



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCNL48LFA50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]1410211019-002-001
[TESTLAB]Intertek
[ISSUE DATE]10/27/2014
[MANUFACTURER]LAMAR LIGHTING CO., INC.
[LUMEN CATEGORY]MCNL48LFA50
[MORE]LOW POWER SETTING (OUTPUT 620MA)
[LUMINAIRE]SURFACE MOUNT
[LAMP]LED
[LAMP CATEGORY]NA. LUMINAIRE OUTPUT = 2774 LMS
[OTHER]120.03 VAC, 204.54 mA, 24.349 W, 0.9918 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2774
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	24.3
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	2.04
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	0.54 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6542	4602	2207
55	7865	4995	1758
65	9972	5550	1308
75	14453	6692	914
85	33946	10932	352

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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	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382
2.5	660.658	660.471	660.284	660.099	659.914	659.731	659.550	658.241	657.722	657.163
5.0	684.268	683.916	683.564	683.215	682.868	681.286	680.403	679.429	678.364	677.212
7.5	709.110	708.593	708.078	707.565	705.740	704.498	703.102	701.555	699.860	698.023
10.0	732.274	731.638	731.005	729.393	728.003	726.401	724.591	722.577	720.363	717.956
12.5	755.884	755.098	754.316	752.214	750.416	748.300	745.991	743.377	740.509	737.394
15.0	778.376	777.443	776.516	773.971	771.801	769.291	766.452	763.293	759.828	756.070
17.5	798.854	797.827	795.973	793.916	791.454	788.594	785.348	781.727	777.747	773.426
20.0	820.227	819.011	816.734	814.210	811.188	807.686	803.729	799.340	794.534	789.379
22.5	840.369	838.914	836.216	833.275	829.753	825.699	821.147	816.133	810.695	804.613
25.0	856.818	855.162	852.259	849.074	845.320	841.030	836.244	831.004	824.938	818.235
27.5	872.037	870.000	866.562	862.854	858.577	853.794	848.567	843.156	837.108	830.394
30.0	884.458	882.448	878.891	874.934	870.208	864.755	860.025	854.539	848.248	841.149
32.5	897.102	894.555	890.179	885.551	880.451	876.682	871.554	865.380	858.943	850.236
35.0	907.397	903.808	899.284	894.205	891.528	887.518	881.848	875.205	867.140	858.082
37.5	916.013	911.495	906.037	904.329	901.910	897.166	890.633	882.004	873.613	862.405
40.0	922.839	916.473	914.522	913.107	908.214	902.056	894.233	885.809	875.911	864.752
42.5	925.525	921.256	920.408	915.073	909.364	903.149	896.143	887.896	877.665	866.154
45.0	924.518	923.525	921.262	917.773	912.621	906.018	898.286	889.256	878.170	865.804
47.5	925.525	921.939	919.389	913.528	909.160	903.010	895.377	886.350	875.312	862.383
50.0	922.839	915.267	915.056	911.608	904.673	896.871	888.827	879.234	868.039	854.947
52.5	916.013	910.128	906.107	904.439	899.419	891.049	881.288	871.239	857.962	844.309
55.0	907.397	902.271	895.877	893.596	889.906	881.812	872.114	860.379	846.796	831.265
57.5	897.102	892.351	886.291	881.532	876.723	869.712	860.465	848.451	834.708	818.558
60.0	884.458	880.294	874.705	868.295	862.940	855.853	846.663	834.794	820.351	804.174
62.5	872.037	867.436	861.558	854.546	848.425	840.917	830.890	819.135	804.284	788.495
65.0	856.818	852.588	847.028	840.188	832.758	824.446	813.573	801.050	786.334	769.302
67.5	840.369	836.866	830.401	823.307	815.007	805.743	794.474	781.302	766.331	749.112
70.0	820.227	816.888	810.631	803.717	795.480	785.676	774.074	760.564	745.348	727.976
72.5	798.854	795.598	789.662	783.027	775.032	765.190	753.159	739.181	723.598	706.167
75.0	778.376	774.898	768.713	761.863	753.700	743.947	732.167	717.105	701.228	683.535
77.5	755.884	752.341	746.128	739.256	731.080	721.639	708.962	694.210	677.822	659.910
80.0	732.274	728.670	722.531	715.700	707.530	698.014	685.596	670.653	654.338	636.721
82.5	709.110	705.185	698.733	691.643	683.292	673.701	661.999	647.156	631.093	613.815
85.0	684.268	680.244	673.900	666.932	658.747	649.339	638.617	623.991	608.209	591.115
87.5	660.658	656.377	649.936	642.936	634.836	625.642	615.366	601.651	585.707	568.701
90.0	637.382	632.971	626.484	619.456	611.364	602.210	592.003	580.102	563.444	546.542
92.5	613.995	609.449	602.921	595.897	587.886	578.900	568.955	557.345	541.730	524.978
95.0	590.496	585.922	579.457	572.537	564.703	555.976	546.383	535.952	520.745	504.028
97.5	566.885	562.397	556.114	549.405	541.839	533.439	524.231	514.245	500.416	483.670
100.0	543.498	539.135	533.041	526.550	519.251	511.173	502.349	492.813	480.419	463.118
102.5	519.887	515.729	509.867	503.577	496.438	488.456	479.640	470.007	459.379	442.249
105.0	496.165	492.006	486.213	480.018	473.019	465.229	456.660	447.330	437.248	421.759
107.5	472.442	468.339	462.625	456.524	449.644	442.002	433.616	424.508	415.656	401.132
110.0	448.048	444.206	438.467	432.483	425.722	418.201	409.938	400.956	391.364	380.129
112.5	422.646	418.805	413.421	407.663	401.152	393.902	385.925	377.237	367.858	357.930
115.0	397.581	393.841	388.645	383.095	376.834	369.873	362.225	353.903	344.923	335.435
117.5	373.075	369.433	364.397	359.031	352.999	346.317	339.002	331.073	322.550	313.541
120.0	348.568	345.102	340.304	335.196	329.460	323.116	316.183	308.682	300.634	292.094
122.5	324.174	320.931	316.411	311.597	306.183	300.188	293.633	286.537	278.922	270.830
125.0	299.892	296.883	292.661	288.158	283.084	277.456	271.290	264.608	257.427	250.281
127.5	275.945	273.160	269.204	264.979	260.207	254.904	249.088	242.780	235.998	228.763
130.0	251.887	249.344	245.690	241.783	237.361	232.442	227.044	221.189	214.894	208.183
132.5	228.052	225.777	222.443	218.870	214.811	210.282	205.306	199.901	194.088	187.887

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CANDELA TABULATION - (Cont.)

135.0	204.329	202.342	199.365	196.158	192.486	188.362	183.801	178.819	173.429	167.649
137.5	181.278	179.513	176.816	173.969	170.547	166.762	162.650	157.953	152.954	147.609
140.0	158.674	157.102	155.531	152.078	149.061	145.647	141.845	137.662	133.107	128.190
142.5	137.413	135.978	134.545	131.436	128.719	125.651	122.240	118.495	114.424	110.036
145.0	117.495	116.206	114.919	112.153	109.740	107.026	104.019	100.731	97.170	93.347
147.5	98.808	97.706	96.606	94.262	92.217	89.920	87.380	84.606	81.607	78.391
150.0	82.135	81.215	80.357	78.346	76.641	74.727	72.608	70.292	67.787	65.097
152.5	67.476	66.705	65.935	64.332	62.927	61.349	59.604	57.698	55.635	53.420
155.0	54.831	54.183	53.535	52.217	51.060	49.765	48.338	46.784	45.106	43.311
157.5	43.865	43.334	42.804	41.743	40.811	39.772	38.632	37.393	36.061	34.640
160.0	34.353	33.945	33.537	32.714	31.992	31.188	30.305	29.347	28.316	27.216
162.5	26.185	25.886	25.587	24.997	24.452	23.858	23.222	22.490	21.720	20.903
165.0	19.582	19.352	19.121	18.665	18.263	17.815	17.323	16.789	16.214	15.600
167.5	13.987	13.824	13.662	13.500	13.078	12.751	12.409	12.037	11.655	11.211
170.0	9.511	9.403	9.295	9.187	8.892	8.682	8.451	8.200	7.930	7.640
172.5	5.819	5.754	5.688	5.623	5.444	5.316	5.177	5.025	4.862	4.688
175.0	2.909	2.879	2.850	2.820	2.791	2.668	2.600	2.525	2.444	2.359
177.5	0.671	0.667	0.662	0.658	0.653	0.649	0.645	0.612	0.599	0.586
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	<u>25.0</u>	<u>27.5</u>	<u>30.0</u>	<u>32.5</u>	<u>35.0</u>	<u>37.5</u>	<u>40.0</u>	<u>42.5</u>	<u>45.0</u>	<u>47.5</u>
0.0	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382
2.5	656.564	655.927	655.253	654.544	653.800	653.024	652.217	651.343	650.516	649.627
5.0	675.975	674.655	673.256	671.780	670.231	668.613	666.928	665.181	663.377	661.517
7.5	696.047	693.938	691.701	689.342	686.867	684.282	681.593	678.808	675.933	673.055
10.0	715.362	712.587	709.639	706.527	703.259	699.844	696.165	692.338	688.394	684.342
12.5	734.044	730.470	726.684	722.698	718.477	714.064	709.476	704.726	699.830	694.802
15.0	752.035	747.737	743.103	738.135	732.943	727.547	721.964	716.179	710.114	703.896
17.5	768.782	763.624	758.099	752.308	746.275	740.268	733.284	726.377	719.308	711.960
20.0	783.835	777.931	771.700	765.173	758.082	750.368	742.394	734.843	725.446	716.566
22.5	798.101	791.178	783.811	775.896	767.581	758.931	749.692	740.102	730.315	720.054
25.0	811.101	803.902	794.853	785.813	776.340	766.252	755.858	744.973	733.702	723.021
27.5	822.958	814.117	804.823	794.740	783.875	773.631	760.675	748.470	735.735	722.729
30.0	832.606	823.481	813.102	802.024	790.109	777.374	764.141	750.290	736.165	721.682
32.5	841.330	830.875	819.760	807.241	794.310	780.108	765.626	750.197	734.650	718.514
35.0	847.316	836.019	823.252	809.907	795.636	780.525	764.663	747.974	731.060	713.283
37.5	851.059	838.405	824.693	810.391	794.766	778.605	761.449	743.454	726.094	705.798
40.0	852.769	838.490	823.720	808.174	791.470	774.150	755.760	736.471	716.647	695.885
42.5	853.209	838.412	822.755	806.239	788.285	769.521	749.932	728.778	706.900	684.256
45.0	852.172	836.764	820.224	802.733	783.919	763.897	743.035	721.044	697.734	673.898
47.5	848.080	832.488	814.934	796.312	776.710	755.657	733.461	710.389	686.133	661.115
50.0	840.070	823.992	807.063	787.110	766.317	744.552	721.373	696.914	671.785	646.078
52.5	829.394	812.619	794.405	774.831	753.558	730.536	706.214	681.103	654.946	628.430
55.0	815.608	798.716	780.376	759.923	738.067	714.811	689.507	663.171	635.956	608.599
57.5	800.929	782.647	763.486	742.874	720.516	696.179	670.689	644.145	616.425	588.145
60.0	786.285	766.163	744.705	723.438	700.269	675.787	649.956	623.097	595.508	567.282
62.5	769.203	748.904	726.618	702.066	678.223	653.372	627.523	600.829	573.345	545.348
65.0	750.377	729.804	706.897	682.223	655.479	629.517	603.914	577.390	550.242	522.580
67.5	730.118	709.087	686.144	661.297	634.549	606.499	579.253	553.147	526.387	499.129
70.0	708.919	687.663	664.634	639.482	613.068	585.331	556.319	528.252	501.911	475.178
72.5	687.101	665.487	642.075	617.468	592.675	564.147	535.447	505.496	476.969	450.896
75.0	663.892	642.646	619.887	595.676	570.065	542.935	515.485	485.020	454.697	426.647
77.5	640.776	621.118	598.166	574.202	548.609	521.780	493.817	464.932	435.272	405.495
80.0	618.017	598.309	576.628	552.601	527.452	501.353	473.529	445.241	416.505	387.326

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CANDELA TABULATION - (Cont.)

