



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 772-48LED61DMV30.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] 772-48LED61DMV30
 [LUMINAIRE] Mobern Lighting - 1x4 ceiling mount luminaire. Catalog number: 772-48LED61DMV30
 [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 "M10CC830D32N2S"
 [MORE] One Universal Everline driver. Model: D10CC55UNVTZ-C with dimming disconnected. Marked "1050"
 [MORE] This IES file created by LightLab/LSA Report program version 3.807a.
 [DATE] This file created: Friday, May 15, 2015 7:11:02 AM
 [ISSUE DATE] Friday, May 15, 2015 7:11:02 AM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5688
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	61
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	6718	5895	5681
55	5313	4150	3583
65	3322	2771	2247
75	2294	1996	1892
85	1633	1815	2292

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CANDELA TABULATION - (Cont.)

55.0	915.019	916.674	890.874	882.102	858.302	833.512	822.676	810.249	786.621	765.658
55.5	886.725	887.520	864.967	855.894	832.738	808.938	797.113	784.987	758.585	739.493
56.0	857.979	859.119	837.597	827.836	807.132	783.396	771.678	759.402	732.269	715.714
56.5	828.180	830.309	811.324	802.574	784.041	760.369	747.082	735.515	707.630	691.032
57.0	799.392	801.692	785.438	776.731	760.240	736.397	722.680	711.521	683.829	669.016
57.5	771.635	773.484	759.896	752.543	736.655	714.359	699.997	688.366	661.254	647.709
58.0	741.148	745.513	735.515	728.635	714.832	692.150	677.293	667.059	640.034	627.069
58.5	714.402	718.315	710.790	704.727	693.289	670.413	655.729	645.065	619.437	606.838
59.0	685.979	691.892	687.764	682.432	671.359	649.752	635.454	624.726	600.904	588.326
59.5	659.104	665.447	664.651	660.265	650.891	628.660	615.803	604.086	582.392	569.127
60.0	633.799	641.109	642.721	639.561	630.896	609.332	596.088	586.585	565.042	551.346
60.5	608.730	616.255	620.340	618.727	611.374	590.648	578.264	568.224	546.724	533.931
61.0	584.650	593.250	599.958	598.410	591.272	572.911	561.258	550.637	530.663	516.753
61.5	562.806	570.331	579.167	578.415	572.975	555.582	543.800	535.049	514.474	499.187
62.0	541.908	548.680	558.893	558.549	554.593	538.790	527.438	518.516	498.779	483.084
62.5	520.429	528.277	538.962	540.489	536.898	521.483	512.152	503.466	482.847	468.614
63.0	501.337	508.454	520.064	521.676	520.128	505.573	496.629	488.115	467.797	453.650
63.5	481.987	489.125	501.423	503.745	503.444	491.189	481.708	473.108	453.564	438.966
64.0	463.927	471.388	483.600	486.481	487.319	476.075	467.582	458.724	439.138	423.959
64.5	447.544	453.672	466.013	469.496	471.495	461.906	452.683	443.782	425.270	409.640
65.0	430.989	437.052	448.684	452.640	456.316	448.404	439.331	430.602	411.553	395.772
65.5	416.649	420.089	432.215	437.396	441.696	433.892	426.044	416.520	398.051	384.055
