



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 769-48LED35DMV40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LLI-15121-1
 [TESTLAB] LightLab International (www.LightLabInt.com)
 [MANUFAC] Mobern Lighting Company, Jessup, MD 20794
 [LUMCAT] 769-48LED35DMV40
 [LUMINAIRE] Mobern Lighting - 1x4 ceiling mount luminaire. Catalog number: 769-48LED35DMV40
 [MORE] White painted fabricated steel housing with white interior and clear prismatic plastic wrap lens.
 [MORE] 128 LEDs with single row of 32 on each of four white PCBs. Marked "M10CC840D32N2S"
 [MORE] One Universal Everline driver. Model: D10CC55UNVTZ-C with dimming
 [OTHER] Absolute test - lamp lumens value set to -1
 [MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.
 [MORE] The sample was tested at a distance of 8m.
 [MORE] This IES file created by LightLab/LSA Report program version 3.807a.
 [DATE] This file was extrapolated from LLI-15121-1 Tuesday November 8, 2016
 [ISSUEDATE] Friday, May 15, 2015 7:11:02 AM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3799
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	32
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.22 m
Luminous Width (90-270)	0.24 m
Luminous Height	0.04 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4488	3937	3794
55	3549	2772	2393
65	2219	1851	1501
75	1533	1333	1264
85	1091	1213	1531

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CANDELA TABULATION - (Cont.)

27.0	1248.399	1284.819	1268.433	1259.960	1259.400	1284.159	1281.243	1267.715	1260.061	1263.995
27.5	1242.683	1276.978	1259.529	1251.860	1255.005	1278.256	1271.909	1259.314	1255.293	1259.917
28.0	1237.714	1269.237	1250.166	1243.315	1249.907	1271.248	1262.689	1251.027	1249.778	1256.786
28.5	1231.194	1261.267	1240.960	1234.742	1244.881	1263.435	1253.670	1243.574	1243.200	1251.214
29.0	1226.082	1252.894	1232.228	1226.197	1238.964	1254.172	1245.742	1236.407	1236.910	1244.450
29.5	1218.327	1245.627	1223.138	1218.513	1231.999	1245.441	1237.082	1229.844	1229.801	1236.120
30.0	1212.180	1238.174	1215.512	1210.615	1225.665	1234.943	1228.480	1223.468	1221.859	1227.618
30.5	1204.942	1230.965	1208.432	1203.937	1219.447	1225.593	1219.964	1216.417	1212.912	1219.131
31.0	1198.494	1224.301	1201.323	1198.221	1213.228	1216.345	1211.304	1208.058	1204.612	1210.988
31.5	1192.735	1216.488	1193.855	1191.787	1205.674	1206.464	1201.998	1199.599	1196.440	1203.448
32.0	1186.071	1209.279	1187.134	1184.793	1198.580	1197.417	1192.749	1190.408	1189.245	1197.574
32.5	1179.939	1200.504	1178.962	1178.388	1190.451	1187.091	1183.386	1181.921	1182.481	1190.178
33.0	1172.672	1193.051	1171.882	1170.819	1183.256	1177.153	1173.491	1173.304	1176.679	1183.644
33.5	1166.138	1183.931	1163.825	1163.395	1175.932	1166.956	1163.323	1165.664	1169.771	1176.909
34.0	1157.607	1174.309	1155.467	1155.726	1168.306	1156.630	1153.629	1158.038	1163.294	1170.848
34.5	1148.617	1164.831	1146.448	1147.281	1160.953	1147.152	1144.840	1149.938	1156.458	1164.242
35.0	1139.225	1155.381	1136.941	1138.262	1153.413	1137.099	1136.582	1141.910	1149.809	1156.602
35.5	1131.311	1145.026	1126.759	1128.267	1145.529	1127.276	1129.085	1132.805	1142.082	1147.769
36.0	1123.800	1134.557	1117.137	1119.521	1136.467	1116.476	1120.526	1124.949	1133.896	1138.348
36.5	1115.155	1124.375	1107.371	1110.861	1127.247	1106.912	1112.355	1116.462	1126.026	1127.075
37.0	1107.845	1115.442	1098.539	1101.555	1117.367	1097.117	1103.465	1107.271	1116.361	1113.575
37.5	1099.271	1106.395	1090.166	1093.053	1107.213	1087.739	1093.498	1098.525	1105.677	1099.386
38.0	1090.683	1096.643	1081.018	1084.379	1096.528	1078.361	1084.235	1088.730	1094.073	1085.829
38.5	1080.329	1085.528	1071.410	1075.417	1085.470	1068.854	1073.981	1079.726	1081.420	1070.764
39.0	1070.937	1074.340	1061.013	1066.384	1073.737	1059.620	1064.632	1069.500	1067.820	1057.365
39.5	1060.309	1063.698	1051.132	1056.073	1062.047	1049.840	1053.717	1059.548	1054.450	1045.345
40.0	1050.371	1052.037	1039.887	1045.977	1050.630	1039.141	1043.033	1049.064	1040.591	1032.348
40.5	1039.643	1040.749	1028.729	1035.321	1038.810	1028.571	1033.023	1038.379	1026.704	1019.782
41.0	1031.084	1030.050	1018.877	1025.268	1027.063	1017.512	1022.683	1027.063	1013.506	1006.986
41.5	1022.180	1018.891	1008.723	1013.865	1013.937	1006.325	1012.026	1014.252	999.977	994.247
42.0	1011.596	1008.752	998.556	1003.022	1001.571	995.095	1001.141	1000.408	985.918	980.748
42.5	1001.672	996.890	987.627	991.274	989.838	984.108	988.977	986.521	971.872	967.392
43.0	989.135	984.467	975.721	979.182	977.200	971.528	975.635	970.924	957.008	953.562
43.5	977.315	972.016	963.701	966.099	963.342	959.105	960.340	954.711	941.211	939.373
44.0	964.950	957.927	951.738	954.237	949.914	945.893	945.692	938.324	925.327	925.313
44.5	951.881	945.017	939.085	941.570	935.596	930.153	929.506	921.249	908.955	910.779
45.0	939.976	932.278	926.261	929.535	921.536	914.887	913.192	902.708	891.305	894.680
45.5	926.778	918.563	913.206	916.567	906.787	899.477	895.499	884.340	875.178	878.768
46.0	911.842	904.532	899.707	903.584	890.401	882.703	876.872	865.010	857.987	861.434
46.5	897.337	889.510	887.098	889.869	874.948	866.259	857.154	845.665	841.113	843.209
47.0	882.028	874.273	873.225	875.221	858.547	848.523	837.896	827.512	824.138	825.014
47.5	866.173	859.179	858.160	861.118	841.357	829.997	818.379	808.800	806.746	806.100
48.0	851.194	845.737	842.592	845.234	824.367	810.351	799.479	790.403	789.412	787.286
48.5	836.503	830.686	826.909	828.992	806.430	790.776	779.833	772.537	771.762	768.531
49.0	820.863	816.009	810.466	812.146	788.206	772.308	760.948	755.117	754.026	749.172
49.5	804.075	801.892	794.381	794.180	769.838	753.293	742.494	738.329	735.773	729.209
50.0	788.277	786.927	778.210	775.754	750.737	735.011	724.700	720.506	717.878	709.649
50.5	770.714	771.690	760.732	756.999	732.469	716.299	706.906	703.187	698.605	688.438
51.0	753.983	756.137	743.686	738.142	713.110	698.491	689.242	686.025	680.065	668.346
51.5	736.534	739.593	725.145	719.401	695.001	680.194	671.951	667.829	660.677	648.197
52.0	719.286	722.373	706.260	700.831	677.638	661.812	654.789	650.509	641.318	627.876
52.5	702.052	705.183	686.944	682.176	659.787	644.176	637.139	631.926	621.672	607.282
53.0	684.431	687.246	668.906	663.205	642.166	626.124	619.216	613.472	602.327	586.975
53.5	666.795	669.194	649.533	644.995	624.343	608.503	601.695	595.506	582.351	567.458
54.0	648.901	650.797	630.863	626.497	607.210	590.565	584.763	577.612	563.365	548.386
54.5	630.404	632.342	613.587	607.756	589.934	573.849	567.516	559.358	543.532	529.314