82.5	595.345	575.568	554.662	531.652	506.670	480.509	453.934	426.008	398.175	369.135
85.0	572.794	553.349	532.741	510.759	485.995	460.449	434.041	406.938	379.172	350.760
87.5	550.551	531.207	510.791	489.146	465.716	440.477	414.454	387.738	360.319	332.270
90.0	528.477	509.411	489.173	467.772	445.174	420.440	394.802	368.408	341.329	313.989
92.5	507.082	488.281	467.960	446.666	424.221	400.331	374.995	349.132	322.775	295.950
95.0	486.172	467.251	447.192	425.900	403.392	379.957	355.518	330.208	304.364	278.166
97.5	465.822	446.657	426.304	405.733	382.977	360.067	336.214	311.332	286.333	261.749
100.0	444.840	425.666	405.686	384.791	362.984	340.296	316.963	292.979	268.840	244.502
102.5	424.219	405.284	385.438	364.712	343.192	320.988	298.321	275.502	252.300	229.176
105.0	403.805	384.988	365.268	344.815	323.790	302.417	280.580	258.854	237.147	214.790
107.5	383.191	364.508	345.247	325.422	305.088	284.648	264.013	243.057	222.142	201.150
110.0	362.554	344.629	325.719	306.689	287.184	267.673	247.864	227.973	208.009	188.501
112.5	342.276	324.756	306.844	288.680	270.113	251.396	232.480	213.428	194.567	175.679
115.0	322.571	305.822	288.664	271.299	253.567	235.641	217.685	199.538	181.812	164.063
117.5	303.440	287.429	270.998	254.392	237.503	220.413	203.453	186.395	169.543	152.828
120.0	283.108	269.355	253.682	237.850	221.850	205.676	189.592	173.490	157.544	141.890
122.5	262.325	251.455	236.595	221.555	206.400	191.117	175.945	160.869	145.827	131.097
125.0	241.699	233.208	219.521	205.328	191.142	176.850	162.565	148.410	134.263	120.410
127.5	221.223	213.312	202.692	189.844	176.116	162.738	149.614	136.006	122.782	109.785
130.0	201.155	193.801	186.147	173.646	161.131	148.567	135.979	123.549	111.261	99.670
132.5	181.336	174.435	167.185	157.606	146.089	134.234	122.552	111.086	99.792	88.696
135.0	161.514	155.056	148.254	141.121	130.530	119.850	109.188	98.931	88.620	78.765
137.5	142.438	135.934	129.665	123.065	115.218	105.743	96.306	87.131	78.061	69.550
140.0	122.921	117.589	111.986	106.096	99.928	92.404	84.260	76.167	68.338	61.112
142.5	105.340	100.579	95.695	90.585	85.261	79.885	73.220	66.549	59.596	53.335
145.0	89.274	85.108	80.983	76.674	72.192	67.546	63.136	57.315	51.707	46.042
147.5	74.969	71.548	67.899	64.266	60.481	56.563	52.674	48.920	44.114	39.364
150.0	62.232	59.198	56.237	53.224	50.081	46.815	43.431	40.357	37.223	33.488
152.5	51.059	48.557	46.023	43.572	41.021	38.428	35.642	32.989	30.525	28.017
155.0	41.398	39.377	37.251	35.279	33.262	31.181	29.039	26.841	24.828	22.853
157.5	33.134	31.548	29.885	28.232	26.652	25.032	23.348	21.633	19.913	18.298
160.0	26.051	24.825	23.540	22.200	20.942	19.675	18.364	17.012	15.621	14.359
162.5	20.015	19.085	18.106	17.079	16.040	15.062	14.083	13.076	12.045	10.990
165.0	14.948	14.260	13.539	12.784	11.999	11.255	10.502	9.787	9.054	8.305
167.5	10.759	10.283	9.782	9.260	8.716	8.153	7.571	7.051	6.529	5.995
170.0	7.334	7.009	6.669	6.313	5.942	5.572	5.159	4.749	4.400	4.011
172.5	4.504	4.310	4.107	3.895	3.674	3.446	3.211	2.969	2.720	2.466
175.0	2.267	2.171	2.071	1.966	1.857	1.745	1.629	1.510	1.388	1.263
177.5	0.571	0.556	0.540	0.523	0.506	0.488	0.469	0.449	0.429	0.409
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles	Horizontal Angles									
	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>57.5</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>
0.0	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382
2.5	648.713	647.777	646.821	645.847	644.857	643.853	642.836	641.809	640.775	639.734
5.0	659.608	657.654	655.658	653.625	651.596	649.545	647.472	645.382	643.279	641.166
7.5	670.110	667.097	664.024	660.897	657.724	654.481	651.269	648.760	644.821	641.612
10.0	680.194	675.955	671.649	667.358	663.029	658.655	654.245	649.811	645.362	641.011
12.5	689.501	684.086	678.586	673.015	667.385	661.794	656.082	650.551	644.912	640.073
15.0	697.545	691.080	684.382	677.586	670.735	663.845	656.990	650.141	643.297	636.475
17.5	704.032	695.991	687.865	679.605	671.273	662.940	654.641	646.453	638.322	630.270
20.0	707.560	698.102	688.529	678.911	669.237	659.580	649.970	640.523	631.173	622.017
22.5	709.621	699.045	687.966	676.761	665.801	654.818	643.915	633.221	622.672	612.297
25.0	710.352	698.388	685.985	673.370	660.857	648.563	636.387	624.493	612.777	601.258
27.5	709.560	696.127	682.403	668.266	654.307	640.734	628.216	614.293	601.456	588.765

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CANDELA TABULATION - (Cont.)

30.0	707.051	692.112	677.042	661.325	646.074	631.272	616.744	602.595	588.629	574.782
32.5	702.312	685.781	669.089	652.024	635.390	619.239	603.529	588.252	573.174	558.422
35.0	695.486	677.368	659.079	640.657	622.742	605.250	588.311	571.763	555.473	539.751
37.5	686.382	666.755	646.923	627.248	608.072	589.372	571.216	553.429	536.079	519.514
40.0	674.835	654.897	632.559	611.718	591.319	571.491	552.184	533.313	514.859	497.639
42.5	660.746	638.260	615.967	593.957	572.469	551.577	531.085	511.454	492.479	474.348
45.0	649.530	624.936	600.443	576.061	551.993	529.628	508.390	487.915	468.270	449.699
47.5	635.865	610.475	585.095	559.998	535.226	510.834	486.846	463.262	442.830	424.012
50.0	619.883	593.758	568.907	542.077	516.784	491.883	467.503	443.927	421.073	399.309
52.5	601.734	575.000	548.542	522.439	496.766	471.652	447.116	423.455	400.819	378.872
55.0	581.376	554.329	527.540	501.261	475.480	450.213	425.894	402.397	379.551	357.694
57.5	559.394	531.863	505.074	478.749	452.963	428.069	403.858	380.978	357.809	335.769
60.0	538.638	509.820	481.203	455.146	429.761	404.998	381.000	357.863	335.232	313.153
62.5	516.993	488.439	460.080	431.946	405.607	381.249	357.620	334.585	312.113	290.292
65.0	494.581	466.555	438.635	410.916	383.624	356.904	333.525	310.814	288.733	267.111
67.5	471.651	444.139	416.824	389.850	362.975	337.523	309.863	286.841	265.073	243.852
70.0	448.281	421.522	395.037	368.564	342.159	315.970	290.019	264.415	241.447	220.699
72.5	424.846	399.027	373.122	347.210	321.329	295.542	269.980	244.960	220.367	197.570
75.0	401.684	376.509	351.213	325.781	300.307	274.927	249.996	225.438	201.273	177.819
77.5	378.598	354.296	329.181	304.154	279.094	254.366	229.966	205.901	182.495	159.902
80.0	357.679	331.393	306.935	282.330	257.915	233.805	209.966	186.705	164.191	142.331
82.5	339.813	310.013	284.484	260.497	236.815	213.332	190.311	167.997	146.280	125.347
85.0	321.809	292.764	262.759	238.860	215.864	193.181	171.193	149.743	128.995	110.004
87.5	303.862	275.702	246.228	217.454	195.186	173.652	152.603	132.121	113.313	95.537
90.0	286.144	258.082	230.034	201.920	175.257	154.751	134.722	116.110	98.512	81.832
92.5	268.690	241.539	214.296	187.281	160.858	136.656	118.295	100.988	84.505	68.927
95.0	251.811	225.568	199.229	173.656	148.333	123.651	102.859	86.744	71.566	57.407
97.5	235.660	210.379	185.444	160.977	137.086	113.745	91.518	73.754	60.189	47.179
100.0	220.390	196.217	172.622	149.232	126.535	104.857	83.956	64.667	50.106	38.379
102.5	206.067	183.181	160.661	138.502	117.340	96.910	77.648	59.630	42.666	31.334
105.0	192.663	170.960	149.509	128.849	109.003	89.848	72.077	55.245	39.941	26.439
107.5	180.035	159.551	139.275	120.111	101.386	83.713	67.384	51.569	37.886	25.482
110.0	168.315	148.936	130.116	111.977	94.410	78.119	62.633	48.663	36.014	24.683
112.5	157.321	139.005	121.407	104.285	88.133	73.132	58.623	45.852	34.173	24.178
115.0	146.751	129.553	113.046	97.006	82.002	67.713	54.840	43.004	32.481	23.539
117.5	136.434	120.416	104.815	89.892	75.887	62.817	50.950	40.014	30.784	22.644
120.0	126.381	111.283	96.435	82.760	69.725	57.844	46.887	37.236	28.801	21.518
122.5	116.450	102.322	88.501	75.490	63.515	52.701	42.730	34.177	26.499	20.284
125.0	106.773	93.512	80.731	68.462	57.258	47.367	38.614	30.903	24.307	18.830
127.5	97.237	84.731	73.076	61.738	51.441	41.949	34.458	27.582	22.101	17.201
130.0	87.558	76.218	65.614	55.517	46.210	37.740	30.376	24.699	19.729	15.480
132.5	78.205	68.113	58.496	49.790	41.548	34.244	27.417	21.636	17.165	13.626
135.0	69.301	60.582	52.094	44.547	37.431	30.933	25.014	19.666	15.032	11.625
137.5	61.193	53.677	46.476	39.698	33.690	27.661	22.656	17.929	13.903	10.230
140.0	54.028	47.321	41.127	35.123	29.812	24.837	20.319	16.333	12.650	9.532
142.5	47.274	41.343	36.054	30.996	26.240	22.082	18.100	14.677	11.514	8.807
145.0	40.951	35.972	31.360	27.095	23.038	19.421	16.136	13.165	10.471	8.056
147.5	35.098	31.009	27.010	23.461	20.163	16.960	14.258	11.715	9.362	7.307
150.0	29.776	26.510	23.301	20.158	17.495	14.919	12.580	10.295	8.232	6.449
152.5	25.287	22.493	19.923	17.405	14.986	12.821	10.722	8.763	7.224	5.765
155.0	20.850	18.821	16.742	14.647	12.594	10.680	9.098	7.575	6.240	5.053
157.5	16.677	15.022	13.336	11.879	10.424	8.913	7.486	6.356	5.248	4.197
160.0	13.013	11.780	10.530	9.266	8.161	7.127	6.089	5.045	4.160	3.332
162.5	9.966	9.034	8.132	7.219	6.298	5.419	4.644	3.867	3.088	2.356
165.0	7.541	6.764	6.075	5.394	4.719	4.038	3.352	2.778	2.293	1.812
167.5	5.451	4.897	4.333	3.762	3.317	2.889	2.461	2.033	1.605	1.224

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CANDELA TABULATION - (Cont.)

