



IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCNL48LFA35.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]MCNL48LFA35
[MORE]LOW POWER SETTING (OUTPUT 620MA)
[LUMINAIRE]SURFACE MOUNT
[LAMP]LED
[LAMP CATEGORY]NA. LUMINAIRE OUTPUT = 2531 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	2531
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
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	5969	4199	2014
55	7176	4558	1604
65	9099	5064	1193
75	13187	6106	834
85	30974	9975	321

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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	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562
2.5	602.798	602.627	602.457	602.288	602.119	601.953	601.787	600.593	600.120	599.610
5.0	624.342	624.021	623.700	623.381	623.065	621.621	620.816	619.927	618.955	617.904
7.5	647.008	646.536	646.066	645.598	643.933	642.800	641.526	640.114	638.568	636.892
10.0	668.142	667.562	666.984	665.513	664.245	662.784	661.132	659.295	657.275	655.079
12.5	689.686	688.969	688.255	686.337	684.697	682.766	680.659	678.275	675.657	672.815
15.0	710.208	709.357	708.511	706.189	704.209	701.919	699.328	696.446	693.285	689.856
17.5	728.892	727.955	726.263	724.386	722.140	719.531	716.568	713.265	709.633	705.691
20.0	748.393	747.283	745.206	742.903	740.145	736.950	733.340	729.335	724.950	720.247
22.5	766.771	765.444	762.981	760.298	757.085	753.386	749.233	744.658	739.696	734.147
25.0	781.780	780.270	777.620	774.714	771.289	767.375	763.007	758.225	752.691	746.575
27.5	795.665	793.806	790.670	787.287	783.385	779.020	774.251	769.314	763.795	757.669
30.0	806.998	805.164	801.919	798.309	793.997	789.022	784.706	779.700	773.960	767.483
32.5	818.536	816.212	812.219	807.996	803.342	799.903	795.225	789.592	783.719	775.774
35.0	827.929	824.654	820.526	815.892	813.449	809.791	804.618	798.556	791.197	782.933
37.5	835.791	831.669	826.688	825.129	822.922	818.593	812.633	804.760	797.103	786.876
40.0	842.019	836.210	834.429	833.138	828.674	823.056	815.917	808.232	799.200	789.018
42.5	844.469	840.573	839.800	834.932	829.723	824.053	817.660	810.135	800.800	790.297
45.0	843.550	842.644	840.580	837.396	832.695	826.670	819.616	811.377	801.261	789.978
47.5	844.469	841.197	838.870	833.523	829.538	823.926	816.961	808.725	798.653	786.856
50.0	842.019	835.109	834.917	831.771	825.442	818.324	810.985	802.232	792.017	780.071
52.5	835.791	830.421	826.752	825.229	820.649	813.012	804.106	794.937	782.823	770.366
55.0	827.929	823.252	817.417	815.336	811.971	804.585	795.736	785.028	772.635	758.465
57.5	818.536	814.201	808.671	804.329	799.941	793.544	785.107	774.145	761.606	746.870
60.0	806.998	803.198	798.100	792.252	787.366	780.900	772.514	761.684	748.507	733.746
62.5	795.665	791.467	786.104	779.707	774.122	767.271	758.122	747.397	733.847	719.440
65.0	781.780	777.920	772.847	766.606	759.826	752.242	742.322	730.896	717.468	701.927
67.5	766.771	763.574	757.675	751.203	743.630	735.178	724.896	712.877	699.216	683.506
70.0	748.393	745.347	739.638	733.329	725.813	716.868	706.281	693.955	680.073	664.221
72.5	728.892	725.921	720.505	714.451	707.156	698.176	687.199	674.445	660.226	644.322
75.0	710.208	707.035	701.391	695.141	687.692	678.794	668.045	654.303	639.816	623.673
77.5	689.686	686.454	680.784	674.513	667.054	658.440	646.873	633.413	618.460	602.115
80.0	668.142	664.854	659.253	653.020	645.565	636.883	625.553	611.918	597.032	580.958
82.5	647.008	643.427	637.539	631.070	623.451	614.699	604.024	590.479	575.823	560.057
85.0	624.342	620.670	614.882	608.524	601.056	592.471	582.688	569.343	554.944	539.346
87.5	602.798	598.892	593.015	586.629	579.239	570.849	561.474	548.960	534.413	518.896
90.0	581.562	577.538	571.618	565.206	557.822	549.470	540.157	529.298	514.098	498.676
92.5	560.223	556.075	550.119	543.710	536.400	528.201	519.127	508.533	494.286	479.001
95.0	538.782	534.609	528.709	522.395	515.247	507.285	498.532	489.015	475.140	459.887
97.5	517.239	513.143	507.411	501.290	494.387	486.722	478.320	469.209	456.592	441.311
100.0	495.900	491.919	486.359	480.437	473.776	466.406	458.355	449.654	438.345	422.559
102.5	474.357	470.563	465.214	459.475	452.961	445.677	437.634	428.844	419.147	403.518
105.0	452.711	448.917	443.630	437.978	431.593	424.485	416.667	408.154	398.955	384.823
107.5	431.066	427.322	422.109	416.542	410.265	403.292	395.641	387.331	379.255	366.003
110.0	408.808	405.303	400.067	394.607	388.439	381.576	374.037	365.842	357.089	346.838
112.5	385.632	382.128	377.215	371.961	366.020	359.405	352.126	344.200	335.642	326.583
115.0	362.761	359.349	354.607	349.544	343.831	337.480	330.502	322.908	314.715	306.058
117.5	340.401	337.079	332.483	327.588	322.084	315.987	309.313	302.078	294.301	286.080
120.0	318.042	314.880	310.501	305.840	300.607	294.818	288.492	281.648	274.306	266.514
122.5	295.784	292.825	288.701	284.308	279.369	273.899	267.918	261.443	254.495	247.111
125.0	273.628	270.883	267.031	262.922	258.292	253.157	247.532	241.435	234.882	228.363
127.5	251.779	249.238	245.629	241.774	237.419	232.580	227.274	221.518	215.330	208.728
130.0	229.827	227.507	224.173	220.609	216.574	212.085	207.161	201.818	196.075	189.951
132.5	208.080	206.004	202.962	199.702	195.998	191.867	187.326	182.394	177.090	171.433

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CANDELA TABULATION - (Cont.)

135.0	186.435	184.622	181.905	178.979	175.629	171.866	167.705	163.158	158.241	152.967
137.5	165.402	163.791	161.331	158.733	155.611	152.157	148.406	144.120	139.559	134.682
140.0	144.778	143.343	141.910	138.760	136.007	132.892	129.423	125.606	121.450	116.963
142.5	125.379	124.070	122.761	119.925	117.446	114.647	111.535	108.118	104.403	100.399
145.0	107.205	106.029	104.854	102.331	100.129	97.652	94.909	91.908	88.660	85.172
147.5	90.154	89.149	88.145	86.007	84.140	82.045	79.727	77.196	74.459	71.526
150.0	74.941	74.102	73.319	71.484	69.929	68.182	66.249	64.136	61.850	59.396
152.5	61.566	60.863	60.161	58.698	57.415	55.976	54.384	52.645	50.763	48.742
155.0	50.029	49.437	48.846	47.644	46.587	45.406	44.105	42.687	41.155	39.517
157.5	40.023	39.539	39.056	38.088	37.237	36.289	35.248	34.119	32.903	31.607
160.0	31.345	30.973	30.601	29.850	29.191	28.457	27.651	26.776	25.836	24.832
162.5	23.891	23.618	23.346	22.808	22.310	21.768	21.188	20.520	19.817	19.073
165.0	17.868	17.658	17.448	17.032	16.665	16.256	15.807	15.319	14.795	14.234
167.5	12.763	12.614	12.466	12.318	11.933	11.635	11.323	10.984	10.635	10.230
170.0	8.679	8.580	8.482	8.384	8.114	7.923	7.712	7.483	7.236	6.972
172.5	5.309	5.249	5.190	5.130	4.967	4.851	4.723	4.585	4.436	4.278
175.0	2.655	2.628	2.601	2.574	2.547	2.435	2.373	2.305	2.231	2.154
177.5	0.613	0.609	0.605	0.601	0.597	0.593	0.589	0.559	0.548	0.535
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	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562
2.5	599.063	598.482	597.867	597.220	596.541	595.833	595.097	594.299	593.546	592.734
5.0	616.775	615.571	614.294	612.947	611.534	610.057	608.520	606.926	605.279	603.583
7.5	635.089	633.165	631.124	628.971	626.713	624.354	621.901	619.360	616.737	614.111
10.0	652.712	650.180	647.490	644.651	641.668	638.552	635.196	631.704	628.106	624.409
12.5	669.758	666.497	663.042	659.406	655.554	651.528	647.341	643.008	638.541	633.953
15.0	686.173	682.251	678.024	673.490	668.754	663.830	658.736	653.457	647.924	642.251
17.5	701.454	696.747	691.706	686.423	680.918	675.437	669.065	662.763	656.313	649.608
20.0	715.188	709.801	704.116	698.160	691.690	684.652	677.377	670.488	661.914	653.811
22.5	728.205	721.888	715.166	707.944	700.357	692.465	684.036	675.286	666.356	656.994
25.0	740.066	733.498	725.241	716.993	708.349	699.145	689.662	679.730	669.446	659.700
27.5	750.884	742.818	734.338	725.139	715.225	705.877	694.056	682.921	671.301	659.434
30.0	759.688	751.363	741.892	731.784	720.913	709.292	697.218	684.581	671.693	658.479
32.5	767.648	758.108	747.967	736.544	724.746	711.788	698.574	684.496	670.311	655.588
35.0	773.109	762.802	751.153	738.977	725.956	712.168	697.695	682.467	667.036	650.816
37.5	776.525	764.979	752.468	739.419	725.162	710.416	694.763	678.344	662.505	643.986
40.0	778.084	765.058	751.581	737.396	722.155	706.351	689.572	671.973	653.886	634.942
42.5	778.486	764.986	750.700	735.631	719.249	702.128	684.255	664.953	644.992	624.331
45.0	777.540	763.482	748.391	732.431	715.265	696.997	677.962	657.897	636.629	614.880
47.5	773.807	759.581	743.563	726.572	708.687	689.478	669.226	648.175	626.044	603.216
50.0	766.498	751.829	736.381	718.177	699.204	679.344	658.197	635.880	612.951	589.495
52.5	756.759	741.452	724.833	706.973	687.562	666.557	644.366	621.454	597.587	573.394
55.0	744.179	728.766	712.033	693.370	673.428	652.210	629.122	605.092	580.261	555.299
57.5	730.786	714.105	696.621	677.815	657.416	635.210	611.951	587.732	562.440	536.637
60.0	717.423	699.064	679.485	660.081	638.942	616.603	593.034	568.528	543.354	517.600
62.5	701.838	683.316	662.983	640.581	618.826	596.150	572.566	548.210	523.132	497.587
65.0	684.660	665.890	644.989	622.476	598.073	574.385	551.025	526.823	502.052	476.814
67.5	666.176	646.987	626.053	603.382	578.976	553.384	528.523	504.703	480.288	455.417
70.0	646.833	627.439	606.427	583.477	559.377	534.068	507.598	481.989	457.955	433.563
72.5	626.927	607.205	585.842	563.391	540.770	514.740	488.554	461.227	435.198	411.408
75.0	605.749	586.364	565.598	543.507	520.140	495.386	470.340	442.543	414.877	389.283
77.5	584.657	566.721	545.779	523.914	500.563	476.083	450.570	424.215	397.153	369.983
80.0	563.892	545.910	526.128	504.205	481.259	457.445	432.059	406.248	380.029	353.405

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CANDELA TABULATION - (Cont.)

