2.5	143.065	143.135	143.205	142.946	142.686	142.516	142.347	142.866	143.385	142.916
5.0	144.204	144.344	144.483	143.964	143.445	143.105	142.766	143.804	144.843	143.904
7.5	142.676	143.065	143.454	142.990	142.526	142.092	141.658	142.227	142.796	142.741
10.0	141.148	141.787	142.426	142.017	141.608	141.079	140.549	140.650	140.749	141.578
12.5	140.988	141.128	141.268	141.018	140.769	140.529	140.290	140.584	140.879	141.054
15.0	140.828	140.469	140.110	140.020	139.930	139.980	140.030	140.519	141.009	140.529
17.5	139.880	139.620	139.361	139.481	139.601	139.671	139.740	139.920	140.100	139.785
20.0	138.932	138.772	138.612	138.942	139.271	139.361	139.451	139.321	139.191	139.042
22.5	139.211	139.526	139.840	139.571	139.301	139.751	140.200	139.655	139.111	139.036
25.0	139.490	140.279	141.068	140.200	139.331	140.140	140.949	139.990	139.031	139.031
27.5	139.511	139.561	139.611	139.431	139.251	139.905	140.559	139.586	138.612	138.836
30.0	139.531	138.842	138.153	138.662	139.171	139.671	140.169	139.181	138.193	138.642
32.5	139.950	139.735	139.521	139.945	140.369	140.439	140.509	140.405	140.300	140.435
35.0	140.369	140.629	140.888	141.228	141.567	141.208	140.849	141.628	142.407	142.227
37.5	140.140	139.945	139.751	139.800	139.850	139.751	139.650	140.464	141.279	140.809
40.0	139.910	139.261	138.612	138.373	138.133	138.293	138.452	139.301	140.150	139.391
42.5	139.391	139.147	138.902	138.497	138.093	138.667	139.241	139.321	139.401	139.311
45.0	138.872	139.032	139.191	138.622	138.053	139.042	140.030	139.341	138.652	139.231
47.5	138.193	138.298	138.403	137.873	137.344	138.013	138.682	138.467	138.252	138.143
50.0	137.514	137.564	137.614	137.125	136.635	136.985	137.334	137.594	137.853	137.054
52.5	137.374	137.524	137.674	137.354	137.034	137.224	137.414	137.898	138.383	137.863
55.0	137.234	137.484	137.733	137.584	137.433	137.463	137.493	138.202	138.911	138.672
57.5	138.043	138.273	138.502	138.378	138.252	138.702	139.151	139.366	139.581	139.166
60.0	138.852	139.062	139.271	139.172	139.071	139.941	140.809	140.529	140.249	139.661
62.5	137.074	137.154	137.234	137.349	137.464	137.514	137.564	137.494	137.424	137.369

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CANDELA TABULATION - (Cont.)

65.0	135.297	135.247	135.197	135.527	135.856	135.087	134.318	134.458	134.598	135.077
67.5	134.389	134.428	134.469	134.593	134.718	134.603	134.488	134.353	134.219	134.359
70.0	133.480	133.610	133.739	133.659	133.579	134.119	134.658	134.249	133.839	133.639
72.5	132.242	132.257	132.272	132.646	133.021	133.230	133.440	133.170	132.901	132.781
75.0	131.003	130.904	130.804	131.632	132.461	132.341	132.222	132.092	131.962	131.923
77.5	132.092	132.062	132.032	132.252	132.472	132.217	131.962	132.162	132.362	132.252
80.0	133.180	133.220	133.260	132.871	132.481	132.092	131.702	132.232	132.761	132.582
82.5	131.692	131.333	130.973	131.163	131.353	130.973	130.594	130.799	131.003	131.123
85.0	130.205	129.446	128.687	129.456	130.225	129.855	129.486	129.366	129.246	129.665
87.5	129.496	129.162	128.827	128.892	128.957	128.832	128.707	128.727	128.747	128.782
90.0	128.787	128.877	128.967	128.328	127.689	127.808	127.928	128.088	128.247	127.898
92.5	128.278	128.423	128.567	127.963	127.359	127.528	127.698	127.583	127.469	127.533
95.0	127.769	127.968	128.168	127.599	127.030	127.249	127.469	127.080	126.690	127.169
97.5	126.960	127.464	127.968	127.659	127.349	126.970	126.590	126.805	127.020	127.349
100.0	126.151	126.960	127.769	127.718	127.668	126.690	125.711	126.530	127.349	127.528
102.5	124.623	125.078	125.532	125.417	125.302	125.072	124.843	124.943	125.042	125.337
105.0	123.095	123.196	123.295	123.116	122.935	123.455	123.974	123.355	122.736	123.146
107.5	121.807	121.972	122.137	121.987	121.837	121.907	121.977	121.633	121.288	121.578
110.0	120.519	120.749	120.979	120.859	120.739	120.359	119.980	119.911	119.840	120.010
112.5	120.170	120.190	120.210	119.790	119.371	119.506	119.641	119.311	118.982	119.406
115.0	119.820	119.631	119.441	118.722	118.003	118.652	119.301	118.712	118.122	118.802
117.5	119.171	119.106	119.042	118.812	118.582	118.937	119.291	118.927	118.562	118.891
120.0	118.522	118.582	118.642	118.902	119.161	119.221	119.281	119.141	119.001	118.982
122.5	115.457	115.606	115.757	115.576	115.397	115.716	116.036	115.791	115.546	115.796
125.0	112.392	112.631	112.870	112.252	111.632	112.212	112.791	112.442	112.092	112.611
127.5	110.215	110.220	110.225	110.090	109.955	110.589	111.223	110.844	110.464	110.584
130.0	108.038	107.808	107.579	107.928	108.277	108.967	109.656	109.247	108.837	108.557
132.5	106.620	106.585	106.550	106.245	105.941	106.825	107.709	107.074	106.440	106.291
135.0	105.202	105.362	105.522	104.564	103.605	104.683	105.761	104.903	104.044	104.024
137.5	103.036	103.146	103.256	102.736	102.217	103.075	103.934	103.036	102.137	102.496
140.0	100.869	100.929	100.989	100.909	100.828	101.468	102.107	101.168	100.229	100.968
142.5	99.131	99.341	99.551	99.501	99.451	100.055	100.659	100.210	99.760	100.090
145.0	97.394	97.754	98.113	98.093	98.073	98.642	99.211	99.251	99.291	99.211
147.5	95.057	95.112	95.167	95.232	95.297	95.996	96.695	96.171	95.647	95.821
150.0	92.721	92.472	92.222	92.371	92.521	93.350	94.179	93.090	92.002	92.431
152.5	90.684	90.469	90.255	90.360	90.464	90.744	91.024	90.819	90.615	90.539
155.0	88.647	88.467	88.288	88.348	88.407	88.138	87.868	88.547	89.226	88.647
157.5	86.051	86.086	86.121	85.827	85.532	85.717	85.901	86.006	86.111	85.996
160.0	83.455	83.704	83.954	83.305	82.656	83.295	83.934	83.465	82.995	83.345
162.5	81.418	81.638	81.858	81.243	80.629	81.388	82.147	81.748	81.348	81.778
165.0	79.381	79.570	79.760	79.182	78.602	79.481	80.360	80.030	79.701	80.210
167.5	78.742	78.827	78.912	78.782	78.652	78.897	79.141	79.072	79.002	79.152
170.0	78.103	78.083	78.063	78.383	78.702	78.312	77.923	78.113	78.303	78.093
172.5	78.333	78.048	77.763	78.103	78.443	78.118	77.793	77.748	77.704	77.908
175.0	78.562	78.013	77.464	77.823	78.182	77.923	77.663	77.384	77.105	77.724
177.5	77.843	77.743	77.644	77.569	77.493	77.358	77.224	76.999	76.775	77.459
180.0	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540

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	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927
2.5	142.446	142.436	142.427	142.816	143.205	142.995	142.786	142.591	142.397	142.402
5.0	142.965	142.946	142.926	143.704	144.483	144.064	143.644	143.255	142.866	142.875
7.5	142.686	142.381	142.077	142.800	143.525	143.085	142.646	142.686	142.726	142.196
10.0	142.407	141.817	141.228	141.897	142.566	142.107	141.647	142.117	142.586	141.518

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CANDELA TABULATION - (Cont.)

12.5	141.228	141.064	140.899	141.418	141.937	141.427	140.919	141.228	141.537	141.308
15.0	140.050	140.309	140.569	140.938	141.308	140.749	140.190	140.339	140.489	141.098
17.5	139.471	139.675	139.880	140.245	140.609	140.155	139.700	139.666	139.630	140.140
20.0	138.891	139.042	139.191	139.551	139.910	139.561	139.211	138.991	138.772	139.181
22.5	138.962	139.236	139.511	139.545	139.581	139.471	139.361	139.625	139.890	139.675
25.0	139.031	139.430	139.830	139.540	139.251	139.381	139.511	140.260	141.009	140.170
27.5	139.061	139.196	139.331	139.106	138.881	138.847	138.812	139.177	139.541	139.381
30.0	139.091	138.962	138.831	138.672	138.512	138.312	138.113	138.093	138.073	138.592
32.5	140.569	140.410	140.249	139.840	139.431	139.641	139.850	139.650	139.451	139.785
35.0	142.047	141.858	141.668	141.009	140.350	140.969	141.588	141.208	140.828	140.979
37.5	140.339	140.169	140.000	140.015	140.030	139.995	139.960	140.125	140.290	140.095
40.0	138.632	138.482	138.332	139.021	139.710	139.021	138.332	139.042	139.751	139.211
42.5	139.221	139.097	138.972	139.266	139.561	139.081	138.602	139.057	139.511	139.251
45.0	139.810	139.711	139.611	139.511	139.411	139.142	138.872	139.071	139.271	139.291
47.5	138.033	138.337	138.642	138.527	138.413	138.472	138.532	138.642	138.752	138.627
50.0	136.255	136.965	137.674	137.544	137.414	137.804	138.193	138.213	138.232	137.963
52.5	137.344	137.279	137.214	137.284	137.354	137.504	137.653	137.738	137.823	137.888
55.0	138.432	137.594	136.755	137.024	137.294	137.204	137.114	137.264	137.414	137.813
57.5	138.752	138.293	137.834	138.278	138.722	138.312	137.903	138.273	138.642	138.617
60.0	139.071	138.991	138.911	139.531	140.150	139.421	138.692	139.281	139.870	139.421
62.5	137.315	137.019	136.725	137.319	137.914	137.639	137.364	137.214	137.065	136.930
65.0	135.557	135.048	134.538	135.107	135.677	135.856	136.036	135.147	134.258	134.439
67.5	134.499	134.274	134.049	134.304	134.558	134.583	134.608	134.144	133.680	134.274
70.0	133.439	133.500	133.560	133.500	133.439	133.310	133.180	133.140	133.100	134.109
72.5	132.661	132.621	132.582	132.431	132.282	132.416	132.551	132.481	132.411	133.085
75.0	131.882	131.742	131.603	131.363	131.123	131.522	131.922	131.822	131.722	132.062
77.5	132.142	132.302	132.461	132.421	132.381	132.117	131.852	131.777	131.703	132.242
80.0	132.401	132.861	133.320	133.480	133.639	132.711	131.782	131.733	131.683	132.421
82.5	131.243	131.318	131.393	131.628	131.862	131.557	131.253	131.168	131.083	131.033
85.0	130.085	129.775	129.466	129.775	130.085	130.404	130.724	130.604	130.484	129.646
87.5	128.817	128.832	128.847	128.882	128.917	128.981	129.047	129.151	129.256	128.997
90.0	127.549	127.888	128.228	127.988	127.748	127.559	127.369	127.699	128.028	128.347
92.5	127.599	127.673	127.748	127.394	127.039	127.025	127.009	127.354	127.699	127.714
95.0	127.648	127.459	127.269	126.800	126.330	126.490	126.650	127.009	127.369	127.080
97.5	127.678	127.434	127.189	126.819	126.451	126.785	127.119	127.329	127.539	127.359
100.0	127.708	127.409	127.109	126.840	126.570	127.080	127.588	127.648	127.708	127.638
102.5	125.632	125.033	124.433	124.399	124.364	124.683	125.003	125.008	125.012	125.362
105.0	123.555	122.656	121.757	121.957	122.157	122.287	122.416	122.366	122.316	123.085
107.5	121.867	121.278	120.689	121.283	121.877	121.982	122.087	121.503	120.919	121.537
110.0	120.180	119.900	119.620	120.609	121.597	121.677	121.757	120.639	119.521	119.990
112.5	119.831	119.735	119.641	120.020	120.399	120.469	120.539	120.075	119.611	119.436
115.0	119.481	119.570	119.660	119.431	119.201	119.261	119.321	119.511	119.701	118.882
117.5	119.221	119.001	118.782	118.542	118.303	118.322	118.342	118.822	119.301	118.966
120.0	118.962	118.433	117.903	117.653	117.404	117.384	117.364	118.133	118.902	119.051
122.5	116.046	115.612	115.178	115.043	114.908	115.132	115.357	115.417	115.477	115.606
125.0	113.130	112.791	112.451	112.431	112.411	112.881	113.350	112.701	112.052	112.162
127.5	110.704	110.744	110.784	110.489	110.195	110.539	110.884	110.509	110.135	110.429
130.0	108.277	108.697	109.116	108.547	107.978	108.198	108.417	108.318	108.217	108.697
132.5	106.141	106.475	106.810	106.401	105.991	106.440	106.890	106.730	106.570	106.890
135.0	104.004	104.254	104.503	104.254	104.004	104.683	105.362	105.143	104.923	105.083
137.5	102.856	103.020	103.185	103.121	103.056	103.270	103.485	103.075	102.666	103.150
140.0	101.707	101.787	101.867	101.987	102.107	101.858	101.608	101.009	100.410	101.218
142.5	100.419	100.250	100.080	100.010	99.940	99.790	99.641	99.561	99.481	99.526
145.0	99.131	98.712	98.292	98.033	97.773	97.724	97.674	98.113	98.552	97.833
147.5	95.996	95.931	95.866	95.652	95.437	95.702	95.966	95.931	95.896	95.707
150.0	92.861	93.150	93.440	93.270	93.100	93.680	94.259	93.749	93.240	93.579