170.0	3.671	3.326	2.978	2.626	2.271	1.914	1.600	1.374	1.151	0.932
172.5	2.206	1.993	1.805	1.616	1.428	1.240	1.052	0.864	0.677	0.490
175.0	1.136	1.007	0.876	0.742	0.607	0.491	0.445	0.404	0.363	0.322
177.5	0.388	0.366	0.345	0.322	0.300	0.277	0.254	0.230	0.207	0.183
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

	<u>75.0</u>	<u>77.5</u>	<u>80.0</u>	<u>82.5</u>	<u>85.0</u>	<u>87.5</u>	<u>90.0</u>	<u>92.5</u>	<u>95.0</u>	<u>97.5</u>
0.0	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382
2.5	638.690	637.643	636.597	635.554	634.514	633.481	632.971	631.434	630.427	629.433
5.0	639.050	636.933	634.821	632.717	630.625	628.553	626.484	624.442	622.428	620.447
7.5	638.402	635.198	632.007	628.833	625.685	622.557	619.456	616.397	613.387	610.432
10.0	636.694	632.394	628.118	623.875	619.706	615.490	611.364	607.302	603.313	599.403
12.5	633.879	628.482	623.126	617.822	612.557	607.343	602.090	597.166	592.221	587.446
15.0	629.915	623.431	617.009	610.829	604.340	598.118	592.003	586.446	580.264	574.576
17.5	622.534	614.942	607.304	600.153	592.967	585.955	580.102	572.671	566.409	560.377
20.0	613.020	604.257	596.226	587.267	579.068	571.559	563.444	556.050	548.920	542.251
22.5	602.182	592.262	582.589	573.166	563.984	555.118	546.542	539.308	530.526	523.090
25.0	589.965	578.928	568.252	557.844	547.724	537.920	528.477	519.567	511.015	502.892
27.5	576.330	564.312	552.653	541.278	530.207	520.630	509.411	499.698	490.446	481.649
30.0	561.312	548.387	535.779	523.410	511.433	499.873	489.173	478.728	468.763	459.333
32.5	544.352	530.810	517.347	504.247	491.600	479.453	467.772	456.596	445.995	435.971
35.0	524.718	510.154	496.034	482.574	469.701	457.281	445.174	433.351	422.130	411.409
37.5	503.528	488.125	473.383	459.374	445.890	432.905	420.440	408.488	396.999	385.829
40.0	480.927	464.856	449.725	435.165	421.183	407.729	394.802	382.366	370.435	359.381
42.5	456.976	440.682	425.034	410.080	395.657	381.773	368.408	355.560	343.629	332.267
45.0	432.149	415.911	399.519	384.156	369.344	355.074	341.329	328.512	316.294	304.748
47.5	406.250	389.400	373.142	357.439	342.294	327.686	313.989	300.940	288.623	277.099
50.0	379.608	362.509	345.969	329.987	314.557	300.001	286.144	273.089	260.889	249.364
52.5	357.636	336.845	318.053	301.855	286.475	271.834	258.082	245.222	233.842	222.202
55.0	336.239	315.188	294.566	274.465	257.924	243.527	230.034	217.282	205.799	195.304
57.5	314.146	293.054	272.450	252.301	232.976	215.242	201.920	189.855	178.873	168.846
60.0	291.680	270.649	250.055	230.299	211.196	192.690	175.257	162.842	152.656	143.534
62.5	268.919	247.982	227.869	208.357	190.529	171.637	154.751	139.640	127.079	118.934
65.0	245.981	225.551	205.704	186.591	168.275	151.096	134.722	119.992	106.242	95.803
67.5	223.208	203.110	183.639	165.261	147.707	131.975	116.110	102.226	89.197	77.770
70.0	200.443	180.852	162.272	144.479	128.092	112.496	98.512	85.397	73.558	63.054
72.5	177.950	159.256	141.302	124.171	109.054	95.009	81.765	69.621	58.781	49.120
75.0	156.090	138.063	120.832	105.684	91.626	78.436	65.898	54.726	44.795	36.533
77.5	138.013	117.421	102.288	88.276	75.137	62.320	50.836	40.643	32.186	25.777
80.0	121.292	102.291	84.872	71.855	58.811	47.051	36.611	27.995	21.654	16.727
82.5	106.293	88.503	71.888	55.245	43.303	32.645	23.910	17.643	12.988	9.783
85.0	92.166	75.449	58.956	43.325	28.674	19.874	13.697	9.318	6.550	5.981
87.5	78.789	62.549	47.165	32.684	19.883	9.772	5.679	3.375	3.600	3.347
90.0	65.898	50.836	36.611	23.910	13.697	5.679	0.224	1.242	1.668	1.649
92.5	54.286	40.375	27.814	17.565	9.296	3.371	1.242	0.001	0.548	0.711
95.0	43.917	31.634	21.319	12.860	6.515	3.590	1.668	0.551	0.003	0.217
97.5	35.015	24.905	16.323	9.653	5.913	3.329	1.649	0.718	0.224	0.003
100.0	28.263	19.628	12.580	8.177	4.964	2.739	1.433	0.668	0.239	0.045
102.5	22.708	15.413	10.326	6.541	3.808	2.138	1.112	0.477	0.134	0.028
105.0	18.005	12.290	8.015	4.830	2.817	1.555	0.714	0.225	0.056	0.000
107.5	14.731	9.330	5.775	3.442	1.961	0.944	0.317	0.086	0.000	0.000
110.0	15.255	7.287	3.979	2.336	1.159	0.401	0.116	0.000	0.000	0.000
112.5	15.658	8.626	3.362	1.344	0.466	0.141	0.000	0.000	0.000	0.000
115.0	15.858	9.853	5.025	1.293	0.160	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

117.5	15.949	10.521	6.169	3.186	0.845	0.000	0.000	0.000	0.000	0.000
120.0	15.646	10.732	7.092	4.291	2.241	0.813	0.000	0.000	0.000	0.000
122.5	15.003	10.840	7.562	5.025	3.091	1.683	0.702	0.085	0.000	0.000
125.0	14.222	10.578	7.556	5.258	3.460	2.101	1.152	0.527	0.143	0.000
127.5	13.250	9.906	7.249	5.133	3.435	2.194	1.269	0.664	0.280	0.070
130.0	11.957	8.996	6.648	4.719	3.173	2.001	1.184	0.608	0.213	0.070
132.5	10.502	7.945	5.763	4.047	2.683	1.677	0.932	0.366	0.146	0.026
135.0	8.961	6.666	4.765	3.277	2.112	1.231	0.508	0.227	0.043	0.011
137.5	7.321	5.278	3.751	2.453	1.485	0.647	0.303	0.061	0.019	0.000
140.0	6.738	4.399	2.726	1.646	0.748	0.364	0.077	0.028	0.000	0.000
142.5	6.406	4.311	2.562	1.116	0.398	0.091	0.035	0.000	0.000	0.000
145.0	5.980	4.121	2.649	1.588	0.795	0.350	0.056	0.000	0.000	0.000
147.5	5.366	3.974	2.765	1.871	1.236	0.750	0.423	0.200	0.079	0.017
150.0	5.033	3.718	2.803	2.017	1.391	0.908	0.529	0.294	0.110	0.049
152.5	4.514	3.538	2.640	1.937	1.338	0.839	0.512	0.223	0.114	0.031
155.0	4.021	3.086	2.340	1.645	1.100	0.705	0.338	0.183	0.071	0.000
157.5	3.343	2.555	1.805	1.285	0.841	0.420	0.249	0.115	0.000	0.000
160.0	2.532	1.846	1.360	0.891	0.462	0.300	0.152	0.008	0.000	0.000
162.5	1.834	1.320	0.822	0.484	0.326	0.171	0.020	0.000	0.000	0.000
165.0	1.335	0.896	0.663	0.456	0.259	0.072	0.040	0.024	0.011	0.000
167.5	0.990	0.763	0.543	0.329	0.156	0.117	0.082	0.048	0.016	0.000
170.0	0.716	0.503	0.292	0.227	0.179	0.133	0.088	0.044	0.000	0.000
172.5	0.358	0.309	0.259	0.211	0.163	0.116	0.070	0.023	0.000	0.000
175.0	0.282	0.241	0.201	0.160	0.120	0.080	0.040	0.000	0.000	0.000
177.5	0.159	0.135	0.110	0.086	0.062	0.037	0.012	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	<u>100.0</u>	<u>102.5</u>	<u>105.0</u>	<u>107.5</u>	<u>110.0</u>	<u>112.5</u>	<u>115.0</u>	<u>117.5</u>	<u>120.0</u>	<u>122.5</u>
0.0	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382
2.5	628.456	627.497	626.558	625.640	624.746	623.876	623.032	622.217	621.431	620.676
5.0	618.503	616.597	614.735	612.920	611.154	609.440	607.783	606.184	604.650	603.180
7.5	607.536	604.704	601.942	599.267	596.678	594.170	591.747	589.413	587.171	585.025
10.0	595.998	591.897	588.306	584.816	581.379	578.159	575.003	571.994	569.121	566.372
12.5	582.798	578.267	573.861	569.584	565.504	561.507	557.794	554.154	550.664	547.778
15.0	569.162	563.825	558.757	553.849	549.098	544.510	540.133	535.983	532.005	528.204
17.5	554.690	548.893	543.134	537.551	532.260	527.176	522.280	517.575	513.118	508.878
20.0	535.880	529.741	524.136	518.834	513.861	509.244	504.189	499.066	494.149	489.268
22.5	516.016	509.395	503.139	497.274	491.895	486.909	482.319	477.742	473.486	468.553
25.0	495.212	487.938	481.176	474.869	469.001	463.186	457.750	452.746	448.286	444.292
27.5	473.324	465.548	458.247	451.191	444.446	438.166	432.511	427.353	422.662	418.418
30.0	450.459	443.168	433.901	426.224	419.186	412.739	406.793	401.328	396.368	392.055
32.5	426.401	417.222	408.606	400.763	393.447	386.649	380.383	374.654	369.397	364.639
35.0	401.190	391.690	382.907	374.677	366.998	359.888	353.380	347.394	341.708	337.303
37.5	375.404	365.651	356.475	347.885	339.973	332.690	326.028	320.171	314.793	310.194
40.0	348.905	338.877	329.347	320.695	312.613	305.496	298.963	293.203	288.104	283.543
42.5	321.515	311.365	302.034	293.335	285.635	278.531	272.390	266.689	261.979	257.681
45.0	293.910	283.829	274.684	266.368	258.997	252.257	246.348	241.103	236.455	232.424
47.5	266.284	256.604	247.583	239.854	233.422	226.662	221.723	216.027	211.491	207.865
50.0	239.122	229.599	221.281	213.777	207.226	201.403	196.209	191.631	187.370	184.190
52.5	212.196	203.279	195.454	188.377	182.335	177.057	172.248	168.078	164.736	161.956
55.0	185.815	177.668	169.891	163.875	158.221	153.436	149.361	145.840	142.853	140.070
57.5	160.378	152.664	145.979	140.318	135.268	131.324	127.661	124.733	121.980	119.682
60.0	135.593	128.597	122.962	117.893	113.908	110.396	107.366	104.871	102.506	100.420
62.5	111.673	106.088	101.126	97.052	93.752	90.944	88.556	86.402	84.495	82.588

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CANDELA TABULATION - (Cont.)

65.0	89.631	84.797	80.686	77.653	74.958	72.938	71.233	69.506	68.128	66.199
67.5	68.834	65.274	62.021	59.739	57.926	56.790	55.551	54.588	53.487	52.202
70.0	53.665	46.776	44.958	43.899	42.956	42.390	41.837	41.428	40.633	39.957
72.5	41.087	34.552	29.667	29.619	29.793	29.819	30.122	30.147	29.969	29.651
75.0	29.957	24.609	20.317	17.643	18.484	19.429	20.356	20.850	21.294	21.239
77.5	20.582	16.609	13.721	10.815	9.218	11.114	12.528	13.643	14.384	14.729
80.0	13.118	10.981	8.739	6.452	4.857	4.663	6.462	8.083	9.090	9.832
82.5	8.424	6.841	5.123	3.854	2.687	1.640	2.205	3.999	5.307	6.280
85.0	5.059	3.913	2.975	2.104	1.284	0.629	0.232	1.227	2.757	3.704
87.5	2.764	2.178	1.587	0.981	0.451	0.164	0.000	0.000	0.989	1.894
90.0	1.433	1.112	0.714	0.316	0.116	0.000	0.000	0.000	0.000	0.702
92.5	0.660	0.468	0.213	0.079	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.231	0.124	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.040	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	<u>125.0</u>	<u>127.5</u>	<u>130.0</u>	<u>132.5</u>	<u>135.0</u>	<u>137.5</u>	<u>140.0</u>	<u>142.5</u>	<u>145.0</u>	<u>147.5</u>
0.0	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382
2.5	619.953	619.264	618.609	617.990	617.310	616.864	616.358	615.892	615.467	615.082
5.0	601.775	600.438	599.171	597.869	596.852	595.805	594.835	593.943	593.130	592.398
7.5	582.979	581.034	579.940	577.479	575.866	574.363	572.971	571.693	570.530	569.484
10.0	563.752	561.262	558.908	556.691	554.616	552.713	550.960	549.352	547.892	546.579

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CANDELA TABULATION - (Cont.)

