



IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCNL48MFA30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]1410211019-002-001-P
[TESTLAB]Intertek
[ISSUE DATE]10/27/2014
[MANUFACTURER]LAMAR LIGHTING CO., INC.
[LUMEN CATEGORY]MCNL48MFA30
[MORE]MED POWER SETTING (OUTPUT 880MA)
[LUMINAIRE]SURFACE MOUNT
[LAMP]LED
[LAMP CATEGORY]NA. LUMINAIRE OUTPUT = 3408 LMS
[OTHER]120.03 VAC, 313.8 mA, 36 W, 0.9918 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3408
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	36
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	8039	5654	2712
55	9664	6138	2161
65	12254	6820	1607
75	17759	8223	1123
85	41713	13433	432

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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	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200
2.5	811.800	811.570	811.341	811.113	810.886	810.661	810.439	808.830	808.193	807.506
5.0	840.813	840.380	839.949	839.519	839.093	837.149	836.064	834.867	833.559	832.143
7.5	871.337	870.702	870.068	869.439	867.196	865.670	863.954	862.053	859.971	857.713
10.0	899.800	899.019	898.240	896.260	894.551	892.583	890.359	887.884	885.165	882.207
12.5	928.813	927.847	926.886	924.302	922.094	919.493	916.656	913.445	909.919	906.092
15.0	956.450	955.304	954.165	951.038	948.371	945.287	941.798	937.917	933.659	929.041
17.5	981.612	980.350	978.072	975.545	972.519	969.005	965.016	960.567	955.677	950.368
20.0	1007.875	1006.381	1003.583	1000.482	996.768	992.465	987.602	982.209	976.304	969.969
22.5	1032.625	1030.838	1027.521	1023.908	1019.580	1014.599	1009.006	1002.844	996.162	988.689
25.0	1052.838	1050.803	1047.236	1043.322	1038.709	1033.438	1027.557	1021.117	1013.664	1005.428
27.5	1071.537	1069.034	1064.809	1060.254	1054.999	1049.121	1042.698	1036.050	1028.618	1020.368
30.0	1086.800	1084.330	1079.960	1075.097	1069.290	1062.590	1056.778	1050.037	1042.306	1033.583
32.5	1102.338	1099.209	1093.830	1088.143	1081.876	1077.245	1070.944	1063.358	1055.449	1044.750
35.0	1114.987	1110.577	1105.018	1098.777	1095.488	1090.561	1083.594	1075.430	1065.520	1054.391
37.5	1125.575	1120.023	1113.316	1111.217	1108.245	1102.416	1094.388	1083.785	1073.474	1059.701
40.0	1133.963	1126.140	1123.742	1122.003	1115.991	1108.424	1098.811	1088.461	1076.298	1062.586
42.5	1137.263	1132.016	1130.975	1124.420	1117.405	1109.768	1101.159	1091.024	1078.452	1064.309
45.0	1136.025	1134.805	1132.025	1127.737	1121.406	1113.292	1103.792	1092.696	1079.074	1063.879
47.5	1137.263	1132.855	1129.722	1122.522	1117.154	1109.596	1100.217	1089.126	1075.562	1059.675
50.0	1133.963	1124.657	1124.398	1120.161	1111.639	1102.053	1092.168	1080.381	1066.625	1050.538
52.5	1125.575	1118.344	1113.402	1111.353	1105.184	1094.899	1082.905	1070.557	1054.242	1037.466
55.0	1114.987	1108.688	1100.831	1098.029	1093.496	1083.549	1071.633	1057.213	1040.523	1021.439
57.5	1102.338	1096.501	1089.053	1083.205	1077.295	1068.681	1057.319	1042.555	1025.670	1005.824
60.0	1086.800	1081.683	1074.816	1066.940	1060.361	1051.652	1040.359	1025.775	1008.028	988.149
62.5	1071.537	1065.883	1058.662	1050.045	1042.524	1033.298	1020.977	1006.533	988.284	968.884
65.0	1052.838	1047.640	1040.807	1032.402	1023.273	1013.059	999.699	984.311	966.227	945.299
67.5	1032.625	1028.320	1020.376	1011.660	1001.460	990.078	976.231	960.045	941.649	920.491
70.0	1007.875	1003.773	996.084	987.587	977.466	965.420	951.163	934.563	915.867	894.519
72.5	981.612	977.612	970.318	962.165	952.341	940.247	925.464	908.288	889.139	867.721
75.0	956.450	952.177	944.576	936.160	926.128	914.145	899.669	881.162	861.652	839.912
77.5	928.813	924.460	916.824	908.381	898.334	886.733	871.156	853.029	832.892	810.880
80.0	899.800	895.371	887.828	879.436	869.396	857.703	842.445	824.083	804.035	782.387
82.5	871.337	866.514	858.587	849.874	839.612	827.827	813.449	795.210	775.472	754.240
85.0	840.813	835.868	828.073	819.511	809.453	797.893	784.718	766.746	747.353	726.348
87.5	811.800	806.540	798.625	790.025	780.072	768.774	756.148	739.295	719.703	698.807
90.0	783.200	777.780	769.809	761.172	751.229	739.981	727.439	712.815	692.346	671.577
92.5	754.462	748.876	740.855	732.224	722.380	711.337	699.118	684.851	665.665	645.080
95.0	725.587	719.967	712.023	703.519	693.892	683.170	671.382	658.565	639.879	619.337
97.5	696.575	691.060	683.339	675.096	665.799	655.477	644.163	631.892	614.900	594.322
100.0	667.837	662.476	654.989	647.012	638.043	628.117	617.275	605.557	590.327	569.067
102.5	638.825	633.716	626.512	618.784	610.011	600.202	589.370	577.532	564.473	543.425
105.0	609.675	604.565	597.446	589.834	581.235	571.662	561.133	549.668	537.280	518.248
107.5	580.525	575.484	568.462	560.965	552.512	543.122	532.818	521.626	510.750	492.903
110.0	550.550	545.829	538.778	531.426	523.117	513.875	503.722	492.686	480.899	467.093
112.5	519.337	514.617	508.002	500.927	492.926	484.016	474.214	463.540	452.015	439.816
115.0	488.538	483.942	477.557	470.738	463.045	454.491	445.093	434.867	423.833	412.175
117.5	458.425	453.951	447.762	441.169	433.757	425.546	416.558	406.815	396.342	385.270
120.0	428.313	424.054	418.157	411.881	404.833	397.037	388.518	379.301	369.413	358.919
122.5	398.337	394.352	388.798	382.883	376.231	368.865	360.809	352.090	342.734	332.790
125.0	368.500	364.803	359.615	354.082	347.847	340.931	333.356	325.144	316.320	307.540
127.5	339.075	335.652	330.792	325.601	319.737	313.220	306.074	298.322	289.989	281.099
130.0	309.512	306.387	301.897	297.097	291.664	285.619	278.987	271.792	264.058	255.810
132.5	280.225	277.429	273.332	268.943	263.954	258.390	252.275	245.633	238.490	230.871

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CANDELA TABULATION - (Cont.)

135.0	251.075	248.634	244.975	241.035	236.523	231.456	225.851	219.728	213.105	206.003
137.5	222.750	220.581	217.267	213.769	209.564	204.913	199.861	194.089	187.946	181.378
140.0	194.975	193.043	191.113	186.870	183.163	178.968	174.296	169.155	163.559	157.517
142.5	168.850	167.087	165.325	161.506	158.167	154.397	150.206	145.604	140.601	135.210
145.0	144.375	142.792	141.209	137.811	134.846	131.510	127.816	123.775	119.400	114.703
147.5	121.412	120.058	118.706	115.827	113.314	110.491	107.370	103.961	100.276	96.325
150.0	100.925	99.794	98.740	96.269	94.175	91.822	89.219	86.373	83.294	79.990
152.5	82.912	81.966	81.020	79.050	77.322	75.384	73.241	70.898	68.363	65.642
155.0	67.375	66.578	65.782	64.163	62.741	61.150	59.397	57.486	55.425	53.219
157.5	53.900	53.248	52.597	51.293	50.147	48.871	47.470	45.948	44.311	42.565
160.0	42.212	41.711	41.210	40.199	39.312	38.324	37.238	36.060	34.794	33.442
162.5	32.175	31.807	31.440	30.715	30.046	29.316	28.536	27.635	26.688	25.685
165.0	24.063	23.780	23.497	22.937	22.442	21.892	21.287	20.631	19.924	19.169
167.5	17.188	16.988	16.788	16.589	16.071	15.669	15.249	14.792	14.322	13.777
170.0	11.688	11.555	11.423	11.291	10.928	10.670	10.386	10.077	9.744	9.389
172.5	7.150	7.070	6.989	6.909	6.689	6.533	6.361	6.175	5.974	5.761
175.0	3.575	3.538	3.502	3.466	3.430	3.279	3.195	3.103	3.004	2.899
177.5	0.825	0.820	0.814	0.809	0.803	0.798	0.793	0.752	0.737	0.720
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	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200
2.5	806.770	805.987	805.159	804.287	803.373	802.420	801.428	800.354	799.338	798.245
5.0	830.622	829.001	827.281	825.468	823.564	821.576	819.506	817.359	815.141	812.857
7.5	855.286	852.695	849.946	847.047	844.006	840.830	837.526	834.104	830.572	827.035
10.0	879.019	875.610	871.988	868.163	864.147	859.951	855.430	850.728	845.882	840.903
12.5	901.975	897.584	892.932	888.035	882.848	877.425	871.787	865.951	859.935	853.756
15.0	924.083	918.802	913.108	907.003	900.624	893.993	887.133	880.024	872.572	864.932
17.5	944.662	938.323	931.534	924.418	917.005	909.624	901.042	892.555	883.870	874.840
20.0	963.157	955.902	948.246	940.226	931.513	922.034	912.236	902.959	891.411	880.500
22.5	980.687	972.180	963.128	953.402	943.185	932.556	921.204	909.420	897.394	884.785
25.0	996.661	987.815	976.696	965.588	953.948	941.552	928.781	915.405	901.556	888.431
27.5	1011.231	1000.367	988.947	976.557	963.206	950.619	934.699	919.702	904.053	888.072
30.0	1023.086	1011.874	999.119	985.507	970.866	955.217	938.958	921.939	904.582	886.786
32.5	1033.806	1020.958	1007.301	991.917	976.028	958.577	940.782	921.824	902.721	882.893
35.0	1041.161	1027.280	1011.592	995.194	977.658	959.090	939.599	919.092	898.310	876.466
37.5	1045.761	1030.213	1013.363	995.788	976.589	956.731	935.651	913.539	892.208	867.268
40.0	1047.860	1030.317	1012.167	993.064	972.539	951.257	928.660	904.958	880.600	855.087
42.5	1048.402	1030.221	1010.982	990.687	968.625	945.568	921.499	895.505	868.622	840.797
45.0	1047.129	1028.196	1007.872	986.379	963.261	938.658	913.023	886.002	857.360	828.069
47.5	1042.101	1022.941	1001.370	978.488	954.403	928.533	901.260	872.910	843.104	812.362
50.0	1032.258	1012.501	991.698	967.183	941.632	914.887	886.407	856.351	825.473	793.884
52.5	1019.141	998.527	976.146	952.094	925.954	897.665	867.779	836.924	804.782	772.200
55.0	1002.200	981.442	958.909	933.775	906.919	878.343	847.250	814.889	781.448	747.832
57.5	984.162	961.698	938.153	912.825	885.354	855.448	824.126	791.510	757.449	722.699
60.0	966.167	941.442	915.075	888.944	860.474	830.391	798.650	765.647	731.746	697.062
62.5	945.178	920.235	892.851	862.682	833.383	802.846	771.085	738.284	704.512	670.110
65.0	922.045	896.766	868.619	838.299	805.436	773.536	742.076	709.483	676.123	642.133
67.5	897.152	871.309	843.117	812.586	779.718	745.252	711.772	679.693	646.812	613.318
70.0	871.101	844.984	816.687	785.780	753.324	719.240	683.592	649.104	616.736	583.887
72.5	844.295	817.734	788.966	758.729	728.265	693.210	657.945	621.142	586.089	554.051
75.0	815.774	789.668	761.702	731.951	700.482	667.145	633.416	595.981	558.722	524.255
77.5	787.369	763.215	735.012	705.564	674.119	641.151	606.791	571.298	534.853	498.263
80.0	759.405	735.187	708.547	679.022	648.121	616.051	581.861	547.101	511.790	475.936

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CANDELA TABULATION - (Cont.)