66.0	399.943	404.308	417.315	421.465	427.098	421.164	412.693	403.082	385.624	371.585
66.5	384.936	389.129	402.093	406.565	412.929	408.049	400.072	392.010	372.595	360.362
67.0	371.649	374.036	387.452	391.838	399.556	395.450	387.753	378.572	360.297	349.827
67.5	357.115	360.491	372.853	378.056	386.140	382.614	375.863	366.511	349.547	338.991
68.0	343.678	345.849	359.846	364.511	373.283	370.961	363.974	354.385	337.959	328.714
68.5	330.563	332.541	345.183	351.332	361.243	358.964	352.579	342.839	328.434	317.985
69.0	316.953	319.963	332.541	338.948	347.870	347.655	340.926	330.950	318.286	308.547
69.5	305.859	307.106	320.479	326.112	336.432	336.540	330.369	322.006	307.730	298.635
70.0	293.841	294.335	307.923	313.556	323.747	325.338	319.039	311.256	298.506	289.562
70.5	281.005	282.725	297.152	301.344	313.621	313.556	308.095	300.828	289.605	281.220
71.0	270.148	271.072	284.918	291.196	302.591	302.892	297.861	292.013	280.704	272.190
71.5	258.753	259.634	273.545	278.769	291.583	291.841	289.240	282.704	271.846	264.343
72.0	248.304	248.669	263.698	268.600	281.500	282.833	279.285	273.996	263.375	257.011
72.5	238.091	238.349	253.141	257.678	270.642	272.061	269.245	264.923	255.872	249.680
73.0	228.287	226.825	242.628	248.132	260.129	261.763	260.301	256.689	248.669	243.961
73.5	217.301	218.419	233.082	238.263	249.916	253.098	251.615	248.067	242.305	238.134
74.0	208.206	208.421	223.772	229.061	241.531	243.595	243.445	241.424	236.221	232.738
74.5	198.166	198.553	214.463	219.451	231.706	234.995	235.017	233.125	230.502	226.782
75.0	191.157	191.006	205.519	210.163	222.332	225.062	227.535	226.739	223.987	222.504
75.5	182.191	182.406	197.370	201.649	213.366	217.430	219.838	220.203	219.322	217.967
76.0	173.957	174.172	188.426	193.973	205.089	209.926	212.012	214.076	213.990	214.226
76.5	165.873	166.475	181.374	185.954	196.790	202.100	205.411	207.819	209.969	211.324
77.0	156.972	159.337	172.946	177.934	189.437	194.812	198.639	202.337	206.035	208.593
77.5	151.597	152.091	166.002	170.560	181.396	188.706	191.393	196.510	202.079	206.959
78.0	143.792	144.394	158.735	163.314	174.516	181.783	185.115	190.705	199.176	204.530
78.5	136.396	137.407	151.425	156.305	167.765	174.043	179.310	184.986	196.102	203.799
79.0	130.570	131.150	145.061	149.511	161.422	167.851	172.925	181.073	193.737	202.616
79.5	124.120	125.001	138.654	142.459	154.349	161.465	167.614	176.881	192.554	201.885
80.0	116.788	119.046	130.935	135.794	147.899	156.262	162.669	173.312	190.662	201.025
80.5	111.650	112.166	125.238	129.882	141.255	150.221	157.552	168.646	187.953	199.993
81.0	105.522	105.952	118.530	123.109	134.569	144.975	153.639	166.066	186.405	198.316
81.5	99.717	100.169	112.746	116.960	129.000	139.729	149.791	162.562	184.040	197.263
82.0	93.203	93.117	105.974	110.575	122.099	133.988	145.276	159.100	181.761	195.478
82.5	87.763	88.817	100.405	104.211	116.724	129.624	141.427	155.445	179.891	192.619