12.5	544.226	541.273	538.482	535.855	533.396	531.108	529.303	527.061	525.302	523.720
15.0	524.584	521.161	517.948	514.921	512.082	509.437	506.987	504.736	502.595	500.663
17.5	504.834	500.992	497.354	493.719	490.311	487.147	484.231	481.566	479.153	477.023
20.0	484.504	479.935	475.629	471.591	467.879	464.443	461.275	458.380	455.759	454.199
22.5	463.299	458.410	453.801	449.476	445.439	441.643	438.135	434.920	432.003	429.386
25.0	440.727	436.803	431.791	427.076	422.665	418.519	414.548	410.901	407.580	404.592
27.5	414.279	411.337	408.407	404.196	399.262	394.664	390.413	386.517	382.979	379.802
30.0	387.822	384.203	381.061	378.413	375.648	370.766	366.547	362.253	358.618	355.360
32.5	360.425	356.774	353.581	350.499	348.801	347.133	342.518	338.384	334.693	331.338
35.0	333.045	329.457	326.405	323.798	321.813	320.346	319.305	315.805	311.288	307.889
37.5	306.131	302.563	299.751	297.363	295.445	294.143	293.261	292.313	288.381	284.835
40.0	279.784	276.446	273.711	271.507	269.722	268.488	267.289	267.287	265.827	262.138
42.5	254.037	250.916	248.249	246.230	244.579	243.373	242.654	242.277	242.524	239.783
45.0	228.869	226.034	223.546	221.644	220.148	218.963	218.237	217.815	217.706	217.679
47.5	204.577	201.962	199.745	197.882	196.454	195.278	194.536	194.166	194.072	194.350
50.0	181.333	178.824	176.778	174.937	173.639	172.575	171.796	171.414	171.280	171.422
52.5	159.012	156.614	154.777	153.130	151.808	150.467	149.939	149.433	149.100	148.963
55.0	137.698	135.598	133.783	132.234	130.880	129.850	128.909	128.080	127.676	127.263
57.5	117.434	115.509	113.727	112.345	110.973	109.905	108.865	107.983	107.337	106.732
60.0	98.165	96.525	94.912	93.603	92.278	91.154	90.129	89.103	88.561	88.000
62.5	80.708	78.816	77.432	76.176	75.027	73.904	73.105	72.176	71.796	71.444
65.0	64.902	62.993	61.464	60.308	59.514	58.486	58.120	57.549	57.272	57.163
67.5	50.913	49.223	47.604	46.333	45.997	45.486	45.317	45.129	44.908	44.873
70.0	38.868	37.611	36.199	34.687	34.587	34.597	34.537	34.515	34.293	34.381
72.5	28.868	28.093	26.953	25.991	25.136	25.394	25.399	25.606	25.510	25.633
75.0	20.928	20.527	19.733	18.999	17.769	17.793	17.978	18.291	18.358	18.482
77.5	14.863	14.647	14.176	13.470	12.564	11.661	12.042	12.361	12.574	12.744
80.0	10.206	10.118	9.844	9.227	8.512	7.585	7.251	7.639	8.057	8.266
82.5	6.707	6.769	6.549	6.011	5.390	4.517	3.811	4.084	4.516	4.671
85.0	4.160	4.291	4.082	3.647	3.118	2.483	1.835	1.385	2.029	2.432
87.5	2.369	2.491	2.304	2.026	1.572	1.041	0.581	0.265	0.648	1.146
90.0	1.152	1.269	1.184	0.932	0.508	0.303	0.077	0.035	0.056	0.423
92.5	0.409	0.537	0.472	0.282	0.127	0.041	0.004	0.000	0.000	0.089
95.0	0.030	0.148	0.123	0.034	0.018	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.012	0.011	0.005	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles	Horizontal Angles									
	<u>150.0</u>	<u>152.5</u>	<u>155.0</u>	<u>157.5</u>	<u>160.0</u>	<u>162.5</u>	<u>165.0</u>	<u>167.5</u>	<u>170.0</u>	<u>172.5</u>
0.0	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382
2.5	614.740	614.439	614.181	613.966	613.795	613.667	613.583	613.542	613.546	613.593
5.0	591.748	591.180	590.695	590.295	589.978	589.747	589.600	589.538	589.562	589.669
7.5	568.556	567.748	567.059	566.492	566.046	565.723	565.447	565.443	565.488	565.655
10.0	545.417	544.406	543.549	542.844	542.295	541.901	541.662	541.579	541.652	541.881
12.5	522.305	521.093	520.052	519.194	518.522	518.036	517.736	517.624	517.700	517.965
15.0	498.956	497.475	496.221	495.194	494.395	493.824	493.482	493.366	493.477	493.814
17.5	475.045	473.519	472.146	471.028	470.165	469.558	469.207	469.111	469.271	469.685
20.0	451.285	449.445	447.886	446.611	445.581	444.919	444.503	444.375	444.535	444.983
22.5	426.990	424.854	423.035	421.535	420.356	419.501	418.970	418.766	418.888	419.338
25.0	402.334	399.652	397.708	396.112	394.866	393.971	393.429	393.240	393.404	393.921
27.5	376.989	374.605	372.617	370.996	369.743	368.859	368.347	368.207	368.439	369.043
30.0	352.484	350.014	347.980	346.317	345.029	344.119	343.591	343.448	343.692	344.325
32.5	328.425	325.860	323.754	322.027	320.681	319.719	319.149	318.975	319.200	319.830
35.0	304.858	302.204	299.964	298.125	296.676	295.625	294.978	294.741	294.920	295.520
37.5	281.660	278.867	276.485	274.539	272.995	271.861	271.143	270.849	270.985	271.558
40.0	258.828	255.822	253.803	251.290	249.602	248.332	247.489	247.083	247.123	247.616
42.5	236.296	233.196	230.495	228.290	226.501	225.125	224.175	223.663	223.600	223.997
45.0	214.243	211.045	208.116	205.868	203.929	202.397	201.287	200.616	200.397	200.645
47.5	192.844	189.394	186.527	183.948	181.802	180.088	178.819	178.009	177.672	177.819
50.0	171.850	168.307	165.102	162.323	160.017	158.156	156.753	155.821	155.376	155.428
52.5	149.122	147.387	144.006	141.377	138.724	136.845	135.438	134.471	134.077	134.143
55.0	127.156	127.002	123.598	120.641	118.430	116.682	115.377	114.528	114.146	114.243
57.5	106.429	106.489	104.493	101.717	99.657	98.050	96.886	96.097	95.730	95.801
60.0	87.610	87.744	87.155	84.625	82.717	81.334	80.287	79.597	79.281	79.359
62.5	71.126	71.296	71.545	69.587	67.819	66.578	65.644	65.036	64.771	64.866
65.0	56.939	57.061	57.248	56.278	54.653	53.594	52.814	52.327	52.151	52.299
67.5	44.688	44.712	44.867	44.628	43.489	42.358	41.755	41.351	41.277	41.474
70.0	34.274	34.230	34.402	34.518	33.470	32.856	32.413	32.154	32.101	32.274
72.5	25.628	25.566	25.807	25.990	25.539	24.994	24.625	24.399	24.339	24.466
75.0	18.603	18.609	18.865	19.058	18.966	18.421	18.072	17.871	17.834	17.973
77.5	12.994	13.066	13.196	13.252	13.226	12.811	12.595	12.478	12.479	12.613
80.0	8.469	8.471	8.562	8.646	8.596	8.377	8.250	8.193	8.221	8.350
82.5	5.030	5.168	5.200	5.264	5.143	4.939	4.840	4.791	4.789	4.899
85.0	2.773	2.944	2.909	2.804	2.542	2.213	2.228	2.238	2.263	2.323
87.5	1.386	1.432	1.275	1.123	0.877	0.544	0.624	0.684	0.680	0.647
90.0	0.529	0.512	0.338	0.249	0.152	0.020	0.040	0.080	0.088	0.070
92.5	0.108	0.100	0.036	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.032	0.027
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.041	0.071	0.108	0.112
135.0	0.000	0.000	0.000	0.000	0.000	0.005	0.065	0.100	0.112	0.112
137.5	0.000	0.000	0.000	0.000	0.000	0.002	0.013	0.051	0.107	0.083
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.016	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles	Horizontal Angles									
	<u>175.0</u>	<u>177.5</u>	<u>180.0</u>	<u>182.5</u>	<u>185.0</u>	<u>187.5</u>	<u>190.0</u>	<u>192.5</u>	<u>195.0</u>	<u>197.5</u>
0.0	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382
2.5	613.684	613.818	613.995	613.818	613.684	613.593	613.546	613.542	613.583	613.667
5.0	589.861	590.137	590.496	590.137	589.861	589.669	589.562	589.538	589.600	589.747
7.5	565.944	566.354	566.885	566.354	565.944	565.655	565.488	565.443	565.522	565.723
10.0	542.266	542.805	543.498	542.805	542.266	541.881	541.652	541.579	541.662	541.901
12.5	518.418	519.059	519.887	519.059	518.418	517.965	517.785	517.624	517.736	518.036
15.0	494.376	495.160	496.165	495.160	494.376	493.814	493.477	493.366	493.482	493.824
17.5	470.353	471.272	472.442	471.272	470.353	469.745	469.271	469.111	469.291	469.558
20.0	445.718	446.740	448.048	446.740	445.718	444.983	444.535	444.375	444.503	444.919
22.5	420.114	421.217	422.646	421.217	420.114	419.338	418.888	418.766	418.970	419.501
25.0	394.790	396.011	397.581	396.011	394.790	393.921	393.404	393.240	393.429	393.971
27.5	369.891	371.362	373.075	371.362	370.017	369.043	368.439	368.207	368.347	368.860
30.0	345.348	346.762	348.568	346.762	345.482	344.325	343.692	343.448	343.591	344.119
32.5	320.867	322.314	324.174	322.314	320.867	319.830	319.200	318.975	319.149	319.719
35.0	296.546	298.003	299.892	298.003	296.546	295.520	294.920	294.741	294.978	295.625
37.5	272.573	274.034	275.945	274.034	272.573	271.558	270.985	270.849	271.143	271.861
40.0	248.570	249.992	251.887	249.992	248.570	247.616	247.123	247.083	247.489	248.332
42.5	224.866	226.215	228.052	226.215	224.866	224.078	223.600	223.663	224.288	225.125
45.0	201.375	202.599	204.329	202.599	201.375	200.645	200.397	200.616	201.287	202.397

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CANDELA TABULATION - (Cont.)