82.5	731.545	707.244	681.556	653.281	622.584	590.439	557.784	523.468	489.267	453.583
85.0	703.836	679.941	654.619	627.609	597.179	565.789	533.339	500.036	465.917	431.006
87.5	676.503	652.734	627.647	601.050	572.261	541.248	509.272	476.443	442.751	408.285
90.0	649.380	625.953	601.084	574.788	547.019	516.627	485.122	452.691	419.418	385.822
92.5	623.090	599.988	575.018	548.853	521.272	491.917	460.784	429.005	396.618	363.656
95.0	597.397	574.147	549.498	523.335	495.678	466.883	436.851	405.751	373.994	341.804
97.5	572.390	548.840	523.832	498.555	470.593	442.442	413.131	382.558	351.839	321.632
100.0	546.608	523.048	498.497	472.822	446.026	418.147	389.476	360.005	330.345	300.439
102.5	521.270	498.004	473.618	448.150	421.706	394.422	366.569	338.530	310.021	281.607
105.0	496.187	473.065	448.832	423.700	397.866	371.603	344.769	318.074	291.401	263.929
107.5	470.857	447.899	424.230	399.870	374.884	349.768	324.413	298.663	272.963	247.168
110.0	445.498	423.472	400.235	376.852	352.885	328.911	304.570	280.128	255.597	231.626
112.5	420.580	399.053	377.042	354.723	331.908	308.909	285.667	262.256	239.080	215.871
115.0	396.368	375.786	354.703	333.365	311.578	289.551	267.487	245.187	223.407	201.598
117.5	372.860	353.186	332.997	312.591	291.839	270.838	249.999	229.039	208.331	187.793
120.0	347.877	330.977	311.719	292.264	272.605	252.730	232.968	213.181	193.586	174.352
122.5	322.339	308.982	290.722	272.241	253.620	234.841	216.198	197.672	179.189	161.090
125.0	296.994	286.561	269.743	252.303	234.871	217.309	199.756	182.364	164.979	147.957
127.5	271.835	262.113	249.063	233.276	216.407	199.968	183.842	167.122	150.871	134.900
130.0	247.174	238.138	228.733	213.372	197.994	182.555	167.088	151.815	136.715	122.471
132.5	222.821	214.341	205.433	193.662	179.510	164.943	150.588	136.500	122.622	108.987
135.0	198.465	190.529	182.170	173.406	160.392	147.268	134.167	121.564	108.894	96.785
137.5	175.024	167.032	159.329	151.219	141.577	129.935	118.338	107.064	95.919	85.462
140.0	151.042	144.490	137.606	130.367	122.789	113.544	103.536	93.593	83.972	75.094
142.5	129.439	123.589	117.587	111.308	104.766	98.161	89.971	81.773	73.231	65.538
145.0	109.697	104.578	99.509	94.215	88.708	82.999	77.581	70.428	63.537	56.575
147.5	92.120	87.917	83.433	78.968	74.318	69.504	64.725	60.112	54.206	48.369
150.0	76.470	72.741	69.102	65.400	61.539	57.525	53.366	49.589	45.739	41.149
152.5	62.740	59.666	56.552	53.539	50.405	47.219	43.795	40.535	37.508	34.426
155.0	50.869	48.386	45.773	43.349	40.872	38.314	35.682	32.982	30.508	28.081
157.5	40.715	38.765	36.721	34.690	32.748	30.759	28.690	26.581	24.467	22.484
160.0	32.011	30.504	28.925	27.279	25.733	24.176	22.566	20.904	19.195	17.644
162.5	24.594	23.451	22.248	20.986	19.709	18.508	17.304	16.068	14.801	13.505
165.0	18.368	17.523	16.636	15.709	14.744	13.831	12.905	12.026	11.125	10.205
167.5	13.221	12.636	12.021	11.379	10.711	10.019	9.303	8.665	8.023	7.367
170.0	9.011	8.613	8.195	7.757	7.302	6.847	6.340	5.835	5.407	4.929
172.5	5.534	5.296	5.046	4.786	4.515	4.235	3.946	3.648	3.343	3.030
175.0	2.786	2.668	2.545	2.416	2.282	2.144	2.002	1.856	1.706	1.553
177.5	0.703	0.684	0.664	0.643	0.622	0.600	0.576	0.553	0.528	0.504
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	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200
2.5	797.123	795.973	794.798	793.602	792.385	791.151	789.902	788.640	787.369	786.090
5.0	810.511	808.109	805.656	803.158	800.665	798.145	795.598	793.030	790.445	787.850
7.5	823.416	819.714	815.937	812.094	808.195	804.211	800.264	797.181	792.340	788.398
10.0	835.806	830.597	825.306	820.034	814.715	809.339	803.921	798.472	793.005	787.659
12.5	847.242	840.589	833.830	826.984	820.067	813.197	806.178	799.382	792.453	786.506
15.0	857.127	849.182	840.953	832.601	824.182	815.717	807.294	798.877	790.468	782.085
17.5	865.098	855.218	845.233	835.083	824.844	814.606	804.408	794.346	784.355	774.461
20.0	869.434	857.812	846.048	834.229	822.342	810.476	798.668	787.059	775.570	764.320
22.5	871.965	858.970	845.356	831.587	818.120	804.625	791.227	778.088	765.125	752.376
25.0	872.864	858.163	842.922	827.421	812.044	796.938	781.976	767.361	752.965	738.811
27.5	871.890	855.385	838.521	821.149	803.997	787.319	771.937	754.828	739.054	723.461

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CANDELA TABULATION - (Cont.)

30.0	868.807	850.451	831.934	812.621	793.880	775.692	757.840	740.454	723.293	706.278
32.5	862.983	842.672	822.161	801.192	780.752	760.906	741.601	722.829	704.302	686.175
35.0	854.596	832.334	809.861	787.224	765.211	743.717	722.903	702.568	682.551	663.232
37.5	843.409	819.292	794.923	770.747	747.184	724.206	701.897	680.040	658.721	638.367
40.0	829.221	804.721	777.274	751.665	726.598	702.234	678.510	655.322	632.647	611.487
42.5	811.908	784.278	756.886	729.840	703.436	677.765	652.585	628.462	605.146	582.867
45.0	798.127	767.907	737.810	707.849	678.275	650.794	624.697	599.538	575.399	552.580
47.5	781.336	750.137	718.951	688.112	657.673	627.701	598.226	569.247	544.140	521.016
50.0	761.698	729.596	699.059	666.091	635.012	604.415	574.458	545.488	517.406	490.661
52.5	739.396	706.546	674.035	641.960	610.415	579.555	549.406	520.332	492.517	465.549
55.0	714.381	681.146	648.228	615.938	584.258	553.211	523.329	494.456	466.382	439.526
57.5	687.370	653.540	620.623	588.275	556.591	526.001	496.250	468.136	439.667	412.585
60.0	661.865	626.454	591.291	559.272	528.080	497.653	468.164	439.733	411.925	384.795
62.5	635.268	600.182	565.335	530.765	498.400	468.470	439.435	411.130	383.517	356.704
65.0	607.729	573.293	538.984	504.924	471.389	438.555	409.828	381.921	354.788	328.220
67.5	579.554	545.748	512.183	479.038	446.015	414.740	380.752	352.464	325.716	299.639
70.0	550.837	517.957	485.411	452.883	420.437	388.256	356.368	324.908	296.685	271.190
72.5	522.041	490.315	458.484	426.643	394.841	363.155	331.746	301.001	270.782	242.769
75.0	493.579	462.645	431.562	400.312	369.010	337.824	307.190	277.013	247.321	218.501
77.5	465.211	435.350	404.490	373.738	342.944	312.559	282.577	253.006	224.246	196.485
80.0	439.508	407.207	377.155	346.920	316.921	287.294	258.002	229.419	201.755	174.894
82.5	417.554	380.936	349.567	320.093	290.992	262.138	233.851	206.432	179.747	154.025
85.0	395.431	359.741	322.873	293.506	265.249	237.377	210.358	184.001	158.507	135.170
87.5	373.378	338.777	302.558	267.202	239.840	213.381	187.515	162.348	139.236	117.393
90.0	351.607	317.125	282.660	248.114	215.352	190.154	165.544	142.673	121.049	100.553
92.5	330.160	296.797	263.322	230.127	197.659	167.920	145.358	124.091	103.838	84.695
95.0	309.420	277.174	244.808	213.385	182.269	151.939	126.390	106.588	87.938	70.540
97.5	289.573	258.509	227.869	197.805	168.448	139.766	112.455	90.627	73.959	57.972
100.0	270.810	241.107	212.113	183.372	155.483	128.846	103.162	79.462	61.569	47.159
102.5	253.210	225.088	197.417	170.187	144.184	119.081	95.413	73.273	52.426	38.503
105.0	236.739	210.072	183.714	158.326	133.940	110.403	88.566	67.883	49.079	32.487
107.5	221.223	196.053	171.138	147.590	124.581	102.864	82.801	63.367	46.553	31.311
110.0	206.822	183.009	159.884	137.595	116.009	95.991	76.963	59.797	44.254	30.331
112.5	193.313	170.807	149.183	128.143	108.296	89.864	72.034	56.342	41.992	29.709
115.0	180.325	159.192	138.909	119.199	100.763	83.205	67.386	52.843	39.912	28.924
117.5	167.647	147.965	128.796	110.458	93.248	77.188	62.606	49.168	37.827	27.825
120.0	155.294	136.743	118.498	101.693	85.676	71.077	57.613	45.755	35.390	26.441
122.5	143.093	125.731	108.747	92.760	78.045	64.757	52.506	41.996	32.562	24.924
125.0	131.199	114.905	99.200	84.124	70.356	58.203	47.448	37.973	29.867	23.138
127.5	119.482	104.115	89.793	75.861	63.209	51.546	42.341	33.892	27.157	21.136
130.0	107.589	93.654	80.624	68.218	56.781	46.374	37.325	30.349	24.243	19.021
132.5	96.096	83.695	71.878	61.181	51.053	42.078	33.689	26.585	21.092	16.743
135.0	85.155	74.441	64.011	54.738	45.994	38.009	30.737	24.165	18.471	14.285
137.5	75.192	65.956	57.108	48.780	41.397	33.990	27.839	22.031	17.085	12.571
140.0	66.389	58.148	50.536	43.159	36.633	30.520	24.968	20.069	15.545	11.713
142.5	58.089	50.801	44.302	38.087	32.243	27.134	22.242	18.035	14.149	10.823
145.0	50.320	44.201	38.535	33.294	28.309	23.864	19.828	16.177	12.867	9.899
147.5	43.127	38.103	33.189	28.828	24.775	20.841	17.521	14.395	11.504	8.979
150.0	36.586	32.574	28.632	24.769	21.498	18.333	15.459	12.651	10.115	7.924
152.5	31.072	27.639	24.482	21.388	18.415	15.755	13.176	10.768	8.877	7.084
155.0	25.620	23.127	20.573	17.998	15.476	13.123	11.179	9.308	7.667	6.208
157.5	20.491	18.458	16.386	14.595	12.808	10.951	9.198	7.811	6.448	5.157
160.0	15.989	14.474	12.939	11.385	10.027	8.757	7.481	6.199	5.111	4.095
162.5	12.246	11.101	9.992	8.870	7.738	6.659	5.706	4.751	3.794	2.895
165.0	9.266	8.311	7.464	6.628	5.798	4.961	4.118	3.414	2.818	2.227
167.5	6.698	6.017	5.324	4.622	4.076	3.550	3.024	2.498	1.973	1.505

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CANDELA TABULATION - (Cont.)