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CANDELA TABULATION - (Cont.)

152.5	90.464	90.674	90.884	90.589	90.294	91.029	91.763	91.582	91.403	91.273
155.0	88.068	88.198	88.327	87.909	87.489	88.377	89.266	89.416	89.565	88.966
157.5	85.882	85.717	85.552	85.621	85.692	86.156	86.620	86.510	86.401	86.066
160.0	83.695	83.235	82.775	83.335	83.894	83.934	83.974	83.605	83.235	83.166
162.5	82.207	81.618	81.028	81.243	81.458	81.682	81.907	81.423	80.939	81.403
165.0	80.719	80.000	79.281	79.152	79.021	79.431	79.840	79.241	78.642	79.641
167.5	79.301	79.296	79.291	78.916	78.542	79.106	79.671	78.967	78.263	79.207
170.0	77.883	78.592	79.301	78.682	78.063	78.782	79.501	78.692	77.883	78.772
172.5	78.113	78.308	78.502	78.347	78.193	78.407	78.622	78.163	77.704	78.497
175.0	78.342	78.023	77.704	78.013	78.322	78.033	77.743	77.633	77.523	78.223
177.5	78.143	77.524	76.905	77.050	77.194	77.439	77.683	77.573	77.464	77.723
180.0	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540

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	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927
2.5	142.407	142.396	142.386	142.352	142.317	142.436	142.556	142.875	143.196	142.786
5.0	142.885	142.866	142.846	142.776	142.706	142.946	143.185	143.825	144.463	143.644
7.5	141.668	141.952	142.237	142.426	142.616	142.676	142.736	142.721	142.706	142.317
10.0	140.449	141.039	141.627	142.077	142.526	142.407	142.286	141.617	140.949	140.988
12.5	141.078	141.253	141.427	141.712	141.997	142.032	142.067	141.313	140.559	140.779
15.0	141.707	141.468	141.228	141.348	141.468	141.658	141.847	141.009	140.169	140.569
17.5	140.649	140.624	140.599	140.374	140.150	140.339	140.529	140.245	139.960	139.995
20.0	139.591	139.780	139.970	139.401	138.831	139.021	139.211	139.481	139.751	139.421
22.5	139.461	139.730	140.000	139.665	139.331	139.231	139.131	139.526	139.920	139.940
25.0	139.331	139.680	140.030	139.930	139.830	139.441	139.051	139.570	140.089	140.459
27.5	139.221	139.331	139.441	139.296	139.151	139.156	139.161	139.471	139.780	139.980
30.0	139.111	138.982	138.852	138.662	138.472	138.872	139.271	139.371	139.471	139.501
32.5	140.120	140.344	140.569	140.300	140.030	140.315	140.599	140.389	140.180	140.045
35.0	141.128	141.707	142.286	141.937	141.588	141.757	141.927	141.408	140.888	140.589
37.5	139.900	140.015	140.130	140.414	140.699	140.799	140.899	140.674	140.449	139.980
40.0	138.672	138.323	137.973	138.892	139.810	139.840	139.870	139.941	140.010	139.371
42.5	138.991	138.747	138.502	139.186	139.870	139.451	139.032	139.526	140.020	139.581
45.0	139.311	139.171	139.031	139.481	139.930	139.062	138.193	139.111	140.030	139.790
47.5	138.502	138.358	138.213	138.432	138.652	138.408	138.163	138.358	138.552	138.403
50.0	137.693	137.543	137.394	137.384	137.374	137.754	138.133	137.604	137.074	137.015
52.5	137.953	137.743	137.534	137.459	137.384	137.733	138.083	137.823	137.564	137.229
55.0	138.213	137.944	137.674	137.534	137.394	137.713	138.033	138.043	138.053	137.444
57.5	138.592	138.907	139.221	139.141	139.062	138.692	138.323	138.852	139.381	138.627
60.0	138.971	139.870	140.769	140.749	140.729	139.671	138.612	139.661	140.709	139.810
62.5	136.795	137.339	137.883	138.103	138.323	137.823	137.324	137.639	137.953	137.369
65.0	134.618	134.808	134.997	135.457	135.916	135.976	136.036	135.617	135.197	134.928
67.5	134.868	134.698	134.528	134.523	134.518	134.752	134.988	134.728	134.469	134.194
70.0	135.117	134.588	134.059	133.590	133.120	133.530	133.939	133.840	133.739	133.460
72.5	133.760	133.235	132.711	132.576	132.442	132.421	132.401	132.856	133.310	133.025
75.0	132.401	131.882	131.363	131.563	131.763	131.313	130.864	131.872	132.881	132.591
77.5	132.781	132.192	131.603	132.007	132.412	132.396	132.381	132.521	132.661	132.616
80.0	133.160	132.502	131.842	132.451	133.060	133.480	133.899	133.170	132.441	132.641
82.5	130.984	130.994	131.003	131.358	131.712	131.812	131.912	131.508	131.104	131.108
85.0	128.807	129.486	130.165	130.265	130.365	130.145	129.925	129.846	129.766	129.576
87.5	128.737	128.976	129.217	129.231	129.246	128.926	128.607	128.932	129.256	128.956
90.0	128.667	128.467	128.267	128.198	128.128	127.709	127.289	128.018	128.747	128.338
92.5	127.728	127.508	127.289	127.409	127.528	127.304	127.080	127.264	127.449	127.668
95.0	126.790	126.550	126.310	126.620	126.929	126.899	126.870	126.511	126.151	127.000
97.5	127.179	126.720	126.261	126.780	127.299	127.314	127.329	126.895	126.460	127.005

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CANDELA TABULATION - (Cont.)

100.0	127.569	126.890	126.211	126.940	127.668	127.728	127.788	127.279	126.770	127.009
102.5	125.712	124.883	124.054	124.858	125.662	125.352	125.042	124.713	124.383	124.618
105.0	123.854	122.876	121.897	122.776	123.654	122.976	122.297	122.147	121.997	122.226
107.5	122.157	121.947	121.738	121.837	121.937	121.643	121.348	121.218	121.089	121.533
110.0	120.459	121.018	121.578	120.899	120.220	120.309	120.399	120.290	120.180	120.839
112.5	119.261	119.696	120.130	119.945	119.760	119.935	120.110	119.990	119.870	119.806
115.0	118.063	118.372	118.682	118.991	119.301	119.561	119.820	119.691	119.561	118.772
117.5	118.632	118.273	117.913	118.388	118.862	119.056	119.251	119.046	118.842	118.542
120.0	119.201	118.172	117.144	117.784	118.422	118.552	118.682	118.402	118.122	118.312
122.5	115.736	115.327	114.917	115.392	115.867	115.537	115.207	115.147	115.087	115.382
125.0	112.271	112.481	112.691	113.000	113.310	112.521	111.732	111.892	112.052	112.451
127.5	110.724	110.684	110.644	110.684	110.724	110.409	110.095	110.260	110.425	110.340
130.0	109.176	108.887	108.597	108.368	108.137	108.297	108.457	108.627	108.797	108.228
132.5	107.209	107.050	106.890	106.555	106.220	106.280	106.341	106.366	106.391	106.311
135.0	105.242	105.212	105.182	104.743	104.303	104.264	104.223	104.104	103.984	104.394
137.5	103.635	103.330	103.026	102.921	102.816	102.626	102.437	102.696	102.956	102.871
140.0	102.027	101.448	100.869	101.098	101.328	100.989	100.649	101.288	101.927	101.348
142.5	99.570	99.381	99.191	99.721	100.250	100.095	99.940	100.165	100.389	100.130
145.0	97.114	97.314	97.514	98.342	99.171	99.201	99.231	99.042	98.852	98.912
147.5	95.517	95.362	95.207	95.477	95.746	95.766	95.787	95.606	95.427	95.911
150.0	93.919	93.410	92.900	92.611	92.321	92.332	92.342	92.172	92.002	92.911
152.5	91.143	90.669	90.195	90.180	90.165	90.439	90.714	90.634	90.554	90.909
155.0	88.367	87.928	87.489	87.748	88.008	88.547	89.087	89.096	89.106	88.906
157.5	85.731	85.562	85.392	85.646	85.901	86.266	86.630	86.461	86.291	86.076
160.0	83.096	83.196	83.295	83.545	83.794	83.984	84.173	83.824	83.475	83.245
162.5	81.867	81.683	81.498	81.548	81.597	81.692	81.787	81.602	81.418	81.443
165.0	80.639	80.170	79.701	79.551	79.401	79.401	79.401	79.381	79.361	79.641
167.5	80.150	79.875	79.601	79.621	79.641	79.545	79.451	79.291	79.131	79.221
170.0	79.660	79.581	79.501	79.691	79.880	79.691	79.501	79.202	78.902	78.802
172.5	79.291	78.792	78.293	78.702	79.111	78.712	78.312	78.173	78.033	77.903
175.0	78.921	78.003	77.084	77.713	78.342	77.734	77.124	77.144	77.164	77.005
177.5	77.983	77.444	76.905	77.105	77.304	77.454	77.603	77.239	76.875	77.084
180.0	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540