47.5	178.462	179.612	181.278	179.612	178.462	177.819	177.672	178.009	178.819	180.088
50.0	155.988	157.067	158.674	157.067	155.988	155.428	155.376	155.821	156.753	158.156
52.5	134.716	135.805	137.413	135.805	134.716	134.143	134.077	134.512	135.438	136.845
55.0	114.827	115.909	117.495	115.909	114.827	114.243	114.146	114.528	115.377	116.682
57.5	96.328	97.325	98.808	97.325	96.328	95.801	95.730	96.097	96.886	98.078
60.0	79.849	80.769	82.135	80.769	79.849	79.359	79.281	79.597	80.287	81.334
62.5	65.339	66.203	67.476	66.203	65.339	64.866	64.771	65.036	65.644	66.578
65.0	52.787	53.575	54.831	53.627	52.787	52.299	52.151	52.327	52.814	53.594
67.5	41.960	42.751	43.865	42.751	41.963	41.484	41.301	41.397	41.755	42.358
70.0	32.694	33.380	34.353	33.420	32.694	32.274	32.101	32.154	32.413	32.856
72.5	24.802	25.368	26.185	25.368	24.802	24.466	24.339	24.399	24.625	24.994
75.0	18.301	18.834	19.582	18.834	18.301	17.973	17.834	17.871	18.072	18.421
77.5	12.898	13.350	13.987	13.350	12.898	12.613	12.479	12.478	12.595	12.811
80.0	8.597	8.979	9.511	8.979	8.597	8.350	8.221	8.193	8.250	8.377
82.5	5.089	5.390	5.819	5.390	5.089	4.899	4.805	4.791	4.840	4.939
85.0	2.436	2.625	2.909	2.625	2.436	2.323	2.263	2.238	2.228	2.213
87.5	0.614	0.611	0.671	0.611	0.614	0.647	0.680	0.684	0.631	0.544
90.0	0.040	0.012	0.000	0.012	0.040	0.070	0.088	0.082	0.040	0.020
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.027	0.032	0.000	0.003	0.000
132.5	0.060	0.000	0.000	0.000	0.060	0.112	0.108	0.071	0.041	0.000
135.0	0.112	0.079	0.000	0.079	0.112	0.112	0.112	0.100	0.065	0.005
137.5	0.036	0.000	0.000	0.000	0.036	0.083	0.107	0.051	0.013	0.002
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.004	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	<u>200.0</u>	<u>202.5</u>	<u>205.0</u>	<u>207.5</u>	<u>210.0</u>	<u>212.5</u>	<u>215.0</u>	<u>217.5</u>	<u>220.0</u>	<u>222.5</u>
0.0	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382
2.5	613.795	613.966	614.181	614.439	614.740	615.082	615.467	615.892	616.358	616.864
5.0	589.978	590.306	590.695	591.180	591.748	592.398	593.130	593.943	594.835	595.805
7.5	566.046	566.492	567.059	567.748	568.556	569.484	570.530	571.693	572.971	574.363
10.0	542.295	542.844	543.549	544.406	545.417	546.579	547.892	549.476	550.960	552.713
12.5	518.625	519.194	520.052	521.093	522.316	523.720	525.302	527.061	529.303	531.108
15.0	494.395	495.194	496.221	497.475	498.956	500.663	502.595	504.737	506.987	509.437
17.5	470.165	471.070	472.146	473.519	475.145	477.023	479.153	481.566	484.231	487.147
20.0	445.622	446.611	447.886	449.445	451.285	454.199	455.759	458.380	461.275	464.443
22.5	420.356	421.535	423.035	424.854	426.990	429.386	432.003	434.957	438.135	441.643
25.0	394.866	396.116	397.708	399.652	402.334	404.592	407.580	410.901	414.548	418.519
27.5	369.743	370.996	372.617	374.605	376.989	379.802	382.979	386.668	390.413	394.664
30.0	345.029	346.317	347.980	350.014	352.484	355.360	358.618	362.253	366.553	370.766
32.5	320.681	322.027	323.754	325.860	328.425	331.371	334.693	338.412	342.518	347.138
35.0	296.676	298.125	299.964	302.204	304.858	307.888	311.288	315.805	319.322	320.346
37.5	272.995	274.539	276.485	278.867	281.660	284.835	288.381	292.313	293.261	294.534
40.0	249.602	251.290	253.803	255.907	258.828	262.138	265.827	267.287	267.691	268.488
42.5	226.501	228.333	230.495	233.196	236.296	239.783	242.524	242.277	242.654	243.741
45.0	203.929	205.868	208.231	211.045	214.243	217.808	217.706	217.815	218.237	218.963
47.5	181.802	183.948	186.527	189.504	192.844	194.350	194.268	194.166	194.536	195.353
50.0	160.017	162.323	165.102	168.307	171.933	171.422	171.279	171.414	171.796	172.575
52.5	138.724	141.377	144.006	147.387	149.122	148.963	149.100	149.433	149.939	150.777
55.0	118.430	120.641	123.599	127.002	127.156	127.263	127.676	128.212	128.909	129.850
57.5	99.657	101.717	104.493	106.489	106.429	106.732	107.337	107.983	108.865	109.905
60.0	82.717	84.625	87.155	87.744	87.610	88.000	88.561	89.103	90.129	91.154
62.5	67.819	69.587	71.545	71.296	71.126	71.444	71.796	72.176	73.105	73.904
65.0	54.653	56.278	57.248	57.061	56.939	57.163	57.272	57.549	58.120	58.486
67.5	43.489	44.628	44.867	44.712	44.688	44.873	44.908	45.128	45.317	45.486
70.0	33.470	34.518	34.402	34.310	34.274	34.381	34.293	34.515	34.537	34.597
72.5	25.539	25.990	25.807	25.566	25.628	25.633	25.510	25.606	25.479	25.394
75.0	18.966	19.058	18.865	18.609	18.603	18.482	18.358	18.291	17.978	17.793
77.5	13.226	13.252	13.196	13.066	12.994	12.744	12.574	12.361	12.042	11.661
80.0	8.596	8.646	8.562	8.471	8.469	8.266	8.057	7.639	7.251	7.585
82.5	5.143	5.264	5.222	5.168	5.030	4.671	4.516	4.084	3.811	4.517
85.0	2.542	2.804	2.909	2.944	2.773	2.432	2.029	1.385	1.835	2.483
87.5	0.877	1.123	1.275	1.440	1.386	1.146	0.648	0.265	0.581	1.041
90.0	0.152	0.249	0.338	0.512	0.529	0.423	0.056	0.035	0.077	0.303
92.5	0.000	0.000	0.036	0.100	0.108	0.089	0.000	0.000	0.004	0.041
95.0	0.000	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>227.5</u>	<u>230.0</u>	<u>232.5</u>	<u>235.0</u>	<u>237.5</u>	<u>240.0</u>	<u>242.5</u>	<u>245.0</u>	<u>247.5</u>
0.0	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382
2.5	617.408	618.032	618.609	619.264	619.953	620.676	621.431	622.217	623.032	623.876
5.0	596.852	597.975	599.171	600.438	601.775	603.180	604.650	606.184	607.783	609.440
7.5	575.866	577.479	579.952	581.034	582.979	585.025	587.171	589.413	591.747	594.170
10.0	554.616	556.691	558.908	561.262	563.752	566.372	569.121	571.994	575.003	578.159
12.5	533.396	535.855	538.482	541.273	544.226	547.778	550.664	554.154	557.794	561.578
15.0	512.082	514.921	517.948	521.161	524.670	528.204	532.005	535.983	540.133	544.510
17.5	490.311	493.719	497.355	500.992	504.834	508.878	513.118	517.575	522.280	527.176
20.0	467.879	471.591	475.629	479.935	484.504	489.331	494.149	499.066	504.189	509.244
22.5	445.439	449.476	453.801	458.410	463.299	468.553	473.486	477.742	482.319	487.041
25.0	422.665	427.076	431.791	436.803	440.727	444.292	448.286	452.746	457.750	463.186
27.5	399.262	404.196	408.407	411.337	414.640	418.418	422.662	427.353	432.511	438.166
30.0	375.648	378.413	381.061	384.203	387.822	392.055	396.368	401.328	406.793	412.739
32.5	348.801	350.889	353.581	356.774	360.425	364.639	369.397	374.654	380.383	386.649
35.0	322.225	323.798	326.405	329.457	333.299	337.303	342.033	347.394	353.380	359.888
37.5	295.445	297.363	299.751	302.563	306.131	310.194	314.793	320.171	326.028	332.690
40.0	269.722	271.507	273.711	276.446	279.784	283.543	288.104	293.203	298.963	305.496
42.5	244.579	246.230	248.249	250.916	254.037	257.681	262.341	266.689	272.390	278.531
45.0	220.148	221.644	223.546	226.034	228.869	232.424	236.455	241.103	246.348	252.257
47.5	196.454	197.882	199.745	201.962	204.577	207.865	211.491	216.027	221.723	226.662
50.0	173.639	174.937	176.778	178.824	181.333	184.190	187.600	191.631	196.209	201.403
52.5	151.808	153.130	154.910	156.614	159.012	162.226	164.736	168.078	172.248	177.057
55.0	130.880	132.234	133.783	135.598	137.698	140.070	142.853	145.840	149.361	153.436
57.5	110.973	112.345	113.727	115.509	117.434	119.682	121.980	124.733	127.661	131.324
60.0	92.278	93.603	94.912	96.525	98.165	100.421	102.506	104.871	107.366	110.396
62.5	75.027	76.176	77.432	78.816	80.708	82.588	84.495	86.402	88.556	90.944
65.0	59.514	60.308	61.464	62.993	64.902	66.439	68.128	69.506	71.233	72.938
67.5	45.997	46.333	47.604	49.223	50.912	52.202	53.487	54.822	55.551	56.790
70.0	34.587	34.816	36.199	37.611	38.868	39.957	40.633	41.428	41.837	42.390
72.5	25.136	25.991	26.953	28.093	28.870	29.651	29.969	30.147	30.318	29.819
75.0	17.769	18.999	19.792	20.527	20.928	21.239	21.294	20.850	20.356	19.429
77.5	12.564	13.470	14.176	14.647	14.863	14.771	14.384	13.643	12.528	11.114

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CANDELA TABULATION - (Cont.)

80.0	8.512	9.227	9.844	10.133	10.206	9.832	9.090	8.083	6.547	4.663
82.5	5.393	6.011	6.549	6.769	6.707	6.280	5.307	3.999	2.205	1.640
85.0	3.118	3.647	4.082	4.291	4.160	3.704	2.757	1.227	0.232	0.629
87.5	1.572	2.026	2.304	2.491	2.369	1.894	0.989	0.000	0.000	0.164
90.0	0.508	0.932	1.184	1.269	1.152	0.702	0.000	0.000	0.000	0.000
92.5	0.127	0.282	0.472	0.537	0.409	0.000	0.000	0.000	0.000	0.000
95.0	0.018	0.034	0.123	0.152	0.030	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.005	0.011	0.012	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert.
Angles

Horizontal Angles

	<u>250.0</u>	<u>252.5</u>	<u>255.0</u>	<u>257.5</u>	<u>260.0</u>	<u>262.5</u>	<u>265.0</u>	<u>267.5</u>	<u>270.0</u>	<u>272.5</u>
0.0	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382
2.5	624.746	625.640	626.558	627.497	628.456	629.433	630.427	631.434	632.971	633.481
5.0	611.154	612.920	614.735	616.597	618.503	620.447	622.428	624.442	626.484	628.553
7.5	596.678	599.267	601.942	604.734	607.536	610.432	613.387	616.397	619.456	622.557
10.0	581.432	584.816	588.306	591.897	595.998	599.403	603.313	607.302	611.364	615.490
12.5	565.504	569.584	573.861	578.267	582.798	587.446	592.221	597.166	602.210	607.409
15.0	549.098	553.849	558.757	563.825	569.162	574.644	580.264	586.446	592.003	598.118
17.5	532.260	537.551	543.134	548.893	554.690	560.377	566.409	572.671	580.102	585.955
20.0	513.861	518.834	524.136	529.805	535.880	542.251	548.920	556.050	563.444	571.772
22.5	491.896	497.274	503.139	509.395	516.016	523.090	530.526	539.308	546.542	555.118
25.0	469.001	474.869	481.176	487.938	495.212	502.892	511.015	519.567	528.477	537.919

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CANDELA TABULATION - (Cont.)