170.0	4.511	4.088	3.660	3.227	2.791	2.353	1.967	1.689	1.415	1.146
172.5	2.711	2.449	2.218	1.987	1.755	1.524	1.292	1.062	0.831	0.601
175.0	1.397	1.238	1.076	0.913	0.747	0.604	0.547	0.497	0.446	0.396
177.5	0.477	0.451	0.424	0.397	0.369	0.341	0.312	0.283	0.254	0.225
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	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200
2.5	784.807	783.521	782.236	780.954	779.676	778.407	777.780	775.892	774.654	773.433
5.0	785.249	782.648	780.053	777.467	774.897	772.351	769.809	767.299	764.825	762.391
7.5	784.454	780.517	776.595	772.695	768.827	764.984	761.172	757.414	753.716	750.084
10.0	782.355	777.071	771.817	766.603	761.481	756.300	751.230	746.239	741.337	736.532
12.5	778.895	772.263	765.682	759.165	752.696	746.289	739.833	733.783	727.707	721.839
15.0	774.025	766.058	758.166	750.572	742.599	734.953	727.439	720.611	713.014	706.025
17.5	764.955	755.626	746.242	737.454	728.624	720.008	712.815	703.684	695.989	688.577
20.0	753.264	742.497	732.629	721.621	711.545	702.317	692.346	683.261	674.499	666.305
22.5	739.947	727.757	715.872	704.293	693.010	682.116	671.577	662.688	651.898	642.760
25.0	724.935	711.373	698.255	685.464	673.030	660.982	649.380	638.431	627.923	617.942
27.5	708.181	693.413	679.086	665.109	651.505	639.738	625.953	614.017	602.648	591.839
30.0	689.726	673.845	658.352	643.153	628.436	614.232	601.084	588.250	576.005	564.418
32.5	668.887	652.246	635.703	619.607	604.066	589.140	574.787	561.054	548.028	535.710
35.0	644.761	626.865	609.514	592.976	577.158	561.897	547.019	532.491	518.702	505.529
37.5	618.724	599.797	581.681	564.468	547.899	531.943	516.627	501.940	487.822	474.098
40.0	590.952	571.205	552.612	534.721	517.539	501.007	485.122	469.842	455.182	441.598
42.5	561.521	541.499	522.271	503.897	486.174	469.113	452.691	436.904	422.243	408.281
45.0	531.015	511.061	490.919	472.042	453.841	436.306	419.418	403.668	388.655	374.467
47.5	499.190	478.485	458.507	439.213	420.603	402.652	385.822	369.788	354.653	340.493
50.0	466.453	445.442	425.118	405.480	386.520	368.633	351.607	335.565	320.574	306.412
52.5	439.455	413.906	390.815	370.911	352.013	334.023	317.125	301.323	287.340	273.038
55.0	413.162	387.296	361.955	337.255	316.931	299.240	282.660	266.992	252.881	239.986
57.5	386.015	360.097	334.780	310.023	286.275	264.484	248.114	233.289	219.796	207.474
60.0	358.409	332.567	307.262	282.986	259.513	236.773	215.352	200.097	187.581	176.371
62.5	330.442	304.715	280.000	256.024	234.119	210.904	190.154	171.587	156.152	146.143
65.0	302.255	277.152	252.764	229.280	206.772	185.663	165.544	147.444	130.547	117.719
67.5	274.273	249.577	225.652	203.069	181.500	162.168	142.673	125.613	109.604	95.562
70.0	246.300	222.228	199.397	177.533	157.397	138.233	121.049	104.933	90.385	77.480
72.5	218.662	195.690	173.629	152.580	134.002	116.744	100.470	85.549	72.228	60.358
75.0	191.800	169.649	148.476	129.862	112.588	96.381	80.973	67.246	55.044	44.891
77.5	169.588	144.285	125.689	108.471	92.327	76.576	62.466	49.941	39.549	31.675
80.0	149.042	125.693	104.289	88.294	72.265	57.815	44.986	34.400	26.608	20.554
82.5	130.611	108.750	88.334	67.884	53.210	40.114	29.380	21.680	15.959	12.021
85.0	113.251	92.709	72.443	53.236	35.234	24.421	16.832	11.450	8.048	7.350
87.5	96.814	76.859	57.955	40.162	24.432	12.008	6.979	4.147	4.423	4.113
90.0	80.973	62.466	44.986	29.380	16.832	6.979	0.275	1.526	2.050	2.026
92.5	66.706	49.612	34.178	21.583	11.423	4.142	1.526	0.001	0.673	0.875
95.0	53.965	38.871	26.196	15.802	8.005	4.411	2.050	0.677	0.003	0.267
97.5	43.025	30.602	20.057	11.861	7.267	4.090	2.026	0.882	0.276	0.004
100.0	34.729	24.118	15.457	10.048	6.100	3.366	1.761	0.821	0.293	0.055
102.5	27.903	18.938	12.689	8.038	4.679	2.628	1.366	0.585	0.163	0.034
105.0	22.124	15.103	9.850	5.935	3.462	1.911	0.877	0.277	0.069	0.000
107.5	18.102	11.466	7.097	4.230	2.410	1.161	0.390	0.106	0.000	0.000
110.0	18.745	8.955	4.891	2.871	1.424	0.493	0.142	0.000	0.000	0.000
112.5	19.241	10.601	4.131	1.653	0.573	0.174	0.000	0.000	0.000	0.000
115.0	19.486	12.108	6.175	1.588	0.197	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

117.5	19.597	12.928	7.580	3.915	1.038	0.000	0.000	0.000	0.000	0.000
120.0	19.225	13.187	8.714	5.273	2.754	0.999	0.000	0.000	0.000	0.000
122.5	18.435	13.320	9.292	6.175	3.798	2.067	0.862	0.104	0.000	0.000
125.0	17.475	12.998	9.284	6.461	4.252	2.581	1.415	0.648	0.175	0.000
127.5	16.281	12.173	8.908	6.308	4.221	2.696	1.559	0.816	0.344	0.086
130.0	14.692	11.055	8.169	5.799	3.900	2.460	1.455	0.747	0.262	0.087
132.5	12.905	9.763	7.082	4.973	3.297	2.061	1.146	0.450	0.179	0.032
135.0	11.011	8.191	5.857	4.028	2.596	1.513	0.624	0.279	0.053	0.013
137.5	8.997	6.486	4.610	3.016	1.826	0.796	0.372	0.075	0.024	0.000
140.0	8.281	5.406	3.351	2.023	0.919	0.448	0.095	0.034	0.000	0.000
142.5	7.873	5.297	3.148	1.372	0.489	0.112	0.043	0.000	0.000	0.000
145.0	7.348	5.064	3.255	1.951	0.977	0.430	0.069	0.000	0.000	0.000
147.5	6.593	4.883	3.397	2.299	1.519	0.922	0.520	0.245	0.097	0.021
150.0	6.184	4.568	3.445	2.479	1.710	1.117	0.650	0.362	0.135	0.061
152.5	5.546	4.347	3.244	2.380	1.644	1.030	0.630	0.275	0.140	0.038
155.0	4.940	3.790	2.875	2.022	1.352	0.866	0.416	0.226	0.087	0.000
157.5	4.107	3.139	2.217	1.578	1.034	0.516	0.306	0.141	0.000	0.000
160.0	3.112	2.269	1.672	1.095	0.568	0.369	0.187	0.010	0.000	0.000
162.5	2.254	1.623	1.011	0.595	0.401	0.211	0.024	0.000	0.000	0.000
165.0	1.641	1.102	0.816	0.561	0.319	0.088	0.049	0.029	0.013	0.000
167.5	1.217	0.938	0.667	0.404	0.191	0.144	0.100	0.059	0.020	0.000
170.0	0.880	0.618	0.360	0.279	0.220	0.163	0.108	0.054	0.000	0.000
172.5	0.440	0.380	0.319	0.259	0.201	0.143	0.086	0.029	0.000	0.000
175.0	0.346	0.297	0.247	0.197	0.148	0.099	0.049	0.000	0.000	0.000
177.5	0.196	0.166	0.136	0.106	0.076	0.045	0.015	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	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200
2.5	772.233	771.054	769.900	768.772	767.673	766.604	765.568	764.566	763.600	762.672
5.0	760.001	757.660	755.372	753.141	750.971	748.866	746.829	744.864	742.979	741.173
7.5	746.525	743.046	739.652	736.364	733.183	730.101	727.124	724.256	721.501	718.865
10.0	732.348	727.308	722.896	718.607	714.384	710.428	706.549	702.852	699.322	695.944
12.5	716.128	710.561	705.146	699.891	694.877	689.966	685.403	680.931	676.643	673.096
15.0	699.372	692.814	686.586	680.556	674.719	669.081	663.703	658.603	653.715	649.044
17.5	681.589	674.466	667.390	660.530	654.028	647.782	641.765	635.984	630.508	625.298
20.0	658.476	650.933	644.046	637.531	631.420	625.747	619.536	613.240	607.198	601.201
22.5	634.068	625.933	618.246	611.039	604.430	598.302	592.662	587.038	581.808	575.746
25.0	608.505	599.567	591.258	583.508	576.296	569.151	562.471	556.322	550.843	545.935
27.5	581.609	572.054	563.083	554.412	546.124	538.407	531.459	525.121	519.357	514.142
30.0	553.513	544.554	533.166	523.734	515.085	507.164	499.858	493.142	487.047	481.748
32.5	523.951	512.672	502.085	492.448	483.458	475.105	467.406	460.366	453.906	448.060
35.0	492.973	481.300	470.507	460.394	450.958	442.222	434.224	426.870	419.883	414.470
37.5	461.288	449.304	438.028	427.473	417.751	408.802	400.616	393.419	386.810	381.159
40.0	428.725	416.404	404.693	394.061	384.130	375.386	367.358	360.281	354.015	348.411
42.5	395.070	382.597	371.132	360.442	350.981	342.252	334.706	327.702	321.915	316.633
45.0	361.149	348.762	337.526	327.307	318.250	309.968	302.707	296.261	290.550	285.598
47.5	327.203	315.310	304.225	294.727	286.823	278.517	272.448	265.449	259.876	255.420
50.0	293.828	282.127	271.905	262.684	254.635	247.480	241.097	235.472	230.237	226.328
52.5	260.742	249.785	240.170	231.474	224.050	217.564	211.654	206.530	202.424	199.009
55.0	228.326	218.314	208.757	201.366	194.418	188.538	183.531	179.206	175.535	172.116
57.5	197.068	187.590	179.375	172.420	166.214	161.368	156.868	153.270	149.887	147.063
60.0	166.613	158.016	151.092	144.863	139.968	135.652	131.929	128.864	125.958	123.396
62.5	137.220	130.358	124.261	119.255	115.201	111.750	108.815	106.169	103.826	101.483

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CANDELA TABULATION - (Cont.)

65.0	110.136	104.196	99.145	95.419	92.107	89.625	87.529	85.408	83.713	81.344
67.5	84.581	80.208	76.209	73.405	71.179	69.782	68.260	67.076	65.723	64.144
70.0	65.943	57.477	55.243	53.942	52.783	52.088	51.410	50.906	49.928	49.098
72.5	50.486	42.457	36.454	36.394	36.610	36.641	37.014	37.044	36.825	36.434
75.0	36.810	30.239	24.964	21.680	22.714	23.874	25.013	25.621	26.166	26.098
77.5	25.291	20.408	16.860	13.290	11.327	13.657	15.395	16.765	17.675	18.098
80.0	16.119	13.493	10.739	7.929	5.970	5.731	7.942	9.931	11.169	12.081
82.5	10.351	8.406	6.295	4.736	3.303	2.015	2.709	4.913	6.522	7.717
85.0	6.217	4.808	3.656	2.586	1.579	0.773	0.285	1.507	3.388	4.552
87.5	3.396	2.677	1.950	1.207	0.554	0.202	0.000	0.000	1.215	2.328
90.0	1.761	1.366	0.877	0.388	0.142	0.000	0.000	0.000	0.000	0.862
92.5	0.811	0.574	0.261	0.097	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.284	0.152	0.061	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.049	0.030	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	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.013	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.005	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	0.006	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	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200
2.5	761.784	760.937	760.132	759.371	758.535	757.987	757.366	756.794	756.271	755.798
5.0	739.447	737.804	736.246	734.647	733.398	732.111	730.919	729.822	728.824	727.924
7.5	716.350	713.960	712.616	709.592	707.610	705.763	704.053	702.483	701.054	699.768
10.0	692.724	689.666	686.773	684.049	681.499	679.160	677.007	675.032	673.236	671.624

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CANDELA TABULATION - (Cont.)