**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	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927
2.5	142.377	142.886	143.395	142.886	142.377	142.786	143.196	142.875	142.556	142.436
5.0	142.825	143.844	144.863	143.844	142.825	143.644	144.463	143.825	143.185	142.946
7.5	141.927	142.521	143.116	142.521	141.927	142.317	142.706	142.721	142.736	142.676
10.0	141.028	141.198	141.368	141.198	141.028	140.988	140.949	141.617	142.286	142.407
12.5	140.998	141.303	141.608	141.303	140.998	140.779	140.559	141.313	142.067	142.032
15.0	140.968	141.408	141.847	141.408	140.968	140.569	140.169	141.009	141.847	141.658
17.5	140.030	140.100	140.169	140.100	140.030	139.995	139.960	140.245	140.529	140.339
20.0	139.091	138.792	138.492	138.792	139.091	139.421	139.751	139.481	139.211	139.021
22.5	139.960	139.401	138.842	139.401	139.960	139.940	139.920	139.526	139.131	139.231
25.0	140.828	140.010	139.191	140.010	140.828	140.459	140.089	139.570	139.051	139.441
27.5	140.180	139.855	139.531	139.855	140.180	139.980	139.780	139.471	139.161	139.156
30.0	139.531	139.700	139.870	139.700	139.531	139.501	139.471	139.371	139.271	138.872
32.5	139.910	140.444	140.979	140.444	139.910	140.045	140.180	140.389	140.599	140.315
35.0	140.289	141.188	142.086	141.188	140.289	140.589	140.888	141.408	141.927	141.757
37.5	139.511	140.075	140.639	140.075	139.511	139.980	140.449	140.674	140.899	140.799
40.0	138.732	138.962	139.191	138.962	138.732	139.371	140.010	139.941	139.870	139.840
42.5	139.142	139.226	139.311	139.226	139.142	139.581	140.020	139.526	139.032	139.451
45.0	139.551	139.491	139.430	139.491	139.551	139.790	140.030	139.111	138.193	139.062

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CANDELA TABULATION - (Cont.)

47.5	138.253	138.298	138.342	138.298	138.253	138.403	138.552	138.358	138.163	138.408
50.0	136.955	137.104	137.254	137.104	136.955	137.015	137.074	137.604	138.133	137.754
52.5	136.895	136.994	137.095	136.994	136.895	137.229	137.564	137.823	138.083	137.733
55.0	136.834	136.884	136.935	136.884	136.834	137.444	138.053	138.043	138.033	137.713
57.5	137.873	138.053	138.233	138.053	137.873	138.627	139.381	138.852	138.323	138.692
60.0	138.911	139.221	139.531	139.221	138.911	139.810	140.709	139.661	138.612	139.671
62.5	136.785	136.999	137.214	136.999	136.785	137.369	137.953	137.639	137.324	137.823
65.0	134.658	134.778	134.897	134.778	134.658	134.928	135.197	135.617	136.036	135.976
67.5	133.919	134.334	134.748	134.334	133.919	134.194	134.469	134.728	134.988	134.752
70.0	133.180	133.889	134.598	133.889	133.180	133.460	133.739	133.840	133.939	133.530
72.5	132.741	132.966	133.190	132.966	132.741	133.025	133.310	132.856	132.401	132.421
75.0	132.301	132.042	131.782	132.042	132.301	132.591	132.881	131.872	130.864	131.313
77.5	132.571	132.337	132.102	132.337	132.571	132.616	132.661	132.521	132.381	132.396
80.0	132.840	132.631	132.421	132.631	132.840	132.641	132.441	133.170	133.899	133.480
82.5	131.113	131.263	131.413	131.263	131.113	131.108	131.104	131.508	131.912	131.812
85.0	129.386	129.895	130.404	129.895	129.386	129.576	129.766	129.846	129.925	130.145
87.5	128.657	129.221	129.786	129.221	128.657	128.956	129.256	128.932	128.607	128.926
90.0	127.928	128.547	129.166	128.547	127.928	128.338	128.747	128.018	127.289	127.709
92.5	127.888	127.908	127.929	127.908	127.888	127.668	127.449	127.264	127.080	127.304
95.0	127.848	127.269	126.690	127.269	127.848	127.000	126.151	126.511	126.870	126.899
97.5	127.549	127.214	126.880	127.214	127.549	127.005	126.460	126.895	127.329	127.314
100.0	127.249	127.159	127.069	127.159	127.249	127.009	126.770	127.279	127.788	127.728
102.5	124.852	124.972	125.092	124.972	124.852	124.618	124.383	124.713	125.042	125.352
105.0	122.456	122.786	123.115	122.786	122.456	122.226	121.997	122.147	122.297	122.976
107.5	121.977	121.817	121.657	121.817	121.977	121.533	121.089	121.218	121.348	121.643
110.0	121.498	120.849	120.199	120.849	121.498	120.839	120.180	120.290	120.399	120.309
112.5	119.741	119.466	119.191	119.466	119.741	119.806	119.870	119.990	120.110	119.935
115.0	117.983	118.083	118.183	118.083	117.983	118.772	119.561	119.691	119.820	119.561
117.5	118.243	117.963	117.684	117.963	118.243	118.542	118.842	119.046	119.251	119.056
120.0	118.502	117.843	117.184	117.843	118.502	118.312	118.122	118.402	118.682	118.552
122.5	115.677	115.112	114.549	115.112	115.677	115.382	115.087	115.147	115.207	115.537
125.0	112.851	112.382	111.912	112.382	112.851	112.451	112.052	111.892	111.732	112.521
127.5	110.255	110.355	110.454	110.355	110.255	110.340	110.425	110.260	110.095	110.409
130.0	107.659	108.328	108.997	108.328	107.659	108.228	108.797	108.627	108.457	108.297
132.5	106.231	106.506	106.780	106.506	106.231	106.311	106.391	106.366	106.341	106.280
135.0	104.803	104.683	104.563	104.683	104.803	104.394	103.984	104.104	104.223	104.264
137.5	102.786	102.761	102.736	102.761	102.786	102.871	102.956	102.696	102.437	102.626
140.0	100.769	100.839	100.909	100.839	100.769	101.348	101.927	101.288	100.649	100.989
142.5	99.870	99.566	99.262	99.566	99.870	100.130	100.389	100.165	99.940	100.095
145.0	98.971	98.293	97.614	98.293	98.971	98.912	98.852	99.042	99.231	99.201
147.5	96.395	95.846	95.297	95.846	96.395	95.911	95.427	95.606	95.787	95.766
150.0	93.819	93.400	92.980	93.400	93.819	92.911	92.002	92.172	92.342	92.332
152.5	91.263	91.148	91.033	91.148	91.263	90.909	90.554	90.634	90.714	90.439
155.0	88.707	88.897	89.087	88.897	88.707	88.906	89.106	89.096	89.087	88.547
157.5	85.861	85.802	85.742	85.802	85.861	86.076	86.291	86.461	86.630	86.266
160.0	83.015	82.706	82.396	82.706	83.015	83.245	83.475	83.824	84.173	83.984
162.5	81.468	81.473	81.478	81.473	81.468	81.443	81.418	81.602	81.787	81.692
165.0	79.920	80.240	80.559	80.240	79.920	79.641	79.361	79.381	79.401	79.401
167.5	79.311	79.745	80.180	79.745	79.311	79.221	79.131	79.291	79.451	79.545
170.0	78.702	79.251	79.800	79.251	78.702	78.802	78.902	79.202	79.501	79.691
172.5	77.774	78.248	78.722	78.248	77.774	77.903	78.033	78.173	78.312	78.712
175.0	76.845	77.244	77.644	77.244	76.845	77.005	77.164	77.144	77.124	77.734
177.5	77.294	77.339	77.384	77.339	77.294	77.084	76.875	77.239	77.603	77.454
180.0	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540

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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	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927
2.5	142.317	142.352	142.386	142.396	142.407	142.402	142.397	142.591	142.786	142.995
5.0	142.706	142.776	142.846	142.866	142.885	142.875	142.866	143.255	143.644	144.064
7.5	142.616	142.426	142.237	141.952	141.668	142.196	142.726	142.686	142.646	143.085
10.0	142.526	142.077	141.627	141.039	140.449	141.518	142.586	142.117	141.647	142.107
12.5	141.997	141.712	141.427	141.253	141.078	141.308	141.537	141.228	140.919	141.427
15.0	141.468	141.348	141.228	141.468	141.707	141.098	140.489	140.339	140.190	140.749
17.5	140.150	140.374	140.599	140.624	140.649	140.140	139.630	139.666	139.700	140.155
20.0	138.831	139.401	139.970	139.780	139.591	139.181	138.772	138.991	139.211	139.561
22.5	139.331	139.665	140.000	139.730	139.461	139.675	139.890	139.625	139.361	139.471
25.0	139.830	139.930	140.030	139.680	139.331	140.170	141.009	140.260	139.511	139.381
27.5	139.151	139.296	139.441	139.331	139.221	139.381	139.541	139.177	138.812	138.847
30.0	138.472	138.662	138.852	138.982	139.111	138.592	138.073	138.093	138.113	138.312
32.5	140.030	140.300	140.569	140.344	140.120	139.785	139.451	139.650	139.850	139.641
35.0	141.588	141.937	142.286	141.707	141.128	140.979	140.828	141.208	141.588	140.969
37.5	140.699	140.414	140.130	140.015	139.900	140.095	140.290	140.125	139.960	139.995
40.0	139.810	138.892	137.973	138.323	138.672	139.211	139.751	139.042	138.332	139.021
42.5	139.870	139.186	138.502	138.747	138.991	139.251	139.511	139.057	138.602	139.081
45.0	139.930	139.481	139.031	139.171	139.311	139.291	139.271	139.071	138.872	139.142
47.5	138.652	138.432	138.213	138.358	138.502	138.627	138.752	138.642	138.532	138.472
50.0	137.374	137.384	137.394	137.543	137.693	137.963	138.232	138.213	138.193	137.804
52.5	137.384	137.459	137.534	137.743	137.953	137.888	137.823	137.738	137.653	137.504
55.0	137.394	137.534	137.674	137.944	138.213	137.813	137.414	137.264	137.114	137.204
57.5	139.062	139.141	139.221	138.907	138.592	138.617	138.642	138.273	137.903	138.312
60.0	140.729	140.749	140.769	139.870	138.971	139.421	139.870	139.281	138.692	139.421
62.5	138.323	138.103	137.883	137.339	136.795	136.930	137.065	137.214	137.364	137.639
65.0	135.916	135.457	134.997	134.808	134.618	134.439	134.258	135.147	136.036	135.856
67.5	134.518	134.523	134.528	134.698	134.868	134.274	133.680	134.144	134.608	134.583
70.0	133.120	133.590	134.059	134.588	135.117	134.109	133.100	133.140	133.180	133.310
72.5	132.442	132.576	132.711	133.235	133.760	133.085	132.411	132.481	132.551	132.416
75.0	131.763	131.563	131.363	131.882	132.401	132.062	131.722	131.822	131.922	131.522
77.5	132.412	132.007	131.603	132.192	132.781	132.242	131.703	131.777	131.852	132.117
80.0	133.060	132.451	131.842	132.502	133.160	132.421	131.683	131.733	131.782	132.711
82.5	131.712	131.358	131.003	130.994	130.984	131.033	131.083	131.168	131.253	131.557
85.0	130.365	130.265	130.165	129.486	128.807	129.646	130.484	130.604	130.724	130.404
87.5	129.246	129.231	129.217	128.976	128.737	128.997	129.256	129.151	129.047	128.981
90.0	128.128	128.198	128.267	128.467	128.667	128.347	128.028	127.699	127.369	127.559
92.5	127.528	127.409	127.289	127.508	127.728	127.714	127.699	127.354	127.009	127.025
95.0	126.929	126.620	126.310	126.550	126.790	127.080	127.369	127.009	126.650	126.490
97.5	127.299	126.780	126.261	126.720	127.179	127.359	127.539	127.329	127.119	126.785
100.0	127.668	126.940	126.211	126.890	127.569	127.638	127.708	127.648	127.588	127.080
102.5	125.662	124.858	124.054	124.883	125.712	125.362	125.012	125.008	125.003	124.683
105.0	123.654	122.776	121.897	122.876	123.854	123.085	122.316	122.366	122.416	122.287
107.5	121.937	121.837	121.738	121.947	122.157	121.537	120.919	121.503	122.087	121.982
110.0	120.220	120.899	121.578	121.018	120.459	119.990	119.521	120.639	121.757	121.677
112.5	119.760	119.945	120.130	119.696	119.261	119.436	119.611	120.075	120.539	120.469
115.0	119.301	118.991	118.682	118.372	118.063	118.882	119.701	119.511	119.321	119.261
117.5	118.862	118.388	117.913	118.273	118.632	118.966	119.301	118.822	118.342	118.322
120.0	118.422	117.784	117.144	118.172	119.201	119.051	118.902	118.133	117.364	117.384
122.5	115.867	115.392	114.917	115.327	115.736	115.606	115.477	115.417	115.357	115.132
125.0	113.310	113.000	112.691	112.481	112.271	112.162	112.052	112.701	113.350	112.881
127.5	110.724	110.684	110.644	110.684	110.724	110.429	110.135	110.509	110.884	110.539
130.0	108.137	108.368	108.597	108.887	109.176	108.697	108.217	108.318	108.417	108.198