82.5	543.205	525.160	506.086	485.090	462.297	438.427	414.180	388.699	363.304	336.807
85.0	522.630	504.887	486.084	466.027	443.432	420.124	396.030	371.300	345.965	320.042
87.5	502.335	484.685	466.056	446.307	424.930	401.901	378.158	353.781	328.763	303.170
90.0	482.194	464.798	446.332	426.806	406.187	383.619	360.225	336.144	311.436	286.490
92.5	462.673	445.519	426.977	407.549	387.069	365.270	342.153	318.555	294.507	270.031
95.0	443.595	426.331	408.027	388.601	368.063	346.681	324.382	301.289	277.708	253.805
97.5	425.027	407.539	388.969	370.200	349.436	328.533	306.769	284.066	261.257	238.827
100.0	405.881	388.386	370.157	351.092	331.194	310.494	289.204	267.321	245.296	223.090
102.5	387.067	369.791	351.683	332.772	313.137	292.876	272.195	251.375	230.205	209.106
105.0	368.441	351.272	333.278	314.617	295.434	275.933	256.008	236.185	216.379	195.979
107.5	349.633	332.586	315.011	296.922	278.369	259.719	240.891	221.771	202.687	183.533
110.0	330.802	314.447	297.193	279.830	262.033	244.231	226.156	208.007	189.792	171.993
112.5	312.300	296.314	279.971	263.398	246.457	229.379	212.120	194.737	177.528	160.294
115.0	294.321	279.038	263.383	247.539	231.360	215.005	198.621	182.062	165.889	149.695
117.5	276.865	262.256	247.265	232.113	216.703	201.109	185.635	170.072	154.696	139.444
120.0	258.314	245.765	231.465	217.020	202.421	187.664	172.989	158.297	143.747	129.464
122.5	239.351	229.434	215.875	202.153	188.325	174.380	160.537	146.780	133.056	119.616
125.0	220.532	212.785	200.297	187.347	174.402	161.362	148.328	135.413	122.505	109.865
127.5	201.850	194.631	184.941	173.218	160.692	148.486	136.511	124.095	112.028	100.170
130.0	183.538	176.828	169.845	158.438	147.020	135.556	124.070	112.729	101.517	90.940
132.5	165.455	159.158	152.544	143.803	133.295	122.478	111.819	101.357	91.052	80.928
135.0	147.369	141.477	135.270	128.762	119.098	109.353	99.625	90.266	80.858	71.868
137.5	129.963	124.029	118.310	112.287	105.127	96.482	87.871	79.499	71.225	63.459
140.0	112.156	107.291	102.179	96.804	91.176	84.311	76.880	69.497	62.353	55.760
142.5	96.115	91.770	87.314	82.651	77.793	72.888	66.807	60.720	54.377	48.665
145.0	81.455	77.654	73.890	69.958	65.869	61.630	57.607	52.296	47.179	42.010
147.5	68.403	65.282	61.952	58.637	55.184	51.610	48.062	44.636	40.250	35.916
150.0	56.782	54.013	51.312	48.563	45.695	42.715	39.627	36.822	33.963	30.555
152.5	46.587	44.304	41.992	39.755	37.428	35.063	32.520	30.099	27.852	25.563
155.0	37.772	35.929	33.989	32.189	30.349	28.450	26.496	24.491	22.654	20.851
157.5	30.233	28.785	27.267	25.760	24.317	22.840	21.303	19.738	18.168	16.695
160.0	23.769	22.650	21.478	20.255	19.108	17.952	16.756	15.522	14.253	13.101
162.5	18.262	17.413	16.520	15.583	14.635	13.743	12.850	11.931	10.990	10.027
165.0	13.639	13.012	12.353	11.665	10.948	10.270	9.583	8.930	8.261	7.577
167.5	9.818	9.382	8.926	8.449	7.953	7.439	6.908	6.434	5.958	5.470
170.0	6.692	6.396	6.085	5.760	5.422	5.084	4.708	4.333	4.015	3.660
172.5	4.110	3.933	3.747	3.554	3.353	3.145	2.930	2.709	2.482	2.250
175.0	2.070	1.982	1.890	1.795	1.696	1.593	1.487	1.379	1.267	1.154
177.5	0.522	0.508	0.494	0.478	0.462	0.446	0.429	0.411	0.393	0.374
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	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562
2.5	591.900	591.046	590.174	589.286	588.382	587.466	586.538	585.602	584.658	583.708
5.0	601.841	600.057	598.236	596.381	594.530	592.659	590.768	588.860	586.941	585.014
7.5	611.424	608.675	605.870	603.017	600.121	597.163	594.232	591.943	588.349	585.421
10.0	620.624	616.757	612.828	608.913	604.963	600.971	596.948	592.902	588.842	584.872
12.5	629.116	624.175	619.157	614.074	608.938	603.836	598.624	593.577	588.432	584.016
15.0	636.455	630.556	624.445	618.244	611.993	605.707	599.453	593.203	586.958	580.733
17.5	642.375	635.038	627.623	620.087	612.484	604.882	597.310	589.838	582.419	575.072
20.0	645.594	636.964	628.229	619.452	610.626	601.815	593.048	584.427	575.896	567.542
22.5	647.474	637.824	627.715	617.491	607.491	597.470	587.522	577.765	568.140	558.673
25.0	648.141	637.225	625.908	614.397	602.979	591.762	580.653	569.800	559.110	548.600
27.5	647.418	635.162	622.640	609.740	597.004	584.620	573.198	560.494	548.781	537.202

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CANDELA TABULATION - (Cont.)

30.0	645.129	631.499	617.749	603.408	589.492	575.986	562.730	549.820	537.078	524.443
32.5	640.804	625.722	610.492	594.921	579.743	565.007	550.673	536.733	522.976	509.516
35.0	634.577	618.046	601.358	584.550	568.203	552.243	536.788	521.688	506.825	492.480
37.5	626.270	608.362	590.266	572.314	554.818	537.756	521.190	504.960	489.130	474.016
40.0	615.735	597.541	577.161	558.146	539.532	521.440	503.825	486.607	469.769	454.057
42.5	602.878	582.362	562.022	541.939	522.333	503.271	484.574	466.662	449.349	432.805
45.0	592.645	570.206	547.858	525.610	503.650	483.244	463.867	445.185	427.260	410.316
47.5	580.178	557.011	533.854	510.954	488.352	466.097	444.210	422.692	404.049	386.879
50.0	565.595	541.758	519.082	494.603	471.525	448.806	426.561	405.049	384.197	364.339
52.5	549.035	524.642	500.502	476.685	453.261	430.346	407.959	386.370	365.717	345.692
55.0	530.460	505.782	481.339	457.362	433.839	410.784	388.595	367.157	346.311	326.368
57.5	510.403	485.284	460.841	436.821	413.294	390.580	368.488	347.613	326.473	306.363
60.0	491.465	465.171	439.061	415.285	392.123	369.529	347.634	326.523	305.874	285.728
62.5	471.716	445.663	419.788	394.117	370.085	347.861	326.301	305.284	284.779	264.869
65.0	451.267	425.696	400.220	374.929	350.028	325.647	304.316	283.594	263.447	243.718
67.5	430.345	405.243	380.319	355.708	331.187	307.964	282.726	261.720	241.858	222.495
70.0	409.021	384.607	360.440	336.286	312.194	288.298	264.620	241.259	220.301	201.370
72.5	387.639	364.081	340.446	316.803	293.188	269.659	246.337	223.506	201.068	180.267
75.0	366.505	343.535	320.455	297.250	274.007	250.849	228.102	205.694	183.647	162.246
77.5	345.441	323.268	300.352	277.518	254.653	232.089	209.826	187.869	166.513	145.899
80.0	326.355	302.370	280.055	257.604	235.328	213.329	191.578	170.354	149.812	129.867
82.5	310.054	282.862	259.570	237.683	216.075	194.650	173.646	153.285	133.470	114.370
85.0	293.626	267.124	239.747	217.942	196.960	176.264	156.201	136.629	117.699	100.369
87.5	277.250	251.557	224.664	198.410	178.093	158.445	139.239	120.551	103.389	87.169
90.0	261.084	235.480	209.888	184.237	159.909	141.198	122.924	105.941	89.884	74.665
92.5	245.159	220.386	195.529	170.880	146.771	124.688	107.935	92.143	77.104	62.890
95.0	229.759	205.815	181.781	158.448	135.343	112.822	93.850	79.147	65.299	52.379
97.5	215.022	191.955	169.203	146.879	125.079	103.783	83.503	67.295	54.918	43.047
100.0	201.089	179.033	157.504	136.162	115.453	95.674	76.603	59.004	45.718	35.017
102.5	188.020	167.137	146.590	126.372	107.063	88.423	70.849	54.408	38.928	28.590
105.0	175.789	155.987	136.415	117.564	99.456	81.979	65.764	50.406	36.444	24.124
107.5	164.268	145.578	127.077	109.592	92.507	76.381	61.483	47.053	34.568	23.250
110.0	153.574	135.892	118.722	102.171	86.142	71.278	57.149	44.402	32.860	22.522
112.5	143.544	126.833	110.775	95.152	80.415	66.729	53.489	41.836	31.181	22.061
115.0	133.900	118.208	103.146	88.511	74.821	61.784	50.038	39.238	29.637	21.478
117.5	124.486	109.871	95.637	82.020	69.241	57.316	46.488	36.509	28.088	20.661
120.0	115.313	101.538	87.991	75.512	63.618	52.778	42.780	33.975	26.279	19.634
122.5	106.253	93.361	80.749	68.878	57.952	48.085	38.987	31.184	24.179	18.507
125.0	97.421	85.321	73.660	62.466	52.243	43.218	35.233	28.197	22.178	17.180
127.5	88.721	77.310	66.675	56.331	46.936	38.275	31.441	25.166	20.165	15.694
130.0	79.890	69.542	59.867	50.655	42.163	34.435	27.715	22.536	18.001	14.124
132.5	71.355	62.147	53.373	45.430	37.909	31.245	25.015	19.740	15.661	12.432
135.0	63.231	55.276	47.531	40.645	34.152	28.223	22.823	17.944	13.716	10.608
137.5	55.834	48.976	42.405	36.221	30.739	25.239	20.672	16.360	12.687	9.335
140.0	49.297	43.177	37.525	32.047	27.201	22.662	18.540	14.902	11.543	8.698
142.5	43.134	37.722	32.896	28.281	23.942	20.148	16.516	13.392	10.506	8.036
145.0	37.365	32.821	28.614	24.723	21.021	17.720	14.723	12.012	9.554	7.350
147.5	32.023	28.293	24.645	21.406	18.397	15.475	13.010	10.689	8.542	6.667
150.0	27.168	24.188	21.261	18.392	15.963	13.613	11.478	9.393	7.511	5.884
152.5	23.073	20.523	18.178	15.881	13.673	11.698	9.784	7.996	6.592	5.260
155.0	19.023	17.172	15.276	13.364	11.491	9.744	8.301	6.911	5.693	4.610
157.5	15.215	13.705	12.168	10.838	9.510	8.131	6.830	5.799	4.787	3.829
160.0	11.872	10.748	9.608	8.454	7.445	6.502	5.555	4.602	3.795	3.040
162.5	9.093	8.243	7.419	6.586	5.745	4.944	4.237	3.528	2.817	2.149
165.0	6.881	6.172	5.543	4.922	4.305	3.684	3.058	2.535	2.092	1.653
167.5	4.973	4.468	3.953	3.432	3.026	2.636	2.246	1.855	1.466	1.118

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CANDELA TABULATION - (Cont.)