12.5	668.732	665.104	661.674	658.446	655.425	652.613	650.395	647.640	645.479	643.535
15.0	644.596	640.390	636.442	632.722	629.235	625.984	622.974	620.208	617.577	615.203
17.5	620.329	615.607	611.137	606.669	602.481	598.594	595.011	591.736	588.771	586.154
20.0	595.346	589.732	584.441	579.479	574.919	570.696	566.804	563.247	560.027	558.110
22.5	569.289	563.283	557.620	552.305	547.345	542.681	538.370	534.420	530.835	527.620
25.0	541.555	536.734	530.575	524.782	519.362	514.268	509.388	504.905	500.824	497.152
27.5	509.057	505.441	501.842	496.666	490.605	484.953	479.730	474.944	470.595	466.690
30.0	476.547	472.100	468.240	464.985	461.587	455.588	450.404	445.128	440.662	436.658
32.5	442.882	438.395	434.472	430.684	428.598	426.549	420.878	415.797	411.263	407.141
35.0	409.238	404.829	401.079	397.875	395.436	393.633	392.354	388.052	382.503	378.326
37.5	376.167	371.782	368.327	365.393	363.035	361.435	360.352	359.189	354.357	349.999
40.0	343.792	339.689	336.329	333.621	331.429	329.912	328.439	328.436	326.642	322.110
42.5	312.155	308.320	305.043	302.562	300.533	299.051	298.168	297.704	298.008	294.640
45.0	281.230	277.745	274.688	272.352	270.512	269.057	268.164	267.646	267.513	267.480
47.5	251.380	248.166	245.443	243.154	241.398	239.954	239.041	238.586	238.471	238.812
50.0	222.819	219.736	217.221	214.960	213.364	212.056	211.099	210.629	210.464	210.639
52.5	195.391	192.445	190.187	188.164	186.538	184.891	184.242	183.620	183.210	183.042
55.0	169.200	166.621	164.390	162.486	160.822	159.556	158.401	157.382	156.885	156.377
57.5	144.300	141.936	139.747	138.046	136.360	135.048	133.771	132.687	131.893	131.150
60.0	120.624	118.608	116.625	115.016	113.388	112.007	110.748	109.488	108.822	108.132
62.5	99.172	96.846	95.147	93.603	92.191	90.811	89.829	88.688	88.221	87.788
65.0	79.750	77.404	75.524	74.104	73.129	71.866	71.416	70.715	70.375	70.240
67.5	62.560	60.484	58.494	56.933	56.520	55.891	55.684	55.452	55.183	55.139
70.0	47.760	46.215	44.480	42.622	42.500	42.512	42.438	42.411	42.140	42.247
72.5	35.472	34.520	33.119	31.936	30.886	31.204	31.210	31.464	31.346	31.497
75.0	25.716	25.223	24.247	23.345	21.835	21.864	22.091	22.476	22.558	22.710
77.5	18.262	17.997	17.419	16.551	15.438	14.329	14.798	15.189	15.451	15.660
80.0	12.540	12.434	12.096	11.338	10.460	9.321	8.911	9.387	9.901	10.157
82.5	8.241	8.318	8.047	7.387	6.624	5.552	4.684	5.019	5.550	5.739
85.0	5.112	5.273	5.015	4.482	3.833	3.052	2.256	1.702	2.492	2.988
87.5	2.911	3.061	2.832	2.490	1.931	1.279	0.714	0.326	0.797	1.408
90.0	1.415	1.559	1.455	1.146	0.624	0.372	0.095	0.043	0.069	0.520
92.5	0.502	0.659	0.581	0.346	0.157	0.050	0.004	0.000	0.000	0.109
95.0	0.037	0.181	0.151	0.043	0.022	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.015	0.014	0.007	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	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200
2.5	755.377	755.008	754.691	754.427	754.216	754.059	753.955	753.906	753.910	753.968
5.0	727.125	726.427	725.832	725.340	724.951	724.667	724.486	724.410	724.439	724.571
7.5	698.628	697.634	696.788	696.091	695.544	695.146	694.808	694.804	694.858	695.063
10.0	670.195	668.953	667.899	667.034	666.359	665.874	665.581	665.480	665.570	665.851
12.5	641.796	640.307	639.027	637.973	637.147	636.549	636.181	636.044	636.138	636.463
15.0	613.106	611.286	609.744	608.482	607.500	606.799	606.378	606.236	606.373	606.787
17.5	583.724	581.848	580.161	578.787	577.727	576.981	576.550	576.433	576.629	577.138
20.0	554.528	552.267	550.352	548.785	547.519	546.705	546.194	546.036	546.233	546.784
22.5	524.676	522.051	519.815	517.972	516.524	515.473	514.821	514.569	514.719	515.272
25.0	494.377	491.082	488.694	486.733	485.202	484.103	483.436	483.203	483.404	484.040
27.5	463.234	460.305	457.863	455.871	454.331	453.246	452.617	452.444	452.729	453.471
30.0	433.123	430.088	427.590	425.546	423.963	422.845	422.197	422.021	422.321	423.099
32.5	403.561	400.409	397.821	395.700	394.045	392.864	392.164	391.949	392.226	392.999
35.0	374.603	371.342	368.588	366.329	364.549	363.258	362.462	362.171	362.391	363.128
37.5	346.098	342.665	339.738	337.347	335.450	334.056	333.174	332.813	332.980	333.684
40.0	318.043	314.348	311.867	308.780	306.705	305.144	304.109	303.610	303.658	304.264
42.5	290.356	286.547	283.227	280.518	278.320	276.629	275.461	274.832	274.754	275.243
45.0	263.257	259.328	255.729	252.966	250.584	248.701	247.337	246.512	246.243	246.549
47.5	236.962	232.723	229.200	226.031	223.394	221.287	219.728	218.734	218.319	218.500
50.0	211.165	206.811	202.873	199.459	196.625	194.338	192.614	191.470	190.923	190.986
52.5	183.238	181.105	176.950	173.721	170.460	168.152	166.423	165.234	164.751	164.831
55.0	156.246	156.057	151.875	148.241	145.524	143.376	141.773	140.729	140.260	140.378
57.5	130.778	130.851	128.398	124.987	122.456	120.481	119.051	118.081	117.630	117.718
60.0	107.652	107.818	107.093	103.985	101.640	99.941	98.655	97.806	97.418	97.514
62.5	87.398	87.607	87.913	85.507	83.335	81.810	80.662	79.915	79.589	79.706
65.0	69.966	70.116	70.346	69.153	67.156	65.855	64.896	64.298	64.081	64.264
67.5	54.912	54.942	55.132	54.837	53.438	52.048	51.307	50.811	50.720	50.962
70.0	42.115	42.061	42.272	42.415	41.127	40.372	39.828	39.510	39.445	39.658
72.5	31.491	31.414	31.710	31.935	31.381	30.712	30.258	29.981	29.907	30.063
75.0	22.859	22.867	23.181	23.418	23.305	22.635	22.206	21.960	21.914	22.085
77.5	15.968	16.056	16.215	16.284	16.251	15.741	15.476	15.333	15.334	15.499
80.0	10.407	10.409	10.521	10.624	10.562	10.293	10.137	10.067	10.101	10.260
82.5	6.180	6.351	6.389	6.468	6.320	6.069	5.948	5.887	5.885	6.020
85.0	3.408	3.617	3.574	3.445	3.124	2.720	2.738	2.751	2.782	2.854
87.5	1.704	1.759	1.568	1.380	1.078	0.670	0.768	0.841	0.836	0.795
90.0	0.650	0.630	0.416	0.306	0.187	0.024	0.049	0.098	0.108	0.086
92.5	0.134	0.123	0.044	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.010	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	0.039	0.034
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.051	0.088	0.133	0.138
135.0	0.000	0.000	0.000	0.000	0.000	0.006	0.080	0.123	0.138	0.138
137.5	0.000	0.000	0.000	0.000	0.000	0.002	0.016	0.063	0.132	0.102
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.019	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	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200
2.5	754.079	754.244	754.462	754.244	754.079	753.968	753.910	753.906	753.955	754.059
5.0	724.807	725.146	725.587	725.146	724.807	724.571	724.439	724.410	724.486	724.667
7.5	695.418	695.922	696.575	695.922	695.418	695.063	694.858	694.804	694.900	695.146
10.0	666.323	666.986	667.837	666.986	666.323	665.851	665.570	665.480	665.581	665.874
12.5	637.020	637.807	638.825	637.807	637.020	636.463	636.242	636.044	636.181	636.549
15.0	607.477	608.440	609.675	608.440	607.477	606.787	606.373	606.236	606.378	606.799
17.5	577.958	579.088	580.525	579.088	577.958	577.211	576.629	576.433	576.654	576.981
20.0	547.687	548.943	550.550	548.943	547.687	546.784	546.233	546.036	546.194	546.705
22.5	516.226	517.581	519.337	517.581	516.226	515.272	514.719	514.569	514.821	515.473
25.0	485.108	486.608	488.538	486.608	485.108	484.040	483.404	483.203	483.436	484.103
27.5	454.514	456.321	458.425	456.321	454.669	453.471	452.729	452.444	452.617	453.246
30.0	424.357	426.094	428.313	426.094	424.521	423.099	422.321	422.021	422.197	422.845
32.5	394.274	396.052	398.337	396.052	394.274	392.999	392.226	391.949	392.164	392.864
35.0	364.389	366.178	368.500	366.178	364.389	363.128	362.390	362.171	362.462	363.258
37.5	334.931	336.726	339.075	336.726	334.931	333.684	332.980	332.813	333.174	334.056
40.0	305.436	307.183	309.512	307.183	305.436	304.264	303.658	303.610	304.109	305.144
42.5	276.310	277.967	280.225	277.967	276.310	275.342	274.754	274.832	275.599	276.629
45.0	247.445	248.949	251.075	248.949	247.445	246.549	246.243	246.512	247.337	248.701

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

47.5	219.290	220.703	222.750	220.703	219.290	218.500	218.319	218.734	219.728	221.287
50.0	191.674	193.001	194.975	193.001	191.674	190.986	190.923	191.470	192.614	194.338
52.5	165.536	166.873	168.850	166.873	165.536	164.831	164.751	165.285	166.423	168.152
55.0	141.097	142.426	144.375	142.426	141.097	140.378	140.260	140.729	141.773	143.376
57.5	118.365	119.590	121.412	119.590	118.365	117.718	117.630	118.081	119.051	120.516
60.0	98.116	99.246	100.925	99.246	98.116	97.514	97.418	97.806	98.655	99.941
62.5	80.286	81.349	82.912	81.349	80.286	79.706	79.589	79.915	80.662	81.810
65.0	64.863	65.831	67.375	65.895	64.863	64.264	64.081	64.298	64.896	65.855
67.5	51.559	52.531	53.900	52.531	51.563	50.974	50.749	50.867	51.307	52.048
70.0	40.174	41.017	42.212	41.066	40.174	39.658	39.445	39.510	39.828	40.372
72.5	30.476	31.171	32.175	31.171	30.476	30.063	29.907	29.981	30.258	30.712
75.0	22.489	23.144	24.063	23.144	22.489	22.085	21.914	21.960	22.206	22.635
77.5	15.850	16.406	17.188	16.406	15.850	15.499	15.334	15.333	15.476	15.741
80.0	10.565	11.034	11.688	11.034	10.565	10.260	10.101	10.067	10.137	10.293
82.5	6.253	6.623	7.150	6.623	6.253	6.020	5.905	5.887	5.948	6.069
85.0	2.994	3.225	3.575	3.225	2.994	2.854	2.782	2.751	2.738	2.720
87.5	0.755	0.752	0.825	0.752	0.755	0.795	0.836	0.841	0.776	0.670
90.0	0.049	0.015	0.000	0.015	0.049	0.086	0.108	0.100	0.049	0.024
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	0.034	0.039	0.000	0.003	0.000
132.5	0.074	0.000	0.000	0.000	0.074	0.138	0.133	0.088	0.051	0.000
135.0	0.138	0.098	0.000	0.098	0.138	0.138	0.138	0.123	0.080	0.006
137.5	0.045	0.000	0.000	0.000	0.045	0.102	0.132	0.063	0.016	0.002
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.019	0.005	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