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CANDELA TABULATION - (Cont.)

132.5	106.220	106.555	106.890	107.050	107.209	106.890	106.570	106.730	106.890	106.440
135.0	104.303	104.743	105.182	105.212	105.242	105.083	104.923	105.143	105.362	104.683
137.5	102.816	102.921	103.026	103.330	103.635	103.150	102.666	103.075	103.485	103.270
140.0	101.328	101.098	100.869	101.448	102.027	101.218	100.410	101.009	101.608	101.858
142.5	100.250	99.721	99.191	99.381	99.570	99.526	99.481	99.561	99.641	99.790
145.0	99.171	98.342	97.514	97.314	97.114	97.833	98.552	98.113	97.674	97.724
147.5	95.746	95.477	95.207	95.362	95.517	95.707	95.896	95.931	95.966	95.702
150.0	92.321	92.611	92.900	93.410	93.919	93.579	93.240	93.749	94.259	93.680
152.5	90.165	90.180	90.195	90.669	91.143	91.273	91.403	91.582	91.763	91.029
155.0	88.008	87.748	87.489	87.928	88.367	88.966	89.565	89.416	89.266	88.377
157.5	85.901	85.646	85.392	85.562	85.731	86.066	86.401	86.510	86.620	86.156
160.0	83.794	83.545	83.295	83.196	83.096	83.166	83.235	83.605	83.974	83.934
162.5	81.597	81.548	81.498	81.683	81.867	81.403	80.939	81.423	81.907	81.682
165.0	79.401	79.551	79.701	80.170	80.639	79.641	78.642	79.241	79.840	79.431
167.5	79.641	79.621	79.601	79.875	80.150	79.207	78.263	78.967	79.671	79.106
170.0	79.880	79.691	79.501	79.581	79.660	78.772	77.883	78.692	79.501	78.782
172.5	79.111	78.702	78.293	78.792	79.291	78.497	77.704	78.163	78.622	78.407
175.0	78.342	77.713	77.084	78.003	78.921	78.223	77.523	77.633	77.743	78.033
177.5	77.304	77.105	76.905	77.444	77.983	77.723	77.464	77.573	77.683	77.439
180.0	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540

**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	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927
2.5	143.205	142.816	142.427	142.436	142.446	142.916	143.385	142.866	142.347	142.516
5.0	144.483	143.704	142.926	142.946	142.965	143.904	144.843	143.804	142.766	143.105
7.5	143.525	142.800	142.077	142.381	142.686	142.741	142.796	142.227	141.658	142.092
10.0	142.566	141.897	141.228	141.817	142.407	141.578	140.749	140.650	140.549	141.079
12.5	141.937	141.418	140.899	141.064	141.228	141.054	140.879	140.584	140.290	140.529
15.0	141.308	140.938	140.569	140.309	140.050	140.529	141.009	140.519	140.030	139.980
17.5	140.609	140.245	139.880	139.675	139.471	139.785	140.100	139.920	139.740	139.671
20.0	139.910	139.551	139.191	139.042	138.891	139.042	139.191	139.321	139.451	139.361
22.5	139.581	139.545	139.511	139.236	138.962	139.036	139.111	139.655	140.200	139.751
25.0	139.251	139.540	139.830	139.430	139.031	139.031	139.031	139.990	140.949	140.140
27.5	138.881	139.106	139.331	139.196	139.061	138.836	138.612	139.586	140.559	139.905
30.0	138.512	138.672	138.831	138.962	139.091	138.642	138.193	139.181	140.169	139.671
32.5	139.431	139.840	140.249	140.410	140.569	140.435	140.300	140.405	140.509	140.439
35.0	140.350	141.009	141.668	141.858	142.047	142.227	142.407	141.628	140.849	141.208
37.5	140.030	140.015	140.000	140.169	140.339	140.809	141.279	140.464	139.650	139.751
40.0	139.710	139.021	138.332	138.482	138.632	139.391	140.150	139.301	138.452	138.293
42.5	139.561	139.266	138.972	139.097	139.221	139.311	139.401	139.321	139.241	138.667
45.0	139.411	139.511	139.611	139.711	139.810	139.231	138.652	139.341	140.030	139.042
47.5	138.413	138.527	138.642	138.337	138.033	138.143	138.252	138.467	138.682	138.013
50.0	137.414	137.544	137.674	136.965	136.255	137.054	137.853	137.594	137.334	136.985
52.5	137.354	137.284	137.214	137.279	137.344	137.863	138.383	137.898	137.414	137.224
55.0	137.294	137.024	136.755	137.594	138.432	138.672	138.911	138.202	137.493	137.463
57.5	138.722	138.278	137.834	138.293	138.752	139.166	139.581	139.366	139.151	138.702
60.0	140.150	139.531	138.911	138.991	139.071	139.661	140.249	140.529	140.809	139.941
62.5	137.914	137.319	136.725	137.019	137.315	137.369	137.424	137.494	137.564	137.514
65.0	135.677	135.107	134.538	135.048	135.557	135.077	134.598	134.458	134.318	135.087
67.5	134.558	134.304	134.049	134.274	134.499	134.359	134.219	134.353	134.488	134.603
70.0	133.439	133.500	133.560	133.500	133.439	133.639	133.839	134.249	134.658	134.119
72.5	132.282	132.431	132.582	132.621	132.661	132.781	132.901	133.170	133.440	133.230
75.0	131.123	131.363	131.603	131.742	131.882	131.923	131.962	132.092	132.222	132.341
77.5	132.381	132.421	132.461	132.302	132.142	132.252	132.362	132.162	131.962	132.217

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CANDELA TABULATION - (Cont.)

80.0	133.639	133.480	133.320	132.861	132.401	132.582	132.761	132.232	131.702	132.092
82.5	131.862	131.628	131.393	131.318	131.243	131.123	131.003	130.799	130.594	130.973
85.0	130.085	129.775	129.466	129.775	130.085	129.665	129.246	129.366	129.486	129.855
87.5	128.917	128.882	128.847	128.832	128.817	128.782	128.747	128.727	128.707	128.832
90.0	127.748	127.988	128.228	127.888	127.549	127.898	128.247	128.088	127.928	127.808
92.5	127.039	127.394	127.748	127.673	127.599	127.533	127.469	127.583	127.698	127.528
95.0	126.330	126.800	127.269	127.459	127.648	127.169	126.690	127.080	127.469	127.249
97.5	126.451	126.819	127.189	127.434	127.678	127.349	127.020	126.805	126.590	126.970
100.0	126.570	126.840	127.109	127.409	127.708	127.528	127.349	126.530	125.711	126.690
102.5	124.364	124.399	124.433	125.033	125.632	125.337	125.042	124.943	124.843	125.072
105.0	122.157	121.957	121.757	122.656	123.555	123.146	122.736	123.355	123.974	123.455
107.5	121.877	121.283	120.689	121.278	121.867	121.578	121.288	121.633	121.977	121.907
110.0	121.597	120.609	119.620	119.900	120.180	120.010	119.840	119.911	119.980	120.359
112.5	120.399	120.020	119.641	119.735	119.831	119.406	118.982	119.311	119.641	119.506
115.0	119.201	119.431	119.660	119.570	119.481	118.802	118.122	118.712	119.301	118.652
117.5	118.303	118.542	118.782	119.001	119.221	118.891	118.562	118.927	119.291	118.937
120.0	117.404	117.653	117.903	118.433	118.962	118.982	119.001	119.141	119.281	119.221
122.5	114.908	115.043	115.178	115.612	116.046	115.796	115.546	115.791	116.036	115.716
125.0	112.411	112.431	112.451	112.791	113.130	112.611	112.092	112.442	112.791	112.212
127.5	110.195	110.489	110.784	110.744	110.704	110.584	110.464	110.844	111.223	110.589
130.0	107.978	108.547	109.116	108.697	108.277	108.557	108.837	109.247	109.656	108.967
132.5	105.991	106.401	106.810	106.475	106.141	106.291	106.440	107.074	107.709	106.825
135.0	104.004	104.254	104.503	104.254	104.004	104.024	104.044	104.903	105.761	104.683
137.5	103.056	103.121	103.185	103.020	102.856	102.496	102.137	103.036	103.934	103.075
140.0	102.107	101.987	101.867	101.787	101.707	100.968	100.229	101.168	102.107	101.468
142.5	99.940	100.010	100.080	100.250	100.419	100.090	99.760	100.210	100.659	100.055
145.0	97.773	98.033	98.292	98.712	99.131	99.211	99.291	99.251	99.211	98.642
147.5	95.437	95.652	95.866	95.931	95.996	95.821	95.647	96.171	96.695	95.996
150.0	93.100	93.270	93.440	93.150	92.861	92.431	92.002	93.090	94.179	93.350
152.5	90.294	90.589	90.884	90.674	90.464	90.539	90.615	90.819	91.024	90.744
155.0	87.489	87.909	88.327	88.198	88.068	88.647	89.226	88.547	87.868	88.138
157.5	85.692	85.621	85.552	85.717	85.882	85.996	86.111	86.006	85.901	85.717
160.0	83.894	83.335	82.775	83.235	83.695	83.345	82.995	83.465	83.934	83.295
162.5	81.458	81.243	81.028	81.618	82.207	81.778	81.348	81.748	82.147	81.388
165.0	79.021	79.152	79.281	80.000	80.719	80.210	79.701	80.030	80.360	79.481
167.5	78.542	78.916	79.291	79.296	79.301	79.152	79.002	79.072	79.141	78.897
170.0	78.063	78.682	79.301	78.592	77.883	78.093	78.303	78.113	77.923	78.312
172.5	78.193	78.347	78.502	78.308	78.113	77.908	77.704	77.748	77.793	78.118
175.0	78.322	78.013	77.704	78.023	78.342	77.724	77.105	77.384	77.663	77.923
177.5	77.194	77.050	76.905	77.524	78.143	77.459	76.775	76.999	77.224	77.358
180.0	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540