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CANDELA TABULATION - (Cont.)

55.0	611.203	612.308	595.075	589.215	573.317	556.759	549.521	541.220	525.437	511.435
55.5	592.303	592.834	577.769	571.709	556.242	540.344	532.445	524.345	506.710	493.957
56.0	573.102	573.863	559.488	552.968	539.138	523.283	515.456	507.255	489.132	478.073
56.5	553.197	554.619	541.938	536.093	523.714	507.902	499.026	491.300	472.673	461.587
57.0	533.968	535.504	524.647	518.831	507.816	491.889	482.726	475.273	456.776	446.881
57.5	515.427	516.662	507.586	502.674	492.061	477.169	467.575	459.806	441.696	432.649
58.0	495.063	497.978	491.300	486.704	477.485	462.333	452.410	445.574	427.522	418.862
58.5	477.197	479.811	474.785	470.735	463.094	447.814	438.005	430.882	413.763	405.348
59.0	458.212	462.161	459.404	455.842	448.446	434.013	424.463	417.296	401.384	392.983
59.5	440.260	444.497	443.965	441.036	434.774	419.924	411.336	403.509	389.019	380.158
60.0	423.357	428.240	429.317	427.206	421.418	407.014	398.167	391.819	377.429	368.281
60.5	406.612	411.638	414.367	413.290	408.378	394.534	386.262	379.555	365.194	356.649
61.0	390.527	396.271	400.752	399.718	394.950	382.686	374.902	367.807	354.466	345.174
61.5	375.936	380.962	386.865	386.362	382.729	371.110	363.240	357.395	343.652	333.441
62.0	361.977	366.500	373.322	373.092	370.450	359.894	352.311	346.351	333.168	322.684
62.5	347.630	352.872	360.009	361.029	358.630	348.333	342.101	336.299	322.526	313.019
63.0	334.877	339.630	347.385	348.463	347.429	337.706	331.732	326.045	312.473	303.023
63.5	321.952	326.720	334.934	336.485	336.284	328.098	321.765	316.020	302.966	293.215
64.0	309.888	314.872	323.029	324.953	325.513	318.002	312.330	306.413	293.330	283.190
64.5	298.945	303.038	311.281	313.608	314.943	308.538	302.377	296.432	284.067	273.626
65.0	287.887	291.937	299.706	302.348	304.804	299.519	293.459	287.628	274.904	264.363
65.5	278.308	280.605	288.705	292.166	295.039	289.825	284.584	278.221	265.885	256.536
66.0	267.149	270.064	278.753	281.525	285.287	281.324	275.665	269.246	257.584	248.206
66.5	257.125	259.925	268.585	271.572	275.823	272.563	267.235	261.850	248.881	240.710
67.0	248.249	249.844	258.805	261.735	266.890	264.147	259.006	252.874	240.667	233.673
67.5	238.541	240.796	249.054	252.529	257.929	255.574	251.064	244.817	233.486	226.435
68.0	229.565	231.016	240.365	243.481	249.341	247.790	243.122	236.717	225.745	219.570
68.5	220.805	222.126	230.571	234.678	241.299	239.776	235.511	229.005	219.383	212.404
69.0	211.714	213.725	222.126	226.406	232.366	232.222	227.727	221.063	212.605	206.099
69.5	204.304	205.137	214.070	217.832	224.726	224.797	220.676	215.089	205.553	199.478
70.0	196.276	196.606	205.683	209.445	216.252	217.315	213.107	207.909	199.392	193.418
70.5	187.702	188.851	198.488	201.288	209.488	209.445	205.797	200.943	193.447	187.846
71.0	180.450	181.067	190.316	194.509	202.121	202.322	198.961	195.055	187.501	181.814
71.5	172.838	173.427	182.719	186.209	194.768	194.940	193.203	188.837	181.584	176.572
72.0	165.859	166.103	176.141	179.416	188.033	188.923	186.553	183.020	175.926	171.675
72.5	159.037	159.209	169.090	172.120	180.780	181.728	179.847	176.960	170.914	166.778
73.0	152.488	151.512	162.067	165.744	173.757	174.849	173.872	171.460	166.103	162.958
73.5	145.150	145.896	155.691	159.152	166.936	169.061	168.070	165.701	161.852	159.066
74.0	139.075	139.218	149.472	153.005	161.335	162.714	162.613	161.263	157.788	155.461
74.5	132.368	132.627	143.254	146.586	154.772	156.969	156.983	155.720	153.968	151.483
75.0	127.686	127.586	137.280	140.382	148.510	150.334	151.986	151.454	149.616	148.625
75.5	121.698	121.841	131.837	134.695	142.522	145.236	146.844	147.088	146.500	145.595
76.0	116.197	116.341	125.862	129.568	136.992	140.224	141.617	142.995	142.938	143.096
76.5	110.797	111.200	121.152	124.211	131.449	134.996	137.208	138.816	140.252	141.157
77.0	104.852	106.432	115.522	118.854	126.537	130.128	132.684	135.154	137.624	139.333
77.5	101.262	101.592	110.884	113.928	121.166	126.049	127.844	131.262	134.982	138.242
78.0	96.048	96.450	106.029	109.088	116.571	121.425	123.651	127.385	133.043	136.619
78.5	91.108	91.783	101.147	104.407	112.061	116.255	119.773	123.565	130.989	136.131
79.0	87.216	87.604	96.896	99.868	107.825	112.119	115.508	120.951	129.410	135.341
79.5	82.908	83.497	92.616	95.158	103.100	107.853	111.961	118.150	128.620	134.853
80.0	78.011	79.519	87.460	90.706	98.791	104.378	108.658	115.766	127.356	134.278
80.5	74.578	74.923	83.655	86.757	94.354	100.342	105.240	112.650	125.546	133.589
81.0	70.485	70.772	79.174	82.233	89.887	96.838	102.626	110.927	124.512	132.469
81.5	66.608	66.909	75.311	78.125	86.168	93.334	100.055	108.586	122.933	131.765
82.0	62.256	62.199	70.787	73.860	81.558	89.500	97.039	106.274	121.410	130.573
82.5	58.623	59.327	67.067	69.609	77.968	86.584	94.469	103.832	120.161	128.663

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CANDELA TABULATION - (Cont.)