170.0	3.350	3.035	2.718	2.397	2.073	1.747	1.461	1.255	1.051	0.851
172.5	2.013	1.818	1.647	1.475	1.303	1.132	0.960	0.789	0.618	0.447
175.0	1.038	0.920	0.800	0.678	0.555	0.449	0.407	0.369	0.332	0.295
177.5	0.355	0.335	0.315	0.295	0.274	0.253	0.232	0.211	0.189	0.167
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>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	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562
2.5	582.755	581.801	580.846	579.894	578.946	578.003	577.538	576.135	575.216	574.310
5.0	583.083	581.152	579.225	577.305	575.397	573.506	571.618	569.755	567.918	566.111
7.5	582.492	579.569	576.657	573.762	570.889	568.035	565.205	562.415	559.669	556.972
10.0	580.934	577.010	573.109	569.238	565.434	561.587	557.822	554.117	550.477	546.909
12.5	578.364	573.440	568.554	563.715	558.911	554.154	549.360	544.868	540.356	535.999
15.0	574.748	568.832	562.973	557.334	551.414	545.736	540.157	535.087	529.446	524.256
17.5	568.013	561.086	554.118	547.593	541.037	534.639	529.298	522.517	516.804	511.299
20.0	559.333	551.338	544.011	535.836	528.354	521.502	514.098	507.352	500.845	494.761
22.5	549.444	540.392	531.567	522.970	514.591	506.502	498.676	492.075	484.063	477.279
25.0	538.297	528.227	518.486	508.989	499.755	490.809	482.194	474.064	466.262	458.851
27.5	525.856	514.890	504.252	493.873	483.772	475.035	464.798	455.936	447.494	439.468
30.0	512.153	500.360	488.856	477.570	466.642	456.095	446.332	436.802	427.710	419.106
32.5	496.678	484.322	472.038	460.086	448.546	437.464	426.806	416.608	406.936	397.790
35.0	478.764	465.475	452.591	440.311	428.566	417.234	406.187	395.399	385.160	375.379
37.5	459.430	445.376	431.924	419.143	406.840	394.992	383.619	372.713	362.230	352.038
40.0	438.808	424.145	410.340	397.055	384.297	372.021	360.225	348.878	337.992	327.907
42.5	416.955	402.088	387.810	374.167	361.007	348.338	336.144	324.420	313.534	303.167
45.0	394.303	379.487	364.530	350.513	336.997	323.977	311.436	299.742	288.594	278.059
47.5	370.672	355.298	340.463	326.136	312.317	298.987	286.490	274.584	263.346	252.832
50.0	346.364	330.762	315.670	301.088	287.009	273.727	261.084	249.173	238.041	227.525
52.5	326.316	307.345	290.198	275.419	261.386	248.027	235.480	223.747	213.364	202.743
55.0	306.792	287.585	268.768	250.428	235.335	222.200	209.888	198.254	187.776	178.201
57.5	286.634	267.389	248.589	230.206	212.573	196.392	184.237	173.228	163.208	154.059
60.0	266.136	246.947	228.156	210.131	192.701	175.815	159.909	148.582	139.288	130.963
62.5	245.368	226.264	207.913	190.110	173.844	156.605	141.198	127.412	115.950	108.517
65.0	224.438	205.797	187.689	170.251	153.539	137.864	122.924	109.484	96.937	87.412
67.5	203.660	185.322	167.556	150.788	134.772	120.418	105.941	93.273	81.386	70.959
70.0	182.889	165.014	148.061	131.826	116.875	102.644	89.884	77.918	67.115	57.533
72.5	162.366	145.309	128.927	113.297	99.502	86.688	74.604	63.524	53.633	44.819
75.0	142.420	125.972	110.250	96.428	83.601	71.567	60.127	49.934	40.873	33.333
77.5	125.926	107.138	93.329	80.544	68.557	56.862	46.384	37.084	29.367	23.520
80.0	110.670	93.333	77.439	65.562	53.661	42.930	33.405	25.543	19.758	15.262
82.5	96.984	80.751	65.592	50.407	39.511	29.786	21.815	16.098	11.850	8.926
85.0	84.094	68.841	53.793	39.531	26.163	18.133	12.498	8.502	5.976	5.458
87.5	71.889	57.071	43.035	29.822	18.141	8.916	5.182	3.079	3.284	3.054
90.0	60.127	46.384	33.405	21.815	12.498	5.182	0.204	1.133	1.522	1.505
92.5	49.532	36.840	25.378	16.027	8.482	3.075	1.133	0.001	0.500	0.649
95.0	40.071	28.863	19.452	11.734	5.944	3.275	1.522	0.503	0.002	0.199
97.5	31.947	22.724	14.894	8.807	5.396	3.037	1.505	0.655	0.205	0.003
100.0	25.788	17.909	11.478	7.461	4.530	2.499	1.307	0.610	0.218	0.040
102.5	20.720	14.063	9.422	5.969	3.475	1.952	1.014	0.435	0.122	0.025
105.0	16.428	11.215	7.314	4.407	2.571	1.420	0.652	0.205	0.051	0.000
107.5	13.442	8.514	5.270	3.141	1.790	0.862	0.289	0.078	0.000	0.000
110.0	13.920	6.650	3.632	2.132	1.058	0.365	0.105	0.000	0.000	0.000
112.5	14.288	7.872	3.068	1.227	0.425	0.129	0.000	0.000	0.000	0.000
115.0	14.470	8.991	4.585	1.179	0.146	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

117.5	14.553	9.599	5.628	2.907	0.771	0.000	0.000	0.000	0.000	0.000
120.0	14.276	9.792	6.470	3.915	2.045	0.742	0.000	0.000	0.000	0.000
122.5	13.689	9.890	6.899	4.585	2.821	1.535	0.640	0.077	0.000	0.000
125.0	12.976	9.652	6.893	4.797	3.157	1.917	1.051	0.481	0.130	0.000
127.5	12.089	9.039	6.615	4.684	3.135	2.002	1.157	0.605	0.256	0.064
130.0	10.910	8.209	6.066	4.306	2.896	1.827	1.081	0.555	0.195	0.065
132.5	9.583	7.250	5.258	3.692	2.448	1.531	0.851	0.334	0.133	0.024
135.0	8.176	6.082	4.349	2.991	1.928	1.124	0.464	0.207	0.039	0.010
137.5	6.681	4.816	3.423	2.240	1.356	0.591	0.277	0.055	0.017	0.000
140.0	6.149	4.014	2.489	1.502	0.682	0.332	0.070	0.025	0.000	0.000
142.5	5.846	3.933	2.338	1.019	0.363	0.083	0.032	0.000	0.000	0.000
145.0	5.456	3.760	2.417	1.449	0.725	0.319	0.051	0.000	0.000	0.000
147.5	4.896	3.626	2.522	1.707	1.128	0.684	0.386	0.182	0.073	0.015
150.0	4.591	3.391	2.557	1.840	1.269	0.829	0.483	0.269	0.101	0.045
152.5	4.119	3.228	2.409	1.767	1.221	0.765	0.468	0.204	0.104	0.028
155.0	3.669	2.815	2.135	1.501	1.004	0.643	0.309	0.168	0.065	0.000
157.5	3.050	2.330	1.646	1.172	0.768	0.384	0.228	0.105	0.000	0.000
160.0	2.311	1.685	1.241	0.813	0.421	0.274	0.138	0.007	0.000	0.000
162.5	1.674	1.205	0.751	0.442	0.298	0.156	0.018	0.000	0.000	0.000
165.0	1.218	0.818	0.605	0.416	0.236	0.065	0.037	0.022	0.010	0.000
167.5	0.904	0.697	0.496	0.300	0.142	0.107	0.074	0.044	0.015	0.000
170.0	0.653	0.459	0.267	0.207	0.163	0.121	0.080	0.040	0.000	0.000
172.5	0.328	0.283	0.237	0.193	0.149	0.106	0.064	0.021	0.000	0.000
175.0	0.258	0.220	0.184	0.147	0.110	0.073	0.037	0.000	0.000	0.000
177.5	0.145	0.123	0.101	0.079	0.056	0.034	0.011	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	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562
2.5	573.418	572.543	571.686	570.849	570.032	569.239	568.469	567.725	567.008	566.319
5.0	564.336	562.598	560.899	559.242	557.631	556.067	554.555	553.096	551.697	550.355
7.5	554.329	551.746	549.226	546.785	544.422	542.134	539.923	537.793	535.748	533.790
10.0	543.802	540.060	536.783	533.599	530.463	527.525	524.645	521.900	519.278	516.771
12.5	531.758	527.624	523.603	519.701	515.978	512.331	508.943	505.622	502.439	499.805
15.0	519.315	514.446	509.821	505.344	501.010	496.824	492.830	489.043	485.414	481.945
17.5	506.111	500.822	495.568	490.474	485.647	481.008	476.540	472.248	468.181	464.312
20.0	488.949	483.348	478.234	473.396	468.859	464.646	460.034	455.359	450.873	446.420
22.5	470.826	464.785	459.076	453.724	448.817	444.267	440.079	435.902	432.019	427.517
25.0	451.843	445.206	439.037	433.282	427.927	422.621	417.661	413.094	409.026	405.381
27.5	431.872	424.776	418.115	411.677	405.521	399.791	394.632	389.926	385.646	381.774
30.0	411.009	404.357	395.900	388.896	382.474	376.592	371.167	366.181	361.655	357.720
32.5	389.057	380.682	372.821	365.665	358.989	352.787	347.070	341.843	337.046	332.705
35.0	366.054	357.386	349.372	341.863	334.857	328.371	322.432	316.971	311.783	307.763
37.5	342.527	333.628	325.256	317.419	310.199	303.554	297.476	292.132	287.225	283.028
40.0	318.348	309.199	300.503	292.609	285.235	278.741	272.781	267.525	262.873	258.711
42.5	293.357	284.096	275.583	267.645	260.620	254.138	248.535	243.334	239.036	235.114
45.0	268.170	258.972	250.629	243.041	236.315	230.165	224.774	219.987	215.746	212.069
47.5	242.963	234.132	225.901	218.848	212.979	206.811	202.304	197.108	192.970	189.661
50.0	218.181	209.492	201.902	195.055	189.078	183.764	179.025	174.848	170.961	168.059
52.5	193.613	185.477	178.337	171.879	166.367	161.551	157.163	153.358	150.309	147.773
55.0	169.542	162.108	155.011	149.523	144.364	139.997	136.280	133.069	130.343	127.804
57.5	146.332	139.294	133.194	128.029	123.421	119.823	116.482	113.810	111.298	109.201
60.0	123.717	117.334	112.193	107.567	103.933	100.729	97.964	95.688	93.529	91.627
62.5	101.892	96.797	92.270	88.552	85.542	82.979	80.801	78.836	77.096	75.356

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CANDELA TABULATION - (Cont.)

65.0	81.781	77.371	73.620	70.853	68.393	66.551	64.995	63.420	62.162	60.401
67.5	62.806	59.558	56.589	54.507	52.854	51.816	50.686	49.807	48.802	47.630
70.0	48.966	42.679	41.021	40.054	39.194	38.677	38.173	37.800	37.074	36.457
72.5	37.488	31.526	27.069	27.025	27.184	27.208	27.485	27.507	27.344	27.054
75.0	27.333	22.454	18.537	16.098	16.866	17.728	18.574	19.025	19.430	19.379
77.5	18.780	15.154	12.520	9.869	8.411	10.141	11.432	12.449	13.125	13.439
80.0	11.969	10.019	7.975	5.888	4.433	4.256	5.897	7.374	8.293	8.970
82.5	7.686	6.242	4.675	3.517	2.452	1.497	2.012	3.648	4.843	5.730
85.0	4.617	3.571	2.715	1.920	1.172	0.574	0.212	1.119	2.515	3.380
87.5	2.522	1.988	1.449	0.896	0.411	0.150	0.000	0.000	0.902	1.729
90.0	1.307	1.014	0.652	0.288	0.105	0.000	0.000	0.000	0.000	0.640
92.5	0.602	0.427	0.194	0.072	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.211	0.113	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.036	0.022	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	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.009	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	0.004	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	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562
2.5	565.660	565.031	564.433	563.869	563.248	562.841	562.379	561.954	561.566	561.215
5.0	549.073	547.853	546.697	545.509	544.582	543.626	542.741	541.927	541.185	540.517
7.5	531.923	530.148	529.150	526.904	525.433	524.062	522.792	521.626	520.565	519.610
10.0	514.380	512.109	509.961	507.938	506.044	504.308	502.709	501.242	499.909	498.711

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CANDELA TABULATION - (Cont.)