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	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927
2.5	142.686	142.946	143.205	143.135	143.065	143.075	143.086	143.190	143.295	143.190
5.0	143.445	143.964	144.483	144.344	144.204	144.224	144.243	144.454	144.663	144.454
7.5	142.526	142.990	143.454	143.065	142.676	142.616	142.556	142.551	142.546	142.551
10.0	141.608	142.017	142.426	141.787	141.148	141.009	140.869	140.649	140.429	140.649
12.5	140.769	141.018	141.268	141.128	140.988	140.859	140.729	140.883	141.039	140.883
15.0	139.930	140.020	140.110	140.469	140.828	140.709	140.589	141.119	141.647	141.119
17.5	139.601	139.481	139.361	139.620	139.880	140.005	140.130	140.639	141.148	140.639
20.0	139.271	138.942	138.612	138.772	138.932	139.301	139.671	140.160	140.649	140.160
22.5	139.301	139.571	139.840	139.526	139.211	139.735	140.260	140.545	140.829	140.545
25.0	139.331	140.200	141.068	140.279	139.490	140.169	140.849	140.929	141.009	140.929

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CANDELA TABULATION - (Cont.)

27.5	139.251	139.431	139.611	139.561	139.511	140.000	140.490	140.549	140.609	140.549
30.0	139.171	138.662	138.153	138.842	139.531	139.831	140.130	140.170	140.210	140.170
32.5	140.369	139.945	139.521	139.735	139.950	140.639	141.328	140.899	140.469	140.899
35.0	141.567	141.228	140.888	140.629	140.369	141.448	142.526	141.628	140.729	141.628
37.5	139.850	139.800	139.751	139.945	140.140	140.454	140.769	140.220	139.671	140.220
40.0	138.133	138.373	138.612	139.261	139.910	139.461	139.012	138.812	138.612	138.812
42.5	138.093	138.497	138.902	139.147	139.391	139.461	139.531	139.321	139.112	139.321
45.0	138.053	138.622	139.191	139.032	138.872	139.461	140.050	139.831	139.611	139.831
47.5	137.344	137.873	138.403	138.298	138.193	138.243	138.293	138.098	137.903	138.098
50.0	136.635	137.125	137.614	137.564	137.514	137.024	136.535	136.365	136.196	136.365
52.5	137.034	137.354	137.674	137.524	137.374	137.514	137.653	137.449	137.244	137.449
55.0	137.433	137.584	137.733	137.484	137.234	138.003	138.772	138.532	138.292	138.532
57.5	138.252	138.378	138.502	138.273	138.043	138.842	139.641	139.411	139.181	139.411
60.0	139.071	139.172	139.271	139.062	138.852	139.680	140.509	140.290	140.070	140.290
62.5	137.464	137.349	137.234	137.154	137.074	137.479	137.883	137.499	137.115	137.499
65.0	135.856	135.527	135.197	135.247	135.297	135.277	135.257	134.708	134.159	134.708
67.5	134.718	134.593	134.469	134.428	134.389	134.778	135.167	134.673	134.179	134.673
70.0	133.579	133.659	133.739	133.610	133.480	134.279	135.077	134.638	134.199	134.638
72.5	133.021	132.646	132.272	132.257	132.242	133.011	133.780	133.495	133.211	133.495
75.0	132.461	131.632	130.804	130.904	131.003	131.742	132.481	132.352	132.222	132.352
77.5	132.472	132.252	132.032	132.062	132.092	132.346	132.601	132.431	132.261	132.431
80.0	132.481	132.871	133.260	133.220	133.180	132.950	132.721	132.511	132.301	132.511
82.5	131.353	131.163	130.973	131.333	131.692	131.593	131.493	131.223	130.953	131.223
85.0	130.225	129.456	128.687	129.446	130.205	130.235	130.264	129.935	129.606	129.935
87.5	128.957	128.892	128.827	129.162	129.496	129.580	129.665	129.096	128.527	129.096
90.0	127.689	128.328	128.967	128.877	128.787	128.926	129.066	128.258	127.448	128.258
92.5	127.359	127.963	128.567	128.423	128.278	127.963	127.649	127.339	127.030	127.339
95.0	127.030	127.599	128.168	127.968	127.769	127.000	126.231	126.421	126.610	126.421
97.5	127.349	127.659	127.968	127.464	126.960	126.800	126.640	126.815	126.990	126.815
100.0	127.668	127.718	127.769	126.960	126.151	126.600	127.049	127.209	127.369	127.209
102.5	125.302	125.417	125.532	125.078	124.623	124.763	124.902	125.127	125.352	125.127
105.0	122.935	123.116	123.295	123.196	123.095	122.926	122.756	123.045	123.335	123.045
107.5	121.837	121.987	122.137	121.972	121.807	121.652	121.498	121.583	121.668	121.583
110.0	120.739	120.859	120.979	120.749	120.519	120.380	120.240	120.120	120.000	120.120
112.5	119.371	119.790	120.210	120.190	120.170	120.115	120.060	120.075	120.090	120.075
115.0	118.003	118.722	119.441	119.631	119.820	119.850	119.880	120.030	120.180	120.030
117.5	118.582	118.812	119.042	119.106	119.171	118.882	118.592	118.867	119.142	118.867
120.0	119.161	118.902	118.642	118.582	118.522	117.913	117.304	117.704	118.103	117.704
122.5	115.397	115.576	115.757	115.606	115.457	114.988	114.518	115.073	115.626	115.073
125.0	111.632	112.252	112.870	112.631	112.392	112.062	111.732	112.441	113.150	112.441
127.5	109.955	110.090	110.225	110.220	110.215	110.329	110.444	110.894	111.343	110.894
130.0	108.277	107.928	107.579	107.808	108.038	108.597	109.156	109.346	109.535	109.346
132.5	105.941	106.245	106.550	106.585	106.620	107.035	107.449	107.508	107.569	107.508
135.0	103.605	104.564	105.522	105.362	105.202	105.472	105.741	105.671	105.602	105.671
137.5	102.217	102.736	103.256	103.146	103.036	103.015	102.995	102.901	102.806	102.901
140.0	100.828	100.909	100.989	100.929	100.869	100.559	100.250	100.130	100.010	100.130
142.5	99.451	99.501	99.551	99.341	99.131	99.127	99.122	99.271	99.421	99.271
145.0	98.073	98.093	98.113	97.754	97.394	97.694	97.993	98.413	98.831	98.413
147.5	95.297	95.232	95.167	95.112	95.057	95.332	95.607	95.512	95.417	95.512
150.0	92.521	92.371	92.222	92.472	92.721	92.971	93.220	92.612	92.002	92.612
152.5	90.464	90.360	90.255	90.469	90.684	90.634	90.585	90.400	90.215	90.400
155.0	88.407	88.348	88.288	88.467	88.647	88.297	87.948	88.188	88.428	88.188
157.5	85.532	85.827	86.121	86.086	86.051	85.856	85.662	85.566	85.472	85.566
160.0	82.656	83.305	83.954	83.704	83.455	83.415	83.375	82.945	82.516	82.945
162.5	80.629	81.243	81.858	81.638	81.418	81.218	81.018	80.938	80.858	80.938
165.0	78.602	79.182	79.760	79.570	79.381	79.021	78.662	78.932	79.201	78.932

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CANDELA TABULATION - (Cont.)

167.5	78.652	78.782	78.912	78.827	78.742	78.502	78.262	78.367	78.472	78.367
170.0	78.702	78.383	78.063	78.083	78.103	77.983	77.863	77.803	77.743	77.803
172.5	78.443	78.103	77.763	78.048	78.333	78.312	78.292	77.793	77.294	77.793
175.0	78.182	77.823	77.464	78.013	78.562	78.642	78.722	77.784	76.845	77.784
177.5	77.493	77.569	77.644	77.743	77.843	77.923	78.003	77.608	77.214	77.608
180.0	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540