83.0	54.013	54.530	62.946	65.847	73.602	83.238	90.864	101.362	118.323	126.566
83.5	49.661	50.308	58.824	61.538	69.638	80.280	88.336	98.878	115.637	123.392
84.0	44.678	46.818	54.903	57.445	66.263	76.905	85.450	95.962	112.751	119.601
84.5	40.485	42.380	50.767	53.324	62.472	74.033	82.563	93.492	109.663	114.345
85.0	37.483	38.101	46.689	49.604	58.436	70.184	80.050	90.074	105.426	109.505
85.5	31.825	34.438	42.639	45.439	54.717	67.599	76.416	87.015	100.917	103.344
86.0	27.588	30.288	38.546	41.432	51.069	64.339	73.688	82.865	95.488	97.441
86.5	22.547	26.468	34.352	37.067	46.861	61.208	69.681	79.116	89.844	91.496
87.0	18.512	22.174	30.001	33.534	43.012	58.278	66.407	75.038	83.784	86.354
87.5	13.600	18.167	25.893	28.924	39.680	55.090	63.204	70.672	78.082	81.759
88.0	9.464	14.333	22.519	25.606	36.061	52.045	60.102	65.631	73.372	78.341
88.5	5.285	10.685	18.038	21.485	33.002	49.001	56.813	62.328	69.983	75.497
89.0	2.542	6.793	15.855	18.899	30.561	46.933	53.783	59.240	67.096	72.970
89.5	0.000	4.711	14.261	16.975	28.622	44.779	51.227	55.564	64.425	71.318
90.0	0.000	3.777	13.413	15.797	27.732	43.558	48.771	53.754	63.075	70.629
90.5	0.000	4.208	13.370	15.841	27.172	42.438	47.952	52.074	62.902	70.514
91.0	0.000	3.863	13.255	15.841	27.502	42.452	46.890	51.787	62.773	71.807
91.5	0.000	3.834	13.083	16.257	27.717	41.289	45.927	51.586	63.420	74.262
92.0	0.000	3.447	13.385	16.515	28.392	41.030	45.985	50.925	65.028	76.416
92.5	0.000	3.964	13.399	16.343	27.416	40.628	45.611	51.212	66.536	78.298
93.0	0.000	4.036	14.132	16.760	28.320	39.752	45.540	52.002	68.116	80.610
93.5	0.000	3.418	13.701	16.989	28.507	40.240	45.827	52.792	70.442	83.784
94.0	0.000	3.878	13.859	17.018	27.703	40.025	46.157	53.367	72.639	86.082
94.5	0.000	4.165	14.132	17.348	27.732	40.283	47.019	54.989	74.607	87.877
95.0	0.000	3.633	14.347	17.550	27.803	40.887	47.708	56.670	76.589	89.744
95.5	0.000	4.165	14.318	17.650	28.148	41.073	48.742	57.890	78.513	91.898
96.0	0.000	3.777	14.160	17.004	27.890	41.921	49.862	59.556	80.509	93.176
96.5	0.000	4.036	14.304	17.636	28.249	42.739	51.428	61.452	81.946	96.034
97.0	1.766	3.935	14.218	17.923	28.206	43.371	52.562	63.089	83.554	96.407
97.5	0.000	4.409	14.692	17.779	28.766	43.989	54.099	64.094	84.602	96.968
98.0	0.000	4.380	14.720	17.923	29.010	45.138	54.645	65.344	85.866	95.905
98.5	0.000	4.193	14.792	18.081	29.441	46.143	56.095	66.967	86.354	95.747
99.0	0.000	4.366	15.438	18.354	30.159	47.005	57.302	67.096	86.814	94.971
99.5	0.000	4.811	14.921	18.354	30.360	47.708	58.178	69.379	86.067	93.751
100.0	0.000	4.308	15.697	18.483	31.250	48.556	59.068	69.853	85.306	91.625
100.5	0.000	4.567	15.381	19.043	30.920	49.791	59.628	69.896	84.646	89.543
101.0	0.000	4.912	16.372	19.086	31.466	50.796	59.786	70.040	83.224	88.006
101.5	0.000	4.739	16.300	19.546	31.638	51.255	60.748	69.624	81.314	85.522
102.0	0.000	5.170	16.602	19.129	32.729	51.169	60.361	69.250	79.906	83.051
102.5	0.000	5.184	16.903	20.307	32.600	51.571	60.576	68.360	77.824	81.026
103.0	0.000	5.228	16.717	20.336	32.658	51.816	60.418	67.599	75.067	78.226
103.5	0.000	4.998	17.176	20.580	33.246	52.002	59.327	65.861	73.501	76.057
104.0	0.000	5.371	17.363	20.982	33.807	51.543	59.384	64.870	71.634	73.961
104.5	0.000	5.745	17.679	21.039	33.404	51.198	57.962	62.960	69.451	71.835
105.0	0.000	5.716	17.147	21.269	34.252	50.049	57.043	61.825	67.311	69.911
105.5	0.000	5.630	17.492	21.628	34.395	50.092	56.095	59.944	65.617	67.900
106.0	1.781	5.429	17.707	22.016	34.812	49.719	54.630	58.666	64.066	66.335
106.5	0.000	5.902	18.124	21.542	34.481	49.331	53.812	57.503	62.730	65.014
107.0	1.896	6.549	18.067	22.303	34.510	48.197	52.634	56.555	61.337	64.252
107.5	1.723	6.175	18.727	22.605	34.611	47.378	52.361	55.808	60.705	63.276
108.0	0.000	6.692	19.244	22.777	34.697	46.717	51.643	55.363	60.289	62.357
108.5	1.896	6.951	19.431	22.289	34.094	46.301	50.595	54.142	59.341	62.041
109.0	0.000	6.707	19.488	23.050	34.252	45.640	50.365	53.683	59.097	61.509
109.5	1.967	6.692	19.847	22.519	34.252	45.267	49.590	53.338	59.125	61.179
110.0	0.000	7.497	19.790	23.696	33.907	45.439	49.561	52.878	58.336	60.619
110.5	0.000	7.094	20.206	23.639	34.252	45.080	49.704	53.525	58.307	60.389