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83.0	80.862	81.636	94.235	98.578	110.188	124.614	136.031	151.747	177.139	189.480
83.5	74.347	75.315	88.064	92.128	104.254	120.185	132.247	148.028	173.118	184.728
84.0	66.887	70.090	82.195	86.000	99.201	115.133	127.925	143.663	168.797	179.052
84.5	60.609	63.447	76.003	79.830	93.525	110.833	123.604	139.965	164.174	171.183
85.0	56.115	57.040	69.897	74.261	87.484	105.071	119.841	134.848	157.832	163.938
85.5	47.644	51.557	63.834	68.026	81.915	101.201	114.402	130.269	151.081	154.714
86.0	41.302	45.344	57.706	62.028	76.454	96.320	110.317	124.055	142.954	145.878
86.5	33.755	39.625	51.428	55.492	70.155	91.633	104.318	118.444	134.504	136.977
87.0	27.714	33.196	44.914	50.203	64.393	87.247	99.416	112.338	125.431	129.280
87.5	20.361	27.198	38.765	43.301	59.405	82.474	94.622	105.802	116.896	122.400
88.0	14.169	21.457	33.712	38.335	53.987	77.916	89.978	98.255	109.844	117.283
88.5	7.912	15.996	27.004	32.164	49.407	73.358	85.054	93.310	104.770	113.026
89.0	3.806	10.170	23.736	28.294	45.752	70.262	80.518	88.688	100.448	109.242
89.5	0.000	7.052	21.350	25.413	42.850	67.037	76.691	83.184	96.449	106.769
90.0	0.000	5.655	20.081	23.650	41.517	65.210	73.014	80.475	94.428	105.737
90.5	0.000	6.300	20.017	23.715	40.678	63.533	71.789	77.959	94.170	105.565
91.0	0.000	5.784	19.845	23.715	41.173	63.554	70.198	77.529	93.977	107.500
91.5	0.000	5.741	19.587	24.338	41.495	61.813	68.757	77.228	94.944	111.177
92.0	0.000	5.160	20.038	24.725	42.506	61.426	68.843	76.239	97.352	114.402
92.5	0.000	5.934	20.060	24.467	41.044	60.824	68.284	76.669	99.610	117.218
93.0	0.000	6.042	21.156	25.091	42.398	59.512	68.177	77.852	101.975	120.680
93.5	0.000	5.117	20.511	25.435	42.678	60.243	68.607	79.034	105.458	125.431
94.0	0.000	5.805	20.748	25.478	41.474	59.921	69.101	79.894	108.747	128.871
94.5	0.000	6.235	21.156	25.972	41.517	60.308	70.391	82.324	111.693	131.559
95.0	0.000	5.440	21.479	26.273	41.624	61.211	71.423	84.839	114.660	134.354
95.5	0.000	6.235	21.436	26.424	42.140	61.490	72.971	86.667	117.541	137.579
96.0	0.000	5.655	21.199	25.456	41.753	62.759	74.648	89.161	120.529	139.492
96.5	0.000	6.042	21.414	26.402	42.291	63.984	76.992	91.999	122.679	143.771
97.0	2.645	5.891	21.285	26.832	42.226	64.930	78.690	94.450	125.087	144.330
97.5	0.000	6.601	21.995	26.617	43.065	65.855	80.991	95.955	126.657	145.168
98.0	0.000	6.558	22.038	26.832	43.430	67.575	81.808	97.825	128.549	143.577
98.5	0.000	6.278	22.145	27.069	44.075	69.080	83.979	100.255	129.280	143.341
99.0	0.000	6.536	23.113	27.477	45.150	70.370	85.785	100.448	129.968	142.180
99.5	0.000	7.203	22.339	27.477	45.451	71.423	87.097	103.867	128.850	140.352
100.0	0.000	6.450	23.500	27.671	46.784	72.692	88.430	104.576	127.710	137.170
100.5	0.000	6.837	23.027	28.509	46.290	74.541	89.268	104.641	126.721	134.053
101.0	0.000	7.353	24.510	28.574	47.107	76.046	89.505	104.856	124.593	131.752
101.5	0.000	7.095	24.403	29.262	47.365	76.734	90.945	104.232	121.733	128.033
102.0	0.000	7.740	24.854	28.638	48.999	76.605	90.365	103.673	119.626	124.335
102.5	0.000	7.762	25.306	30.401	48.805	77.207	90.687	102.340	116.509	121.303
103.0	0.000	7.826	25.026	30.444	48.891	77.572	90.451	101.201	112.381	117.111
103.5	0.000	7.482	25.714	30.810	49.773	77.852	88.817	98.599	110.037	113.864
104.0	0.000	8.041	25.994	31.412	50.611	77.164	88.903	97.116	107.242	110.725
104.5	0.000	8.600	26.467	31.498	50.009	76.648	86.774	94.256	103.974	107.543
105.0	0.000	8.557	25.671	31.842	51.278	74.928	85.398	92.558	100.771	104.662
105.5	0.000	8.428	26.187	32.379	51.493	74.992	83.979	89.741	98.234	101.652
106.0	2.666	8.127	26.510	32.960	52.116	74.433	81.786	87.828	95.912	99.309
106.5	0.000	8.837	27.133	32.250	51.622	73.853	80.561	86.086	93.912	97.331
107.0	2.838	9.804	27.047	33.390	51.665	72.154	78.798	84.667	91.827	96.191
107.5	2.580	9.245	28.036	33.841	51.815	70.929	78.389	83.549	90.881	94.729
108.0	0.000	10.019	28.810	34.099	51.944	69.940	77.314	82.883	90.257	93.353
108.5	2.838	10.406	29.090	33.368	51.041	69.316	75.745	81.055	88.838	92.880
109.0	0.000	10.041	29.176	34.508	51.278	68.327	75.401	80.367	88.473	92.085
109.5	2.946	10.019	29.713	33.712	51.278	67.768	74.240	79.851	88.516	91.590
110.0	0.000	11.223	29.627	35.475	50.762	68.026	74.197	79.163	87.333	90.752
110.5	0.000	10.621	30.251	35.389	51.278	67.489	74.412	80.131	87.290	90.408