Vert. Angles	Horizontal Angles									
	275.0	277.5	280.0	282.5	285.0	287.5	290.0	292.5	295.0	297.5
0.0	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927
2.5	143.086	143.075	143.065	143.135	143.205	142.946	142.686	142.516	142.347	142.866
5.0	144.243	144.224	144.204	144.344	144.483	143.964	143.445	143.105	142.766	143.804
7.5	142.556	142.616	142.676	143.065	143.454	142.990	142.526	142.092	141.658	142.227
10.0	140.869	141.009	141.148	141.787	142.426	142.017	141.608	141.079	140.549	140.650
12.5	140.729	140.859	140.988	141.128	141.268	141.018	140.769	140.529	140.290	140.584
15.0	140.589	140.709	140.828	140.469	140.110	140.020	139.930	139.980	140.030	140.519
17.5	140.130	140.005	139.880	139.620	139.361	139.481	139.601	139.671	139.740	139.920
20.0	139.671	139.301	138.932	138.772	138.612	138.942	139.271	139.361	139.451	139.321
22.5	140.260	139.735	139.211	139.526	139.840	139.571	139.301	139.751	140.200	139.655
25.0	140.849	140.169	139.490	140.279	141.068	140.200	139.331	140.140	140.949	139.990
27.5	140.490	140.000	139.511	139.561	139.611	139.431	139.251	139.905	140.559	139.586
30.0	140.130	139.831	139.531	138.842	138.153	138.662	139.171	139.671	140.169	139.181
32.5	141.328	140.639	139.950	139.735	139.521	139.945	140.369	140.439	140.509	140.405
35.0	142.526	141.448	140.369	140.629	140.888	141.228	141.567	141.208	140.849	141.628
37.5	140.769	140.454	140.140	139.945	139.751	139.800	139.850	139.751	139.650	140.464
40.0	139.012	139.461	139.910	139.261	138.612	138.373	138.133	138.293	138.452	139.301
42.5	139.531	139.461	139.391	139.147	138.902	138.497	138.093	138.667	139.241	139.321
45.0	140.050	139.461	138.872	139.032	139.191	138.622	138.053	139.042	140.030	139.341
47.5	138.293	138.243	138.193	138.298	138.403	137.873	137.344	138.013	138.682	138.467
50.0	136.535	137.024	137.514	137.564	137.614	137.125	136.635	136.985	137.334	137.594
52.5	137.653	137.514	137.374	137.524	137.674	137.354	137.034	137.224	137.414	137.898
55.0	138.772	138.003	137.234	137.484	137.733	137.584	137.433	137.463	137.493	138.202
57.5	139.641	138.842	138.043	138.273	138.502	138.378	138.252	138.702	139.151	139.366
60.0	140.509	139.680	138.852	139.062	139.271	139.172	139.071	139.941	140.809	140.529
62.5	137.883	137.479	137.074	137.154	137.234	137.349	137.464	137.514	137.564	137.494
65.0	135.257	135.277	135.297	135.247	135.197	135.527	135.856	135.087	134.318	134.458
67.5	135.167	134.778	134.389	134.428	134.469	134.593	134.718	134.603	134.488	134.353
70.0	135.077	134.279	133.480	133.610	133.739	133.659	133.579	134.119	134.658	134.249
72.5	133.780	133.011	132.242	132.257	132.272	132.646	133.021	133.230	133.440	133.170
75.0	132.481	131.742	131.003	130.904	130.804	131.632	132.461	132.341	132.222	132.092
77.5	132.601	132.346	132.092	132.062	132.032	132.252	132.472	132.217	131.962	132.162
80.0	132.721	132.950	133.180	133.220	133.260	132.871	132.481	132.092	131.702	132.232
82.5	131.493	131.593	131.692	131.333	130.973	131.163	131.353	130.973	130.594	130.799
85.0	130.264	130.235	130.205	129.446	128.687	129.456	130.225	129.855	129.486	129.366
87.5	129.665	129.580	129.496	129.162	128.827	128.892	128.957	128.832	128.707	128.727
90.0	129.066	128.926	128.787	128.877	128.967	128.328	127.689	127.808	127.928	128.088
92.5	127.649	127.963	128.278	128.423	128.567	127.963	127.359	127.528	127.698	127.583
95.0	126.231	127.000	127.769	127.968	128.168	127.599	127.030	127.249	127.469	127.080
97.5	126.640	126.800	126.960	127.464	127.968	127.659	127.349	126.970	126.590	126.805
100.0	127.049	126.600	126.151	126.960	127.769	127.718	127.668	126.690	125.711	126.530
102.5	124.902	124.763	124.623	125.078	125.532	125.417	125.302	125.072	124.843	124.943
105.0	122.756	122.926	123.095	123.196	123.295	123.116	122.935	123.455	123.974	123.355
107.5	121.498	121.652	121.807	121.972	122.137	121.987	121.837	121.907	121.977	121.633
110.0	120.240	120.380	120.519	120.749	120.979	120.859	120.739	120.359	119.980	119.911
112.5	120.060	120.115	120.170	120.190	120.210	119.790	119.371	119.506	119.641	119.311

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CANDELA TABULATION - (Cont.)

115.0	119.880	119.850	119.820	119.631	119.441	118.722	118.003	118.652	119.301	118.712
117.5	118.592	118.882	119.171	119.106	119.042	118.812	118.582	118.937	119.291	118.927
120.0	117.304	117.913	118.522	118.582	118.642	118.902	119.161	119.221	119.281	119.141
122.5	114.518	114.988	115.457	115.606	115.757	115.576	115.397	115.716	116.036	115.791
125.0	111.732	112.062	112.392	112.631	112.870	112.252	111.632	112.212	112.791	112.442
127.5	110.444	110.329	110.215	110.220	110.225	110.090	109.955	110.589	111.223	110.844
130.0	109.156	108.597	108.038	107.808	107.579	107.928	108.277	108.967	109.656	109.247
132.5	107.449	107.035	106.620	106.585	106.550	106.245	105.941	106.825	107.709	107.074
135.0	105.741	105.472	105.202	105.362	105.522	104.564	103.605	104.683	105.761	104.903
137.5	102.995	103.015	103.036	103.146	103.256	102.736	102.217	103.075	103.934	103.036
140.0	100.250	100.559	100.869	100.929	100.989	100.909	100.828	101.468	102.107	101.168
142.5	99.122	99.127	99.131	99.341	99.551	99.501	99.451	100.055	100.659	100.210
145.0	97.993	97.694	97.394	97.754	98.113	98.093	98.073	98.642	99.211	99.251
147.5	95.607	95.332	95.057	95.112	95.167	95.232	95.297	95.996	96.695	96.171
150.0	93.220	92.971	92.721	92.472	92.222	92.371	92.521	93.350	94.179	93.090
152.5	90.585	90.634	90.684	90.469	90.255	90.360	90.464	90.744	91.024	90.819
155.0	87.948	88.297	88.647	88.467	88.288	88.348	88.407	88.138	87.868	88.547
157.5	85.662	85.856	86.051	86.086	86.121	85.827	85.532	85.717	85.901	86.006
160.0	83.375	83.415	83.455	83.704	83.954	83.305	82.656	83.295	83.934	83.465
162.5	81.018	81.218	81.418	81.638	81.858	81.243	80.629	81.388	82.147	81.748
165.0	78.662	79.021	79.381	79.570	79.760	79.182	78.602	79.481	80.360	80.030
167.5	78.262	78.502	78.742	78.827	78.912	78.782	78.652	78.897	79.141	79.072
170.0	77.863	77.983	78.103	78.083	78.063	78.383	78.702	78.312	77.923	78.113
172.5	78.292	78.312	78.333	78.048	77.763	78.103	78.443	78.118	77.793	77.748
175.0	78.722	78.642	78.562	78.013	77.464	77.823	78.182	77.923	77.663	77.384
177.5	78.003	77.923	77.843	77.743	77.644	77.569	77.493	77.358	77.224	76.999
180.0	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540

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	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927
2.5	143.385	142.916	142.446	142.436	142.427	142.816	143.205	142.995	142.786	142.591
5.0	144.843	143.904	142.965	142.946	142.926	143.704	144.483	144.064	143.644	143.255
7.5	142.796	142.741	142.686	142.381	142.077	142.800	143.525	143.085	142.646	142.686
10.0	140.749	141.578	142.407	141.817	141.228	141.897	142.566	142.107	141.647	142.117
12.5	140.879	141.054	141.228	141.064	140.899	141.418	141.937	141.427	140.919	141.228
15.0	141.009	140.529	140.050	140.309	140.569	140.938	141.308	140.749	140.190	140.339
17.5	140.100	139.785	139.471	139.675	139.880	140.245	140.609	140.155	139.700	139.666
20.0	139.191	139.042	138.891	139.042	139.191	139.551	139.910	139.561	139.211	138.991
22.5	139.111	139.036	138.962	139.236	139.511	139.545	139.581	139.471	139.361	139.625
25.0	139.031	139.031	139.031	139.430	139.830	139.540	139.251	139.381	139.511	140.260
27.5	138.612	138.836	139.061	139.196	139.331	139.106	138.881	138.847	138.812	139.177
30.0	138.193	138.642	139.091	138.962	138.831	138.672	138.512	138.312	138.113	138.093
32.5	140.300	140.435	140.569	140.410	140.249	139.840	139.431	139.641	139.850	139.650
35.0	142.407	142.227	142.047	141.858	141.668	141.009	140.350	140.969	141.588	141.208
37.5	141.279	140.809	140.339	140.169	140.000	140.015	140.030	139.995	139.960	140.125
40.0	140.150	139.391	138.632	138.482	138.332	139.021	139.710	139.021	138.332	139.042
42.5	139.401	139.311	139.221	139.097	138.972	139.266	139.561	139.081	138.602	139.057
45.0	138.652	139.231	139.810	139.711	139.611	139.511	139.411	139.142	138.872	139.071
47.5	138.252	138.143	138.033	138.337	138.642	138.527	138.413	138.472	138.532	138.642
50.0	137.853	137.054	136.255	136.965	137.674	137.544	137.414	137.804	138.193	138.213
52.5	138.383	137.863	137.344	137.279	137.214	137.284	137.354	137.504	137.653	137.738
55.0	138.911	138.672	138.432	137.594	136.755	137.024	137.294	137.204	137.114	137.264
57.5	139.581	139.166	138.752	138.293	137.834	138.278	138.722	138.312	137.903	138.273
60.0	140.249	139.661	139.071	138.991	138.911	139.531	140.150	139.421	138.692	139.281

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CANDELA TABULATION - (Cont.)

62.5	137.424	137.369	137.315	137.019	136.725	137.319	137.914	137.639	137.364	137.214
65.0	134.598	135.077	135.557	135.048	134.538	135.107	135.677	135.856	136.036	135.147
67.5	134.219	134.359	134.499	134.274	134.049	134.304	134.558	134.583	134.608	134.144
70.0	133.839	133.639	133.439	133.500	133.560	133.500	133.439	133.310	133.180	133.140
72.5	132.901	132.781	132.661	132.621	132.582	132.431	132.282	132.416	132.551	132.481
75.0	131.962	131.923	131.882	131.742	131.603	131.363	131.123	131.522	131.922	131.822
77.5	132.362	132.252	132.142	132.302	132.461	132.421	132.381	132.117	131.852	131.777
80.0	132.761	132.582	132.401	132.861	133.320	133.480	133.639	132.711	131.782	131.733
82.5	131.003	131.123	131.243	131.318	131.393	131.628	131.862	131.557	131.253	131.168
85.0	129.246	129.665	130.085	129.775	129.466	129.775	130.085	130.404	130.724	130.604
87.5	128.747	128.782	128.817	128.832	128.847	128.882	128.917	128.981	129.047	129.151
90.0	128.247	127.898	127.549	127.888	128.228	127.988	127.748	127.559	127.369	127.699
92.5	127.469	127.533	127.599	127.673	127.748	127.394	127.039	127.025	127.009	127.354
95.0	126.690	127.169	127.648	127.459	127.269	126.800	126.330	126.490	126.650	127.009
97.5	127.020	127.349	127.678	127.434	127.189	126.819	126.451	126.785	127.119	127.329
100.0	127.349	127.528	127.708	127.409	127.109	126.840	126.570	127.080	127.588	127.648
102.5	125.042	125.337	125.632	125.033	124.433	124.399	124.364	124.683	125.003	125.008
105.0	122.736	123.146	123.555	122.656	121.757	121.957	122.157	122.287	122.416	122.366
107.5	121.288	121.578	121.867	121.278	120.689	121.283	121.877	121.982	122.087	121.503
110.0	119.840	120.010	120.180	119.900	119.620	120.609	121.597	121.677	121.757	120.639
112.5	118.982	119.406	119.831	119.735	119.641	120.020	120.399	120.469	120.539	120.075
115.0	118.122	118.802	119.481	119.570	119.660	119.431	119.201	119.261	119.321	119.511
117.5	118.562	118.891	119.221	119.001	118.782	118.542	118.303	118.322	118.342	118.822
120.0	119.001	118.982	118.962	118.433	117.903	117.653	117.404	117.384	117.364	118.133
122.5	115.546	115.796	116.046	115.612	115.178	115.043	114.908	115.132	115.357	115.417
125.0	112.092	112.611	113.130	112.791	112.451	112.431	112.411	112.881	113.350	112.701
127.5	110.464	110.584	110.704	110.744	110.784	110.489	110.195	110.539	110.884	110.509
130.0	108.837	108.557	108.277	108.697	109.116	108.547	107.978	108.198	108.417	108.318
132.5	106.440	106.291	106.141	106.475	106.810	106.401	105.991	106.440	106.890	106.730
135.0	104.044	104.024	104.004	104.254	104.503	104.254	104.004	104.683	105.362	105.143
137.5	102.137	102.496	102.856	103.020	103.185	103.121	103.056	103.270	103.485	103.075
140.0	100.229	100.968	101.707	101.787	101.867	101.987	102.107	101.858	101.608	101.009
142.5	99.760	100.090	100.419	100.250	100.080	100.010	99.940	99.790	99.641	99.561
145.0	99.291	99.211	99.131	98.712	98.292	98.033	97.773	97.724	97.674	98.113
147.5	95.647	95.821	95.996	95.931	95.866	95.652	95.437	95.702	95.966	95.931
150.0	92.002	92.431	92.861	93.150	93.440	93.270	93.100	93.680	94.259	93.749
152.5	90.615	90.539	90.464	90.674	90.884	90.589	90.294	91.029	91.763	91.582
155.0	89.226	88.647	88.068	88.198	88.327	87.909	87.489	88.377	89.266	89.416
157.5	86.111	85.996	85.882	85.717	85.552	85.621	85.692	86.156	86.620	86.510
160.0	82.995	83.345	83.695	83.235	82.775	83.335	83.894	83.934	83.974	83.605
162.5	81.348	81.778	82.207	81.618	81.028	81.243	81.458	81.682	81.907	81.423
165.0	79.701	80.210	80.719	80.000	79.281	79.152	79.021	79.431	79.840	79.241
167.5	79.002	79.152	79.301	79.296	79.291	78.916	78.542	79.106	79.671	78.967
170.0	78.303	78.093	77.883	78.592	79.301	78.682	78.063	78.782	79.501	78.692
172.5	77.704	77.908	78.113	78.308	78.502	78.347	78.193	78.407	78.622	78.163
175.0	77.105	77.724	78.342	78.023	77.704	78.013	78.322	78.033	77.743	77.633
177.5	76.775	77.459	78.143	77.524	76.905	77.050	77.194	77.439	77.683	77.573
180.0	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540