12.5	496.564	493.870	491.323	488.927	486.683	484.595	482.949	480.903	479.298	477.854
15.0	478.643	475.519	472.588	469.825	467.236	464.822	462.587	460.533	458.579	456.817
17.5	460.623	457.117	453.798	450.480	447.370	444.483	441.823	439.390	437.189	435.246
20.0	442.072	437.903	433.974	430.289	426.903	423.767	420.878	418.236	415.845	414.422
22.5	422.723	418.263	414.058	410.112	406.429	402.965	399.764	396.831	394.169	391.781
25.0	402.129	398.550	393.976	389.675	385.650	381.867	378.244	374.915	371.885	369.158
27.5	377.998	375.313	372.641	368.797	364.296	360.100	356.221	352.667	349.438	346.539
30.0	353.858	350.556	347.689	345.273	342.749	338.295	334.445	330.527	327.211	324.238
32.5	328.861	325.529	322.615	319.803	318.253	316.732	312.521	308.748	305.381	302.320
35.0	303.878	300.604	297.819	295.440	293.629	292.290	291.341	288.146	284.026	280.924
37.5	279.321	276.065	273.499	271.320	269.569	268.382	267.578	266.714	263.126	259.890
40.0	255.281	252.235	249.740	247.728	246.101	244.975	243.881	243.878	242.547	239.181
42.5	231.789	228.941	226.508	224.666	223.159	222.059	221.403	221.059	221.285	218.784
45.0	208.826	206.238	203.968	202.233	200.867	199.788	199.125	198.740	198.641	198.616
47.5	186.661	184.274	182.253	180.553	179.249	178.177	177.499	177.161	177.076	177.329
50.0	165.453	163.164	161.297	159.618	158.432	157.462	156.751	156.402	156.279	156.409
52.5	145.086	142.899	141.222	139.720	138.513	137.290	136.808	136.346	136.042	135.917
55.0	125.639	123.724	122.067	120.653	119.418	118.478	117.619	116.863	116.494	116.117
57.5	107.150	105.394	103.768	102.506	101.254	100.279	99.331	98.526	97.936	97.385
60.0	89.569	88.072	86.599	85.404	84.196	83.170	82.235	81.300	80.805	80.293
62.5	73.640	71.912	70.650	69.504	68.456	67.431	66.702	65.855	65.509	65.187
65.0	59.218	57.476	56.080	55.026	54.302	53.364	53.030	52.509	52.257	52.157
67.5	46.453	44.912	43.435	42.276	41.969	41.501	41.347	41.175	40.975	40.944
70.0	35.463	34.317	33.029	31.649	31.558	31.567	31.511	31.492	31.290	31.371
72.5	26.340	25.633	24.593	23.714	22.934	23.170	23.175	23.364	23.276	23.388
75.0	19.095	18.729	18.004	17.335	16.213	16.235	16.404	16.690	16.751	16.863
77.5	13.561	13.364	12.934	12.290	11.464	10.641	10.988	11.279	11.473	11.628
80.0	9.311	9.233	8.982	8.419	7.767	6.921	6.617	6.970	7.352	7.542
82.5	6.119	6.177	5.975	5.485	4.918	4.122	3.478	3.726	4.121	4.262
85.0	3.796	3.915	3.724	3.328	2.846	2.267	1.675	1.264	1.851	2.219
87.5	2.162	2.274	2.103	1.849	1.434	0.950	0.530	0.242	0.591	1.046
90.0	1.051	1.157	1.081	0.851	0.464	0.277	0.070	0.032	0.051	0.386
92.5	0.373	0.490	0.431	0.257	0.116	0.037	0.003	0.000	0.000	0.081
95.0	0.028	0.135	0.112	0.031	0.016	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.011	0.010	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	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562
2.5	560.902	560.628	560.393	560.197	560.040	559.924	559.847	559.810	559.813	559.856
5.0	539.924	539.406	538.964	538.598	538.310	538.098	537.965	537.908	537.929	538.028
7.5	518.764	518.026	517.397	516.880	516.473	516.178	515.926	515.923	515.964	516.116
10.0	497.651	496.729	495.946	495.304	494.802	494.442	494.225	494.149	494.216	494.425
12.5	476.563	475.457	474.507	473.725	473.111	472.667	472.394	472.292	472.361	472.603
15.0	455.259	453.907	452.763	451.825	451.096	450.575	450.263	450.157	450.259	450.567
17.5	433.441	432.048	430.796	429.776	428.988	428.435	428.114	428.027	428.173	428.551
20.0	411.762	410.083	408.661	407.498	406.558	405.953	405.574	405.457	405.603	406.012
22.5	389.595	387.647	385.987	384.618	383.543	382.762	382.278	382.092	382.203	382.614
25.0	367.098	364.651	362.877	361.421	360.284	359.468	358.973	358.800	358.950	359.422
27.5	343.972	341.797	339.984	338.504	337.361	336.555	336.088	335.960	336.171	336.722
30.0	321.613	319.360	317.504	315.987	314.812	313.982	313.500	313.370	313.593	314.170
32.5	299.662	297.322	295.400	293.825	292.596	291.720	291.199	291.040	291.246	291.821
35.0	278.159	275.738	273.694	272.016	270.695	269.735	269.144	268.928	269.092	269.640
37.5	256.993	254.444	252.271	250.496	249.087	248.052	247.397	247.129	247.254	247.776
40.0	236.161	233.418	231.576	229.283	227.743	226.584	225.815	225.444	225.480	225.930
42.5	215.603	212.774	210.309	208.298	206.665	205.410	204.543	204.075	204.018	204.380
45.0	195.480	192.563	189.890	187.838	186.070	184.672	183.659	183.046	182.847	183.074
47.5	175.955	172.807	170.191	167.839	165.880	164.316	163.158	162.420	162.112	162.246
50.0	156.800	153.567	150.642	148.107	146.003	144.304	143.024	142.175	141.768	141.816
52.5	136.062	134.479	131.394	128.995	126.574	124.861	123.576	122.694	122.335	122.395
55.0	116.019	115.879	112.774	110.076	108.058	106.463	105.272	104.498	104.149	104.237
57.5	97.108	97.163	95.341	92.808	90.929	89.463	88.400	87.680	87.345	87.411
60.0	79.936	80.059	79.521	77.213	75.472	74.211	73.256	72.625	72.337	72.408
62.5	64.897	65.052	65.279	63.492	61.879	60.747	59.895	59.340	59.098	59.185
65.0	51.953	52.064	52.235	51.350	49.867	48.900	48.188	47.744	47.583	47.719
67.5	40.774	40.797	40.938	40.719	39.680	38.648	38.097	37.729	37.662	37.842
70.0	31.272	31.231	31.389	31.495	30.539	29.979	29.574	29.338	29.290	29.448
72.5	23.384	23.327	23.546	23.713	23.302	22.805	22.468	22.262	22.207	22.323
75.0	16.974	16.979	17.213	17.388	17.304	16.807	16.488	16.306	16.272	16.399
77.5	11.857	11.922	12.040	12.092	12.067	11.688	11.491	11.386	11.386	11.509
80.0	7.728	7.729	7.813	7.889	7.843	7.643	7.527	7.475	7.501	7.618
82.5	4.589	4.716	4.744	4.802	4.692	4.506	4.416	4.371	4.369	4.470
85.0	2.530	2.685	2.654	2.558	2.320	2.020	2.033	2.043	2.066	2.120
87.5	1.265	1.306	1.163	1.024	0.800	0.498	0.570	0.624	0.621	0.591
90.0	0.483	0.468	0.309	0.228	0.138	0.018	0.037	0.073	0.080	0.064
92.5	0.100	0.092	0.033	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	0.002	0.000	0.029	0.025
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.037	0.065	0.098	0.102
135.0	0.000	0.000	0.000	0.000	0.000	0.004	0.059	0.091	0.102	0.102
137.5	0.000	0.000	0.000	0.000	0.000	0.001	0.012	0.046	0.098	0.075
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.014	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	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562
2.5	559.939	560.061	560.223	560.061	559.939	559.856	559.813	559.810	559.847	559.924
5.0	538.203	538.454	538.782	538.454	538.203	538.028	537.929	537.908	537.965	538.098
7.5	516.380	516.754	517.239	516.754	516.380	516.116	515.964	515.923	515.994	516.178
10.0	494.776	495.268	495.900	495.268	494.776	494.425	494.216	494.149	494.225	494.442
12.5	473.016	473.601	474.357	473.601	473.016	472.603	472.438	472.292	472.394	472.667
15.0	451.079	451.794	452.711	451.794	451.079	450.567	450.259	450.157	450.263	450.575
17.5	429.160	429.999	431.066	429.999	429.160	428.605	428.173	428.027	428.191	428.435
20.0	406.683	407.615	408.808	407.615	406.683	406.012	405.603	405.457	405.574	405.953
22.5	383.322	384.329	385.632	384.329	383.322	382.614	382.203	382.092	382.278	382.762
25.0	360.215	361.328	362.761	361.328	360.215	359.422	358.950	358.800	358.973	359.468
27.5	337.497	338.838	340.401	338.838	337.612	336.722	336.171	335.960	336.088	336.555
30.0	315.104	316.394	318.042	316.394	315.226	314.170	313.593	313.370	313.500	313.982
32.5	292.767	294.087	295.784	294.087	292.767	291.821	291.246	291.040	291.199	291.720
35.0	270.576	271.904	273.628	271.904	270.576	269.640	269.092	268.928	269.144	269.735
37.5	248.702	250.035	251.779	250.035	248.702	247.776	247.254	247.129	247.397	248.052
40.0	226.800	228.097	229.827	228.097	226.800	225.930	225.480	225.444	225.815	226.584
42.5	205.173	206.403	208.080	206.403	205.173	204.454	204.018	204.075	204.645	205.410
45.0	183.740	184.856	186.435	184.856	183.740	183.074	182.847	183.046	183.659	184.672