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111.0	2.709	11.245	30.208	35.217	51.149	67.446	74.261	78.604	87.269	90.515
111.5	2.580	10.965	30.530	35.260	50.998	67.790	74.433	79.529	87.441	90.343
112.0	3.526	11.739	30.702	35.862	50.912	68.349	74.842	79.722	88.602	90.924
112.5	3.849	11.374	31.971	35.647	50.891	68.026	74.455	80.109	88.838	91.805
113.0	0.000	12.212	31.498	37.152	51.385	68.693	75.680	80.152	88.365	91.526
113.5	3.010	11.911	32.035	36.959	52.202	69.424	76.411	80.991	90.171	92.321
114.0	0.000	11.954	31.627	37.389	52.310	69.639	76.132	82.238	90.365	93.117
114.5	2.774	12.169	32.723	37.582	52.632	70.434	76.949	82.883	90.859	93.504
115.0	2.946	12.685	32.895	38.206	52.933	70.456	77.830	84.108	92.042	94.622
115.5	0.000	12.492	33.497	38.270	53.299	71.810	77.916	84.022	92.300	94.837
116.0	3.892	13.008	33.949	37.905	53.686	72.154	79.529	84.452	92.579	96.062
116.5	2.688	12.685	33.691	38.786	53.578	72.219	79.873	85.570	94.256	96.750
117.0	2.924	13.309	33.755	38.786	54.567	73.874	80.346	86.925	94.428	97.675
117.5	0.000	13.201	33.712	38.442	54.890	73.122	81.894	87.548	95.439	98.642
118.0	3.440	12.083	34.271	38.184	55.492	74.261	82.044	88.172	95.546	98.470
118.5	3.139	14.126	34.379	39.625	55.857	75.143	82.238	88.365	96.471	99.739
119.0	3.462	13.803	34.895	40.764	56.975	75.422	82.324	88.903	97.331	100.061
119.5	0.000	13.717	34.594	40.205	56.352	76.196	83.356	89.376	97.997	101.695
120.0	4.601	13.459	35.002	39.818	56.739	76.476	83.549	90.623	98.105	101.330
120.5	4.429	12.857	34.916	40.227	57.384	76.390	84.345	91.031	98.664	102.469
121.0	4.193	13.653	34.443	39.388	57.169	76.820	84.603	91.160	99.696	102.964
121.5	4.451	14.040	33.669	40.205	56.696	76.368	85.140	91.311	99.997	103.351
122.0	4.128	13.889	34.185	39.625	56.524	76.949	84.882	91.977	100.384	103.673
122.5	3.569	13.846	34.766	39.883	56.889	75.960	84.022	91.504	99.674	103.695
123.0	4.279	13.739	34.486	39.732	55.943	76.519	84.968	91.719	100.255	103.695
123.5	3.806	12.814	34.207	39.044	56.588	76.304	84.646	90.601	100.470	103.501
124.0	4.494	13.180	33.347	39.281	56.115	75.379	84.796	90.171	99.825	103.974
124.5	4.322	13.115	33.003	38.292	54.847	75.336	83.700	90.795	99.352	103.673
125.0	4.945	13.008	32.508	38.141	54.589	75.379	82.539	89.806	99.524	103.609
125.5	3.677	13.008	31.842	37.453	53.170	74.949	82.087	89.290	99.223	103.716
126.0	5.246	13.201	31.498	36.851	53.234	73.444	81.700	88.537	98.986	102.813
126.5	4.214	13.524	31.820	36.722	52.589	73.057	80.905	87.591	98.191	102.727
127.0	4.537	12.470	31.971	35.841	52.138	72.541	80.475	87.699	97.030	101.566
127.5	4.709	12.857	30.186	35.067	50.783	71.853	79.550	86.645	96.041	100.728
128.0	4.515	12.470	29.950	35.045	50.375	69.961	78.540	84.818	95.159	99.803
128.5	4.257	12.277	29.520	33.798	48.913	69.488	77.443	83.635	94.471	99.072
129.0	4.537	12.212	29.133	33.390	48.741	68.155	75.981	82.732	93.977	97.954
129.5	5.311	11.782	28.746	32.960	47.558	67.446	74.347	81.915	92.429	96.707
130.0	4.623	12.169	27.929	32.852	47.881	66.500	73.659	80.539	90.988	95.396
130.5	3.913	11.868	27.305	31.498	45.838	64.780	72.778	80.131	89.096	94.385
131.0	5.268	11.804	27.391	30.810	44.161	63.382	70.843	78.303	87.441	93.160
131.5	5.010	11.976	25.843	30.487	44.140	62.415	69.553	76.067	86.538	91.698
132.0	5.160	10.449	25.198	29.369	42.269	60.630	68.585	75.358	85.570	89.698
132.5	5.526	11.288	25.714	29.305	42.355	59.577	66.865	74.369	83.786	88.516
133.0	5.526	10.922	24.833	28.359	41.495	58.265	65.618	72.412	82.560	87.505
133.5	5.526	9.998	23.715	27.692	39.926	57.491	63.920	71.144	80.625	86.323
134.0	6.106	11.374	23.564	26.897	39.001	55.513	62.651	69.166	78.970	84.151
134.5	6.386	10.600	22.876	27.047	37.776	55.126	60.867	68.220	77.594	82.603
135.0	5.031	10.191	23.414	26.252	37.410	52.761	59.211	65.984	75.336	81.335
135.5	5.526	10.105	21.608	25.886	36.851	51.901	58.029	64.178	74.175	79.056
136.0	5.805	10.191	21.178	25.005	35.905	50.095	56.782	62.845	73.444	77.293
136.5	4.924	10.019	20.941	24.145	34.357	48.784	55.341	61.404	70.972	75.465
137.0	4.838	9.202	21.328	24.252	34.121	46.870	53.299	59.663	68.650	73.272
137.5	5.698	9.761	19.952	23.177	33.970	46.053	52.009	57.814	66.951	71.853
138.0	5.117	9.804	20.189	22.468	32.422	45.129	50.654	56.137	64.694	69.703
138.5	6.085	10.234	19.092	21.629	31.562	44.011	49.515	54.976	63.038	68.177