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	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927	141.927
2.5	142.397	142.402	142.407	142.396	142.386	142.352	142.317	142.436	142.556	142.875
5.0	142.866	142.875	142.885	142.866	142.846	142.776	142.706	142.946	143.185	143.825
7.5	142.726	142.196	141.668	141.952	142.237	142.426	142.616	142.676	142.736	142.721

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CANDELA TABULATION - (Cont.)

10.0	142.586	141.518	140.449	141.039	141.627	142.077	142.526	142.407	142.286	141.617
12.5	141.537	141.308	141.078	141.253	141.427	141.712	141.997	142.032	142.067	141.313
15.0	140.489	141.098	141.707	141.468	141.228	141.348	141.468	141.658	141.847	141.009
17.5	139.630	140.140	140.649	140.624	140.599	140.374	140.150	140.339	140.529	140.245
20.0	138.772	139.181	139.591	139.780	139.970	139.401	138.831	139.021	139.211	139.481
22.5	139.890	139.675	139.461	139.730	140.000	139.665	139.331	139.231	139.131	139.526
25.0	141.009	140.170	139.331	139.680	140.030	139.930	139.830	139.441	139.051	139.570
27.5	139.541	139.381	139.221	139.331	139.441	139.296	139.151	139.156	139.161	139.471
30.0	138.073	138.592	139.111	138.982	138.852	138.662	138.472	138.872	139.271	139.371
32.5	139.451	139.785	140.120	140.344	140.569	140.300	140.030	140.315	140.599	140.389
35.0	140.828	140.979	141.128	141.707	142.286	141.937	141.588	141.757	141.927	141.408
37.5	140.290	140.095	139.900	140.015	140.130	140.414	140.699	140.799	140.899	140.674
40.0	139.751	139.211	138.672	138.323	137.973	138.892	139.810	139.840	139.870	139.941
42.5	139.511	139.251	138.991	138.747	138.502	139.186	139.870	139.451	139.032	139.526
45.0	139.271	139.291	139.311	139.171	139.031	139.481	139.930	139.062	138.193	139.111
47.5	138.752	138.627	138.502	138.358	138.213	138.432	138.652	138.408	138.163	138.358
50.0	138.232	137.963	137.693	137.543	137.394	137.384	137.374	137.754	138.133	137.604
52.5	137.823	137.888	137.953	137.743	137.534	137.459	137.384	137.733	138.083	137.823
55.0	137.414	137.813	138.213	137.944	137.674	137.534	137.394	137.713	138.033	138.043
57.5	138.642	138.617	138.592	138.907	139.221	139.141	139.062	138.692	138.323	138.852
60.0	139.870	139.421	138.971	139.870	140.769	140.749	140.729	139.671	138.612	139.661
62.5	137.065	136.930	136.795	137.339	137.883	138.103	138.323	137.823	137.324	137.639
65.0	134.258	134.439	134.618	134.808	134.997	135.457	135.916	135.976	136.036	135.617
67.5	133.680	134.274	134.868	134.698	134.528	134.523	134.518	134.752	134.988	134.728
70.0	133.100	134.109	135.117	134.588	134.059	133.590	133.120	133.530	133.939	133.840
72.5	132.411	133.085	133.760	133.235	132.711	132.576	132.442	132.421	132.401	132.856
75.0	131.722	132.062	132.401	131.882	131.363	131.563	131.763	131.313	130.864	131.872
77.5	131.703	132.242	132.781	132.192	131.603	132.007	132.412	132.396	132.381	132.521
80.0	131.683	132.421	133.160	132.502	131.842	132.451	133.060	133.480	133.899	133.170
82.5	131.083	131.033	130.984	130.994	131.003	131.358	131.712	131.812	131.912	131.508
85.0	130.484	129.646	128.807	129.486	130.165	130.265	130.365	130.145	129.925	129.846
87.5	129.256	128.997	128.737	128.976	129.217	129.231	129.246	128.926	128.607	128.932
90.0	128.028	128.347	128.667	128.467	128.267	128.198	128.128	127.709	127.289	128.018
92.5	127.699	127.714	127.728	127.508	127.289	127.409	127.528	127.304	127.080	127.264
95.0	127.369	127.080	126.790	126.550	126.310	126.620	126.929	126.899	126.870	126.511
97.5	127.539	127.359	127.179	126.720	126.261	126.780	127.299	127.314	127.329	126.895
100.0	127.708	127.638	127.569	126.890	126.211	126.940	127.668	127.728	127.788	127.279
102.5	125.012	125.362	125.712	124.883	124.054	124.858	125.662	125.352	125.042	124.713
105.0	122.316	123.085	123.854	122.876	121.897	122.776	123.654	122.976	122.297	122.147
107.5	120.919	121.537	122.157	121.947	121.738	121.837	121.937	121.643	121.348	121.218
110.0	119.521	119.990	120.459	121.018	121.578	120.899	120.220	120.309	120.399	120.290
112.5	119.611	119.436	119.261	119.696	120.130	119.945	119.760	119.935	120.110	119.990
115.0	119.701	118.882	118.063	118.372	118.682	118.991	119.301	119.561	119.820	119.691
117.5	119.301	118.966	118.632	118.273	117.913	118.388	118.862	119.056	119.251	119.046
120.0	118.902	119.051	119.201	118.172	117.144	117.784	118.422	118.552	118.682	118.402
122.5	115.477	115.606	115.736	115.327	114.917	115.392	115.867	115.537	115.207	115.147
125.0	112.052	112.162	112.271	112.481	112.691	113.000	113.310	112.521	111.732	111.892
127.5	110.135	110.429	110.724	110.684	110.644	110.684	110.724	110.409	110.095	110.260
130.0	108.217	108.697	109.176	108.887	108.597	108.368	108.137	108.297	108.457	108.627
132.5	106.570	106.890	107.209	107.050	106.890	106.555	106.220	106.280	106.341	106.366
135.0	104.923	105.083	105.242	105.212	105.182	104.743	104.303	104.264	104.223	104.104
137.5	102.666	103.150	103.635	103.330	103.026	102.921	102.816	102.626	102.437	102.696
140.0	100.410	101.218	102.027	101.448	100.869	101.098	101.328	100.989	100.649	101.288
142.5	99.481	99.526	99.570	99.381	99.191	99.721	100.250	100.095	99.940	100.165
145.0	98.552	97.833	97.114	97.314	97.514	98.342	99.171	99.201	99.231	99.042
147.5	95.896	95.707	95.517	95.362	95.207	95.477	95.746	95.766	95.787	95.606

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CANDELA TABULATION - (Cont.)

150.0	93.240	93.579	93.919	93.410	92.900	92.611	92.321	92.332	92.342	92.172
152.5	91.403	91.273	91.143	90.669	90.195	90.180	90.165	90.439	90.714	90.634
155.0	89.565	88.966	88.367	87.928	87.489	87.748	88.008	88.547	89.087	89.096
157.5	86.401	86.066	85.731	85.562	85.392	85.646	85.901	86.266	86.630	86.461
160.0	83.235	83.166	83.096	83.196	83.295	83.545	83.794	83.984	84.173	83.824
162.5	80.939	81.403	81.867	81.683	81.498	81.548	81.597	81.692	81.787	81.602
165.0	78.642	79.641	80.639	80.170	79.701	79.551	79.401	79.401	79.401	79.381
167.5	78.263	79.207	80.150	79.875	79.601	79.621	79.641	79.545	79.451	79.291
170.0	77.883	78.772	79.660	79.581	79.501	79.691	79.880	79.691	79.501	79.202
172.5	77.704	78.497	79.291	78.792	78.293	78.702	79.111	78.712	78.312	78.173
175.0	77.523	78.223	78.921	78.003	77.084	77.713	78.342	77.734	77.124	77.144
177.5	77.464	77.723	77.983	77.444	76.905	77.105	77.304	77.454	77.603	77.239
180.0	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540	76.540

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	141.927	141.927	141.927	141.927	141.927
2.5	143.196	142.786	142.377	142.886	143.395
5.0	144.463	143.644	142.825	143.844	144.863
7.5	142.706	142.317	141.927	142.521	143.116
10.0	140.949	140.988	141.028	141.198	141.368
12.5	140.559	140.779	140.998	141.303	141.608
15.0	140.169	140.569	140.968	141.408	141.847
17.5	139.960	139.995	140.030	140.100	140.169
20.0	139.751	139.421	139.091	138.792	138.492
22.5	139.920	139.940	139.960	139.401	138.842
25.0	140.089	140.459	140.828	140.010	139.191
27.5	139.780	139.980	140.180	139.855	139.531
30.0	139.471	139.501	139.531	139.700	139.870
32.5	140.180	140.045	139.910	140.444	140.979
35.0	140.888	140.589	140.289	141.188	142.086
37.5	140.449	139.980	139.511	140.075	140.639
40.0	140.010	139.371	138.732	138.962	139.191
42.5	140.020	139.581	139.142	139.226	139.311
45.0	140.030	139.790	139.551	139.491	139.430
47.5	138.552	138.403	138.253	138.298	138.342
50.0	137.074	137.015	136.955	137.104	137.254
52.5	137.564	137.229	136.895	136.994	137.095
55.0	138.053	137.444	136.834	136.884	136.935
57.5	139.381	138.627	137.873	138.053	138.233
60.0	140.709	139.810	138.911	139.221	139.531
62.5	137.953	137.369	136.785	136.999	137.214
65.0	135.197	134.928	134.658	134.778	134.897
67.5	134.469	134.194	133.919	134.334	134.748
70.0	133.739	133.460	133.180	133.889	134.598
72.5	133.310	133.025	132.741	132.966	133.190
75.0	132.881	132.591	132.301	132.042	131.782
77.5	132.661	132.616	132.571	132.337	132.102
80.0	132.441	132.641	132.840	132.631	132.421
82.5	131.104	131.108	131.113	131.263	131.413
85.0	129.766	129.576	129.386	129.895	130.404
87.5	129.256	128.956	128.657	129.221	129.786
90.0	128.747	128.338	127.928	128.547	129.166
92.5	127.449	127.668	127.888	127.908	127.929
95.0	126.151	127.000	127.848	127.269	126.690

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CANDELA TABULATION - (Cont.)