27.5	444.446	451.191	458.247	465.548	473.324	481.649	490.600	499.698	509.411	520.630
30.0	419.186	426.224	433.901	443.168	450.459	459.333	468.763	478.728	489.173	500.086
32.5	393.447	400.763	408.606	417.222	426.401	435.971	445.995	456.596	467.772	479.453
35.0	366.998	374.677	382.907	391.745	401.190	411.409	422.130	433.351	445.174	457.281
37.5	339.973	348.132	356.475	365.651	375.404	385.829	396.999	408.488	420.440	432.904
40.0	312.613	320.695	329.347	338.877	348.905	359.381	370.435	382.366	394.802	407.729
42.5	285.635	293.335	302.034	311.364	321.515	332.267	343.984	355.560	368.408	381.773
45.0	258.997	266.368	274.684	283.828	293.910	304.748	316.294	328.512	341.329	355.074
47.5	233.422	239.854	247.583	256.604	266.284	277.099	288.623	300.940	313.989	327.686
50.0	207.226	213.777	221.281	229.599	239.123	249.364	260.889	273.089	286.144	300.000
52.5	182.335	188.377	195.454	203.279	212.196	222.202	233.842	245.222	258.082	271.834
55.0	158.221	163.875	170.208	177.668	185.815	195.304	205.799	217.282	230.034	243.840
57.5	135.268	140.318	145.979	152.664	160.378	168.846	178.873	189.854	201.920	215.242
60.0	113.908	117.893	122.962	128.597	135.593	143.534	152.656	162.842	175.257	192.690
62.5	93.753	97.051	101.126	106.088	111.673	119.342	127.079	139.640	154.751	171.637
65.0	74.958	77.653	80.686	84.797	89.631	95.803	106.242	119.992	134.722	151.096
67.5	57.926	59.739	62.021	65.274	68.834	77.770	89.198	102.226	116.110	131.975
70.0	42.956	43.899	44.958	46.776	53.665	63.054	73.558	85.397	98.512	112.496
72.5	29.793	29.619	29.667	34.552	41.087	49.120	58.781	69.621	81.832	95.009
75.0	18.484	17.643	20.317	24.609	30.060	36.533	44.795	54.795	65.898	78.436
77.5	9.218	10.815	13.721	16.609	20.582	25.777	32.186	40.643	50.836	62.319
80.0	4.857	6.452	8.739	10.981	13.118	16.727	21.654	27.995	36.611	47.051
82.5	2.687	3.854	5.123	6.841	8.424	9.783	12.988	17.643	23.910	32.645
85.0	1.284	2.104	2.975	3.940	5.059	5.981	6.550	9.318	13.697	19.874
87.5	0.451	0.981	1.589	2.178	2.764	3.347	3.600	3.375	5.679	9.774
90.0	0.116	0.317	0.714	1.112	1.433	1.649	1.668	1.242	0.224	5.679
92.5	0.000	0.079	0.213	0.468	0.660	0.711	0.548	0.000	1.242	3.371
95.0	0.000	0.000	0.050	0.124	0.231	0.217	0.000	0.551	1.668	3.590
97.5	0.000	0.000	0.000	0.025	0.040	0.000	0.224	0.718	1.649	3.329
100.0	0.000	0.000	0.000	0.000	0.001	0.045	0.239	0.668	1.433	2.739
102.5	0.000	0.000	0.000	0.000	0.000	0.028	0.134	0.477	1.112	2.138
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.056	0.225	0.714	1.547
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.086	0.316	0.944
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.116	0.401
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.141
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.813
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.085	0.702	1.683
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.143	0.511	1.152	2.101
127.5	0.000	0.000	0.000	0.000	0.008	0.070	0.280	0.664	1.269	2.194
130.0	0.000	0.000	0.000	0.000	0.010	0.070	0.213	0.608	1.184	2.001
132.5	0.000	0.000	0.000	0.000	0.004	0.026	0.146	0.366	0.932	1.677
135.0	0.000	0.000	0.000	0.000	0.000	0.011	0.043	0.227	0.508	1.231
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.019	0.061	0.303	0.647
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.028	0.077	0.364
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.035	0.091
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.056	0.350
147.5	0.000	0.000	0.000	0.000	0.000	0.017	0.079	0.200	0.423	0.750
150.0	0.000	0.000	0.000	0.000	0.005	0.049	0.110	0.290	0.529	0.908
152.5	0.000	0.000	0.000	0.000	0.000	0.031	0.113	0.223	0.512	0.839
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.071	0.183	0.338	0.705
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.115	0.249	0.420
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.008	0.152	0.300
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.171
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.011	0.024	0.040	0.072

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CANDELA TABULATION - (Cont.)

167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.048	0.080	0.117
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.044	0.088	0.133
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.023	0.070	0.116
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.040	0.080
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.037
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	275.0	277.5	280.0	282.5	285.0	287.5	290.0	292.5	295.0	297.5
0.0	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382
2.5	634.514	635.554	636.597	637.643	638.690	639.734	640.775	641.809	642.836	643.853
5.0	630.625	632.717	634.821	636.933	639.050	641.166	643.279	645.382	647.472	649.545
7.5	625.685	628.833	632.007	635.198	638.402	641.612	644.821	648.760	651.269	654.512
10.0	619.706	623.875	628.118	632.394	636.694	641.011	645.362	649.811	654.245	658.655
12.5	612.557	617.822	623.126	628.482	633.879	640.073	644.912	650.621	656.183	661.794
15.0	604.340	610.829	617.009	623.431	629.915	636.475	643.297	650.141	656.990	663.845
17.5	592.967	600.153	607.483	615.032	622.534	630.270	638.322	646.453	654.646	662.940
20.0	579.068	587.268	596.226	604.257	613.020	622.017	631.173	640.523	649.970	659.580
22.5	563.984	573.166	582.589	592.262	602.182	612.386	622.672	633.221	643.915	654.818
25.0	547.724	557.844	568.252	578.928	589.965	601.258	612.777	624.493	636.387	648.563
27.5	530.291	541.278	552.653	564.312	576.330	588.765	601.624	614.293	628.216	640.735
30.0	511.433	523.410	535.779	548.387	561.312	574.782	588.629	602.595	616.744	631.272
32.5	491.600	504.247	517.517	530.810	544.352	558.422	573.174	588.252	603.529	619.239
35.0	469.701	482.574	496.034	510.154	524.718	539.751	555.473	571.763	588.311	605.250
37.5	445.890	459.688	473.383	488.125	503.833	519.514	536.079	553.429	571.216	589.372
40.0	421.183	435.165	449.725	464.856	480.927	497.639	515.127	533.313	552.184	571.491
42.5	395.657	410.081	425.034	440.682	456.976	474.348	492.479	511.454	531.217	551.577
45.0	369.344	384.156	399.519	415.911	432.149	450.003	468.270	487.915	508.390	529.628
47.5	342.294	357.439	373.141	389.400	406.250	424.012	442.830	463.263	486.846	510.884
50.0	314.557	329.987	345.969	362.509	379.608	399.309	421.073	443.927	467.503	491.883
52.5	286.475	301.855	318.053	336.845	357.636	378.873	400.819	423.455	447.156	471.652
55.0	257.924	274.465	294.566	315.188	336.239	357.694	379.628	402.397	425.894	450.213
57.5	232.976	252.301	272.450	293.054	314.146	335.769	357.826	380.978	403.858	428.069
60.0	211.196	230.299	250.055	270.649	291.680	313.153	335.275	357.863	381.000	404.999
62.5	190.529	208.357	227.869	248.066	268.919	290.292	312.113	334.585	357.620	381.249
65.0	168.343	186.591	205.704	225.551	245.980	267.111	288.733	310.814	333.525	356.904
67.5	147.707	165.261	183.639	203.110	223.208	243.852	265.073	286.841	309.863	337.523
70.0	128.092	144.479	162.272	180.852	200.443	220.699	241.447	264.415	290.019	315.970
72.5	109.054	124.179	141.302	159.256	177.950	197.570	220.367	244.960	269.980	295.542
75.0	91.626	105.684	120.832	138.063	156.090	177.819	201.273	225.418	249.996	274.927
77.5	75.137	88.276	102.288	117.421	138.013	159.902	182.495	205.901	229.966	254.366
80.0	58.811	71.855	84.872	102.291	121.292	142.331	164.191	186.705	209.966	233.805
82.5	43.303	55.293	71.888	88.503	106.293	125.347	146.280	167.998	190.311	213.332
85.0	28.689	43.325	58.956	75.449	92.166	110.004	128.995	149.743	171.193	193.182
87.5	19.883	32.684	47.165	62.549	78.789	95.537	113.313	132.121	152.603	173.652
90.0	13.697	23.910	36.611	50.836	65.898	81.765	98.512	116.110	134.722	154.751
92.5	9.296	17.565	27.814	40.375	54.271	68.927	84.505	100.988	118.286	136.656
95.0	6.515	12.860	21.319	31.536	43.917	57.407	71.566	86.744	102.859	123.651
97.5	5.913	9.653	16.323	24.905	35.015	47.179	60.189	73.754	91.518	113.745
100.0	4.964	8.177	12.580	19.628	28.263	38.379	50.106	64.667	83.753	104.858
102.5	3.808	6.541	10.326	15.413	22.708	31.334	42.666	59.631	77.649	96.911
105.0	2.817	4.830	7.973	12.290	18.005	26.439	39.941	55.245	72.077	89.848
107.5	1.961	3.442	5.775	9.330	14.731	25.482	37.886	51.569	67.108	83.713
110.0	1.159	2.336	3.979	7.287	15.255	24.683	36.014	48.663	62.633	78.119
112.5	0.466	1.344	3.361	8.626	15.658	24.178	34.173	45.852	58.623	72.862

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CANDELA TABULATION - (Cont.)

115.0	0.160	1.293	5.025	9.853	15.858	23.539	32.481	43.004	54.840	67.713
117.5	0.845	3.075	6.169	10.521	15.949	22.644	30.784	40.014	50.951	62.817
120.0	2.241	4.291	7.092	10.732	15.646	21.518	28.801	37.236	46.887	57.844
122.5	3.091	5.025	7.562	10.840	15.003	20.284	26.499	34.177	42.730	52.701
125.0	3.460	5.258	7.556	10.578	14.141	18.830	24.307	30.903	38.614	47.367
127.5	3.435	5.133	7.249	9.906	13.250	17.201	22.101	27.582	34.459	41.949
130.0	3.173	4.719	6.648	8.997	11.957	15.480	19.729	24.699	30.376	37.740
132.5	2.683	4.047	5.763	7.945	10.502	13.626	17.165	21.636	27.417	34.244
135.0	2.112	3.277	4.765	6.666	8.961	11.625	15.032	19.666	25.014	30.933
137.5	1.478	2.453	3.751	5.278	7.321	10.230	13.903	17.929	22.656	27.661
140.0	0.748	1.646	2.726	4.399	6.738	9.532	12.650	16.333	20.319	24.838
142.5	0.398	1.116	2.562	4.311	6.406	8.757	11.514	14.677	18.100	22.082
145.0	0.795	1.588	2.649	4.113	5.980	8.056	10.471	13.165	16.136	19.421
147.5	1.236	1.871	2.765	3.974	5.366	7.307	9.362	11.715	14.258	16.960
150.0	1.391	2.017	2.803	3.718	5.033	6.449	8.232	10.295	12.580	14.919
152.5	1.331	1.937	2.640	3.538	4.514	5.765	7.224	8.763	10.722	12.821
155.0	1.100	1.645	2.340	3.086	4.021	5.053	6.240	7.575	9.098	10.680
157.5	0.841	1.285	1.805	2.555	3.343	4.197	5.248	6.344	7.486	8.913
160.0	0.462	0.891	1.360	1.844	2.532	3.332	4.160	5.045	6.089	7.127
162.5	0.326	0.484	0.822	1.320	1.834	2.356	3.088	3.867	4.644	5.419
165.0	0.259	0.453	0.663	0.896	1.335	1.812	2.293	2.778	3.352	4.038
167.5	0.156	0.329	0.543	0.763	0.990	1.224	1.605	2.026	2.461	2.889
170.0	0.179	0.227	0.292	0.503	0.716	0.932	1.148	1.374	1.600	1.914
172.5	0.163	0.211	0.259	0.309	0.358	0.490	0.677	0.864	1.052	1.240
175.0	0.120	0.160	0.201	0.241	0.282	0.322	0.363	0.404	0.445	0.491
177.5	0.062	0.086	0.110	0.135	0.159	0.183	0.207	0.230	0.254	0.277
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	<u>300.0</u>	<u>302.5</u>	<u>305.0</u>	<u>307.5</u>	<u>310.0</u>	<u>312.5</u>	<u>315.0</u>	<u>317.5</u>	<u>320.0</u>	<u>322.5</u>
0.0	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382
2.5	644.857	645.847	646.821	647.777	648.713	649.627	650.611	651.380	652.217	653.024
5.0	651.596	653.625	655.658	657.654	659.608	661.517	663.377	665.181	666.928	668.613
7.5	657.724	660.897	664.024	667.097	670.110	673.055	675.933	678.808	681.677	684.282
10.0	663.029	667.358	671.649	675.959	680.194	684.342	688.394	692.338	696.164	699.853
12.5	667.385	673.015	678.586	684.086	689.501	694.802	699.830	704.726	709.476	714.064
15.0	670.735	677.586	684.382	691.080	697.545	703.896	710.114	716.179	721.964	727.547
17.5	671.273	679.605	687.865	695.991	704.032	711.960	719.308	726.377	733.284	740.346
20.0	669.237	678.911	688.529	698.102	707.560	716.566	725.446	734.843	742.394	750.368
22.5	665.801	676.864	687.965	699.045	709.621	720.054	730.315	740.102	749.692	758.931
25.0	660.857	673.370	685.985	698.388	710.352	723.021	733.702	744.973	755.858	766.256
27.5	654.307	668.266	682.403	696.127	709.560	722.802	735.735	748.470	760.675	773.631
30.0	646.074	661.401	677.043	692.157	707.051	721.682	736.165	750.290	764.141	777.391
32.5	635.390	652.024	669.089	685.782	702.312	718.514	734.650	750.197	765.626	780.108
35.0	622.742	640.657	659.079	677.368	695.486	713.283	731.060	747.974	764.663	780.525
37.5	608.072	627.248	646.922	666.755	686.382	705.798	726.094	743.454	761.449	778.605
40.0	591.319	611.719	632.559	654.963	674.835	695.885	716.647	736.471	755.835	774.150
42.5	572.469	594.125	615.967	638.260	660.748	684.256	706.900	728.778	749.932	769.521
45.0	551.993	576.061	600.443	624.936	649.530	673.898	697.734	721.044	743.034	763.897
47.5	535.226	559.998	585.095	610.475	635.865	661.115	686.133	710.389	733.461	755.657
50.0	516.784	542.077	568.907	593.758	619.883	646.078	671.788	696.914	721.373	744.552
52.5	496.766	522.439	548.542	575.000	601.734	628.438	654.946	681.103	706.223	730.536
55.0	475.480	501.261	527.540	554.329	581.376	608.599	635.956	663.171	689.507	714.811
57.5	452.963	478.749	505.074	531.864	559.394	588.146	616.425	644.145	670.689	696.179
60.0	429.761	455.146	481.203	509.820	538.638	567.282	595.508	623.097	649.956	675.787

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CANDELA TABULATION - (Cont.)