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111.0	1.810	7.511	20.178	23.524	34.166	45.051	49.604	52.505	58.293	60.461
111.5	1.723	7.324	20.393	23.553	34.065	45.281	49.719	53.122	58.407	60.346
112.0	2.355	7.841	20.508	23.955	34.008	45.655	49.992	53.252	59.183	60.734
112.5	2.571	7.597	21.355	23.811	33.993	45.439	49.733	53.510	59.341	61.323
113.0	0.000	8.157	21.039	24.816	34.324	45.884	50.552	53.539	59.025	61.136
113.5	2.011	7.956	21.398	24.687	34.869	46.373	51.040	54.099	60.231	61.667
114.0	0.000	7.985	21.125	24.974	34.941	46.516	50.853	54.932	60.361	62.199
114.5	1.853	8.128	21.858	25.104	35.156	47.048	51.399	55.363	60.691	62.457
115.0	1.967	8.473	21.973	25.520	35.358	47.062	51.988	56.181	61.481	63.204
115.5	0.000	8.344	22.375	25.563	35.602	47.967	52.045	56.124	61.653	63.348
116.0	2.599	8.689	22.676	25.319	35.860	48.197	53.122	56.411	61.840	64.166
116.5	1.795	8.473	22.504	25.908	35.788	48.240	53.352	57.158	62.960	64.626
117.0	1.953	8.890	22.547	25.908	36.449	49.345	53.668	58.063	63.075	65.243
117.5	0.000	8.818	22.519	25.678	36.664	48.843	54.702	58.479	63.750	65.890
118.0	2.298	8.071	22.892	25.506	37.067	49.604	54.803	58.896	63.822	65.775
118.5	2.097	9.435	22.964	26.468	37.311	50.193	54.932	59.025	64.439	66.622
119.0	2.312	9.220	23.308	27.229	38.057	50.379	54.989	59.384	65.014	66.837
119.5	0.000	9.163	23.107	26.856	37.641	50.896	55.679	59.700	65.459	67.929
120.0	3.073	8.990	23.380	26.597	37.899	51.083	55.808	60.533	65.531	67.685
120.5	2.958	8.588	23.323	26.870	38.330	51.026	56.339	60.806	65.904	68.446
121.0	2.800	9.119	23.007	26.310	38.187	51.313	56.512	60.892	66.593	68.776
121.5	2.973	9.378	22.490	26.856	37.871	51.011	56.871	60.992	66.794	69.035
122.0	2.757	9.277	22.834	26.468	37.756	51.399	56.698	61.438	67.053	69.250
122.5	2.384	9.249	23.222	26.640	38.000	50.738	56.124	61.122	66.579	69.265
123.0	2.858	9.177	23.036	26.540	37.368	51.112	56.756	61.265	66.967	69.265
123.5	2.542	8.559	22.849	26.080	37.799	50.968	56.540	60.519	67.110	69.135
124.0	3.002	8.803	22.274	26.238	37.483	50.351	56.641	60.231	66.680	69.451
124.5	2.887	8.760	22.045	25.577	36.636	50.322	55.909	60.648	66.364	69.250
125.0	3.303	8.689	21.714	25.477	36.463	50.351	55.133	59.987	66.478	69.207
125.5	2.456	8.689	21.269	25.017	35.515	50.063	54.831	59.642	66.277	69.279
126.0	3.504	8.818	21.039	24.615	35.559	49.058	54.573	59.140	66.119	68.676
126.5	2.815	9.033	21.255	24.529	35.128	48.800	54.042	58.508	65.588	68.618
127.0	3.030	8.330	21.355	23.940	34.826	48.455	53.754	58.580	64.813	67.843
127.5	3.145	8.588	20.163	23.423	33.921	47.995	53.137	57.876	64.152	67.283
128.0	3.016	8.330	20.005	23.409	33.649	46.732	52.462	56.655	63.563	66.665
128.5	2.844	8.200	19.718	22.576	32.672	46.416	51.729	55.865	63.104	66.177
129.0	3.030	8.157	19.460	22.303	32.557	45.525	50.753	55.262	62.773	65.430
129.5	3.547	7.870	19.201	22.016	31.767	45.051	49.661	54.717	61.739	64.597
130.0	3.088	8.128	18.655	21.944	31.983	44.420	49.202	53.797	60.777	63.721
130.5	2.614	7.927	18.239	21.039	30.618	43.271	48.613	53.525	59.513	63.046
131.0	3.519	7.884	18.296	20.580	29.498	42.337	47.320	52.304	58.407	62.228
131.5	3.346	7.999	17.262	20.364	29.484	41.691	46.459	50.810	57.804	61.251
132.0	3.447	6.980	16.831	19.618	28.234	40.499	45.813	50.336	57.158	59.915
132.5	3.691	7.540	17.176	19.574	28.292	39.795	44.664	49.676	55.966	59.125
133.0	3.691	7.296	16.587	18.943	27.717	38.919	43.831	48.369	55.147	58.450
133.5	3.691	6.678	15.841	18.497	26.669	38.402	42.696	47.522	53.855	57.661
134.0	4.079	7.597	15.740	17.966	26.051	37.081	41.849	46.200	52.749	56.210
134.5	4.265	7.080	15.280	18.067	25.233	36.822	40.657	45.568	51.830	55.176
135.0	3.361	6.807	15.639	17.535	24.989	35.243	39.551	44.075	50.322	54.329
135.5	3.691	6.750	14.433	17.291	24.615	34.668	38.761	42.868	49.546	52.807
136.0	3.878	6.807	14.146	16.702	23.983	33.462	37.928	41.978	49.058	51.629
136.5	3.289	6.692	13.988	16.128	22.949	32.586	36.966	41.016	47.407	50.408
137.0	3.231	6.147	14.246	16.200	22.791	31.308	35.602	39.853	45.856	48.943
137.5	3.806	6.520	13.327	15.481	22.691	30.762	34.740	38.618	44.721	47.995
138.0	3.418	6.549	13.485	15.008	21.657	30.144	33.835	37.497	43.213	46.559
138.5	4.064	6.836	12.753	14.447	21.082	29.398	33.074	36.722	42.107	45.540

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CANDELA TABULATION - (Cont.)