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CANDELA TABULATION - (Cont.)

139.0	6.493	9.396	19.436	21.629	30.358	42.742	47.537	53.320	62.221	66.607
139.5	5.633	9.353	18.662	20.855	30.014	41.173	46.225	52.138	60.243	64.457
140.0	6.622	8.708	18.168	20.597	28.853	40.958	44.677	50.869	58.416	62.522
140.5	5.999	9.181	17.544	19.866	28.122	39.517	43.753	48.633	57.190	61.103
141.0	4.795	9.331	17.824	20.017	27.757	38.872	42.377	47.386	55.750	59.405
141.5	5.891	8.665	17.308	19.522	27.004	36.851	42.054	46.440	53.707	57.061
142.0	6.235	8.880	16.168	18.899	26.983	36.034	40.227	43.925	53.105	55.922
142.5	5.633	8.235	16.770	18.619	25.693	35.045	39.539	43.602	50.676	54.653
143.0	5.956	8.923	16.254	17.695	26.080	34.916	38.894	42.420	49.171	52.460
143.5	5.719	9.095	15.631	17.738	25.134	33.390	37.410	41.065	47.236	51.514
144.0	6.192	8.299	15.953	16.770	24.080	33.132	36.206	40.764	46.634	49.902
144.5	5.246	7.998	15.545	17.093	22.704	31.842	35.110	39.216	45.989	48.354
145.0	6.386	7.461	15.523	16.878	23.091	31.283	34.959	37.776	43.882	47.601
145.5	5.483	8.858	15.158	16.577	23.263	30.982	33.540	37.088	43.129	46.440
146.0	5.956	7.719	14.319	16.211	22.231	30.745	32.573	35.905	41.839	45.215
146.5	6.300	8.880	14.319	15.695	22.016	29.563	31.691	34.228	40.291	43.430
147.0	6.085	7.654	14.233	15.480	21.737	27.714	31.369	34.099	39.947	42.033
147.5	5.676	8.407	13.846	15.136	21.307	27.757	31.046	33.003	38.227	42.484
148.0	6.300	7.934	13.545	14.814	20.662	26.746	29.649	32.143	37.324	40.485
148.5	6.816	7.955	13.653	14.771	20.683	25.822	28.681	32.229	36.765	39.367
149.0	6.192	7.826	13.674	14.513	19.802	26.445	28.746	30.960	35.497	38.206
149.5	7.418	8.149	12.750	13.846	19.522	25.370	27.241	29.735	34.658	36.787
150.0	6.708	8.278	12.771	13.911	18.748	25.542	26.746	29.563	33.798	35.776
150.5	6.214	7.418	12.513	13.975	17.716	23.973	26.768	29.025	32.444	35.002
151.0	7.117	7.977	12.599	13.352	18.297	23.715	25.714	29.047	31.498	33.734
151.5	7.031	7.955	12.040	13.266	18.211	22.984	25.198	27.026	30.487	33.691
152.0	6.708	8.278	11.696	13.051	17.738	22.941	24.747	26.166	30.143	32.057
152.5	6.859	7.654	11.696	12.900	17.243	22.661	23.199	26.037	29.670	31.369
153.0	6.128	7.869	11.782	12.212	16.125	21.328	23.478	25.306	29.004	31.584
153.5	6.257	7.289	11.223	12.298	15.566	20.554	22.296	24.833	28.445	29.649
154.0	6.472	7.547	11.503	12.363	15.502	21.092	21.844	24.080	26.768	29.799
154.5	6.450	7.568	10.750	12.148	15.674	21.092	21.758	23.435	26.252	28.552
155.0	6.708	7.633	10.299	11.180	14.556	19.888	20.834	22.640	26.209	28.230
155.5	6.472	7.912	10.750	12.019	14.685	19.737	19.888	22.833	24.897	26.639
156.0	5.934	7.289	10.836	11.546	14.341	18.813	19.823	21.930	25.048	25.908
156.5	6.386	6.880	10.793	11.266	13.158	18.555	19.587	20.963	24.145	25.757
157.0	6.966	7.095	10.019	9.525	13.588	17.609	19.931	20.791	23.758	25.026
157.5	6.579	7.375	9.331	9.912	13.653	17.867	18.297	20.468	22.747	23.758
158.0	7.267	7.138	10.041	10.578	13.610	17.114	18.297	19.866	21.307	24.209
158.5	6.278	6.536	9.073	10.256	12.578	16.469	17.802	19.157	21.242	22.855
159.0	5.999	7.117	9.460	9.890	12.449	16.276	17.136	19.479	21.264	22.382
159.5	5.225	6.945	9.697	9.310	12.513	15.287	16.684	18.490	20.984	22.511
160.0	6.171	6.816	8.342	9.374	11.718	15.007	16.190	17.308	20.296	21.350
160.5	6.300	6.407	8.450	9.482	11.911	14.319	14.771	17.501	19.393	21.006
161.0	5.504	6.128	8.858	8.407	11.008	14.298	15.050	16.018	18.834	20.232
161.5	5.956	6.472	7.912	8.364	11.116	13.889	14.470	16.383	18.254	19.479
162.0	6.493	6.579	7.783	8.536	10.729	13.266	15.093	15.975	18.017	19.286
162.5	5.375	7.160	7.547	8.686	11.245	13.481	13.932	14.921	17.480	18.361
163.0	6.085	6.923	7.826	8.106	9.654	12.707	13.481	14.577	16.469	18.254
163.5	5.977	6.515	7.998	8.278	10.213	12.836	12.793	14.405	15.953	17.888
164.0	6.493	6.386	8.041	7.869	9.568	12.814	12.255	13.868	16.319	17.716
164.5	5.569	5.719	7.998	7.697	10.385	12.341	11.976	13.137	16.190	16.770
165.0	7.117	5.762	8.235	7.762	9.138	11.825	11.331	12.857	14.857	15.932
165.5	5.977	6.751	8.213	7.611	9.159	11.008	11.374	11.890	13.803	15.373
166.0	6.644	6.923	7.654	6.579	8.815	11.159	11.546	12.126	13.825	14.556
166.5	6.407	6.364	6.945	7.375	8.299	10.858	10.471	11.180	12.922	14.233