97.5	126.460	127.005	127.549	127.214	126.880
100.0	126.770	127.009	127.249	127.159	127.069
102.5	124.383	124.618	124.852	124.972	125.092
105.0	121.997	122.226	122.456	122.786	123.115
107.5	121.089	121.533	121.977	121.817	121.657
110.0	120.180	120.839	121.498	120.849	120.199
112.5	119.870	119.806	119.741	119.466	119.191
115.0	119.561	118.772	117.983	118.083	118.183
117.5	118.842	118.542	118.243	117.963	117.684
120.0	118.122	118.312	118.502	117.843	117.184
122.5	115.087	115.382	115.677	115.112	114.549
125.0	112.052	112.451	112.851	112.382	111.912
127.5	110.425	110.340	110.255	110.355	110.454
130.0	108.797	108.228	107.659	108.328	108.997
132.5	106.391	106.311	106.231	106.506	106.780
135.0	103.984	104.394	104.803	104.683	104.563
137.5	102.956	102.871	102.786	102.761	102.736
140.0	101.927	101.348	100.769	100.839	100.909
142.5	100.389	100.130	99.870	99.566	99.262
145.0	98.852	98.912	98.971	98.293	97.614
147.5	95.427	95.911	96.395	95.846	95.297
150.0	92.002	92.911	93.819	93.400	92.980
152.5	90.554	90.909	91.263	91.148	91.033
155.0	89.106	88.906	88.707	88.897	89.087
157.5	86.291	86.076	85.861	85.802	85.742
160.0	83.475	83.245	83.015	82.706	82.396
162.5	81.418	81.443	81.468	81.473	81.478
165.0	79.361	79.641	79.920	80.240	80.559
167.5	79.131	79.221	79.311	79.745	80.180
170.0	78.902	78.802	78.702	79.251	79.800
172.5	78.033	77.903	77.774	78.248	78.722
175.0	77.164	77.005	76.845	77.244	77.644
177.5	76.875	77.084	77.294	77.339	77.384
180.0	76.540	76.540	76.540	76.540	76.540

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	53.43	2.70	3.40
0-30	118.02	5.90	7.60
0-40	206.10	10.30	13.20
0-60	437.46	21.90	28.10
0-80	712.57	35.70	45.70
0-90	854.55	42.80	54.90
10-90	840.94	42.10	54.00
20-40	152.66	7.60	9.80
20-50	260.11	13.00	16.70
40-70	366.26	18.30	23.50
60-80	275.11	13.80	17.70
70-80	140.21	7.00	9.00
80-90	141.99	7.10	9.10
90-110	269.42	13.50	17.30
90-120	387.84	19.40	24.90
90-130	489.26	24.50	31.40
90-150	631.98	31.60	40.60
90-180	703.29	35.20	45.10
110-180	433.87	21.70	27.90
0-180	1557.84	78.00	100.00

Total Luminaire Efficiency = 78.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	13.61
10-20	39.82
20-30	64.59
30-40	88.08
40-50	107.44
50-60	123.92
60-70	134.90
70-80	140.21
80-90	141.99
90-100	138.93
100-110	130.49
110-120	118.42
120-130	101.42
130-140	81.24
140-150	61.49
150-160	41.02
160-170	22.83
170-180	7.45

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	84	84	84	84	78	78	78	78	67	67	67	57	57	57	47	47	47	43
1	74	69	64	60	68	64	60	56	54	51	48	45	42	40	36	35	33	29
2	66	58	52	47	60	54	48	44	45	41	37	37	34	31	30	28	25	22
3	59	50	43	38	54	46	40	35	39	34	30	32	28	25	26	23	20	17
4	54	44	36	31	49	40	34	29	34	29	25	28	24	21	22	19	17	14
5	49	39	31	26	45	36	29	24	30	25	21	25	21	17	20	17	14	11
6	45	34	27	22	41	32	25	21	27	22	18	22	18	15	18	15	12	10
7	42	31	24	19	38	29	22	18	24	19	15	20	16	13	16	13	10	8
8	38	28	21	17	35	26	20	16	22	17	13	18	14	11	15	12	9	7
9	36	25	19	15	33	24	18	14	20	15	12	17	13	10	14	10	8	6
10	33	23	17	13	31	22	16	12	18	14	11	15	12	9	13	10	7	6

IES INDOOR REPORT
PHOTOMETRIC FILENAME : F07A45.IES

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

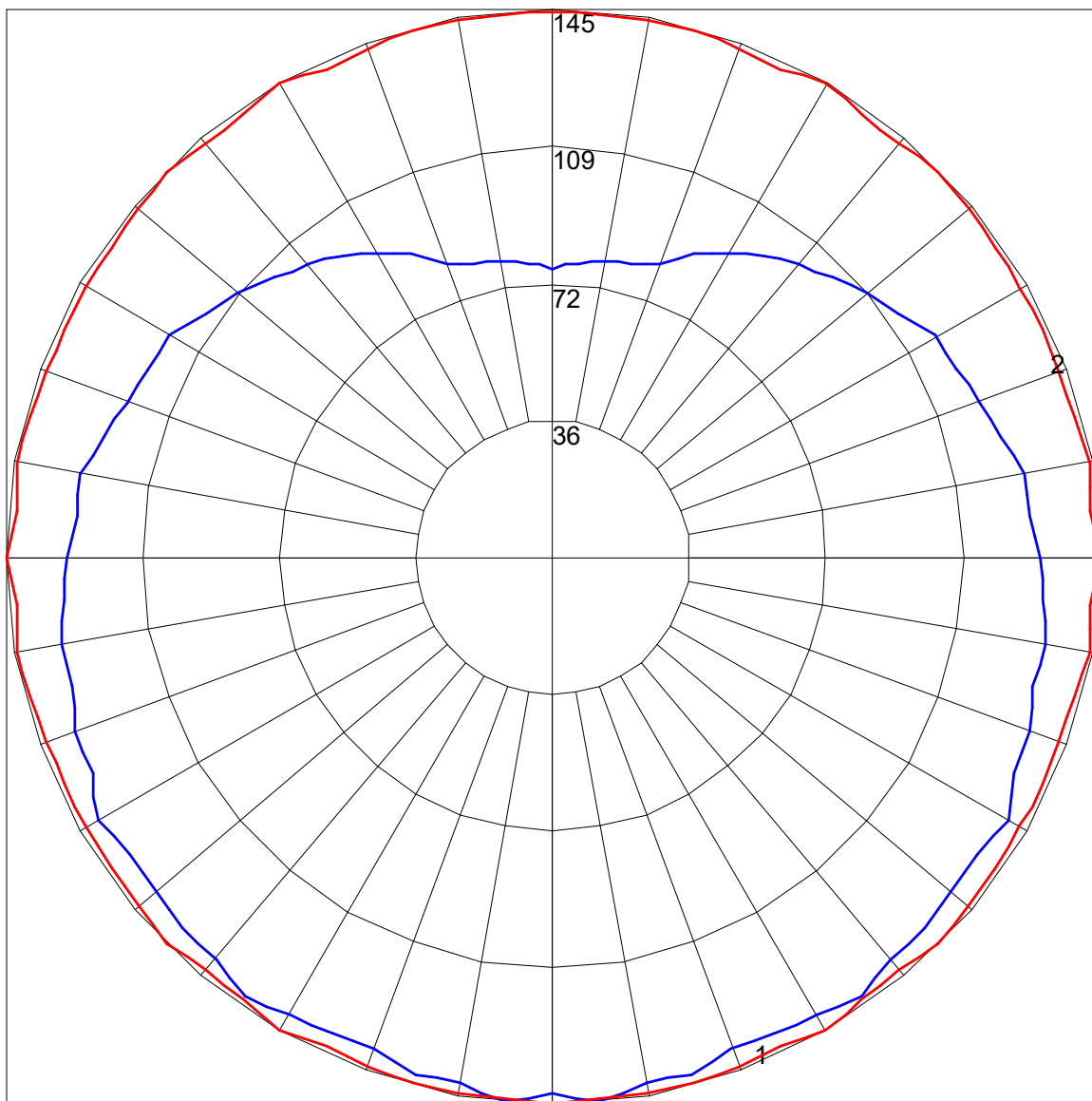
X=2H	Y=2H	10.8	11.9	11.7	12.8	14.0	10.8	11.9	11.7	12.8	14.0
	3H	14.2	15.2	15.1	16.1	17.3	14.2	15.2	15.1	16.1	17.3
	4H	16.0	17.0	16.9	17.9	19.1	16.0	16.9	16.9	17.9	19.1
	6H	18.1	18.9	19.0	19.9	21.1	18.1	18.9	19.0	19.9	21.1
	8H	19.2	20.0	20.1	21.0	22.2	19.2	20.0	20.1	21.0	22.2
	12H	20.4	21.2	21.4	22.2	23.4	20.4	21.2	21.4	22.2	23.4

UGR Viewed Endwise

4H	2H	11.8	12.8	12.7	13.7	14.9	11.8	12.7	12.7	13.7	14.9
	3H	15.5	16.3	16.4	17.2	18.5	15.4	16.2	16.4	17.2	18.4
	4H	17.4	18.2	18.4	19.1	20.4	17.4	18.2	18.3	19.1	20.4
	6H	19.7	20.3	20.6	21.3	22.6	19.7	20.3	20.6	21.3	22.6
	8H	20.9	21.5	21.8	22.5	23.8	20.9	21.5	21.8	22.5	23.7
	12H	22.2	22.8	23.2	23.8	25.1	22.2	22.8	23.2	23.8	25.1
8H	4H	18.2	18.9	19.2	19.8	21.1	18.2	18.8	19.2	19.8	21.1
	6H	20.7	21.3	21.7	22.3	23.5	20.7	21.3	21.7	22.3	23.5
	8H	22.1	22.6	23.1	23.6	24.9	22.1	22.6	23.1	23.6	24.9
	12H	23.7	24.2	24.7	25.2	26.5	23.7	24.1	24.7	25.1	26.5
12H	4H	18.5	19.0	19.4	20.0	21.3	18.4	19.0	19.4	20.0	21.3
	6H	21.1	21.6	22.0	22.6	23.9	21.1	21.5	22.0	22.5	23.9
	8H	22.6	23.0	23.6	24.0	25.3	22.6	23.0	23.6	24.0	25.3

Maximum UGR = 26.5

POLAR GRAPH



Maximum Candela = 144.863 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)