139.0	4.337	6.276	12.983	14.447	20.278	28.550	31.753	35.616	41.562	44.491
139.5	3.763	6.247	12.466	13.930	20.048	27.502	30.877	34.826	40.240	43.055
140.0	4.423	5.816	12.135	13.758	19.273	27.358	29.843	33.979	39.020	41.763
140.5	4.007	6.132	11.719	13.270	18.785	26.396	29.225	32.485	38.201	40.815
141.0	3.203	6.233	11.906	13.370	18.540	25.965	28.306	31.652	37.239	39.680
141.5	3.935	5.788	11.561	13.040	18.038	24.615	28.091	31.020	35.875	38.115
142.0	4.165	5.931	10.800	12.624	18.023	24.070	26.870	29.340	35.472	37.354
142.5	3.763	5.500	11.202	12.437	17.162	23.409	26.410	29.125	33.850	36.506
143.0	3.978	5.960	10.857	11.819	17.420	23.323	25.980	28.335	32.844	35.042
143.5	3.820	6.075	10.441	11.848	16.788	22.303	24.989	27.430	31.552	34.410
144.0	4.136	5.543	10.656	11.202	16.085	22.131	24.184	27.229	31.150	33.333
144.5	3.504	5.342	10.383	11.417	15.166	21.269	23.452	26.195	30.719	32.299
145.0	4.265	4.983	10.369	11.274	15.424	20.896	23.351	25.233	29.311	31.796
145.5	3.662	5.917	10.125	11.073	15.539	20.695	22.404	24.773	28.809	31.020
146.0	3.978	5.156	9.565	10.828	14.850	20.537	21.757	23.983	27.947	30.202
146.5	4.208	5.931	9.565	10.484	14.706	19.747	21.169	22.863	26.913	29.010
147.0	4.064	5.113	9.507	10.340	14.519	18.512	20.953	22.777	26.683	28.076
147.5	3.791	5.615	9.249	10.110	14.232	18.540	20.738	22.045	25.534	28.378
148.0	4.208	5.299	9.048	9.895	13.801	17.865	19.804	21.470	24.931	27.042
148.5	4.553	5.314	9.119	9.866	13.816	17.248	19.158	21.528	24.558	26.296
149.0	4.136	5.228	9.134	9.694	13.227	17.664	19.201	20.680	23.711	25.520
149.5	4.955	5.443	8.516	9.249	13.040	16.946	18.196	19.862	23.150	24.572
150.0	4.481	5.529	8.531	9.292	12.523	17.061	17.865	19.747	22.576	23.897
150.5	4.150	4.955	8.358	9.335	11.834	16.013	17.880	19.388	21.671	23.380
151.0	4.754	5.328	8.416	8.918	12.221	15.841	17.176	19.402	21.039	22.533
151.5	4.696	5.314	8.042	8.861	12.164	15.352	16.831	18.052	20.364	22.504
152.0	4.481	5.529	7.813	8.717	11.848	15.324	16.530	17.478	20.135	21.413
152.5	4.581	5.113	7.813	8.617	11.518	15.137	15.496	17.392	19.819	20.953
153.0	4.093	5.256	7.870	8.157	10.771	14.246	15.683	16.903	19.373	21.097
153.5	4.179	4.868	7.497	8.215	10.398	13.729	14.893	16.587	19.000	19.804
154.0	4.323	5.041	7.683	8.258	10.354	14.088	14.591	16.085	17.880	19.905
154.5	4.308	5.055	7.181	8.114	10.469	14.088	14.534	15.654	17.535	19.072
155.0	4.481	5.098	6.879	7.468	9.723	13.284	13.916	15.122	17.506	18.856
155.5	4.323	5.285	7.181	8.028	9.809	13.184	13.284	15.252	16.630	17.794
156.0	3.964	4.868	7.238	7.712	9.579	12.566	13.241	14.649	16.731	17.305
156.5	4.265	4.596	7.209	7.525	8.789	12.394	13.083	14.002	16.128	17.205
157.0	4.653	4.739	6.692	6.362	9.076	11.762	13.313	13.887	15.869	16.717
157.5	4.395	4.926	6.233	6.621	9.119	11.934	12.221	13.672	15.194	15.869
158.0	4.854	4.768	6.707	7.066	9.091	11.432	12.221	13.270	14.232	16.171
158.5	4.193	4.366	6.060	6.850	8.401	11.001	11.891	12.796	14.189	15.266
159.0	4.007	4.754	6.319	6.606	8.315	10.872	11.446	13.011	14.203	14.950
159.5	3.490	4.639	6.477	6.218	8.358	10.211	11.144	12.351	14.017	15.036
160.0	4.122	4.553	5.572	6.262	7.827	10.024	10.814	11.561	13.557	14.261
160.5	4.208	4.280	5.644	6.333	7.956	9.565	9.866	11.690	12.954	14.031
161.0	3.676	4.093	5.917	5.615	7.353	9.550	10.053	10.699	12.580	13.514
161.5	3.978	4.323	5.285	5.587	7.425	9.277	9.665	10.943	12.193	13.011
162.0	4.337	4.395	5.199	5.701	7.166	8.861	10.082	10.670	12.035	12.882
162.5	3.590	4.782	5.041	5.802	7.511	9.005	9.306	9.967	11.676	12.265
163.0	4.064	4.624	5.228	5.414	6.448	8.488	9.005	9.737	11.001	12.193
163.5	3.992	4.351	5.342	5.529	6.822	8.574	8.545	9.622	10.656	11.949
164.0	4.337	4.265	5.371	5.256	6.391	8.559	8.186	9.263	10.900	11.834
164.5	3.720	3.820	5.342	5.141	6.937	8.243	7.999	8.775	10.814	11.202
165.0	4.754	3.849	5.500	5.184	6.104	7.899	7.568	8.588	9.924	10.642
165.5	3.992	4.509	5.486	5.084	6.118	7.353	7.597	7.942	9.220	10.268
166.0	4.438	4.624	5.113	4.395	5.888	7.454	7.712	8.100	9.234	9.723
166.5	4.280	4.251	4.639	4.926	5.543	7.252	6.994	7.468	8.631	9.507

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CANDELA TABULATION - (Cont.)

167.0	4.107	4.107	4.897	4.581	5.199	6.606	6.750	7.353	8.646	9.163
167.5	3.935	4.509	5.070	4.222	5.113	6.276	7.123	7.281	8.373	9.177
168.0	4.524	4.280	4.711	4.610	5.457	6.721	6.764	7.152	8.301	8.531
168.5	4.136	3.878	4.912	4.768	5.601	6.032	6.391	6.793	7.726	8.416
169.0	3.892	4.050	4.940	4.667	5.572	5.414	6.003	6.276	6.448	7.626
169.5	4.193	4.179	5.156	4.495	5.256	5.946	5.745	6.032	6.836	7.698
170.0	4.639	4.021	4.926	4.423	5.041	5.831	5.342	5.931	6.692	6.678
170.5	4.495	4.452	4.653	4.050	4.998	5.314	5.960	6.506	6.707	6.276
171.0	4.538	4.366	4.380	4.466	4.854	5.658	5.429	5.587	5.960	6.563
171.5	4.868	4.265	4.581	4.021	4.380	5.141	5.658	5.845	5.874	6.448
172.0	4.538	4.222	4.380	4.696	4.983	5.098	5.098	5.429	5.859	6.233
172.5	3.820	4.136	4.021	4.064	4.380	4.567	4.711	5.184	5.558	5.472
173.0	4.079	4.265	4.308	4.409	5.012	4.667	4.768	5.026	5.357	5.242
173.5	3.547	4.136	4.222	4.754	4.021	4.825	4.782	4.739	5.371	4.969
174.0	4.481	3.878	4.768	3.547	4.323	4.093	4.596	4.395	4.423	5.070
174.5	4.466	3.949	4.122	3.763	3.978	4.538	4.696	4.380	5.084	4.854
175.0	4.251	3.547	4.208	4.179	4.208	4.136	4.624	4.323	4.696	4.840
175.5	4.423	4.093	4.251	3.863	4.050	3.791	3.878	3.906	4.610	4.581
176.0	4.237	4.122	4.079	3.605	3.720	4.466	4.280	4.237	4.538	4.639
176.5	4.897	3.504	4.007	3.633	3.892	3.935	4.222	3.978	4.395	4.509
177.0	3.619	3.949	3.691	4.122	4.610	3.935	4.021	3.791	4.624	4.624
177.5	3.863	3.863	4.021	3.748	3.519	3.763	3.375	3.662	4.567	3.964
178.0	4.323	3.633	4.208	3.734	4.308	4.150	3.849	3.461	3.806	3.878
178.5	3.777	3.447	4.021	3.892	4.007	4.136	4.050	3.490	3.834	4.567
179.0	4.136	3.691	4.351	3.461	4.366	3.978	3.662	3.289	3.547	3.863
179.5	4.581	4.150	3.691	3.605	3.619	3.791	3.863	3.705	3.002	4.193
180.0	3.791	3.791	3.791	3.791	3.791	3.791	3.791	3.791	3.791	3.791