IES INDOOR REPORT
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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	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200
2.5	754.216	754.427	754.691	755.008	755.377	755.798	756.271	756.794	757.366	757.987
5.0	724.951	725.354	725.832	726.427	727.125	727.924	728.824	729.822	730.919	732.111
7.5	695.544	696.091	696.788	697.634	698.628	699.768	701.054	702.483	704.053	705.763
10.0	666.359	667.034	667.899	668.953	670.195	671.624	673.236	675.183	677.007	679.160
12.5	637.273	637.973	639.027	640.307	641.810	643.535	645.479	647.640	650.395	652.613
15.0	607.500	608.482	609.744	611.286	613.106	615.203	617.577	620.208	622.974	625.984
17.5	577.727	578.839	580.161	581.848	583.846	586.154	588.771	591.736	595.011	598.594
20.0	547.569	548.785	550.352	552.267	554.528	558.110	560.027	563.247	566.804	570.696
22.5	516.524	517.972	519.815	522.051	524.676	527.620	530.835	534.466	538.370	542.681
25.0	485.202	486.738	488.694	491.082	494.377	497.152	500.824	504.905	509.388	514.268
27.5	454.331	455.871	457.863	460.305	463.234	466.690	470.595	475.129	479.730	484.953
30.0	423.963	425.546	427.590	430.088	433.123	436.658	440.662	445.128	450.411	455.588
32.5	394.045	395.700	397.821	400.409	403.561	407.182	411.263	415.832	420.878	426.555
35.0	364.549	366.329	368.588	371.342	374.603	378.326	382.503	388.052	392.375	393.633
37.5	335.450	337.347	339.738	342.665	346.098	349.999	354.357	359.189	360.352	361.916
40.0	306.705	308.780	311.867	314.453	318.043	322.110	326.642	328.436	328.932	329.912
42.5	278.320	280.570	283.227	286.547	290.356	294.640	298.008	297.704	298.167	299.504
45.0	250.584	252.966	255.870	259.328	263.257	267.638	267.513	267.646	268.164	269.057
47.5	223.394	226.031	229.200	232.858	236.962	238.812	238.712	238.586	239.041	240.046
50.0	196.625	199.459	202.873	206.811	211.267	210.639	210.464	210.629	211.099	212.056
52.5	170.460	173.721	176.950	181.105	183.238	183.041	183.210	183.620	184.242	185.272
55.0	145.524	148.241	151.875	156.057	156.246	156.377	156.885	157.544	158.401	159.556
57.5	122.456	124.987	128.398	130.851	130.778	131.150	131.893	132.687	133.771	135.048
60.0	101.640	103.985	107.093	107.818	107.652	108.132	108.822	109.488	110.748	112.007
62.5	83.335	85.507	87.913	87.607	87.398	87.788	88.221	88.688	89.829	90.811
65.0	67.156	69.153	70.346	70.116	69.966	70.240	70.375	70.715	71.416	71.866
67.5	53.438	54.837	55.132	54.942	54.912	55.139	55.183	55.452	55.684	55.891
70.0	41.127	42.415	42.272	42.160	42.115	42.247	42.140	42.411	42.438	42.512
72.5	31.381	31.935	31.710	31.414	31.491	31.497	31.346	31.464	31.309	31.204
75.0	23.305	23.418	23.181	22.867	22.859	22.710	22.558	22.476	22.091	21.864
77.5	16.251	16.284	16.215	16.056	15.968	15.660	15.451	15.189	14.798	14.329
80.0	10.563	10.624	10.521	10.409	10.407	10.157	9.901	9.387	8.911	9.321
82.5	6.320	6.468	6.417	6.351	6.180	5.739	5.550	5.019	4.684	5.552
85.0	3.124	3.445	3.574	3.617	3.408	2.988	2.492	1.702	2.256	3.052
87.5	1.078	1.380	1.568	1.769	1.704	1.408	0.797	0.326	0.714	1.279
90.0	0.187	0.306	0.416	0.630	0.650	0.520	0.069	0.043	0.095	0.372
92.5	0.000	0.000	0.044	0.123	0.134	0.109	0.000	0.000	0.004	0.050
95.0	0.000	0.000	0.000	0.000	0.010	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	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200
2.5	758.656	759.423	760.132	760.937	761.784	762.672	763.600	764.566	765.568	766.604
5.0	733.398	734.777	736.246	737.804	739.447	741.173	742.979	744.864	746.829	748.866
7.5	707.610	709.592	712.631	713.960	716.350	718.865	721.501	724.256	727.124	730.101
10.0	681.499	684.049	686.773	689.666	692.724	695.944	699.322	702.852	706.549	710.428
12.5	655.425	658.446	661.674	665.104	668.732	673.096	676.643	680.931	685.403	690.053
15.0	629.235	632.722	636.442	640.390	644.702	649.044	653.715	658.603	663.703	669.081
17.5	602.481	606.669	611.137	615.607	620.329	625.298	630.508	635.984	641.765	647.782
20.0	574.919	579.479	584.442	589.732	595.346	601.278	607.198	613.240	619.536	625.747
22.5	547.345	552.305	557.620	563.283	569.289	575.746	581.808	587.038	592.662	598.465
25.0	519.362	524.782	530.575	536.734	541.555	545.935	550.843	556.322	562.471	569.151
27.5	490.605	496.666	501.842	505.441	509.501	514.142	519.357	525.121	531.459	538.407
30.0	461.587	464.985	468.240	472.100	476.547	481.748	487.047	493.142	499.858	507.164
32.5	428.598	431.164	434.472	438.395	442.882	448.060	453.906	460.366	467.406	475.105
35.0	395.942	397.875	401.079	404.829	409.550	414.470	420.282	426.870	434.224	442.222
37.5	363.035	365.393	368.327	371.782	376.167	381.159	386.810	393.419	400.616	408.802
40.0	331.429	333.621	336.329	339.689	343.792	348.411	354.015	360.281	367.358	375.386
42.5	300.533	302.562	305.043	308.320	312.155	316.633	322.359	327.702	334.706	342.252
45.0	270.512	272.352	274.688	277.745	281.230	285.598	290.551	296.261	302.707	309.968
47.5	241.398	243.154	245.443	248.166	251.380	255.420	259.876	265.449	272.448	278.517
50.0	213.364	214.960	217.221	219.736	222.819	226.328	230.519	235.472	241.097	247.479
52.5	186.538	188.164	190.350	192.445	195.391	199.341	202.424	206.530	211.654	217.564
55.0	160.822	162.486	164.390	166.621	169.200	172.116	175.535	179.206	183.532	188.538
57.5	136.360	138.046	139.747	141.936	144.300	147.063	149.887	153.270	156.868	161.368
60.0	113.388	115.016	116.625	118.608	120.624	123.396	125.958	128.864	131.929	135.652
62.5	92.191	93.603	95.147	96.846	99.172	101.483	103.826	106.169	108.815	111.750
65.0	73.129	74.104	75.524	77.404	79.750	81.638	83.714	85.408	87.529	89.625
67.5	56.520	56.932	58.494	60.484	62.560	64.144	65.723	67.363	68.260	69.782
70.0	42.500	42.781	44.480	46.214	47.760	49.098	49.928	50.906	51.410	52.088
72.5	30.886	31.936	33.119	34.520	35.475	36.434	36.825	37.044	37.255	36.641
75.0	21.835	23.345	24.320	25.223	25.716	26.098	26.166	25.621	25.013	23.874
77.5	15.438	16.551	17.419	17.997	18.263	18.150	17.675	16.765	15.395	13.657

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CANDELA TABULATION - (Cont.)

80.0	10.460	11.338	12.096	12.452	12.540	12.081	11.169	9.931	8.046	5.731
82.5	6.628	7.387	8.047	8.318	8.241	7.717	6.522	4.913	2.709	2.015
85.0	3.833	4.482	5.015	5.273	5.112	4.552	3.388	1.507	0.285	0.773
87.5	1.931	2.490	2.832	3.061	2.911	2.328	1.215	0.000	0.000	0.202
90.0	0.624	1.146	1.455	1.559	1.415	0.862	0.000	0.000	0.000	0.000
92.5	0.157	0.346	0.581	0.659	0.502	0.000	0.000	0.000	0.000	0.000
95.0	0.022	0.043	0.151	0.188	0.037	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.007	0.014	0.015	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	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200
2.5	767.673	768.772	769.900	771.054	772.233	773.433	774.654	775.892	777.780	778.407
5.0	750.971	753.141	755.372	757.660	760.001	762.391	764.825	767.299	769.809	772.351
7.5	733.183	736.364	739.652	743.083	746.525	750.084	753.716	757.414	761.172	764.983
10.0	714.449	718.607	722.896	727.308	732.348	736.532	741.337	746.239	751.230	756.300
12.5	694.877	699.891	705.146	710.561	716.128	721.839	727.707	733.783	739.981	746.369
15.0	674.719	680.556	686.586	692.814	699.372	706.108	713.014	720.611	727.439	734.953
17.5	654.028	660.530	667.390	674.466	681.589	688.577	695.989	703.684	712.815	720.008
20.0	631.421	637.531	644.046	651.012	658.476	666.305	674.499	683.261	692.346	702.579
22.5	604.430	611.039	618.246	625.933	634.068	642.760	651.898	662.688	671.577	682.116
25.0	576.296	583.508	591.258	599.567	608.505	617.942	627.923	638.431	649.380	660.982