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

47.5	162.833	163.882	165.402	163.882	162.833	162.246	162.112	162.420	163.158	164.316
50.0	142.327	143.311	144.778	143.311	142.327	141.816	141.768	142.175	143.024	144.304
52.5	122.918	123.911	125.379	123.911	122.918	122.395	122.335	122.732	123.576	124.861
55.0	104.771	105.758	107.205	105.758	104.771	104.237	104.149	104.498	105.272	106.463
57.5	87.891	88.802	90.154	88.802	87.891	87.411	87.346	87.681	88.400	89.489
60.0	72.856	73.695	74.941	73.695	72.856	72.408	72.337	72.625	73.256	74.211
62.5	59.616	60.405	61.566	60.405	59.616	59.185	59.098	59.340	59.895	60.747
65.0	48.163	48.883	50.029	48.930	48.163	47.719	47.583	47.744	48.188	48.900
67.5	38.285	39.007	40.023	39.007	38.287	37.851	37.683	37.771	38.097	38.648
70.0	29.831	30.458	31.345	30.494	29.831	29.448	29.290	29.338	29.574	29.979
72.5	22.629	23.146	23.891	23.146	22.629	22.323	22.207	22.262	22.468	22.805
75.0	16.699	17.186	17.868	17.186	16.699	16.399	16.272	16.306	16.488	16.807
77.5	11.769	12.182	12.763	12.182	11.769	11.509	11.386	11.386	11.491	11.688
80.0	7.845	8.193	8.679	8.193	7.845	7.618	7.501	7.475	7.527	7.643
82.5	4.643	4.918	5.309	4.918	4.643	4.470	4.384	4.371	4.416	4.506
85.0	2.223	2.396	2.655	2.396	2.223	2.120	2.066	2.043	2.033	2.020
87.5	0.561	0.559	0.613	0.559	0.561	0.591	0.621	0.624	0.576	0.498
90.0	0.037	0.011	0.000	0.011	0.037	0.064	0.080	0.074	0.037	0.018
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	0.025	0.029	0.000	0.002	0.000
132.5	0.055	0.000	0.000	0.000	0.055	0.102	0.098	0.065	0.037	0.000
135.0	0.102	0.072	0.000	0.072	0.102	0.102	0.102	0.091	0.059	0.004
137.5	0.033	0.000	0.000	0.000	0.033	0.075	0.098	0.046	0.012	0.001
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.014	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	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562
2.5	560.040	560.197	560.393	560.628	560.902	561.215	561.566	561.954	562.379	562.841
5.0	538.310	538.609	538.964	539.406	539.924	540.517	541.185	541.927	542.741	543.626
7.5	516.473	516.880	517.397	518.026	518.764	519.610	520.565	521.626	522.792	524.062
10.0	494.802	495.304	495.946	496.729	497.651	498.711	499.909	501.354	502.709	504.308
12.5	473.205	473.725	474.507	475.457	476.573	477.854	479.298	480.903	482.949	484.595
15.0	451.096	451.825	452.763	453.907	455.259	456.817	458.579	460.533	462.587	464.822
17.5	428.988	429.814	430.796	432.048	433.532	435.246	437.189	439.390	441.823	444.483
20.0	406.595	407.498	408.661	410.083	411.762	414.422	415.845	418.236	420.878	423.767
22.5	383.543	384.618	385.987	387.647	389.595	391.781	394.169	396.865	399.764	402.965
25.0	360.284	361.425	362.877	364.651	367.098	369.158	371.885	374.915	378.244	381.867
27.5	337.361	338.504	339.984	341.797	343.972	346.539	349.438	352.805	356.221	360.100
30.0	314.812	315.987	317.504	319.360	321.613	324.238	327.211	330.527	334.451	338.295
32.5	292.596	293.825	295.400	297.322	299.662	302.350	305.381	308.774	312.521	316.736
35.0	270.695	272.016	273.694	275.738	278.159	280.924	284.026	288.146	291.356	292.290
37.5	249.087	250.496	252.271	254.444	256.993	259.890	263.126	266.714	267.578	268.739
40.0	227.743	229.283	231.576	233.496	236.161	239.181	242.546	243.878	244.247	244.975
42.5	206.665	208.337	210.309	212.774	215.603	218.784	221.285	221.059	221.403	222.395
45.0	186.070	187.838	189.995	192.563	195.480	198.733	198.641	198.740	199.125	199.788
47.5	165.880	167.839	170.191	172.907	175.955	177.329	177.255	177.161	177.499	178.245
50.0	146.003	148.107	150.642	153.567	156.875	156.409	156.279	156.402	156.751	157.462
52.5	126.574	128.995	131.394	134.479	136.062	135.917	136.042	136.346	136.808	137.573
55.0	108.058	110.076	112.774	115.879	116.019	116.117	116.494	116.983	117.619	118.478
57.5	90.929	92.808	95.341	97.163	97.108	97.385	97.936	98.526	99.331	100.279
60.0	75.472	77.213	79.521	80.059	79.936	80.293	80.805	81.300	82.235	83.170
62.5	61.879	63.492	65.279	65.052	64.897	65.187	65.509	65.855	66.702	67.431
65.0	49.867	51.350	52.235	52.064	51.953	52.157	52.257	52.509	53.030	53.364
67.5	39.680	40.719	40.938	40.797	40.774	40.944	40.975	41.175	41.347	41.501
70.0	30.539	31.495	31.389	31.305	31.272	31.371	31.290	31.492	31.511	31.567
72.5	23.302	23.713	23.546	23.327	23.384	23.388	23.276	23.364	23.248	23.170
75.0	17.304	17.388	17.213	16.979	16.974	16.863	16.751	16.690	16.404	16.235
77.5	12.067	12.092	12.040	11.922	11.857	11.628	11.473	11.279	10.988	10.641
80.0	7.843	7.889	7.813	7.729	7.728	7.542	7.352	6.970	6.617	6.921
82.5	4.692	4.802	4.765	4.716	4.589	4.262	4.121	3.726	3.478	4.122
85.0	2.320	2.558	2.654	2.685	2.530	2.219	1.851	1.264	1.675	2.267
87.5	0.800	1.024	1.163	1.314	1.265	1.046	0.591	0.242	0.530	0.950
90.0	0.138	0.228	0.309	0.468	0.483	0.386	0.051	0.032	0.070	0.277
92.5	0.000	0.000	0.033	0.092	0.100	0.081	0.000	0.000	0.003	0.037
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

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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	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562
2.5	563.337	563.907	564.433	565.031	565.660	566.319	567.008	567.725	568.469	569.239
5.0	544.582	545.606	546.697	547.853	549.073	550.355	551.697	553.096	554.555	556.067
7.5	525.433	526.905	529.161	530.148	531.923	533.790	535.748	537.793	539.923	542.134
10.0	506.044	507.938	509.961	512.109	514.380	516.771	519.278	521.900	524.645	527.525
12.5	486.683	488.927	491.323	493.870	496.564	499.805	502.439	505.622	508.943	512.396
15.0	467.236	469.825	472.588	475.519	478.721	481.945	485.414	489.043	492.830	496.824
17.5	447.370	450.480	453.798	457.117	460.623	464.312	468.181	472.248	476.540	481.008
20.0	426.903	430.289	433.974	437.903	442.072	446.478	450.873	455.359	460.034	464.646
22.5	406.429	410.112	414.058	418.263	422.723	427.517	432.019	435.902	440.079	444.388
25.0	385.650	389.675	393.976	398.550	402.130	405.381	409.026	413.094	417.661	422.621
27.5	364.296	368.797	372.641	375.313	378.328	381.774	385.646	389.926	394.632	399.791
30.0	342.749	345.273	347.689	350.556	353.858	357.720	361.655	366.181	371.167	376.592
32.5	318.253	320.159	322.615	325.529	328.861	332.705	337.046	341.843	347.070	352.787
35.0	294.004	295.440	297.819	300.604	304.110	307.763	312.079	316.971	322.432	328.371
37.5	269.569	271.320	273.499	276.065	279.321	283.028	287.225	292.132	297.476	303.554
40.0	246.101	247.728	249.739	252.235	255.281	258.711	262.873	267.525	272.781	278.741
42.5	223.159	224.666	226.508	228.941	231.789	235.114	239.366	243.334	248.535	254.138
45.0	200.867	202.233	203.968	206.239	208.826	212.069	215.746	219.987	224.774	230.165
47.5	179.249	180.553	182.253	184.274	186.661	189.661	192.970	197.108	202.304	206.811
50.0	158.432	159.618	161.297	163.164	165.453	168.059	171.171	174.848	179.025	183.764
52.5	138.513	139.720	141.343	142.899	145.086	148.019	150.309	153.358	157.163	161.551
55.0	119.418	120.653	122.067	123.724	125.639	127.804	130.343	133.069	136.280	139.997
57.5	101.254	102.506	103.768	105.394	107.150	109.201	111.298	113.810	116.482	119.823
60.0	84.196	85.404	86.599	88.072	89.569	91.627	93.529	95.688	97.964	100.729
62.5	68.456	69.504	70.650	71.912	73.640	75.356	77.096	78.836	80.801	82.979
65.0	54.302	55.026	56.080	57.476	59.218	60.620	62.162	63.420	64.995	66.551
67.5	41.969	42.275	43.435	44.912	46.453	47.630	48.802	50.021	50.686	51.816
70.0	31.558	31.767	33.029	34.317	35.463	36.457	37.074	37.800	38.173	38.677
72.5	22.934	23.714	24.593	25.633	26.342	27.054	27.344	27.507	27.664	27.208
75.0	16.213	17.335	18.058	18.729	19.095	19.379	19.430	19.025	18.574	17.728
77.5	11.464	12.290	12.934	13.364	13.561	13.477	13.125	12.449	11.432	10.141

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CANDELA TABULATION - (Cont.)

80.0	7.767	8.419	8.982	9.246	9.311	8.970	8.293	7.374	5.975	4.256
82.5	4.922	5.485	5.975	6.177	6.119	5.730	4.843	3.648	2.012	1.497
85.0	2.846	3.328	3.724	3.915	3.796	3.380	2.515	1.119	0.212	0.574
87.5	1.434	1.849	2.103	2.274	2.162	1.729	0.902	0.000	0.000	0.150
90.0	0.464	0.851	1.081	1.157	1.051	0.640	0.000	0.000	0.000	0.000
92.5	0.116	0.257	0.431	0.490	0.373	0.000	0.000	0.000	0.000	0.000
95.0	0.016	0.031	0.112	0.140	0.028	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.005	0.010	0.011	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	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562
2.5	570.032	570.849	571.686	572.543	573.418	574.310	575.216	576.135	577.538	578.003
5.0	557.631	559.242	560.899	562.598	564.336	566.111	567.918	569.755	571.618	573.506
7.5	544.422	546.785	549.226	551.773	554.329	556.972	559.669	562.415	565.205	568.035
10.0	530.511	533.599	536.783	540.060	543.802	546.909	550.477	554.117	557.822	561.587
12.5	515.978	519.701	523.603	527.624	531.758	535.999	540.356	544.868	549.470	554.214
15.0	501.010	505.344	509.821	514.446	519.315	524.318	529.446	535.087	540.157	545.736
17.5	485.647	490.474	495.568	500.822	506.111	511.299	516.804	522.517	529.298	534.639
20.0	468.859	473.396	478.234	483.406	488.949	494.761	500.845	507.352	514.098	521.697
22.5	448.817	453.724	459.076	464.785	470.826	477.279	484.063	492.075	498.676	506.502
25.0	427.927	433.282	439.037	445.206	451.843	458.851	466.262	474.064	482.194	490.809

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CANDELA TABULATION - (Cont.)