Vert. Horizontal Angles
Angles

	<u>70.0</u>	<u>80.0</u>	<u>90.0</u>
0.0	1419.356	1419.356	1419.356
0.5	1418.882	1419.385	1421.726
1.0	1420.002	1420.160	1421.855
1.5	1422.013	1423.277	1425.230
2.0	1425.029	1426.307	1428.217
2.5	1429.624	1430.314	1432.597
3.0	1433.344	1434.952	1437.681
3.5	1437.638	1438.715	1441.042
4.0	1441.113	1442.794	1444.704
4.5	1444.445	1446.011	1448.509
5.0	1448.380	1449.773	1452.760
5.5	1452.401	1452.732	1455.690
6.0	1455.791	1454.685	1456.638
6.5	1458.218	1455.848	1457.500
7.0	1458.936	1455.360	1456.064
7.5	1458.519	1454.096	1453.493
8.0	1456.466	1450.190	1449.974
8.5	1452.775	1445.867	1444.833
9.0	1446.729	1438.859	1437.466
9.5	1440.367	1431.779	1428.734
10.0	1432.511	1422.300	1418.681
10.5	1422.688	1411.946	1407.623
11.0	1411.759	1402.209	1397.182
11.5	1401.333	1392.888	1387.962
12.0	1391.624	1383.654	1379.403

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CANDELA TABULATION - (Cont.)

12.5	1382.993	1376.014	1372.696
13.0	1375.382	1370.097	1367.957
13.5	1369.551	1365.472	1364.252
14.0	1364.553	1362.528	1362.284
14.5	1362.198	1362.974	1362.586
15.0	1361.351	1365.228	1364.711
15.5	1362.658	1369.264	1369.005
16.0	1366.004	1375.583	1374.908
16.5	1370.140	1381.098	1379.819
17.0	1375.640	1386.052	1384.788
17.5	1380.351	1390.203	1389.068
18.0	1383.568	1392.874	1391.122
18.5	1385.420	1392.285	1389.915
19.0	1384.286	1388.091	1385.420
19.5	1381.471	1381.500	1377.938
20.0	1376.014	1373.084	1368.302
20.5	1368.215	1362.356	1357.617
21.0	1358.622	1350.838	1346.271
21.5	1347.664	1338.660	1333.116
22.0	1336.003	1326.639	1321.383
22.5	1324.571	1315.509	1311.000
23.0	1312.393	1305.902	1300.732
23.5	1301.507	1297.242	1293.393
24.0	1292.029	1291.124	1286.974
24.5	1284.532	1286.385	1283.642
25.0	1277.754	1283.441	1280.942
25.5	1273.072	1281.545	1280.956
26.0	1270.228	1278.845	1279.965
26.5	1267.198	1275.599	1276.662
27.0	1264.958	1270.271	1271.650
27.5	1262.430	1264.211	1264.872
28.0	1258.150	1255.939	1256.169
28.5	1251.989	1247.552	1247.336
29.0	1245.197	1239.912	1239.222
29.5	1236.924	1231.855	1231.424
30.0	1228.537	1225.163	1224.057
30.5	1220.308	1218.829	1217.781
31.0	1212.826	1213.113	1215.311
31.5	1205.588	1207.828	1212.453
32.0	1199.485	1202.917	1208.704
32.5	1193.122	1198.034	1204.698
33.0	1186.660	1191.887	1199.887
33.5	1180.169	1184.247	1190.164
34.0	1172.930	1174.625	1178.847
34.5	1165.463	1162.863	1165.549
35.0	1157.061	1150.053	1150.570
35.5	1146.836	1135.936	1135.347
36.0	1136.194	1122.551	1120.497
36.5	1123.212	1109.023	1108.175
37.0	1109.339	1097.045	1097.749
37.5	1095.753	1086.116	1086.820
38.0	1081.765	1074.986	1076.997
38.5	1068.897	1064.732	1065.982
39.0	1056.748	1054.220	1054.723
39.5	1044.023	1043.018	1043.822
40.0	1031.472	1031.127	1032.262

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CANDELA TABULATION - (Cont.)

40.5	1018.690	1019.150	1021.132
41.0	1006.124	1006.799	1009.743
41.5	993.500	994.678	999.561
42.0	980.159	983.749	989.278
42.5	966.185	971.628	977.114
43.0	952.513	959.019	965.338
43.5	938.482	945.361	951.350
44.0	924.250	930.584	936.716
44.5	909.185	914.858	918.807
45.0	893.804	897.509	900.554
45.5	877.131	879.256	881.769
46.0	860.026	859.639	859.667
46.5	841.917	839.878	838.140
47.0	823.807	818.494	815.995
47.5	804.994	797.727	794.051
48.0	785.132	775.510	770.800
48.5	765.716	753.351	748.956
49.0	745.639	731.220	726.854
49.5	725.088	709.348	704.034
50.0	704.666	688.122	682.708
50.5	683.957	666.293	660.807
51.0	662.932	644.664	640.069
51.5	642.122	624.329	619.489
52.0	621.514	604.324	598.608
52.5	600.920	584.519	579.033
53.0	580.742	565.189	559.143
53.5	562.159	546.936	541.148
54.0	543.374	528.884	523.541
54.5	524.848	511.707	506.020
55.0	507.083	495.091	489.390
55.5	490.309	479.466	473.751
56.0	474.153	464.689	457.982
56.5	458.757	450.098	444.080
57.0	444.396	435.865	429.245
57.5	430.150	421.935	416.033
58.0	416.363	408.234	402.461
58.5	402.763	395.611	388.602
59.0	390.369	382.312	375.605
59.5	377.688	369.444	363.815
60.0	365.481	357.324	350.646
60.5	353.891	345.289	339.300
61.0	342.259	333.297	327.955
61.5	331.028	321.851	316.609
62.0	320.760	311.353	305.996
62.5	310.376	300.726	294.680
63.0	299.649	289.868	284.584
63.5	290.213	279.873	274.157
64.0	279.930	270.079	264.851
64.5	270.438	261.347	255.559
65.0	261.778	253.305	248.393
65.5	253.649	245.305	239.891
66.0	245.176	237.148	232.811
66.5	237.766	230.197	226.147
67.0	230.671	222.959	219.182
67.5	224.051	216.425	212.547
68.0	216.798	209.503	205.998

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CANDELA TABULATION - (Cont.)