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167.0	6.149	6.149	7.332	6.859	7.783	9.890	10.105	11.008	12.943	13.717
167.5	5.891	6.751	7.590	6.321	7.654	9.396	10.664	10.901	12.535	13.739
168.0	6.773	6.407	7.052	6.902	8.170	10.062	10.127	10.707	12.427	12.771
168.5	6.192	5.805	7.353	7.138	8.385	9.030	9.568	10.170	11.567	12.599
169.0	5.827	6.063	7.396	6.988	8.342	8.106	8.987	9.396	9.654	11.417
169.5	6.278	6.257	7.719	6.730	7.869	8.901	8.600	9.030	10.234	11.524
170.0	6.945	6.020	7.375	6.622	7.547	8.729	7.998	8.880	10.019	9.998
170.5	6.730	6.665	6.966	6.063	7.482	7.955	8.923	9.740	10.041	9.396
171.0	6.794	6.536	6.558	6.687	7.267	8.471	8.127	8.364	8.923	9.826
171.5	7.289	6.386	6.859	6.020	6.558	7.697	8.471	8.751	8.794	9.654
172.0	6.794	6.321	6.558	7.031	7.461	7.633	7.633	8.127	8.772	9.331
172.5	5.719	6.192	6.020	6.085	6.558	6.837	7.052	7.762	8.321	8.192
173.0	6.106	6.386	6.450	6.601	7.504	6.988	7.138	7.525	8.020	7.848
173.5	5.311	6.192	6.321	7.117	6.020	7.224	7.160	7.095	8.041	7.439
174.0	6.708	5.805	7.138	5.311	6.472	6.128	6.880	6.579	6.622	7.590
174.5	6.687	5.913	6.171	5.633	5.956	6.794	7.031	6.558	7.611	7.267
175.0	6.364	5.311	6.300	6.257	6.300	6.192	6.923	6.472	7.031	7.246
175.5	6.622	6.128	6.364	5.784	6.063	5.676	5.805	5.848	6.902	6.859
176.0	6.343	6.171	6.106	5.397	5.569	6.687	6.407	6.343	6.794	6.945
176.5	7.332	5.246	5.999	5.440	5.827	5.891	6.321	5.956	6.579	6.751
177.0	5.418	5.913	5.526	6.171	6.902	5.891	6.020	5.676	6.923	6.923
177.5	5.784	5.784	6.020	5.612	5.268	5.633	5.053	5.483	6.837	5.934
178.0	6.472	5.440	6.300	5.590	6.450	6.214	5.762	5.182	5.698	5.805
178.5	5.655	5.160	6.020	5.827	5.999	6.192	6.063	5.225	5.741	6.837
179.0	6.192	5.526	6.515	5.182	6.536	5.956	5.483	4.924	5.311	5.784
179.5	6.859	6.214	5.526	5.397	5.418	5.676	5.784	5.547	4.494	6.278
180.0	5.676	5.676	5.676	5.676	5.676	5.676	5.676	5.676	5.676	5.676

Vert. Horizontal Angles
Angles

	<u>70.0</u>	<u>80.0</u>	<u>90.0</u>
0.0	2124.888	2124.888	2124.888
0.5	2124.179	2124.931	2128.436
1.0	2125.856	2126.092	2128.629
1.5	2128.866	2130.758	2133.682
2.0	2133.381	2135.294	2138.154
2.5	2140.261	2141.293	2144.711
3.0	2145.829	2148.237	2152.322
3.5	2152.258	2153.870	2157.353
4.0	2157.461	2159.976	2162.836
4.5	2162.449	2164.792	2168.533
5.0	2168.340	2170.425	2174.897
5.5	2174.360	2174.854	2179.283
6.0	2179.434	2177.778	2180.702
6.5	2183.067	2179.520	2181.992
7.0	2184.142	2178.789	2179.842
7.5	2183.519	2176.897	2175.994
8.0	2180.444	2171.049	2170.726
8.5	2174.919	2164.577	2163.029
9.0	2165.867	2154.085	2152.000
9.5	2156.343	2143.486	2138.928
10.0	2144.582	2129.296	2123.878
10.5	2129.876	2113.794	2107.323
11.0	2113.515	2099.217	2091.692
11.5	2097.906	2085.264	2077.889
12.0	2083.372	2071.439	2065.075