27.5	405.521	411.677	418.115	424.776	431.872	439.468	447.635	455.936	464.798	475.035
30.0	382.474	388.896	395.900	404.357	411.009	419.106	427.710	436.802	446.332	456.290
32.5	358.989	365.665	372.821	380.682	389.057	397.789	406.936	416.608	426.806	437.464
35.0	334.857	341.863	349.372	357.436	366.054	375.379	385.160	395.399	406.187	417.234
37.5	310.199	317.643	325.256	333.628	342.527	352.038	362.230	372.713	383.619	394.992
40.0	285.235	292.609	300.503	309.199	318.348	327.907	337.992	348.878	360.225	372.021
42.5	260.620	267.645	275.583	284.096	293.357	303.167	313.857	324.420	336.144	348.338
45.0	236.315	243.041	250.629	258.972	268.170	278.059	288.594	299.742	311.436	323.977
47.5	212.979	218.848	225.901	234.132	242.963	252.831	263.346	274.584	286.490	298.987
50.0	189.078	195.055	201.902	209.492	218.181	227.525	238.041	249.173	261.084	273.727
52.5	166.367	171.879	178.337	185.477	193.613	202.743	213.364	223.747	235.480	248.027
55.0	144.364	149.523	155.301	162.108	169.542	178.200	187.776	198.254	209.888	222.485
57.5	123.421	128.029	133.194	139.294	146.332	154.059	163.208	173.228	184.237	196.392
60.0	103.933	107.567	112.193	117.334	123.717	130.963	139.288	148.582	159.909	175.815
62.5	85.542	88.552	92.270	96.797	101.892	108.890	115.950	127.412	141.198	156.605
65.0	68.393	70.853	73.620	77.371	81.781	87.412	96.937	109.484	122.924	137.864
67.5	52.854	54.507	56.589	59.558	62.806	70.959	81.386	93.273	105.941	120.418
70.0	39.194	40.054	41.021	42.679	48.966	57.533	67.116	77.918	89.884	102.644
72.5	27.184	27.025	27.069	31.526	37.488	44.819	53.633	63.524	74.665	86.688
75.0	16.866	16.098	18.537	22.454	27.427	33.333	40.872	49.997	60.127	71.567
77.5	8.411	9.869	12.520	15.154	18.780	23.520	29.367	37.084	46.384	56.862
80.0	4.433	5.888	7.975	10.019	11.969	15.262	19.758	25.543	33.405	42.930
82.5	2.452	3.517	4.675	6.242	7.686	8.926	11.850	16.098	21.815	29.786
85.0	1.172	1.920	2.715	3.595	4.617	5.458	5.976	8.502	12.498	18.133
87.5	0.411	0.896	1.450	1.988	2.522	3.054	3.284	3.079	5.182	8.918
90.0	0.105	0.289	0.652	1.014	1.307	1.505	1.522	1.133	0.204	5.182
92.5	0.000	0.072	0.194	0.427	0.602	0.649	0.500	0.000	1.133	3.075
95.0	0.000	0.000	0.046	0.113	0.211	0.199	0.000	0.503	1.522	3.275
97.5	0.000	0.000	0.000	0.022	0.036	0.000	0.205	0.655	1.505	3.037
100.0	0.000	0.000	0.000	0.000	0.001	0.040	0.218	0.610	1.307	2.499
102.5	0.000	0.000	0.000	0.000	0.000	0.025	0.122	0.435	1.014	1.952
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.051	0.205	0.652	1.412
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.078	0.288	0.862
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.105	0.365
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.129
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	0.742
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.077	0.640	1.535
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.130	0.467	1.051	1.917
127.5	0.000	0.000	0.000	0.000	0.007	0.064	0.256	0.605	1.157	2.002
130.0	0.000	0.000	0.000	0.000	0.009	0.065	0.195	0.555	1.081	1.827
132.5	0.000	0.000	0.000	0.000	0.004	0.024	0.133	0.334	0.851	1.531
135.0	0.000	0.000	0.000	0.000	0.000	0.010	0.039	0.207	0.464	1.124
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.055	0.277	0.591
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.025	0.070	0.332
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.032	0.083
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.051	0.319
147.5	0.000	0.000	0.000	0.000	0.000	0.015	0.073	0.182	0.386	0.684
150.0	0.000	0.000	0.000	0.000	0.004	0.045	0.101	0.265	0.483	0.829
152.5	0.000	0.000	0.000	0.000	0.000	0.028	0.104	0.204	0.468	0.765
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.065	0.168	0.309	0.643
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.105	0.228	0.384
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.138	0.274
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.018	0.156
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.022	0.037	0.065

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CANDELA TABULATION - (Cont.)

167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.044	0.073	0.107
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.040	0.080	0.121
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.021	0.064	0.106
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.037	0.073
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.011	0.034
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	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562
2.5	578.946	579.894	580.846	581.801	582.755	583.708	584.658	585.602	586.538	587.466
5.0	575.397	577.305	579.225	581.152	583.083	585.014	586.941	588.860	590.768	592.659
7.5	570.889	573.762	576.657	579.569	582.492	585.421	588.349	591.943	594.232	597.191
10.0	565.434	569.238	573.109	577.010	580.934	584.872	588.842	592.902	596.948	600.971
12.5	558.911	563.715	568.554	573.440	578.364	584.016	588.432	593.641	598.716	603.836
15.0	551.414	557.334	562.973	568.832	574.748	580.733	586.958	593.203	599.453	605.707
17.5	541.037	547.593	554.281	561.168	568.013	575.072	582.419	589.838	597.315	604.882
20.0	528.354	535.836	544.011	551.338	559.333	567.542	575.896	584.427	593.048	601.815
22.5	514.591	522.970	531.567	540.393	549.444	558.754	568.140	577.765	587.522	597.470
25.0	499.755	508.989	518.486	528.227	538.297	548.600	559.110	569.800	580.653	591.762
27.5	483.849	493.873	504.252	514.890	525.856	537.202	548.934	560.494	573.198	584.620
30.0	466.642	477.570	488.856	500.360	512.153	524.443	537.078	549.820	562.730	575.986
32.5	448.546	460.086	472.193	484.322	496.678	509.516	522.976	536.733	550.673	565.007
35.0	428.566	440.311	452.591	465.475	478.764	492.480	506.825	521.688	536.788	552.243
37.5	406.840	419.430	431.924	445.376	459.708	474.016	489.130	504.960	521.190	537.756
40.0	384.297	397.055	410.340	424.145	438.808	454.057	470.014	486.607	503.825	521.441
42.5	361.006	374.167	387.810	402.088	416.955	432.806	449.349	466.662	484.694	503.271
45.0	336.997	350.513	364.530	379.487	394.303	410.593	427.260	445.185	463.867	483.244
47.5	312.316	326.136	340.463	355.298	370.672	386.879	404.049	422.692	444.210	466.142
50.0	287.009	301.088	315.670	330.762	346.364	364.339	384.197	405.049	426.561	448.806
52.5	261.386	275.419	290.198	307.345	326.316	345.692	365.717	386.370	407.995	430.346
55.0	235.335	250.428	268.768	287.585	306.792	326.368	346.381	367.157	388.595	410.784
57.5	212.573	230.206	248.589	267.389	286.634	306.363	326.489	347.613	368.488	390.580
60.0	192.701	210.131	228.156	246.947	266.136	285.728	305.912	326.523	347.634	369.530
62.5	173.844	190.110	207.913	226.340	245.368	264.869	284.779	305.284	326.301	347.861
65.0	153.601	170.251	187.689	205.798	224.438	243.718	263.447	283.594	304.316	325.647
67.5	134.772	150.788	167.556	185.322	203.660	222.496	241.858	261.721	282.726	307.964
70.0	116.875	131.826	148.061	165.014	182.889	201.370	220.301	241.259	264.620	288.298
72.5	99.502	113.304	128.927	145.309	162.366	180.267	201.067	223.506	246.337	269.659
75.0	83.601	96.428	110.250	125.972	142.420	162.247	183.647	205.676	228.102	250.849
77.5	68.557	80.544	93.329	107.138	125.926	145.899	166.513	187.869	209.826	232.089
80.0	53.661	65.562	77.439	93.333	110.670	129.867	149.812	170.354	191.578	213.329
82.5	39.511	50.450	65.592	80.751	96.984	114.370	133.470	153.285	173.646	194.650
85.0	26.177	39.531	53.793	68.841	84.094	100.369	117.699	136.629	156.201	176.264
87.5	18.141	29.822	43.035	57.071	71.889	87.170	103.389	120.551	139.239	158.445
90.0	12.498	21.815	33.405	46.384	60.127	74.604	89.884	105.941	122.924	141.198
92.5	8.482	16.027	25.378	36.840	49.518	62.891	77.104	92.143	107.926	124.688
95.0	5.944	11.734	19.452	28.774	40.071	52.379	65.299	79.147	93.850	112.822
97.5	5.396	8.807	14.894	22.724	31.947	43.047	54.918	67.295	83.502	103.783
100.0	4.530	7.461	11.478	17.909	25.788	35.017	45.718	59.004	76.418	95.674
102.5	3.475	5.969	9.422	14.063	20.720	28.590	38.928	54.408	70.849	88.424
105.0	2.571	4.407	7.276	11.215	16.428	24.124	36.444	50.406	65.764	81.980
107.5	1.790	3.141	5.270	8.514	13.442	23.250	34.568	47.053	61.231	76.381
110.0	1.058	2.132	3.632	6.650	13.919	22.522	32.860	44.402	57.148	71.278
112.5	0.425	1.227	3.068	7.872	14.288	22.061	31.181	41.836	53.489	66.482

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CANDELA TABULATION - (Cont.)

115.0	0.146	1.179	4.585	8.991	14.470	21.478	29.637	39.238	50.038	61.784
117.5	0.771	2.805	5.628	9.599	14.553	20.661	28.088	36.509	46.488	57.316
120.0	2.045	3.915	6.470	9.792	14.276	19.634	26.279	33.975	42.780	52.778
122.5	2.821	4.585	6.899	9.890	13.689	18.507	24.179	31.184	38.987	48.085
125.0	3.157	4.797	6.893	9.652	12.903	17.180	22.178	28.198	35.233	43.218
127.5	3.135	4.684	6.615	9.039	12.089	15.694	20.165	25.166	31.441	38.276
130.0	2.896	4.306	6.066	8.209	10.910	14.124	18.001	22.536	27.715	34.435
132.5	2.448	3.692	5.258	7.250	9.583	12.433	15.661	19.740	25.015	31.245
135.0	1.928	2.991	4.349	6.083	8.176	10.608	13.716	17.944	22.823	28.223
137.5	1.349	2.240	3.423	4.816	6.681	9.335	12.687	16.360	20.672	25.239
140.0	0.682	1.502	2.489	4.014	6.149	8.698	11.543	14.902	18.540	22.662
142.5	0.363	1.019	2.338	3.933	5.846	7.991	10.506	13.392	16.516	20.148
145.0	0.725	1.449	2.417	3.753	5.456	7.350	9.554	12.012	14.723	17.721
147.5	1.128	1.707	2.522	3.626	4.896	6.667	8.542	10.689	13.010	15.475
150.0	1.269	1.840	2.557	3.391	4.591	5.884	7.511	9.393	11.478	13.613
152.5	1.215	1.767	2.409	3.228	4.119	5.260	6.592	7.996	9.784	11.698
155.0	1.004	1.501	2.135	2.815	3.669	4.610	5.693	6.911	8.301	9.744
157.5	0.768	1.172	1.646	2.330	3.050	3.829	4.787	5.788	6.830	8.131
160.0	0.421	0.813	1.241	1.683	2.311	3.040	3.795	4.602	5.555	6.502
162.5	0.298	0.442	0.751	1.205	1.674	2.149	2.817	3.528	4.237	4.944
165.0	0.236	0.413	0.605	0.818	1.218	1.653	2.092	2.535	3.058	3.684
167.5	0.142	0.300	0.496	0.697	0.904	1.118	1.466	1.850	2.246	2.636
170.0	0.163	0.207	0.267	0.459	0.653	0.851	1.048	1.255	1.461	1.747
172.5	0.149	0.193	0.237	0.282	0.328	0.447	0.618	0.789	0.960	1.132
175.0	0.110	0.147	0.184	0.220	0.258	0.295	0.332	0.369	0.407	0.449
177.5	0.056	0.079	0.101	0.123	0.145	0.167	0.189	0.211	0.232	0.253
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	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562
2.5	588.382	589.286	590.174	591.046	591.900	592.734	593.632	594.334	595.097	595.833
5.0	594.530	596.381	598.236	600.057	601.841	603.583	605.279	606.926	608.520	610.057
7.5	600.121	603.017	605.870	608.675	611.424	614.111	616.737	619.360	621.977	624.354
10.0	604.963	608.913	612.828	616.761	620.624	624.409	628.106	631.705	635.196	638.561
12.5	608.938	614.074	619.157	624.175	629.116	633.953	638.541	643.008	647.341	651.528
15.0	611.993	618.244	624.445	630.556	636.455	642.251	647.924	653.457	658.736	663.830
17.5	612.484	620.087	627.623	635.038	642.375	649.608	656.313	662.763	669.065	675.508
20.0	610.626	619.452	628.229	636.964	645.594	653.811	661.914	670.488	677.377	684.652
22.5	607.491	617.585	627.715	637.825	647.474	656.994	666.356	675.286	684.036	692.465
25.0	602.979	614.397	625.908	637.225	648.141	659.700	669.446	679.730	689.662	699.148
27.5	597.004	609.740	622.639	635.162	647.418	659.501	671.301	682.921	694.056	705.877
30.0	589.492	603.476	617.749	631.540	645.129	658.479	671.693	684.581	697.218	709.308
32.5	579.743	594.921	610.492	625.722	640.804	655.588	670.311	684.496	698.573	711.788
35.0	568.203	584.550	601.358	618.046	634.577	650.816	667.036	682.467	697.695	712.168
37.5	554.818	572.315	590.266	608.362	626.269	643.986	662.505	678.344	694.763	710.416
40.0	539.532	558.146	577.161	597.602	615.735	634.942	653.886	671.973	689.640	706.351
42.5	522.333	542.093	562.022	582.362	602.880	624.331	644.991	664.953	684.255	702.128
45.0	503.650	525.610	547.858	570.206	592.645	614.880	636.629	657.897	677.961	696.997
47.5	488.352	510.954	533.854	557.011	580.178	603.216	626.044	648.175	669.226	689.478
50.0	471.525	494.603	519.082	541.758	565.595	589.495	612.954	635.880	658.197	679.344
52.5	453.261	476.685	500.502	524.642	549.035	573.401	597.587	621.454	644.374	666.557
55.0	433.839	457.362	481.339	505.782	530.460	555.299	580.260	605.092	629.122	652.210
57.5	413.294	436.821	460.841	485.284	510.403	536.637	562.440	587.732	611.951	635.210
60.0	392.123	415.285	439.061	465.171	491.465	517.600	543.354	568.528	593.034	616.604

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CANDELA TABULATION - (Cont.)