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

27.5	546.124	554.412	563.083	572.054	581.610	591.839	602.838	614.017	625.953	639.738
30.0	515.085	523.734	533.166	544.554	553.513	564.418	576.005	588.249	601.084	614.494
32.5	483.458	492.448	502.085	512.672	523.951	535.710	548.028	561.054	574.788	589.140
35.0	450.958	460.394	470.507	481.367	492.973	505.529	518.702	532.491	547.019	561.897
37.5	417.751	427.775	438.028	449.304	461.288	474.098	487.823	501.940	516.627	531.943
40.0	384.130	394.062	404.693	416.404	428.725	441.598	455.182	469.842	485.122	501.007
42.5	350.981	360.442	371.132	382.597	395.070	408.281	422.678	436.904	452.691	469.113
45.0	318.250	327.307	337.526	348.762	361.149	374.467	388.655	403.668	419.418	436.306
47.5	286.823	294.727	304.225	315.310	327.203	340.493	354.653	369.788	385.822	402.652
50.0	254.635	262.684	271.905	282.127	293.828	306.412	320.574	335.565	351.607	368.633
52.5	224.050	231.474	240.170	249.785	260.742	273.038	287.340	301.323	317.125	334.023
55.0	194.418	201.366	209.147	218.314	228.326	239.986	252.881	266.991	282.660	299.623
57.5	166.214	172.420	179.375	187.589	197.068	207.474	219.796	233.289	248.114	264.484
60.0	139.968	144.863	151.092	158.016	166.613	176.371	187.581	200.097	215.352	236.773
62.5	115.201	119.255	124.261	130.358	137.220	146.644	156.152	171.587	190.154	210.904
65.0	92.107	95.419	99.145	104.196	110.136	117.719	130.547	147.444	165.544	185.663
67.5	71.179	73.405	76.209	80.208	84.581	95.562	109.604	125.613	142.673	162.168
70.0	52.783	53.942	55.243	57.477	65.943	77.480	90.385	104.933	121.049	138.233
72.5	36.610	36.394	36.454	42.457	50.486	60.358	72.228	85.548	100.553	116.744
75.0	22.714	21.680	24.964	30.239	36.937	44.891	55.044	67.331	80.974	96.381
77.5	11.327	13.290	16.860	20.408	25.291	31.675	39.549	49.941	62.466	76.576
80.0	5.970	7.929	10.739	13.493	16.119	20.554	26.608	34.400	44.986	57.815
82.5	3.303	4.736	6.295	8.406	10.351	12.021	15.959	21.680	29.380	40.114
85.0	1.579	2.586	3.656	4.842	6.217	7.350	8.048	11.450	16.832	24.420
87.5	0.554	1.207	1.952	2.677	3.396	4.113	4.423	4.147	6.979	12.010
90.0	0.142	0.390	0.877	1.366	1.761	2.026	2.050	1.526	0.275	6.979
92.5	0.000	0.097	0.261	0.574	0.811	0.875	0.673	0.000	1.526	4.142
95.0	0.000	0.000	0.061	0.152	0.284	0.267	0.000	0.677	2.050	4.411
97.5	0.000	0.000	0.000	0.030	0.049	0.000	0.276	0.882	2.026	4.090
100.0	0.000	0.000	0.000	0.000	0.001	0.055	0.293	0.821	1.761	3.366
102.5	0.000	0.000	0.000	0.000	0.000	0.034	0.163	0.585	1.366	2.628
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.069	0.277	0.877	1.901
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.106	0.388	1.161
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.142	0.493
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.174
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	0.999
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.104	0.862	2.067
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.175	0.629	1.415	2.581
127.5	0.000	0.000	0.000	0.000	0.010	0.086	0.344	0.816	1.559	2.696
130.0	0.000	0.000	0.000	0.001	0.013	0.087	0.262	0.747	1.455	2.460
132.5	0.000	0.000	0.000	0.000	0.005	0.032	0.179	0.450	1.146	2.061
135.0	0.000	0.000	0.000	0.000	0.000	0.013	0.053	0.279	0.624	1.513
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.024	0.075	0.372	0.796
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.034	0.095	0.448
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.043	0.112
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.069	0.430
147.5	0.000	0.000	0.000	0.000	0.000	0.021	0.097	0.245	0.520	0.922
150.0	0.000	0.000	0.000	0.000	0.006	0.061	0.135	0.357	0.650	1.117
152.5	0.000	0.000	0.000	0.000	0.000	0.038	0.140	0.275	0.630	1.030
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.087	0.226	0.416	0.866
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.141	0.306	0.516
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.187	0.369
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.024	0.211
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.013	0.029	0.049	0.088

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CANDELA TABULATION - (Cont.)

167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.059	0.098	0.144
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.054	0.108	0.163
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.029	0.086	0.143
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.049	0.099
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.045
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>275.0</u>	<u>277.5</u>	<u>280.0</u>	<u>282.5</u>	<u>285.0</u>	<u>287.5</u>	<u>290.0</u>	<u>292.5</u>	<u>295.0</u>	<u>297.5</u>
0.0	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200
2.5	779.676	780.954	782.236	783.521	784.807	786.090	787.369	788.640	789.902	791.151
5.0	774.897	777.467	780.053	782.648	785.249	787.850	790.445	793.030	795.598	798.145
7.5	768.827	772.696	776.595	780.517	784.454	788.398	792.340	797.181	800.264	804.249
10.0	761.481	766.604	771.817	777.071	782.355	787.659	793.005	798.472	803.921	809.339
12.5	752.696	759.165	765.682	772.263	778.895	786.506	792.453	799.468	806.302	813.197
15.0	742.599	750.572	758.166	766.058	774.025	782.085	790.468	798.877	807.294	815.717
17.5	728.624	737.454	746.462	755.737	764.955	774.461	784.355	794.346	804.414	814.606
20.0	711.545	721.621	732.629	742.497	753.264	764.320	775.570	787.059	798.668	810.476
22.5	693.010	704.293	715.872	727.757	739.947	752.485	765.125	778.088	791.227	804.625
25.0	673.030	685.464	698.255	711.373	724.935	738.811	752.965	767.361	781.976	796.938
27.5	651.609	665.109	679.086	693.413	708.180	723.461	739.261	754.828	771.937	787.319
30.0	628.436	643.153	658.352	673.845	689.726	706.278	723.293	740.454	757.840	775.692
32.5	604.066	619.607	635.912	652.246	668.887	686.175	704.302	722.829	741.601	760.906
35.0	577.158	592.976	609.514	626.865	644.761	663.232	682.551	702.568	722.903	743.717
37.5	547.899	564.854	581.681	599.797	619.099	638.367	658.721	680.040	701.897	724.206
40.0	517.539	534.721	552.612	571.205	590.952	611.487	632.976	655.322	678.510	702.234
42.5	486.174	503.897	522.271	541.499	561.521	582.867	605.146	628.462	652.747	677.765
45.0	453.841	472.042	490.919	511.061	531.015	552.954	575.399	599.538	624.697	650.794
47.5	420.603	439.213	458.507	478.485	499.190	521.017	544.140	569.247	598.226	627.762
50.0	386.520	405.480	425.118	445.442	466.453	490.661	517.406	545.488	574.458	604.415
52.5	352.013	370.911	390.815	413.907	439.455	465.549	492.517	520.332	549.454	579.555
55.0	316.931	337.256	361.955	387.296	413.162	439.526	466.477	494.457	523.329	553.211
57.5	286.275	310.023	334.780	360.097	386.015	412.585	439.688	468.136	496.250	526.001
60.0	259.513	282.986	307.262	332.567	358.409	384.795	411.977	439.733	468.164	497.653
62.5	234.119	256.024	280.000	304.818	330.441	356.705	383.517	411.131	439.435	468.470
65.0	206.856	229.280	252.764	277.152	302.255	328.220	354.788	381.921	409.828	438.555
67.5	181.500	203.069	225.652	249.577	274.273	299.640	325.715	352.464	380.752	414.740
70.0	157.397	177.533	199.397	222.228	246.300	271.190	296.685	324.908	356.368	388.256
72.5	134.002	152.590	173.629	195.691	218.662	242.769	270.782	301.001	331.746	363.155
75.0	112.588	129.862	148.476	169.649	191.800	218.501	247.321	276.989	307.189	337.824
77.5	92.327	108.471	125.689	144.285	169.588	196.485	224.246	253.006	282.577	312.559
80.0	72.265	88.294	104.289	125.693	149.042	174.894	201.755	229.419	258.002	287.294
82.5	53.210	67.942	88.334	108.750	130.611	154.025	179.747	206.432	233.851	262.138
85.0	35.253	53.236	72.443	92.709	113.251	135.170	158.507	184.001	210.358	237.378
87.5	24.432	40.162	57.955	76.859	96.814	117.393	139.236	162.348	187.515	213.381
90.0	16.832	29.380	44.986	62.466	80.973	100.470	121.049	142.673	165.544	190.154
92.5	11.423	21.583	34.177	49.612	66.687	84.695	103.838	124.091	145.347	167.920
95.0	8.005	15.802	26.196	38.751	53.965	70.540	87.938	106.588	126.390	151.940
97.5	7.267	11.861	20.057	30.602	43.025	57.972	73.959	90.627	112.454	139.766
100.0	6.100	10.048	15.457	24.118	34.729	47.159	61.569	79.462	102.913	128.846
102.5	4.679	8.038	12.689	18.938	27.903	38.503	52.426	73.273	95.413	119.081
105.0	3.462	5.935	9.798	15.103	22.124	32.487	49.079	67.883	88.566	110.404
107.5	2.410	4.230	7.097	11.466	18.102	31.311	46.553	63.367	82.462	102.864
110.0	1.424	2.871	4.891	8.955	18.745	30.331	44.254	59.797	76.963	95.991
112.5	0.573	1.653	4.131	10.601	19.241	29.709	41.992	56.342	72.034	89.531

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CANDELA TABULATION - (Cont.)

115.0	0.197	1.588	6.175	12.108	19.486	28.924	39.912	52.843	67.386	83.205
117.5	1.038	3.779	7.580	12.928	19.597	27.825	37.827	49.168	62.606	77.188
120.0	2.754	5.273	8.714	13.187	19.225	26.441	35.390	45.755	57.613	71.077
122.5	3.798	6.175	9.292	13.320	18.435	24.924	32.562	41.996	52.506	64.757
125.0	4.252	6.461	9.284	12.998	17.376	23.138	29.867	37.973	47.448	58.203
127.5	4.221	6.308	8.908	12.173	16.281	21.136	27.157	33.892	42.341	51.546
130.0	3.900	5.799	8.169	11.055	14.692	19.021	24.243	30.349	37.325	46.374
132.5	3.297	4.973	7.082	9.763	12.905	16.743	21.092	26.585	33.689	42.078
135.0	2.596	4.028	5.857	8.191	11.011	14.285	18.471	24.166	30.737	38.009
137.5	1.817	3.016	4.610	6.486	8.997	12.571	17.085	22.031	27.839	33.990
140.0	0.919	2.023	3.351	5.406	8.281	11.713	15.545	20.069	24.968	30.520
142.5	0.489	1.372	3.148	5.297	7.873	10.762	14.149	18.035	22.242	27.134
145.0	0.977	1.951	3.255	5.054	7.348	9.899	12.867	16.177	19.828	23.864
147.5	1.519	2.299	3.397	4.883	6.593	8.979	11.504	14.395	17.521	20.841
150.0	1.710	2.479	3.445	4.568	6.184	7.924	10.115	12.651	15.459	18.333
152.5	1.636	2.380	3.244	4.347	5.546	7.084	8.877	10.768	13.176	15.755
155.0	1.352	2.022	2.875	3.790	4.940	6.208	7.667	9.308	11.179	13.123
157.5	1.034	1.578	2.217	3.139	4.107	5.157	6.448	7.795	9.198	10.951
160.0	0.568	1.095	1.672	2.266	3.112	4.095	5.111	6.199	7.481	8.757
162.5	0.401	0.595	1.011	1.623	2.254	2.895	3.794	4.751	5.706	6.659
165.0	0.319	0.557	0.816	1.102	1.641	2.227	2.818	3.414	4.118	4.961
167.5	0.191	0.404	0.667	0.938	1.217	1.505	1.973	2.491	3.024	3.550
170.0	0.220	0.279	0.360	0.618	0.880	1.146	1.412	1.689	1.967	2.353
172.5	0.201	0.259	0.319	0.379	0.440	0.601	0.831	1.062	1.292	1.524
175.0	0.148	0.197	0.247	0.297	0.346	0.396	0.446	0.497	0.547	0.604
177.5	0.076	0.106	0.136	0.166	0.196	0.225	0.254	0.283	0.312	0.341
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	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200
2.5	792.385	793.602	794.798	795.973	797.123	798.245	799.454	800.400	801.428	802.420
5.0	800.665	803.158	805.656	808.109	810.511	812.857	815.141	817.359	819.506	821.576
7.5	808.195	812.094	815.937	819.714	823.416	827.035	830.572	834.104	837.629	840.830
10.0	814.715	820.034	825.306	830.602	835.806	840.903	845.882	850.728	855.430	859.962
12.5	820.067	826.984	833.830	840.589	847.242	853.756	859.935	865.951	871.787	877.425
15.0	824.182	832.601	840.953	849.182	857.127	864.932	872.572	880.024	887.133	893.993
17.5	824.844	835.083	845.233	855.218	865.098	874.840	883.870	892.555	901.042	909.720
20.0	822.342	834.229	846.048	857.812	869.434	880.500	891.411	902.959	912.236	922.034
22.5	818.120	831.714	845.356	858.970	871.965	884.785	897.394	909.420	921.204	932.556
25.0	812.044	827.421	842.922	858.163	872.864	888.431	901.556	915.405	928.781	941.557
27.5	803.997	821.149	838.521	855.385	871.890	888.161	904.053	919.702	934.699	950.619
30.0	793.880	812.713	831.934	850.506	868.807	886.786	904.582	921.939	938.958	955.239
32.5	780.752	801.192	822.161	842.672	862.983	882.893	902.720	921.824	940.782	958.577
35.0	765.211	787.224	809.861	832.334	854.596	876.466	898.310	919.092	939.599	959.090
37.5	747.184	770.748	794.923	819.292	843.409	867.268	892.208	913.539	935.651	956.731
40.0	726.598	751.665	777.274	804.803	829.221	855.087	880.600	904.958	928.752	951.257
42.5	703.436	730.046	756.886	784.278	811.910	840.797	868.622	895.505	921.498	945.568
45.0	678.275	707.849	737.810	767.907	798.127	828.069	857.359	886.003	913.023	938.658
47.5	657.673	688.112	718.951	750.137	781.336	812.362	843.104	872.910	901.260	928.533
50.0	635.012	666.091	699.059	729.596	761.698	793.884	825.477	856.351	886.406	914.887
52.5	610.415	641.961	674.035	706.546	739.396	772.209	804.782	836.924	867.790	897.665
55.0	584.258	615.938	648.228	681.146	714.381	747.832	781.447	814.889	847.250	878.343
57.5	556.590	588.275	620.623	653.541	687.370	722.699	757.449	791.510	824.126	855.448
60.0	528.080	559.272	591.291	626.454	661.865	697.062	731.746	765.647	798.650	830.391

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CANDELA TABULATION - (Cont.)