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12.5	2070.450	2060.001	2055.035
13.0	2059.055	2051.143	2047.940
13.5	2050.326	2044.220	2042.393
14.0	2042.844	2039.813	2039.447
14.5	2039.318	2040.479	2039.899
15.0	2038.050	2043.855	2043.081
15.5	2040.006	2049.896	2049.509
16.0	2045.016	2059.356	2058.346
16.5	2051.208	2067.612	2065.699
17.0	2059.442	2075.030	2073.138
17.5	2066.494	2081.243	2079.545
18.0	2071.310	2085.242	2082.619
18.5	2074.084	2084.361	2080.813
19.0	2072.385	2078.083	2074.084
19.5	2068.171	2068.214	2062.882
20.0	2060.001	2055.615	2048.456
20.5	2048.327	2039.555	2032.460
21.0	2033.965	2022.312	2015.475
21.5	2017.560	2004.080	1995.781
22.0	2000.102	1986.084	1978.215
22.5	1982.988	1969.422	1962.671
23.0	1964.756	1955.038	1947.298
23.5	1948.459	1942.074	1936.312
24.0	1934.269	1932.915	1926.701
24.5	1923.046	1925.820	1921.713
25.0	1912.898	1921.412	1917.671
25.5	1905.889	1918.574	1917.693
26.0	1901.632	1914.532	1916.209
26.5	1897.096	1909.673	1911.264
27.0	1893.742	1901.697	1903.761
27.5	1889.958	1892.624	1893.613
28.0	1883.551	1880.240	1880.584
28.5	1874.327	1867.684	1867.361
29.0	1864.158	1856.246	1855.214
29.5	1851.774	1844.184	1843.539
30.0	1839.218	1834.165	1832.510
30.5	1826.898	1824.684	1823.114
31.0	1815.697	1816.127	1819.416
31.5	1804.861	1808.215	1815.138
32.0	1795.723	1800.862	1809.526
32.5	1786.199	1793.552	1803.528
33.0	1776.524	1784.350	1796.325
33.5	1766.806	1772.912	1781.770
34.0	1755.970	1758.507	1764.828
34.5	1744.790	1740.898	1744.919
35.0	1732.212	1721.720	1722.494
35.5	1716.904	1700.586	1699.704
36.0	1700.973	1680.548	1677.473
36.5	1681.537	1660.295	1659.026
37.0	1660.768	1642.364	1643.417
37.5	1640.429	1626.002	1627.056
38.0	1619.488	1609.340	1612.350
38.5	1600.224	1593.989	1595.859
39.0	1582.035	1578.251	1579.003
39.5	1562.986	1561.481	1562.685
40.0	1544.195	1543.679	1545.377

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40.5	1525.060	1525.748	1528.715
41.0	1506.247	1507.258	1511.665
41.5	1487.349	1489.112	1496.422
42.0	1467.375	1472.750	1481.028
42.5	1446.456	1454.604	1462.817
43.0	1425.988	1435.727	1445.187
43.5	1404.982	1415.281	1424.246
44.0	1383.676	1393.157	1402.338
44.5	1361.122	1369.615	1375.527
45.0	1338.096	1343.643	1348.201
45.5	1313.134	1316.316	1320.079
46.0	1287.528	1286.947	1286.990
46.5	1260.416	1257.363	1254.762
47.0	1233.305	1225.350	1221.609
47.5	1205.140	1194.261	1188.757
48.0	1175.405	1161.000	1153.948
48.5	1146.337	1127.826	1121.247
49.0	1116.280	1094.694	1088.158
49.5	1085.514	1061.950	1053.995
50.0	1054.941	1030.173	1022.067
50.5	1023.938	997.493	989.280
51.0	992.462	965.114	958.234
51.5	961.308	934.670	927.424
52.0	930.456	904.720	896.163
52.5	899.625	875.072	866.859
53.0	869.417	846.133	837.081
53.5	841.596	818.806	810.142
54.0	813.474	791.781	783.783
54.5	785.739	766.067	757.553
55.0	759.144	741.191	732.656
55.5	734.032	717.799	709.242
56.0	709.844	695.676	685.635
56.5	686.796	673.832	664.823
57.0	665.296	652.525	642.614
57.5	643.968	631.670	622.834
58.0	623.328	611.159	602.516
58.5	602.968	592.261	581.769
59.0	584.413	572.352	562.311
59.5	565.429	553.088	544.660
60.0	547.154	534.942	524.944
60.5	529.803	516.925	507.959
61.0	512.388	498.972	490.974
61.5	495.575	481.837	473.989
62.0	480.203	466.120	458.101
62.5	464.658	450.210	441.159
63.0	448.598	433.956	426.044
63.5	434.472	418.992	410.435
64.0	419.078	404.329	396.503
64.5	404.867	391.257	382.593
65.0	391.902	379.217	371.864
65.5	379.733	367.242	359.136
66.0	367.048	355.030	348.537
66.5	355.954	344.624	338.561
67.0	345.333	333.788	328.133
67.5	335.422	324.005	318.200
68.0	324.564	313.642	308.396