62.5	405.607	431.946	460.080	488.439	516.993	545.348	573.344	600.829	627.522	653.354
65.0	383.624	410.916	438.635	466.555	494.581	522.580	550.242	577.390	603.914	629.517
67.5	362.975	389.850	416.824	444.139	471.651	499.129	526.387	553.147	579.253	606.499
70.0	342.159	368.564	395.036	421.522	448.281	475.178	501.911	528.252	556.319	585.331
72.5	321.329	347.210	373.059	399.027	424.846	450.896	476.969	505.497	535.447	564.147
75.0	300.306	325.781	351.213	376.509	401.684	426.647	454.697	485.020	515.485	542.936
77.5	279.094	304.155	329.181	354.296	378.598	405.495	435.272	464.933	493.817	521.780
80.0	257.915	282.330	306.935	331.393	357.679	387.326	416.505	445.241	473.529	501.353
82.5	236.815	260.497	284.484	310.013	339.813	368.951	397.883	426.008	453.632	480.361
85.0	215.864	238.860	262.759	292.445	321.809	350.761	379.172	406.938	434.041	460.449
87.5	195.186	217.436	246.227	275.702	303.862	332.270	360.319	387.738	414.454	440.477
90.0	175.257	201.920	230.033	258.082	286.144	313.989	341.329	368.408	394.802	420.440
92.5	160.858	187.281	214.296	241.539	268.690	295.950	322.775	349.132	374.995	400.331
95.0	148.333	173.656	199.229	225.568	251.811	278.166	304.364	330.208	355.518	379.957
97.5	137.086	160.977	185.443	210.379	235.660	261.750	286.285	311.332	336.214	360.067
100.0	126.535	149.232	172.621	196.137	220.390	244.502	268.840	292.979	316.963	340.296
102.5	117.340	138.371	160.661	183.181	206.066	229.177	252.300	275.502	298.321	320.988
105.0	109.003	128.849	149.509	170.960	192.427	214.790	237.147	258.854	280.579	302.417
107.5	101.386	120.111	139.269	159.551	180.034	201.150	222.142	243.057	263.786	284.648
110.0	94.410	111.977	130.116	148.936	168.315	188.123	208.009	227.973	247.864	267.673
112.5	88.133	104.285	121.407	139.005	157.321	175.680	194.567	213.428	232.480	251.396
115.0	82.002	96.708	113.046	129.553	146.751	164.063	181.812	199.538	217.685	235.641
117.5	75.887	89.892	104.815	120.416	136.434	152.828	169.543	186.395	203.453	220.413
120.0	69.725	82.760	96.435	111.283	126.380	141.890	157.544	173.490	189.592	205.676
122.5	63.515	75.490	88.501	102.322	116.450	131.097	145.827	160.869	175.945	191.117
125.0	57.258	68.462	80.731	93.512	106.773	120.410	134.263	148.410	162.565	176.696
127.5	51.441	61.557	73.076	84.731	97.129	109.785	122.781	135.710	149.614	162.738
130.0	46.082	55.517	65.614	76.218	87.558	99.670	111.261	123.549	135.979	148.567
132.5	41.548	49.790	58.496	68.113	78.205	88.696	99.792	111.030	122.552	134.234
135.0	37.431	44.547	52.094	60.582	69.301	78.765	88.620	98.931	109.188	119.850
137.5	33.550	39.698	46.476	53.677	61.193	69.550	78.061	86.915	96.305	105.743
140.0	29.812	35.123	41.127	47.321	54.028	61.112	68.338	76.168	84.044	92.404
142.5	26.240	30.996	36.054	41.343	47.274	53.336	59.596	66.373	73.220	79.885
145.0	22.955	27.095	31.286	35.972	40.951	46.041	51.555	57.315	63.129	67.546
147.5	20.162	23.461	27.010	31.009	35.098	39.246	44.114	48.918	52.674	56.552
150.0	17.495	20.158	23.301	26.510	29.776	33.488	37.223	40.357	43.429	46.815
152.5	14.986	17.405	19.853	22.493	25.287	28.017	30.525	32.989	35.642	38.376
155.0	12.594	14.647	16.742	18.821	20.850	22.853	24.828	26.841	29.039	31.181
157.5	10.424	11.879	13.336	15.022	16.677	18.298	19.913	21.633	23.348	25.022
160.0	8.161	9.255	10.530	11.780	13.013	14.359	15.621	17.012	18.364	19.675
162.5	6.298	7.219	8.132	9.034	9.966	10.990	12.045	13.076	14.083	15.062
165.0	4.719	5.394	6.063	6.764	7.541	8.305	9.054	9.787	10.502	11.255
167.5	3.317	3.762	4.333	4.897	5.451	5.995	6.529	7.051	7.571	8.153
170.0	2.271	2.626	2.978	3.326	3.671	4.011	4.400	4.749	5.159	5.557
172.5	1.428	1.616	1.805	1.993	2.205	2.466	2.720	2.969	3.211	3.446
175.0	0.607	0.742	0.876	1.007	1.136	1.259	1.388	1.510	1.629	1.745
177.5	0.300	0.322	0.345	0.366	0.388	0.409	0.428	0.449	0.469	0.488
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	<u>325.0</u>	<u>327.5</u>	<u>330.0</u>	<u>332.5</u>	<u>335.0</u>	<u>337.5</u>	<u>340.0</u>	<u>342.5</u>	<u>345.0</u>	<u>347.5</u>
0.0	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382	637.382
2.5	653.800	654.544	655.253	655.927	656.564	657.163	657.722	658.241	659.550	659.731
5.0	670.231	671.780	673.256	674.655	675.975	677.212	678.364	679.429	680.403	681.286
7.5	686.867	689.342	691.701	693.938	696.047	698.023	699.860	701.555	703.102	704.498

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CANDELA TABULATION - (Cont.)

10.0	703.259	706.527	709.639	712.587	715.362	717.956	720.363	722.577	724.591	726.401
12.5	718.477	722.698	726.684	730.470	734.044	737.394	740.509	743.377	745.991	748.339
15.0	732.943	738.135	743.103	747.737	752.035	756.070	759.828	763.293	766.480	769.291
17.5	746.275	752.308	758.099	763.624	768.782	773.426	777.747	781.727	785.348	788.594
20.0	758.082	765.173	771.700	777.931	783.835	789.379	794.547	799.340	803.729	807.686
22.5	767.581	775.896	783.811	791.178	798.101	804.638	810.695	816.133	821.147	825.699
25.0	776.340	785.813	794.853	803.934	811.101	818.235	824.938	831.004	836.244	841.030
27.5	783.875	794.740	804.823	814.117	822.958	830.394	837.108	843.156	848.567	853.794
30.0	790.109	802.024	813.102	823.481	832.606	841.149	848.248	854.539	860.025	864.755
32.5	794.310	807.241	819.760	830.875	841.330	850.242	858.944	865.380	871.554	876.682
35.0	795.636	809.953	823.252	836.019	847.316	858.082	867.140	875.205	881.848	887.518
37.5	794.766	810.391	824.692	838.410	851.059	862.412	873.613	882.004	890.633	897.166
40.0	791.470	808.174	823.720	838.497	852.769	864.752	875.915	885.809	894.233	902.056
42.5	788.285	806.239	822.755	838.412	853.209	866.154	877.654	887.896	896.144	903.149
45.0	783.916	802.733	820.224	836.764	852.172	865.804	878.170	889.256	898.287	906.018
47.5	776.710	796.312	814.934	832.481	848.080	862.383	875.312	886.352	895.377	903.010
50.0	766.316	787.110	807.063	823.992	840.070	854.947	868.039	879.243	888.827	896.871
52.5	753.558	774.831	794.405	812.619	829.394	844.309	857.962	871.239	881.288	891.049
55.0	738.067	759.923	780.376	798.716	815.608	831.269	846.796	860.379	872.114	881.812
57.5	720.516	742.874	763.485	782.647	800.929	818.558	834.708	848.451	860.465	869.712
60.0	700.269	723.438	744.705	766.163	786.285	804.174	820.351	834.794	846.663	855.853
62.5	678.223	702.066	726.617	748.904	769.202	788.495	804.284	819.135	830.890	840.917
65.0	655.479	682.223	706.897	729.804	750.377	769.302	786.333	801.050	813.573	824.446
67.5	634.549	661.297	686.041	709.087	730.118	749.112	766.331	781.302	794.475	805.743
70.0	613.068	639.482	664.634	687.663	708.919	727.976	745.314	760.564	774.074	785.676
72.5	592.675	617.468	642.075	665.487	687.101	706.167	723.598	739.181	753.159	765.189
75.0	570.065	595.676	619.887	642.646	663.892	683.535	701.228	717.105	732.167	743.947
77.5	548.609	574.202	598.166	621.118	640.776	659.909	677.822	694.210	708.962	721.639
80.0	527.452	552.601	576.628	598.156	618.017	636.721	654.338	670.653	685.596	698.014
82.5	506.670	531.652	554.662	575.568	595.345	613.815	631.093	647.156	661.999	673.620
85.0	485.995	510.759	532.741	553.349	572.794	591.115	608.209	623.991	638.617	649.339
87.5	465.716	489.146	510.791	531.207	550.551	568.701	585.707	601.548	615.366	625.642
90.0	445.174	467.773	489.172	509.411	528.477	546.542	563.444	580.102	592.003	602.090
92.5	424.221	446.666	467.960	488.115	507.082	524.978	541.730	557.345	568.855	578.900
95.0	403.392	425.900	447.191	467.251	486.172	504.028	520.745	535.952	546.383	555.976
97.5	382.976	405.733	426.304	446.657	465.596	483.670	500.416	514.245	524.231	533.439
100.0	362.983	384.792	405.686	425.666	444.840	463.118	480.419	492.813	502.349	511.173
102.5	343.192	364.712	385.438	405.284	424.219	442.249	459.379	470.007	479.640	488.456
105.0	323.790	344.815	365.268	384.988	403.805	421.759	437.248	447.330	456.660	465.229
107.5	305.087	325.421	345.246	364.508	383.191	401.132	415.656	424.508	433.616	442.002
110.0	287.184	306.689	325.719	344.352	362.554	380.129	391.364	400.956	409.938	418.201
112.5	270.113	288.680	306.844	324.756	342.275	357.930	367.858	377.237	385.925	393.770
115.0	253.567	271.299	288.664	305.822	322.571	335.435	344.923	353.903	362.225	369.873
117.5	237.503	254.392	270.998	287.428	303.440	313.541	322.550	331.073	339.002	346.317
120.0	221.850	237.850	253.682	269.355	283.108	292.094	300.634	308.682	316.183	323.116
122.5	206.400	221.555	236.595	251.455	262.324	270.830	278.922	286.488	293.633	300.188
125.0	191.142	205.328	219.521	233.208	241.699	250.281	257.427	264.608	271.290	277.456
127.5	176.116	189.844	202.692	213.312	221.223	228.763	235.998	242.780	249.088	254.845
130.0	161.131	173.646	186.061	193.801	201.155	208.183	214.894	221.189	227.044	232.442
132.5	145.919	157.606	167.185	174.332	181.336	187.887	194.088	199.901	205.306	210.282
135.0	130.530	141.024	148.254	155.056	161.418	167.649	173.429	178.819	183.801	188.362
137.5	115.218	123.065	129.665	135.934	142.438	147.577	152.954	157.953	162.560	166.762
140.0	99.928	106.096	111.986	117.533	122.921	128.190	133.107	137.662	141.845	145.647
142.5	85.261	90.585	95.695	100.579	105.340	110.036	114.424	118.495	122.240	125.651
145.0	72.192	76.674	80.983	85.108	89.273	93.347	97.170	100.731	104.019	107.026
147.5	60.481	64.251	67.899	71.548	74.969	78.391	81.607	84.606	87.380	89.920

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CANDELA TABULATION - (Cont.)