68.5	209.919	203.356	200.484
69.0	203.715	196.678	194.351
69.5	197.482	191.077	188.564
70.0	191.135	185.146	183.351
70.5	185.476	180.134	178.597
71.0	179.961	175.036	173.772
71.5	174.461	170.698	169.506
72.0	169.765	166.677	166.663
72.5	165.830	163.159	164.221
73.0	162.311	159.956	161.148
73.5	158.276	156.610	158.922
74.0	154.829	154.169	155.562
74.5	151.067	151.598	154.441
75.0	148.309	149.932	153.379
75.5	145.236	148.008	152.029
76.0	143.311	146.902	151.411
76.5	141.588	145.925	151.368
77.0	140.611	146.141	152.359
77.5	138.759	146.959	152.445
78.0	138.587	146.787	153.364
78.5	137.854	146.500	153.235
79.0	137.696	147.060	153.494
79.5	136.562	147.792	155.231
80.0	136.475	147.677	154.039
80.5	136.418	146.945	153.896
81.0	135.140	145.738	153.321
81.5	133.776	144.546	151.440
82.0	132.713	143.039	148.424
82.5	130.860	140.123	145.092
83.0	128.175	136.059	140.123
83.5	124.929	130.975	134.163
84.0	120.491	124.182	126.552
84.5	115.192	118.797	119.357
85.0	109.447	111.918	112.751
85.5	103.344	105.742	106.489
86.0	97.499	100.228	100.673
86.5	91.683	95.115	96.479
87.0	87.245	90.993	91.970
87.5	81.888	86.828	89.112
88.0	79.461	84.847	87.446
88.5	76.373	82.376	85.220
89.0	74.751	80.940	83.267
89.5	72.984	79.978	83.051
90.0	72.481	80.452	83.870
90.5	72.611	82.793	86.886
91.0	74.865	84.559	89.255
91.5	76.991	87.949	91.625
92.0	79.519	90.577	94.756
92.5	81.371	93.061	96.939
93.0	84.387	95.460	100.486
93.5	86.872	98.418	102.597
94.0	89.413	100.960	105.139
94.5	91.151	102.712	107.150
95.0	92.616	104.723	109.132
95.5	95.086	106.331	109.921
96.0	97.226	107.753	111.128

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CANDELA TABULATION - (Cont.)

96.5	98.533	107.667	109.218
97.0	98.562	107.379	109.088
97.5	98.849	105.958	107.035
98.0	98.231	104.177	105.010
98.5	97.815	102.382	102.841
99.0	96.221	100.500	100.788
99.5	94.526	97.341	98.016
100.0	92.717	95.259	95.215
100.5	90.419	92.903	93.722
101.0	87.992	90.706	90.376
101.5	86.311	87.891	88.020
102.0	84.172	85.837	86.354
102.5	81.673	83.339	83.425
103.0	78.829	80.624	81.141
103.5	76.819	77.666	78.068
104.0	74.205	74.636	75.512
104.5	72.051	72.683	73.487
105.0	70.112	71.160	71.620
105.5	68.676	69.825	69.695
106.0	66.852	68.676	68.360
106.5	65.631	67.240	67.441
107.0	64.066	66.163	66.234
107.5	63.161	64.899	65.243
108.0	62.831	63.721	63.937
108.5	62.156	62.989	64.051
109.0	61.380	62.946	62.773
109.5	61.179	62.701	63.017
110.0	60.849	62.314	62.113
110.5	60.964	61.998	61.912
111.0	60.992	61.754	61.897
111.5	60.791	61.581	61.280
112.0	61.208	62.472	62.687
112.5	60.691	62.141	62.658
113.0	61.739	62.859	63.147
113.5	61.969	63.003	62.730
114.0	62.500	63.247	63.707
114.5	62.429	63.879	63.434
115.0	63.534	64.238	64.267
115.5	63.735	64.482	64.827
116.0	64.296	65.200	65.042
116.5	64.755	65.315	65.416
117.0	65.358	66.349	65.732
117.5	65.660	66.981	66.636
118.0	66.062	67.010	67.024
118.5	66.938	67.757	67.283
119.0	67.627	68.360	67.900
119.5	67.699	68.805	68.317
120.0	68.475	68.618	68.977
120.5	68.288	68.647	68.791
121.0	68.834	69.423	69.207
121.5	68.848	69.710	69.509
122.0	69.609	69.954	69.695
122.5	69.437	70.485	70.586
123.0	69.581	70.126	70.098
123.5	70.040	71.160	70.169
124.0	69.796	70.356	71.505

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CANDELA TABULATION - (Cont.)

124.5	69.868	70.327	69.738
125.0	69.293	70.514	70.155
125.5	68.963	69.925	70.327
126.0	68.776	69.882	69.609
126.5	68.647	69.379	69.394
127.0	68.159	69.509	68.906
127.5	68.044	68.302	69.063
128.0	67.197	68.173	68.546
128.5	66.464	67.541	68.389
129.0	66.163	67.139	67.182
129.5	65.272	66.119	66.608
130.0	64.884	65.516	66.680
130.5	63.448	64.985	64.985
131.0	62.529	63.879	64.468
131.5	61.639	63.434	63.147
132.0	60.748	62.587	62.400
132.5	59.714	61.380	60.921
133.0	58.996	60.389	60.490
133.5	58.048	59.355	59.542
134.0	56.540	58.264	58.450
134.5	55.564	57.129	57.618
135.0	54.932	56.469	56.181
135.5	52.677	55.004	55.506
136.0	52.275	53.797	53.912
136.5	50.437	52.878	52.850
137.0	49.676	51.557	52.605
137.5	48.398	50.308	51.026
138.0	47.119	49.130	49.417
138.5	45.856	48.254	48.168
139.0	44.606	47.048	47.881
139.5	43.314	45.712	46.660
140.0	42.667	44.678	45.396
140.5	41.317	43.141	43.558
141.0	39.953	41.648	43.026
141.5	39.005	41.030	41.605
142.0	37.828	39.752	39.996
142.5	36.937	39.637	39.321
143.0	35.386	37.770	38.445
143.5	34.855	36.190	37.325
144.0	33.203	35.171	35.717
144.5	33.002	34.855	34.869
145.0	31.868	33.419	34.223
145.5	31.164	33.060	33.074
146.0	30.489	32.485	32.471
146.5	29.110	31.078	31.351
147.0	28.062	30.101	30.949
147.5	27.531	29.599	30.116
148.0	26.611	28.407	28.622
148.5	26.410	27.933	27.732
149.0	25.262	26.870	27.071
149.5	25.132	26.511	27.215
150.0	24.543	25.477	26.425
150.5	23.797	24.587	25.262
151.0	23.208	24.127	24.874
151.5	22.073	23.323	24.500
152.0	22.131	23.265	23.366

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CANDELA TABULATION - (Cont.)

152.5	21.240	22.921	22.720
153.0	20.939	22.260	22.303
153.5	20.221	21.628	21.772
154.0	19.675	21.197	21.327
154.5	18.813	20.321	20.810
155.0	18.397	19.517	20.508
155.5	18.181	19.503	19.057
156.0	17.837	18.986	19.460
156.5	17.248	18.411	18.741
157.0	16.846	17.923	18.440
157.5	16.731	17.392	17.550
158.0	15.754	17.205	17.420
158.5	15.467	16.702	16.630
159.0	14.850	16.774	15.941
159.5	14.447	16.271	15.496
160.0	14.275	15.496	15.639
160.5	13.615	14.692	15.467
161.0	13.930	14.433	14.692
161.5	12.968	14.390	13.902
162.0	12.796	13.959	13.859
162.5	12.423	13.241	13.600
163.0	11.906	13.270	13.299
163.5	11.776	12.954	12.509
164.0	11.360	12.351	12.896
164.5	10.584	12.006	12.049
165.0	10.685	11.518	11.417
165.5	10.484	10.742	10.886
166.0	10.067	10.656	9.967
166.5	9.378	10.311	10.426
167.0	9.277	9.866	9.694
167.5	8.531	9.794	9.062
168.0	8.071	9.407	9.206
168.5	8.430	8.531	8.531
169.0	7.195	8.286	9.220
169.5	7.310	8.114	8.315
170.0	6.951	7.454	8.272
170.5	6.348	7.482	7.224
171.0	5.946	7.454	7.267
171.5	5.989	6.807	6.879
172.0	6.003	6.692	6.147
172.5	5.587	7.051	5.788
173.0	5.127	5.658	5.673
173.5	4.481	6.104	5.730
174.0	4.639	4.897	5.615
174.5	4.653	5.213	5.371
175.0	4.395	5.299	4.768
175.5	4.538	4.739	4.825
176.0	4.553	4.538	4.323
176.5	3.849	4.754	4.251
177.0	3.949	4.466	4.179
177.5	3.777	4.366	3.906
178.0	3.633	4.093	4.079
178.5	3.590	4.308	3.949
179.0	3.317	3.777	4.395
179.5	3.289	3.562	4.093
180.0	3.791	3.791	3.791