62.5	498.400	530.765	565.335	600.183	635.268	670.110	704.512	738.284	771.085	802.825
65.0	471.389	504.924	538.984	573.293	607.729	642.133	676.123	709.483	742.076	773.536
67.5	446.015	479.039	512.183	545.748	579.554	613.318	646.812	679.693	711.772	745.252
70.0	420.436	452.883	485.411	517.957	550.837	583.888	616.736	649.104	683.592	719.240
72.5	394.841	426.643	458.406	490.315	522.041	554.051	586.089	621.142	657.945	693.210
75.0	369.010	400.312	431.561	462.645	493.579	524.255	558.722	595.981	633.416	667.146
77.5	342.944	373.738	404.490	435.350	465.211	498.263	534.853	571.298	606.791	641.151
80.0	316.921	346.920	377.154	407.207	439.507	475.936	511.791	547.101	581.861	616.051
82.5	290.992	320.093	349.567	380.936	417.554	453.358	488.910	523.468	557.413	590.257
85.0	265.249	293.506	322.873	359.349	395.431	431.006	465.917	500.036	533.339	565.789
87.5	239.840	267.180	302.558	338.777	373.378	408.285	442.751	476.443	509.272	541.248
90.0	215.352	248.114	282.659	317.125	351.607	385.822	419.418	452.691	485.122	516.627
92.5	197.659	230.127	263.322	296.797	330.160	363.656	396.618	429.005	460.784	491.917
95.0	182.269	213.385	244.808	277.174	309.420	341.804	373.994	405.751	436.851	466.883
97.5	168.448	197.805	227.869	258.510	289.573	321.632	351.780	382.558	413.131	442.442
100.0	155.483	183.372	212.113	241.009	270.811	300.439	330.345	360.006	389.476	418.147
102.5	144.184	170.026	197.417	225.088	253.210	281.607	310.021	338.530	366.569	394.422
105.0	133.940	158.326	183.714	210.072	236.449	263.930	291.401	318.074	344.769	371.603
107.5	124.581	147.590	171.131	196.053	221.223	247.168	272.963	298.663	324.134	349.768
110.0	116.009	137.595	159.884	183.009	206.822	231.161	255.597	280.128	304.570	328.911
112.5	108.296	128.143	149.183	170.807	193.313	215.871	239.080	262.256	285.666	308.909
115.0	100.763	118.834	138.909	159.192	180.325	201.598	223.407	245.187	267.487	289.551
117.5	93.248	110.458	128.796	147.965	167.647	187.793	208.331	229.039	249.998	270.838
120.0	85.676	101.693	118.498	136.743	155.294	174.352	193.586	213.181	232.967	252.730
122.5	78.045	92.760	108.747	125.731	143.093	161.090	179.189	197.671	216.198	234.841
125.0	70.356	84.124	99.200	114.905	131.199	147.957	164.979	182.363	199.756	217.120
127.5	63.209	75.638	89.793	104.115	119.348	134.900	150.871	166.758	183.842	199.968
130.0	56.623	68.218	80.624	93.654	107.589	122.471	136.715	151.815	167.088	182.555
132.5	51.053	61.181	71.878	83.695	96.096	108.987	122.622	136.431	150.588	164.943
135.0	45.994	54.738	64.011	74.441	85.155	96.785	108.894	121.564	134.167	147.268
137.5	41.225	48.780	57.108	65.956	75.192	85.462	95.919	106.798	118.338	129.935
140.0	36.633	43.159	50.536	58.148	66.389	75.094	83.972	93.593	103.271	113.544
142.5	32.243	38.087	44.302	50.801	58.089	65.538	73.231	81.557	89.971	98.161
145.0	28.207	33.294	38.443	44.201	50.320	56.575	63.350	70.428	77.572	82.999
147.5	24.775	28.828	33.189	38.103	43.127	48.224	54.206	60.110	64.725	69.489
150.0	21.498	24.769	28.632	32.574	36.586	41.149	45.739	49.589	53.364	57.525
152.5	18.415	21.388	24.395	27.639	31.072	34.426	37.508	40.535	43.795	47.155
155.0	15.476	17.998	20.573	23.127	25.620	28.081	30.508	32.982	35.682	38.314
157.5	12.808	14.595	16.386	18.458	20.491	22.484	24.467	26.581	28.689	30.747
160.0	10.027	11.371	12.939	14.474	15.989	17.644	19.195	20.904	22.566	24.176
162.5	7.738	8.870	9.992	11.101	12.246	13.505	14.801	16.068	17.304	18.508
165.0	5.798	6.628	7.450	8.311	9.266	10.205	11.125	12.026	12.905	13.831
167.5	4.076	4.622	5.324	6.017	6.698	7.367	8.023	8.665	9.303	10.019
170.0	2.791	3.227	3.660	4.088	4.511	4.929	5.407	5.835	6.340	6.829
172.5	1.755	1.987	2.218	2.449	2.710	3.030	3.343	3.648	3.946	4.235
175.0	0.747	0.913	1.076	1.238	1.397	1.547	1.706	1.856	2.002	2.144
177.5	0.369	0.397	0.424	0.451	0.477	0.503	0.526	0.553	0.576	0.600
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	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200	783.200
2.5	803.373	804.287	805.159	805.987	806.770	807.506	808.193	808.830	810.439	810.661
5.0	823.564	825.468	827.281	829.001	830.622	832.143	833.559	834.867	836.064	837.149
7.5	844.006	847.047	849.946	852.695	855.286	857.713	859.971	862.053	863.954	865.670

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CANDELA TABULATION - (Cont.)

10.0	864.147	868.163	871.988	875.610	879.019	882.207	885.165	887.884	890.359	892.583
12.5	882.848	888.035	892.932	897.584	901.975	906.092	909.919	913.445	916.656	919.542
15.0	900.624	907.003	913.108	918.802	924.083	929.041	933.659	937.917	941.832	945.287
17.5	917.005	924.418	931.534	938.323	944.662	950.368	955.677	960.567	965.016	969.005
20.0	931.513	940.226	948.246	955.902	963.157	969.969	976.320	982.209	987.602	992.465
22.5	943.184	953.402	963.128	972.180	980.687	988.720	996.162	1002.844	1009.006	1014.599
25.0	953.948	965.588	976.696	987.854	996.661	1005.428	1013.664	1021.117	1027.557	1033.438
27.5	963.206	976.557	988.947	1000.367	1011.231	1020.368	1028.618	1036.050	1042.698	1049.121
30.0	970.866	985.507	999.119	1011.874	1023.086	1033.583	1042.306	1050.037	1056.778	1062.590
32.5	976.028	991.917	1007.301	1020.958	1033.806	1044.756	1055.450	1063.358	1070.944	1077.245
35.0	977.658	995.251	1011.592	1027.280	1041.161	1054.391	1065.520	1075.430	1083.594	1090.561
37.5	976.589	995.788	1013.363	1030.219	1045.761	1059.710	1073.474	1083.785	1094.388	1102.416
40.0	972.539	993.064	1012.167	1030.325	1047.860	1062.586	1076.303	1088.461	1098.811	1108.424
42.5	968.625	990.687	1010.982	1030.221	1048.402	1064.309	1078.440	1091.024	1101.159	1109.768
45.0	963.258	986.379	1007.872	1028.196	1047.129	1063.879	1079.074	1092.696	1103.793	1113.292
47.5	954.403	978.488	1001.370	1022.932	1042.100	1059.675	1075.562	1089.129	1100.217	1109.596
50.0	941.632	967.183	991.698	1012.501	1032.257	1050.538	1066.625	1080.393	1092.168	1102.053
52.5	925.954	952.094	976.146	998.527	1019.140	1037.466	1054.242	1070.557	1082.905	1094.899
55.0	906.919	933.775	958.909	981.442	1002.200	1021.445	1040.522	1057.213	1071.633	1083.549
57.5	885.354	912.825	938.152	961.698	984.162	1005.824	1025.670	1042.555	1057.319	1068.681
60.0	860.474	888.944	915.075	941.442	966.167	988.149	1008.028	1025.775	1040.360	1051.652
62.5	833.383	862.682	892.851	920.235	945.178	968.884	988.284	1006.533	1020.977	1033.298
65.0	805.436	838.299	868.619	896.766	922.045	945.299	966.227	984.311	999.699	1013.059
67.5	779.718	812.586	842.990	871.309	897.151	920.491	941.649	960.045	976.231	990.078
70.0	753.323	785.780	816.687	844.984	871.101	894.519	915.825	934.563	951.163	965.420
72.5	728.265	758.729	788.966	817.734	844.294	867.721	889.139	908.288	925.464	940.247
75.0	700.482	731.951	761.702	789.668	815.774	839.912	861.652	881.162	899.669	914.145
77.5	674.118	705.564	735.011	763.215	787.369	810.880	832.892	853.029	871.156	886.733
80.0	648.121	679.022	708.547	734.999	759.405	782.387	804.035	824.083	842.445	857.703
82.5	622.584	653.281	681.555	707.244	731.545	754.240	775.472	795.210	813.450	827.728
85.0	597.179	627.609	654.619	679.941	703.836	726.348	747.353	766.746	784.718	797.893
87.5	572.261	601.050	627.647	652.734	676.503	698.807	719.703	739.168	756.148	768.774
90.0	547.019	574.788	601.083	625.953	649.380	671.577	692.346	712.815	727.439	739.833
92.5	521.272	548.853	575.018	599.784	623.090	645.080	665.664	684.851	698.995	711.337
95.0	495.678	523.335	549.498	574.148	597.397	619.338	639.879	658.565	671.382	683.170
97.5	470.593	498.555	523.832	548.840	572.113	594.322	614.900	631.892	644.163	655.477
100.0	446.025	472.823	498.497	523.048	546.608	569.067	590.327	605.557	617.275	628.117
102.5	421.706	448.150	473.617	498.004	521.270	543.425	564.473	577.532	589.370	600.202
105.0	397.865	423.700	448.832	473.065	496.186	518.248	537.280	549.668	561.133	571.662
107.5	374.884	399.870	424.230	447.899	470.856	492.902	510.750	521.626	532.818	543.122
110.0	352.885	376.852	400.235	423.132	445.497	467.093	480.899	492.686	503.722	513.875
112.5	331.908	354.723	377.042	399.052	420.580	439.816	452.015	463.540	474.214	483.854
115.0	311.578	333.366	354.703	375.786	396.368	412.175	423.833	434.867	445.093	454.491
117.5	291.839	312.591	332.997	353.186	372.860	385.270	396.342	406.815	416.558	425.546
120.0	272.605	292.264	311.719	330.977	347.877	358.919	369.413	379.301	388.518	397.037
122.5	253.620	272.241	290.722	308.982	322.339	332.790	342.733	352.030	360.809	368.865
125.0	234.871	252.303	269.743	286.561	296.994	307.540	316.320	325.144	333.356	340.931
127.5	216.407	233.276	249.063	262.113	271.835	281.099	289.989	298.322	306.074	313.147
130.0	197.994	213.372	228.627	238.138	247.174	255.810	264.058	271.792	278.987	285.619
132.5	179.302	193.662	205.433	214.215	222.821	230.871	238.490	245.633	252.275	258.390
135.0	160.392	173.287	182.170	190.529	198.347	206.003	213.105	219.728	225.851	231.456
137.5	141.577	151.219	159.329	167.032	175.024	181.339	187.946	194.089	199.750	204.913
140.0	122.789	130.368	137.606	144.421	151.042	157.517	163.559	169.155	174.296	178.968
142.5	104.766	111.308	117.587	123.589	129.439	135.210	140.601	145.604	150.206	154.397
145.0	88.708	94.215	99.509	104.578	109.697	114.703	119.400	123.775	127.816	131.510
147.5	74.318	78.951	83.432	87.917	92.120	96.325	100.276	103.961	107.370	110.491

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CANDELA TABULATION - (Cont.)