150.0	50.081	53.224	56.237	59.198	62.232	65.097	67.787	70.292	72.608	74.727
152.5	41.021	43.572	46.023	48.557	51.059	53.421	55.635	57.698	59.604	61.349
155.0	33.262	35.279	37.251	39.377	41.398	43.309	45.106	46.784	48.338	49.765
157.5	26.652	28.232	29.885	31.548	33.134	34.640	36.061	37.393	38.632	39.772
160.0	20.942	22.200	23.540	24.825	26.051	27.216	28.305	29.347	30.305	31.188
162.5	16.040	17.079	18.084	19.085	20.015	20.894	21.720	22.490	23.203	23.858
165.0	11.999	12.784	13.539	14.260	14.948	15.600	16.214	16.789	17.323	17.815
167.5	8.716	9.260	9.781	10.283	10.759	11.211	11.638	12.037	12.409	12.751
170.0	5.942	6.313	6.669	7.009	7.334	7.640	7.930	8.200	8.451	8.682
172.5	3.674	3.895	4.107	4.310	4.504	4.688	4.862	5.025	5.169	5.316
175.0	1.857	1.966	2.071	2.171	2.267	2.358	2.444	2.525	2.600	2.668
177.5	0.506	0.523	0.540	0.556	0.571	0.586	0.599	0.612	0.645	0.649
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	<u>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	637.382	637.382	637.382	637.382	637.382
2.5	659.914	660.099	660.284	660.471	660.658
5.0	682.868	683.215	683.564	683.916	684.268
7.5	705.740	707.565	708.078	708.593	709.110
10.0	728.003	729.393	731.005	731.638	732.274
12.5	750.416	752.214	754.316	755.098	755.884
15.0	771.801	773.971	776.573	777.443	778.376
17.5	791.454	793.916	795.973	797.827	798.854
20.0	811.188	814.210	816.734	819.011	820.227
22.5	829.753	833.275	836.235	838.916	840.369
25.0	845.320	849.074	852.259	855.162	856.818
27.5	858.577	862.854	866.611	870.000	872.037
30.0	870.208	874.934	878.891	882.448	884.458
32.5	880.451	885.551	890.179	894.555	897.102
35.0	891.528	894.205	899.284	903.808	907.397
37.5	901.910	904.329	906.037	911.495	916.013
40.0	908.214	913.107	914.522	916.473	922.839
42.5	909.364	915.073	920.408	921.256	925.525
45.0	912.621	917.773	921.262	923.525	924.518
47.5	909.160	913.528	919.389	921.939	925.525
50.0	904.673	911.608	915.056	915.267	922.839
52.5	899.419	904.439	906.107	910.096	916.013
55.0	889.906	893.596	895.877	902.271	907.397
57.5	876.723	881.533	886.291	892.351	897.102
60.0	862.940	868.295	874.705	880.294	884.458
62.5	848.425	854.546	861.558	867.436	872.037
65.0	832.758	840.188	847.028	852.588	856.818
67.5	815.007	823.307	830.401	836.866	840.369
70.0	795.480	803.717	810.631	816.888	820.227
72.5	775.032	783.027	789.663	795.598	798.854
75.0	753.700	761.863	768.713	774.898	778.376
77.5	731.080	739.256	746.128	752.341	755.884
80.0	707.530	715.700	722.531	728.670	732.274
82.5	683.292	691.643	698.733	705.185	709.110
85.0	658.747	666.932	673.900	680.244	684.268
87.5	634.836	642.936	649.936	656.377	660.658
90.0	611.364	619.456	626.484	632.971	637.382
92.5	587.886	595.897	602.921	609.449	613.995
95.0	564.703	572.537	579.457	585.922	590.496

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CANDELA TABULATION - (Cont.)

97.5	541.703	549.405	556.114	562.397	566.885
100.0	519.251	526.550	533.041	539.135	543.498
102.5	496.438	503.577	509.867	515.729	519.887
105.0	473.019	480.018	486.213	492.006	496.165
107.5	449.644	456.524	462.625	468.339	472.442
110.0	425.722	432.483	438.467	444.066	448.048
112.5	401.084	407.634	413.413	418.804	422.646
115.0	376.834	383.095	388.645	393.702	397.581
117.5	352.999	359.031	364.397	369.433	373.075
120.0	329.460	335.196	340.304	345.102	348.568
122.5	306.183	311.597	316.411	320.931	324.174
125.0	283.084	288.158	292.661	296.883	299.892
127.5	260.207	264.979	269.204	273.160	275.945
130.0	237.361	241.783	245.690	249.344	251.887
132.5	214.811	218.870	222.443	225.777	228.052
135.0	192.486	196.158	199.365	202.342	204.329
137.5	170.547	173.902	176.816	179.513	181.278
140.0	149.061	152.078	155.531	157.102	158.674
142.5	128.719	131.436	134.545	135.978	137.413
145.0	109.740	112.153	114.919	116.206	117.495
147.5	92.217	94.262	96.606	97.706	98.808
150.0	76.641	78.346	80.295	81.215	82.135
152.5	62.927	64.332	65.884	66.705	67.476
155.0	51.060	52.217	53.535	54.183	54.831
157.5	40.811	41.743	42.804	43.334	43.865
160.0	31.992	32.714	33.537	33.945	34.353
162.5	24.452	24.983	25.587	25.886	26.185
165.0	18.263	18.665	19.121	19.352	19.582
167.5	13.063	13.500	13.662	13.824	13.987
170.0	8.892	9.187	9.295	9.403	9.511
172.5	5.444	5.623	5.688	5.754	5.819
175.0	2.791	2.820	2.850	2.879	2.909
177.5	0.653	0.658	0.662	0.667	0.671
180.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	232.83	N.A.	8.40
0-30	498.70	N.A.	18.00
0-40	826.04	N.A.	29.80
0-60	1514.34	N.A.	54.60
0-80	2062.26	N.A.	74.30
0-90	2265.16	N.A.	81.70
10-90	2205.19	N.A.	79.50
20-40	593.21	N.A.	21.40
20-50	943.98	N.A.	34.00
40-70	986.59	N.A.	35.60
60-80	547.92	N.A.	19.80
70-80	249.63	N.A.	9.00
80-90	202.89	N.A.	7.30
90-110	289.36	N.A.	10.40
90-120	382.97	N.A.	13.80
90-130	446.43	N.A.	16.10
90-150	500.81	N.A.	18.10
90-180	508.63	N.A.	18.30
110-180	219.27	N.A.	7.90
0-180	2773.78	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	59.96
10-20	172.86
20-30	265.87
30-40	327.34
40-50	350.77
50-60	337.54
60-70	298.29
70-80	249.63
80-90	202.89
90-100	162.60
100-110	126.76
110-120	93.61
120-130	63.46
130-140	37.01
140-150	17.37
150-160	6.24
160-170	1.46
170-180	0.12

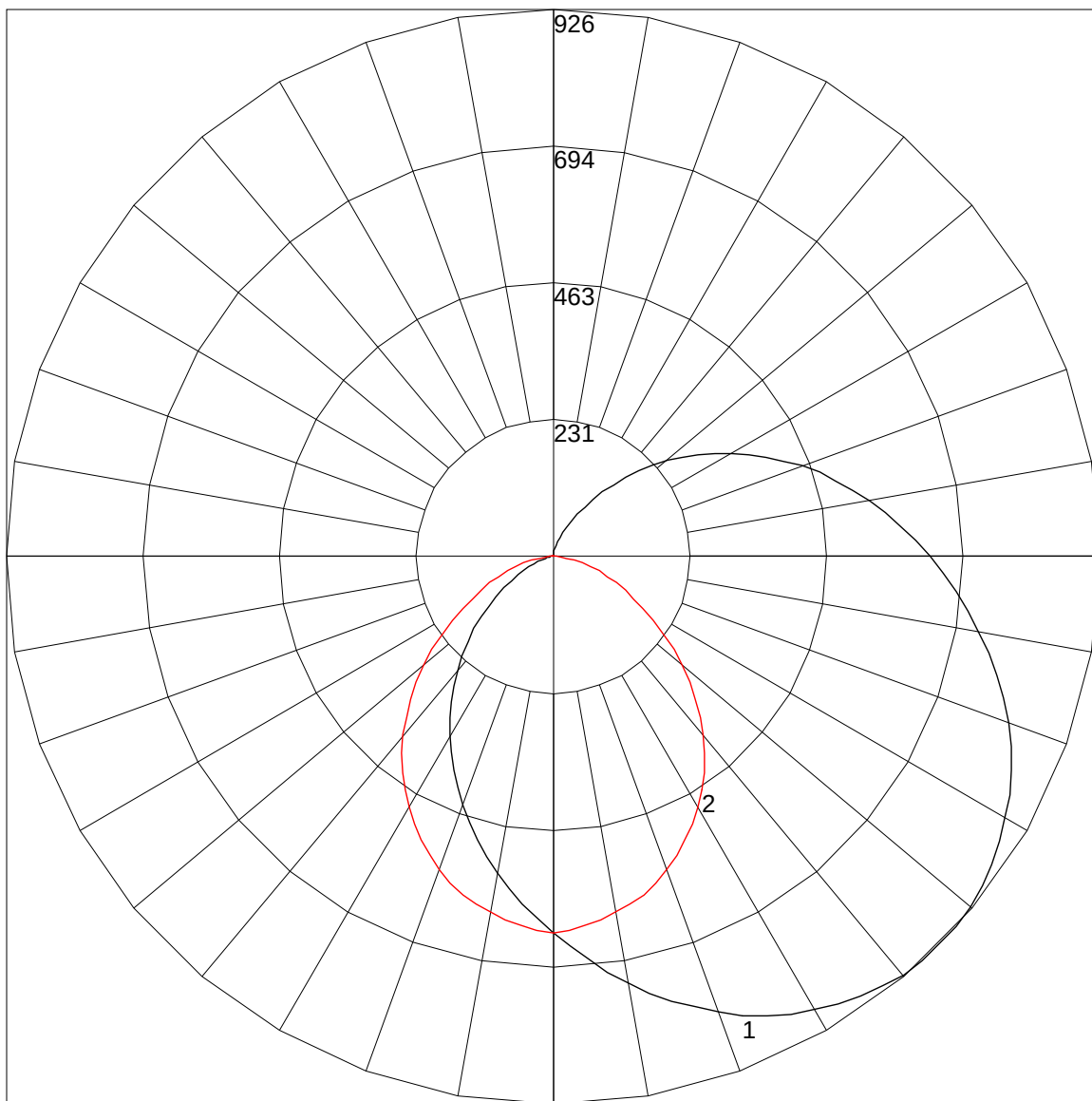
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	85	85	85	82
1	102	96	91	86	97	92	87	83	84	80	77	77	74	71	70	68	66	62
2	92	82	74	68	87	79	72	66	72	66	61	66	61	57	60	57	53	50
3	83	71	63	55	79	68	60	54	63	56	50	58	52	47	53	48	44	41
4	76	63	54	46	72	60	52	45	55	48	42	51	45	40	47	42	37	35
5	69	56	46	39	66	54	45	38	49	42	36	45	39	34	42	36	32	30
6	64	50	41	34	61	48	40	33	44	37	32	41	35	30	38	32	28	26
7	59	45	36	30	56	43	35	29	40	33	28	37	31	26	34	29	25	22
8	55	41	32	26	52	40	31	26	37	30	25	34	28	23	32	26	22	20
9	51	38	29	24	49	36	28	23	34	27	22	31	25	21	29	24	20	18
10	48	35	27	21	46	33	26	21	31	24	20	29	23	19	27	22	18	16

POLAR GRAPH



Maximum Candela = 925.525 Located At Horizontal Angle = 0, Vertical Angle = 42.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Vertical Plane Through Horizontal Angles (90 - 270)