62.5	370.085	394.117	419.787	445.663	471.716	497.587	523.132	548.210	572.566	596.134
65.0	350.028	374.929	400.220	425.696	451.267	476.814	502.052	526.823	551.025	574.385
67.5	331.187	355.708	380.319	405.243	430.345	455.417	480.288	504.703	528.523	553.384
70.0	312.194	336.287	360.440	384.607	409.021	433.564	457.955	481.989	507.598	534.068
72.5	293.188	316.803	340.388	364.081	387.639	411.408	435.198	461.227	488.554	514.740
75.0	274.006	297.250	320.455	343.535	366.505	389.283	414.877	442.543	470.340	495.386
77.5	254.653	277.518	300.352	323.268	345.441	369.983	397.153	424.215	450.570	476.083
80.0	235.328	257.604	280.055	302.370	326.355	353.405	380.028	406.248	432.058	457.445
82.5	216.075	237.684	259.570	282.862	310.053	336.640	363.038	388.699	413.905	438.292
85.0	196.960	217.942	239.747	266.833	293.626	320.042	345.965	371.300	396.029	420.124
87.5	178.093	198.394	224.663	251.557	277.250	303.170	328.763	353.781	378.157	401.901
90.0	159.909	184.237	209.888	235.480	261.084	286.490	311.436	336.144	360.225	383.619
92.5	146.771	170.880	195.529	220.386	245.159	270.031	294.507	318.555	342.152	365.270
95.0	135.343	158.448	181.781	205.815	229.758	253.805	277.708	301.289	324.382	346.681
97.5	125.079	146.879	169.203	191.955	215.022	238.827	261.213	284.066	306.769	328.533
100.0	115.453	136.162	157.504	178.961	201.089	223.091	245.296	267.321	289.204	310.494
102.5	107.063	126.253	146.590	167.138	188.020	209.106	230.205	251.375	272.195	292.876
105.0	99.457	117.564	136.415	155.987	175.574	195.979	216.379	236.185	256.007	275.933
107.5	92.507	109.592	127.072	145.578	164.268	183.533	202.687	221.771	240.685	259.719
110.0	86.142	102.171	118.722	135.892	153.574	171.648	189.792	208.007	226.156	244.231
112.5	80.415	95.152	110.775	126.833	143.544	160.294	177.528	194.737	212.120	229.379
115.0	74.821	88.240	103.146	118.208	133.900	149.695	165.889	182.062	198.621	215.005
117.5	69.241	82.020	95.636	109.871	124.486	139.444	154.696	170.073	185.635	201.109
120.0	63.618	75.512	87.991	101.538	115.313	129.464	143.747	158.297	172.989	187.664
122.5	57.952	68.878	80.749	93.361	106.252	119.616	133.056	146.780	160.537	174.380
125.0	52.243	62.466	73.660	85.321	97.421	109.865	122.505	135.413	148.328	161.222
127.5	46.936	56.165	66.675	77.310	88.622	100.170	112.028	123.825	136.511	148.486
130.0	42.046	50.655	59.867	69.542	79.890	90.940	101.517	112.729	124.070	135.555
132.5	37.909	45.430	53.373	62.147	71.355	80.928	91.052	101.305	111.818	122.478
135.0	34.152	40.645	47.531	55.276	63.231	71.868	80.858	90.266	99.625	109.353
137.5	30.611	36.221	42.405	48.976	55.833	63.459	71.225	79.302	87.871	96.482
140.0	27.201	32.047	37.525	43.177	49.297	55.761	62.353	69.497	76.683	84.311
142.5	23.942	28.281	32.896	37.722	43.134	48.665	54.377	60.560	66.807	72.888
145.0	20.945	24.723	28.546	32.821	37.365	42.010	47.040	52.296	57.601	61.630
147.5	18.397	21.406	24.645	28.293	32.023	35.809	40.250	44.634	48.062	51.599
150.0	15.963	18.392	21.261	24.188	27.168	30.555	33.963	36.822	39.625	42.715
152.5	13.673	15.881	18.114	20.523	23.073	25.563	27.852	30.099	32.520	35.015
155.0	11.491	13.364	15.276	17.172	19.023	20.851	22.654	24.491	26.496	28.450
157.5	9.510	10.838	12.168	13.705	15.215	16.695	18.168	19.738	21.303	22.831
160.0	7.445	8.444	9.608	10.748	11.872	13.101	14.253	15.522	16.756	17.952
162.5	5.745	6.586	7.419	8.243	9.093	10.028	10.990	11.931	12.850	13.743
165.0	4.305	4.922	5.532	6.172	6.881	7.577	8.261	8.930	9.583	10.270
167.5	3.026	3.432	3.953	4.468	4.973	5.470	5.958	6.434	6.908	7.439
170.0	2.073	2.397	2.718	3.035	3.350	3.660	4.015	4.333	4.708	5.071
172.5	1.303	1.475	1.647	1.818	2.012	2.250	2.482	2.709	2.930	3.145
175.0	0.555	0.678	0.800	0.920	1.038	1.149	1.267	1.379	1.487	1.593
177.5	0.274	0.295	0.315	0.335	0.355	0.374	0.391	0.411	0.429	0.446
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	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562	581.562
2.5	596.541	597.220	597.867	598.482	599.063	599.610	600.120	600.593	601.787	601.953
5.0	611.534	612.947	614.294	615.571	616.775	617.904	618.955	619.927	620.816	621.621
7.5	626.713	628.971	631.124	633.165	635.089	636.892	638.568	640.114	641.526	642.800

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10.0	641.668	644.651	647.490	650.180	652.712	655.079	657.275	659.295	661.132	662.784
12.5	655.554	659.406	663.042	666.497	669.758	672.815	675.657	678.275	680.659	682.802
15.0	668.754	673.490	678.024	682.251	686.173	689.856	693.285	696.446	699.354	701.919
17.5	680.918	686.423	691.706	696.747	701.454	705.691	709.633	713.265	716.568	719.531
20.0	691.690	698.160	704.116	709.801	715.188	720.247	724.962	729.335	733.340	736.950
22.5	700.357	707.944	715.166	721.888	728.205	734.170	739.696	744.658	749.233	753.386
25.0	708.349	716.993	725.241	733.527	740.066	746.575	752.691	758.225	763.007	767.375
27.5	715.224	725.139	734.338	742.818	750.884	757.669	763.795	769.314	774.251	779.020
30.0	720.913	731.784	741.892	751.363	759.688	767.483	773.960	779.700	784.706	789.022
32.5	724.746	736.544	747.967	758.108	767.648	775.779	783.720	789.592	795.225	799.903
35.0	725.956	739.019	751.153	762.802	773.109	782.933	791.197	798.556	804.618	809.791
37.5	725.162	739.419	752.468	764.984	776.525	786.883	797.103	804.760	812.633	818.593
40.0	722.155	737.396	751.581	765.064	778.084	789.018	799.204	808.232	815.917	823.056
42.5	719.249	735.631	750.700	764.986	778.486	790.298	800.790	810.135	817.661	824.053
45.0	715.263	732.431	748.391	763.482	777.540	789.978	801.261	811.377	819.616	826.670
47.5	708.687	726.572	743.563	759.574	773.807	786.856	798.653	808.728	816.961	823.926
50.0	699.204	718.177	736.381	751.829	766.498	780.071	792.017	802.240	810.985	818.324
52.5	687.562	706.973	724.833	741.452	756.759	770.366	782.823	794.937	804.106	813.012
55.0	673.428	693.370	712.033	728.766	744.179	758.469	772.635	785.028	795.736	804.585
57.5	657.416	677.815	696.621	714.105	730.786	746.870	761.606	774.145	785.107	793.544
60.0	638.942	660.081	679.485	699.064	717.423	733.746	748.507	761.684	772.514	780.900
62.5	618.826	640.581	662.982	683.316	701.837	719.440	733.847	747.397	758.122	767.271
65.0	598.073	622.476	644.989	665.890	684.660	701.927	717.468	730.896	742.322	752.242
67.5	578.976	603.382	625.959	646.987	666.176	683.506	699.216	712.877	724.896	735.178
70.0	559.377	583.477	606.427	627.439	646.833	664.221	680.042	693.955	706.282	716.868
72.5	540.770	563.391	585.842	607.205	626.927	644.322	660.226	674.445	687.199	698.176
75.0	520.139	543.507	565.598	586.364	605.749	623.673	639.816	654.303	668.046	678.794
77.5	500.563	523.914	545.779	566.721	584.657	602.115	618.460	633.413	646.873	658.440
80.0	481.259	504.205	526.128	545.770	563.892	580.958	597.032	611.918	625.553	636.883
82.5	462.297	485.090	506.086	525.161	543.205	560.057	575.823	590.479	604.024	614.626
85.0	443.432	466.027	486.084	504.887	522.630	539.346	554.944	569.343	582.688	592.471
87.5	424.930	446.307	466.056	484.685	502.335	518.896	534.412	548.866	561.474	570.849
90.0	406.187	426.806	446.332	464.798	482.193	498.676	514.098	529.298	540.157	549.360
92.5	387.069	407.549	426.977	445.367	462.673	479.001	494.286	508.533	519.036	528.201
95.0	368.063	388.601	408.027	426.331	443.594	459.887	475.140	489.015	498.532	507.285
97.5	349.436	370.200	388.969	407.539	424.821	441.311	456.592	469.209	478.321	486.722
100.0	331.194	351.092	370.157	388.386	405.881	422.559	438.345	449.654	458.355	466.407
102.5	313.136	332.772	351.682	369.791	387.067	403.518	419.146	428.844	437.634	445.677
105.0	295.433	314.617	333.278	351.272	368.441	384.823	398.955	408.154	416.667	424.485
107.5	278.369	296.922	315.011	332.586	349.633	366.003	379.255	387.331	395.641	403.292
110.0	262.033	279.830	297.193	314.194	330.802	346.838	357.089	365.842	374.037	381.576
112.5	246.457	263.398	279.971	296.314	312.300	326.583	335.642	344.200	352.126	359.284
115.0	231.360	247.539	263.383	279.038	294.321	306.058	314.715	322.908	330.502	337.480
117.5	216.703	232.113	247.265	262.256	276.865	286.080	294.301	302.078	309.313	315.987
120.0	202.421	217.020	231.465	245.765	258.314	266.514	274.306	281.648	288.493	294.818
122.5	188.324	202.153	215.875	229.434	239.351	247.111	254.495	261.399	267.918	273.899
125.0	174.402	187.347	200.297	212.785	220.532	228.363	234.882	241.435	247.532	253.157
127.5	160.692	173.218	184.941	194.631	201.850	208.728	215.330	221.518	227.274	232.526
130.0	147.020	158.438	169.766	176.828	183.538	189.951	196.075	201.818	207.161	212.085
132.5	133.140	143.803	152.544	159.064	165.455	171.433	177.090	182.394	187.326	191.867
135.0	119.098	128.673	135.270	141.477	147.282	152.967	158.241	163.158	167.705	171.866
137.5	105.127	112.287	118.310	124.029	129.963	134.653	139.559	144.120	148.324	152.157
140.0	91.176	96.804	102.179	107.240	112.156	116.963	121.450	125.606	129.423	132.892
142.5	77.793	82.651	87.314	91.770	96.115	100.399	104.403	108.118	111.535	114.647
145.0	65.869	69.958	73.890	77.654	81.455	85.172	88.660	91.909	94.909	97.652
147.5	55.184	58.624	61.952	65.282	68.403	71.526	74.459	77.196	79.727	82.045

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CANDELA TABULATION - (Cont.)