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	529.45	N.A.	13.90
0-30	1125.83	N.A.	29.60
0-40	1840.87	N.A.	48.50
0-60	3032.56	N.A.	79.80
0-80	3474.38	N.A.	91.40
0-90	3559.12	N.A.	93.70
10-90	3421.83	N.A.	90.10
20-40	1311.43	N.A.	34.50
20-50	2007.41	N.A.	52.80
40-70	1476.17	N.A.	38.90
60-80	441.82	N.A.	11.60
70-80	157.34	N.A.	4.10
80-90	84.74	N.A.	2.20
90-110	105.62	N.A.	2.80
90-120	148.86	N.A.	3.90
90-130	190.14	N.A.	5.00
90-150	231.29	N.A.	6.10
90-180	240.35	N.A.	6.30
110-180	134.73	N.A.	3.50
0-180	3799.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	137.30
10-20	392.15
20-30	596.39
30-40	715.04
40-50	695.99
50-60	495.70
60-70	284.48
70-80	157.34
80-90	84.74
90-100	55.94
100-110	49.69
110-120	43.23
120-130	41.29
130-140	27.44
140-150	13.71
150-160	6.26
160-170	2.33
170-180	0.47

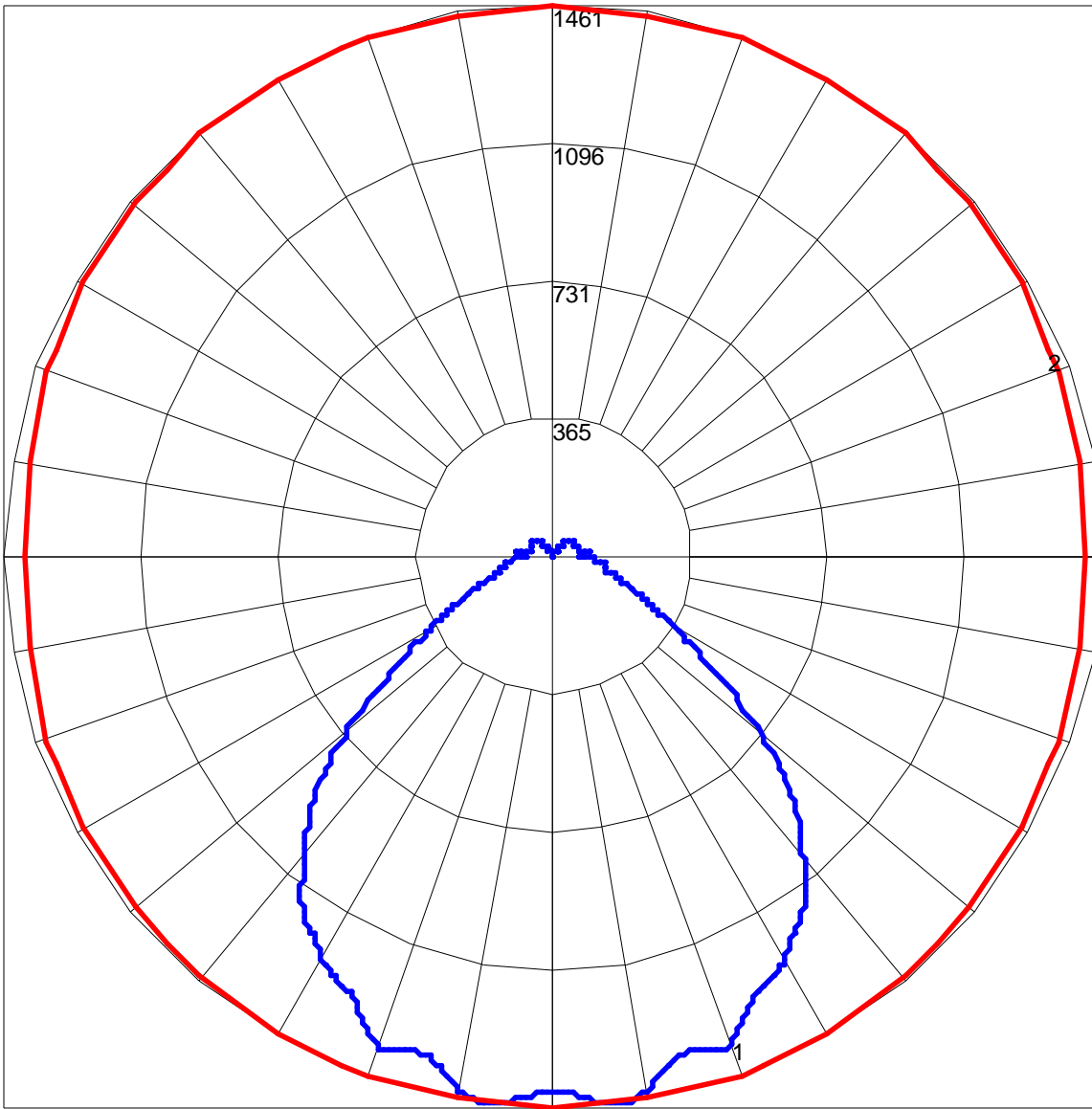
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	108	104	100	96	105	101	97	94	95	92	90	90	88	86	86	84	82	80
2	99	92	85	80	96	89	83	78	85	80	76	80	77	73	77	73	71	68
3	91	81	74	68	88	79	72	67	75	70	65	72	67	63	69	64	61	59
4	84	73	64	58	81	71	63	57	68	61	56	65	59	55	62	57	53	51
5	77	65	57	51	75	64	56	50	61	54	49	58	52	48	56	51	47	45
6	72	59	51	44	69	58	50	44	55	48	43	53	47	42	51	46	41	39
7	66	54	45	39	64	53	45	39	50	44	38	49	42	38	47	41	37	35
8	62	49	41	35	60	48	40	35	46	39	34	45	38	34	43	37	33	31
9	58	45	37	32	56	44	37	32	43	36	31	41	35	31	40	34	30	28
10	54	42	34	29	53	41	34	29	39	33	28	38	32	28	37	31	28	26

POLAR GRAPH



Maximum Candela = 1461.334 Located At Horizontal Angle = 67.5, Vertical Angle = 7
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (7) (Through Max. Cd.)