150.0	61.539	65.400	69.102	72.741	76.470	79.990	83.294	86.373	89.219	91.822
152.5	50.405	53.540	56.552	59.666	62.740	65.642	68.363	70.898	73.241	75.384
155.0	40.872	43.349	45.773	48.386	50.869	53.217	55.425	57.486	59.397	61.150
157.5	32.748	34.690	36.721	38.765	40.715	42.565	44.311	45.948	47.470	48.871
160.0	25.733	27.279	28.925	30.504	32.011	33.442	34.780	36.060	37.238	38.324
162.5	19.709	20.986	22.222	23.451	24.594	25.674	26.688	27.635	28.512	29.316
165.0	14.744	15.709	16.636	17.523	18.368	19.169	19.924	20.631	21.287	21.892
167.5	10.711	11.379	12.019	12.636	13.221	13.777	14.301	14.792	15.249	15.669
170.0	7.302	7.757	8.195	8.613	9.011	9.389	9.744	10.077	10.386	10.670
172.5	4.515	4.786	5.046	5.296	5.534	5.761	5.974	6.175	6.351	6.533
175.0	2.282	2.416	2.545	2.668	2.786	2.898	3.004	3.103	3.195	3.279
177.5	0.622	0.643	0.664	0.684	0.703	0.720	0.737	0.752	0.793	0.798
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	783.200	783.200	783.200	783.200	783.200
2.5	810.886	811.113	811.341	811.570	811.800
5.0	839.093	839.519	839.949	840.380	840.813
7.5	867.196	869.439	870.068	870.702	871.337
10.0	894.551	896.260	898.240	899.019	899.800
12.5	922.094	924.302	926.886	927.847	928.813
15.0	948.371	951.038	954.235	955.304	956.450
17.5	972.519	975.545	978.072	980.350	981.612
20.0	996.768	1000.482	1003.583	1006.381	1007.875
22.5	1019.580	1023.908	1027.544	1030.841	1032.625
25.0	1038.709	1043.322	1047.236	1050.803	1052.838
27.5	1054.999	1060.254	1064.869	1069.034	1071.537
30.0	1069.290	1075.097	1079.960	1084.330	1086.800
32.5	1081.876	1088.143	1093.830	1099.209	1102.338
35.0	1095.488	1098.777	1105.018	1110.577	1114.987
37.5	1108.245	1111.217	1113.316	1120.023	1125.575
40.0	1115.991	1122.003	1123.742	1126.140	1133.963
42.5	1117.405	1124.420	1130.975	1132.016	1137.263
45.0	1121.406	1127.737	1132.025	1134.805	1136.025
47.5	1117.155	1122.522	1129.722	1132.855	1137.263
50.0	1111.639	1120.161	1124.398	1124.657	1133.963
52.5	1105.184	1111.353	1113.402	1118.305	1125.575
55.0	1093.496	1098.029	1100.831	1108.688	1114.987
57.5	1077.295	1083.206	1089.053	1096.501	1102.338
60.0	1060.361	1066.940	1074.816	1081.683	1086.800
62.5	1042.524	1050.045	1058.662	1065.883	1071.537
65.0	1023.273	1032.402	1040.807	1047.640	1052.838
67.5	1001.460	1011.660	1020.376	1028.320	1032.625
70.0	977.466	987.588	996.084	1003.773	1007.875
72.5	952.341	962.165	970.318	977.612	981.612
75.0	926.128	936.160	944.576	952.177	956.450
77.5	898.334	908.381	916.824	924.460	928.813
80.0	869.396	879.436	887.828	895.371	899.800
82.5	839.612	849.874	858.587	866.514	871.337
85.0	809.453	819.511	828.073	835.868	840.813
87.5	780.072	790.025	798.626	806.540	811.800
90.0	751.230	761.172	769.809	777.780	783.200
92.5	722.380	732.223	740.855	748.876	754.462
95.0	693.892	703.519	712.023	719.967	725.587

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CANDELA TABULATION - (Cont.)

97.5	665.631	675.096	683.339	691.060	696.575
100.0	638.043	647.012	654.989	662.476	667.837
102.5	610.011	618.784	626.512	633.716	638.825
105.0	581.235	589.834	597.446	604.565	609.675
107.5	552.512	560.965	568.462	575.484	580.525
110.0	523.117	531.426	538.778	545.657	550.550
112.5	492.843	500.891	507.991	514.616	519.337
115.0	463.045	470.738	477.557	483.771	488.538
117.5	433.757	441.169	447.762	453.951	458.425
120.0	404.833	411.881	418.157	424.054	428.313
122.5	376.231	382.883	388.798	394.352	398.337
125.0	347.847	354.082	359.615	364.803	368.500
127.5	319.737	325.601	330.792	335.652	339.075
130.0	291.664	297.097	301.898	306.387	309.512
132.5	263.954	268.943	273.332	277.429	280.225
135.0	236.523	241.035	244.975	248.634	251.075
137.5	209.564	213.686	217.267	220.581	222.750
140.0	183.163	186.870	191.113	193.043	194.975
142.5	158.167	161.506	165.325	167.087	168.850
145.0	134.846	137.811	141.209	142.792	144.375
147.5	113.314	115.827	118.706	120.058	121.412
150.0	94.175	96.269	98.664	99.794	100.925
152.5	77.322	79.050	80.957	81.966	82.912
155.0	62.741	64.163	65.782	66.578	67.375
157.5	50.147	51.293	52.597	53.248	53.900
160.0	39.312	40.199	41.210	41.711	42.212
162.5	30.046	30.698	31.440	31.807	32.175
165.0	22.442	22.937	23.497	23.780	24.063
167.5	16.053	16.589	16.788	16.988	17.188
170.0	10.928	11.291	11.423	11.555	11.688
172.5	6.689	6.909	6.989	7.070	7.150
175.0	3.430	3.466	3.502	3.538	3.575
177.5	0.803	0.809	0.814	0.820	0.825
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	286.09	N.A.	8.40
0-30	612.79	N.A.	18.00
0-40	1015.01	N.A.	29.80
0-60	1860.79	N.A.	54.60
0-80	2534.06	N.A.	74.30
0-90	2783.37	N.A.	81.70
10-90	2709.69	N.A.	79.50
20-40	728.92	N.A.	21.40
20-50	1159.94	N.A.	34.00
40-70	1212.3	N.A.	35.60
60-80	673.27	N.A.	19.80
70-80	306.74	N.A.	9.00
80-90	249.31	N.A.	7.30
90-110	355.56	N.A.	10.40
90-120	470.58	N.A.	13.80
90-130	548.56	N.A.	16.10
90-150	615.39	N.A.	18.10
90-180	624.99	N.A.	18.30
110-180	269.43	N.A.	7.90
0-180	3408.36	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	73.68
10-20	212.41
20-30	326.70
30-40	402.23
40-50	431.01
50-60	414.76
60-70	366.53
70-80	306.74
80-90	249.31
90-100	199.80
100-110	155.75
110-120	115.03
120-130	77.98
130-140	45.48
140-150	21.34
150-160	7.67
160-170	1.79
170-180	0.14

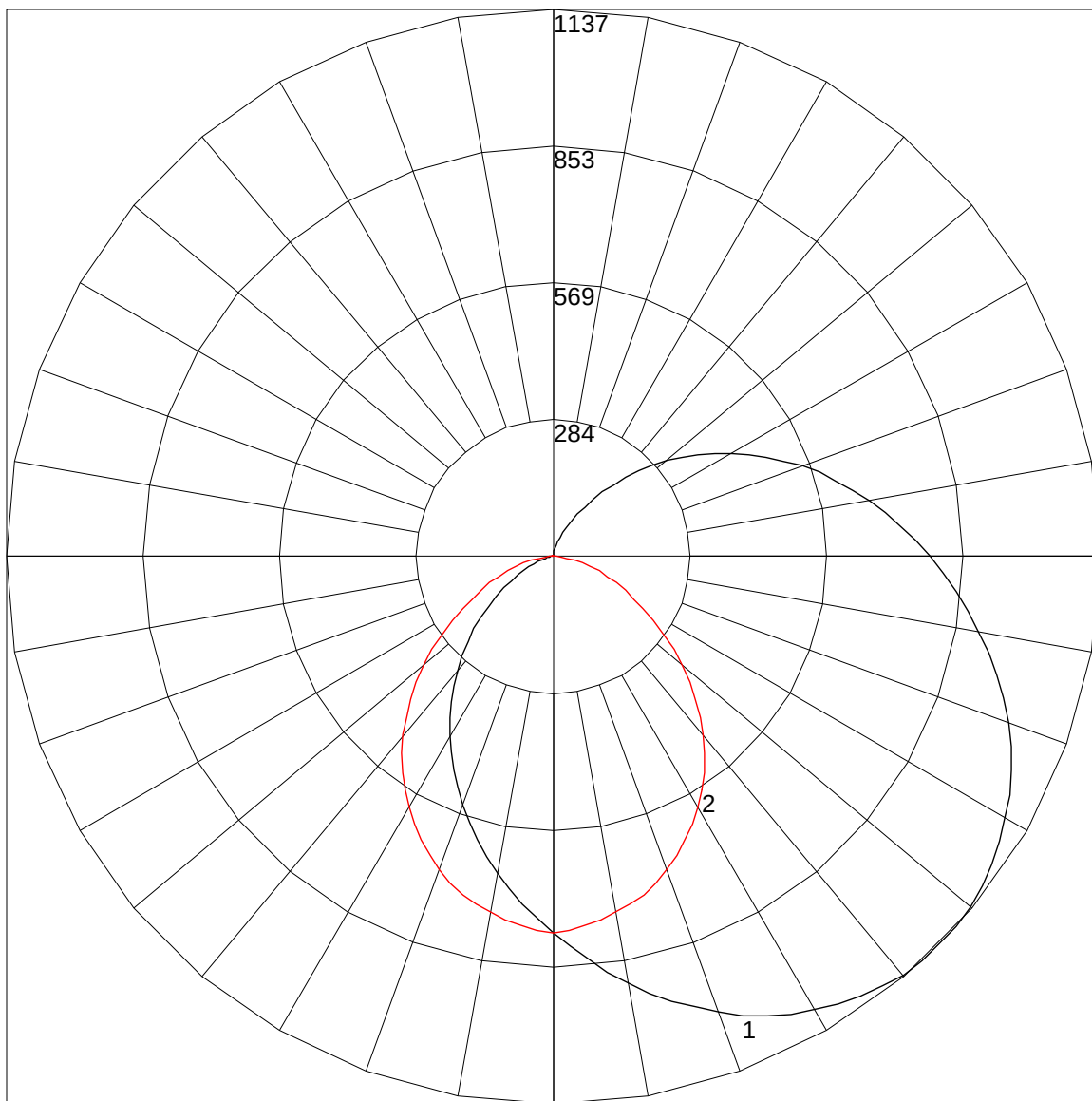
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	44	35	29	40	33	28	37	31	26	34	29	25	23
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 = 1137.263 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)