150.0	45.695	48.563	51.312	54.013	56.782	59.396	61.850	64.136	66.249	68.182
152.5	37.428	39.755	41.992	44.304	46.587	48.742	50.763	52.645	54.384	55.976
155.0	30.349	32.189	33.989	35.929	37.772	39.516	41.155	42.687	44.105	45.406
157.5	24.317	25.760	27.267	28.785	30.233	31.607	32.903	34.119	35.248	36.289
160.0	19.108	20.255	21.478	22.650	23.769	24.832	25.826	26.776	27.651	28.457
162.5	14.635	15.583	16.500	17.413	18.262	19.064	19.817	20.520	21.171	21.768
165.0	10.948	11.665	12.353	13.012	13.639	14.234	14.795	15.319	15.807	16.256
167.5	7.953	8.449	8.924	9.382	9.818	10.230	10.620	10.984	11.323	11.635
170.0	5.422	5.760	6.085	6.396	6.692	6.972	7.236	7.483	7.712	7.923
172.5	3.353	3.554	3.747	3.933	4.110	4.278	4.436	4.585	4.716	4.851
175.0	1.696	1.795	1.890	1.982	2.070	2.153	2.231	2.305	2.373	2.435
177.5	0.462	0.478	0.494	0.508	0.522	0.535	0.548	0.559	0.589	0.593
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

	350.0	352.5	355.0	357.5	360.0
0.0	581.562	581.562	581.562	581.562	581.562
2.5	602.119	602.288	602.457	602.627	602.798
5.0	623.065	623.381	623.700	624.021	624.342
7.5	643.933	645.598	646.066	646.536	647.008
10.0	664.245	665.513	666.984	667.562	668.142
12.5	684.697	686.337	688.255	688.969	689.686
15.0	704.209	706.189	708.563	709.357	710.208
17.5	722.140	724.386	726.263	727.955	728.892
20.0	740.145	742.903	745.206	747.283	748.393
22.5	757.085	760.298	762.998	765.446	766.771
25.0	771.289	774.714	777.620	780.270	781.780
27.5	783.385	787.287	790.714	793.806	795.665
30.0	793.997	798.309	801.919	805.164	806.998
32.5	803.342	807.996	812.219	816.212	818.536
35.0	813.449	815.892	820.526	824.654	827.929
37.5	822.922	825.129	826.688	831.669	835.791
40.0	828.674	833.138	834.429	836.210	842.019
42.5	829.723	834.932	839.800	840.573	844.469
45.0	832.695	837.396	840.580	842.644	843.550
47.5	829.538	833.523	838.870	841.197	844.469
50.0	825.442	831.771	834.917	835.109	842.019
52.5	820.650	825.229	826.752	830.392	835.791
55.0	811.971	815.336	817.417	823.252	827.929
57.5	799.941	804.330	808.671	814.201	818.536
60.0	787.366	792.252	798.100	803.198	806.998
62.5	774.122	779.707	786.104	791.467	795.665
65.0	759.826	766.606	772.847	777.920	781.780
67.5	743.630	751.203	757.675	763.574	766.771
70.0	725.813	733.329	739.638	745.347	748.393
72.5	707.156	714.451	720.505	725.921	728.892
75.0	687.692	695.141	701.391	707.034	710.208
77.5	667.054	674.513	680.784	686.454	689.686
80.0	645.565	653.020	659.253	664.854	668.142
82.5	623.451	631.070	637.539	643.427	647.008
85.0	601.056	608.524	614.882	620.670	624.342
87.5	579.239	586.629	593.015	598.892	602.798
90.0	557.822	565.205	571.618	577.538	581.562
92.5	536.400	543.710	550.119	556.075	560.223
95.0	515.247	522.395	528.709	534.609	538.782

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CANDELA TABULATION - (Cont.)

97.5	494.262	501.290	507.411	513.143	517.239
100.0	473.776	480.437	486.359	491.919	495.900
102.5	452.961	459.475	465.214	470.563	474.357
105.0	431.593	437.978	443.630	448.917	452.711
107.5	410.265	416.542	422.109	427.322	431.066
110.0	388.439	394.607	400.067	405.175	408.808
112.5	365.958	371.935	377.207	382.127	385.632
115.0	343.831	349.544	354.607	359.222	362.761
117.5	322.084	327.588	332.483	337.079	340.401
120.0	300.607	305.840	310.501	314.880	318.042
122.5	279.369	284.308	288.701	292.825	295.784
125.0	258.292	262.922	267.031	270.883	273.628
127.5	237.419	241.774	245.629	249.238	251.779
130.0	216.574	220.609	224.173	227.507	229.827
132.5	195.998	199.702	202.962	206.004	208.080
135.0	175.629	178.979	181.905	184.622	186.435
137.5	155.611	158.672	161.331	163.791	165.402
140.0	136.007	138.760	141.910	143.343	144.778
142.5	117.446	119.925	122.761	124.070	125.379
145.0	100.129	102.331	104.854	106.029	107.205
147.5	84.140	86.007	88.145	89.149	90.154
150.0	69.929	71.484	73.263	74.102	74.941
152.5	57.415	58.698	60.114	60.863	61.566
155.0	46.587	47.644	48.846	49.437	50.029
157.5	37.237	38.088	39.056	39.539	40.023
160.0	29.191	29.850	30.601	30.973	31.345
162.5	22.310	22.795	23.346	23.618	23.891
165.0	16.665	17.032	17.448	17.658	17.868
167.5	11.920	12.318	12.466	12.614	12.763
170.0	8.114	8.384	8.482	8.580	8.679
172.5	4.967	5.130	5.190	5.249	5.309
175.0	2.547	2.574	2.601	2.628	2.655
177.5	0.597	0.601	0.605	0.609	0.613
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	212.44	N.A.	8.40
0-30	455.02	N.A.	18.00
0-40	753.69	N.A.	29.80
0-60	1381.72	N.A.	54.60
0-80	1881.65	N.A.	74.30
0-90	2066.78	N.A.	81.70
10-90	2012.07	N.A.	79.50
20-40	541.26	N.A.	21.40
20-50	861.31	N.A.	34.00
40-70	900.19	N.A.	35.60
60-80	499.93	N.A.	19.80
70-80	227.77	N.A.	9.00
80-90	185.13	N.A.	7.30
90-110	264.02	N.A.	10.40
90-120	349.43	N.A.	13.80
90-130	407.33	N.A.	16.10
90-150	456.95	N.A.	18.10
90-180	464.08	N.A.	18.30
110-180	200.07	N.A.	7.90
0-180	2530.86	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	54.71
10-20	157.72
20-30	242.59
30-40	298.67
40-50	320.05
50-60	307.98
60-70	272.16
70-80	227.77
80-90	185.13
90-100	148.36
100-110	115.65
110-120	85.41
120-130	57.90
130-140	33.77
140-150	15.85
150-160	5.70
160-170	1.33
170-180	0.11

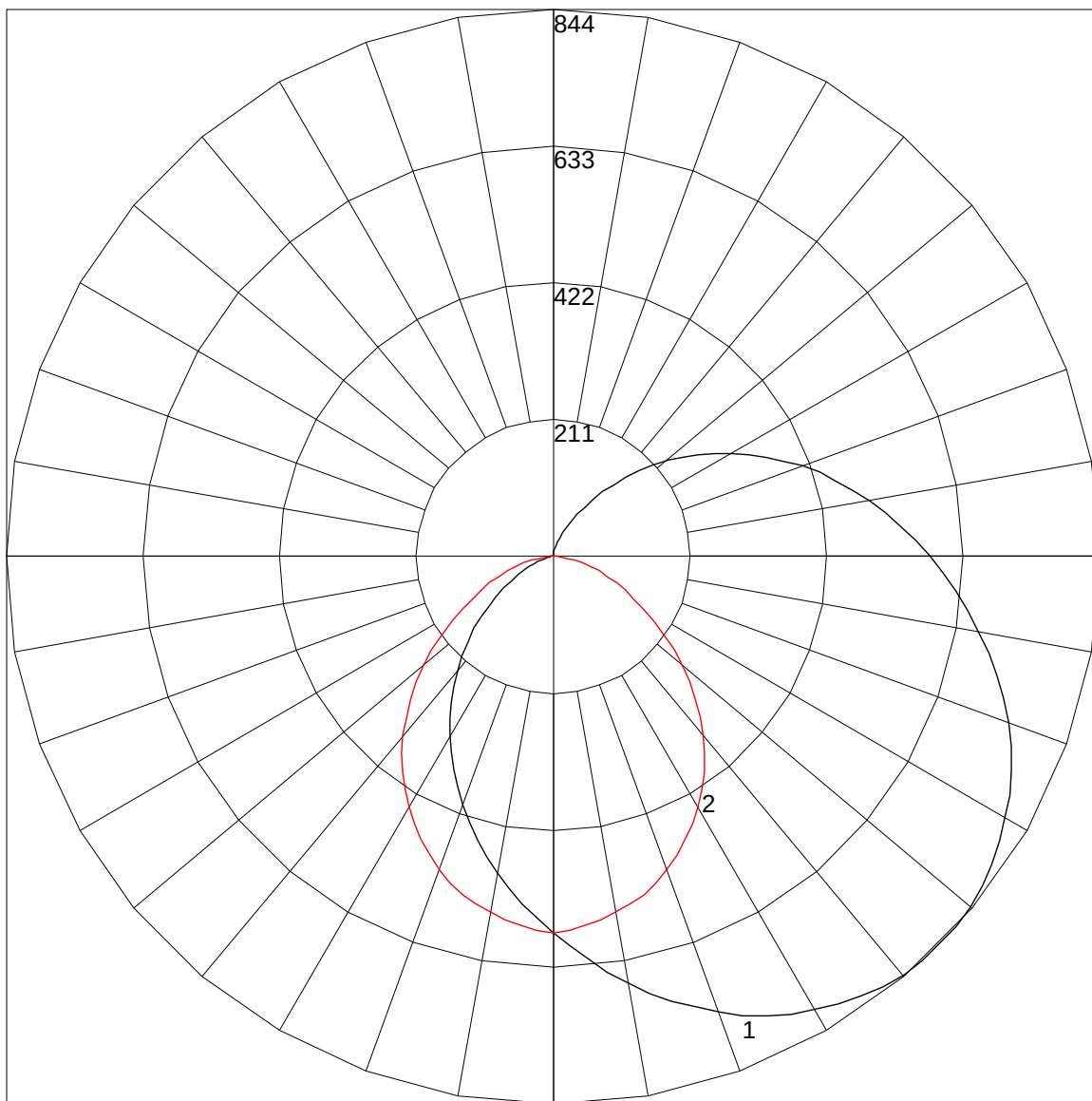
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 844.469 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)