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68.5	314.266	304.440	300.140
69.0	304.978	294.443	290.960
69.5	295.647	286.058	282.295
70.0	286.144	277.178	274.491
70.5	277.673	269.675	267.374
71.0	269.417	262.042	260.150
71.5	261.182	255.549	253.765
72.0	254.152	249.529	249.508
72.5	248.261	244.262	245.853
73.0	242.993	239.467	241.252
73.5	236.952	234.458	237.919
74.0	231.792	230.803	232.888
74.5	226.159	226.954	231.211
75.0	222.031	224.460	229.620
75.5	217.430	221.579	227.599
76.0	214.549	219.924	226.675
76.5	211.969	218.462	226.610
77.0	210.507	218.784	228.094
77.5	207.733	220.010	228.223
78.0	207.475	219.752	229.599
78.5	206.379	219.322	229.405
79.0	206.142	220.160	229.792
79.5	204.444	221.257	232.394
80.0	204.315	221.085	230.609
80.5	204.229	219.988	230.394
81.0	202.315	218.182	229.534
81.5	200.273	216.398	226.718
82.0	198.682	214.140	222.203
82.5	195.908	209.776	217.215
83.0	191.888	203.691	209.776
83.5	187.029	196.080	200.853
84.0	180.385	185.911	189.458
84.5	172.452	177.848	178.687
85.0	163.852	167.550	168.797
85.5	154.714	158.305	159.423
86.0	145.964	150.049	150.715
86.5	137.256	142.395	144.437
87.0	130.613	136.224	137.686
87.5	122.593	129.989	133.408
88.0	118.960	127.022	130.914
88.5	114.337	123.324	127.581
89.0	111.908	121.174	124.657
89.5	109.263	119.734	124.335
90.0	108.511	120.443	125.560
90.5	108.704	123.948	130.075
91.0	112.080	126.592	133.623
91.5	115.262	131.666	137.170
92.0	119.046	135.601	141.857
92.5	121.819	139.320	145.125
93.0	126.334	142.911	150.436
93.5	130.054	147.340	153.596
94.0	133.859	151.145	157.402
94.5	136.461	153.768	160.412
95.0	138.654	156.778	163.379
95.5	142.352	159.186	164.561
96.0	145.555	161.315	166.367

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CANDELA TABULATION - (Cont.)

96.5	147.512	161.186	163.508
97.0	147.555	160.756	163.314
97.5	147.985	158.627	160.240
98.0	147.060	155.961	157.208
98.5	146.437	153.274	153.962
99.0	144.050	150.457	150.887
99.5	141.513	145.727	146.738
100.0	138.804	142.610	142.545
100.5	135.364	139.084	140.309
101.0	131.731	135.794	135.300
101.5	129.215	131.580	131.774
102.0	126.012	128.506	129.280
102.5	122.271	124.765	124.894
103.0	118.014	120.701	121.475
103.5	115.004	116.272	116.874
104.0	111.091	111.736	113.047
104.5	107.866	108.812	110.016
105.0	104.963	106.533	107.221
105.5	102.813	104.533	104.340
106.0	100.083	102.813	102.340
106.5	98.255	100.663	100.964
107.0	95.912	99.051	99.158
107.5	94.557	97.159	97.675
108.0	94.063	95.396	95.718
108.5	93.052	94.299	95.890
109.0	91.891	94.235	93.977
109.5	91.590	93.869	94.342
110.0	91.096	93.289	92.988
110.5	91.268	92.816	92.687
111.0	91.311	92.450	92.665
111.5	91.010	92.192	91.741
112.0	91.633	93.525	93.848
112.5	90.859	93.031	93.805
113.0	92.429	94.106	94.536
113.5	92.773	94.321	93.912
114.0	93.568	94.686	95.374
114.5	93.461	95.632	94.966
115.0	95.116	96.170	96.213
115.5	95.417	96.535	97.051
116.0	96.256	97.610	97.374
116.5	96.944	97.782	97.933
117.0	97.847	99.330	98.406
117.5	98.298	100.276	99.760
118.0	98.900	100.319	100.341
118.5	100.212	101.437	100.728
119.0	101.244	102.340	101.652
119.5	101.351	103.007	102.276
120.0	102.512	102.727	103.265
120.5	102.233	102.770	102.985
121.0	103.050	103.931	103.609
121.5	103.071	104.361	104.060
122.0	104.211	104.727	104.340
122.5	103.953	105.522	105.673
123.0	104.168	104.985	104.942
123.5	104.856	106.533	105.049
124.0	104.490	105.329	107.049

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CANDELA TABULATION - (Cont.)

124.5	104.598	105.286	104.404
125.0	103.738	105.565	105.028
125.5	103.243	104.684	105.286
126.0	102.964	104.619	104.211
126.5	102.770	103.867	103.888
127.0	102.039	104.060	103.157
127.5	101.867	102.254	103.394
128.0	100.599	102.061	102.620
128.5	99.502	101.115	102.383
129.0	99.051	100.513	100.577
129.5	97.718	98.986	99.717
130.0	97.137	98.083	99.825
130.5	94.987	97.288	97.288
131.0	93.611	95.632	96.514
131.5	92.278	94.966	94.536
132.0	90.945	93.697	93.418
132.5	89.397	91.891	91.203
133.0	88.322	90.408	90.558
133.5	86.903	88.860	89.139
134.0	84.646	87.226	87.505
134.5	83.184	85.527	86.258
135.0	82.238	84.538	84.108
135.5	78.862	82.345	83.098
136.0	78.260	80.539	80.711
136.5	75.508	79.163	79.120
137.0	74.369	77.185	78.755
137.5	72.455	75.315	76.390
138.0	70.542	73.552	73.982
138.5	68.650	72.240	72.111
139.0	66.779	70.434	71.681
139.5	64.844	68.435	69.854
140.0	63.877	66.887	67.962
140.5	61.856	64.586	65.210
141.0	59.813	62.350	64.414
141.5	58.394	61.426	62.286
142.0	56.631	59.512	59.878
142.5	55.298	59.340	58.867
143.0	52.976	56.545	57.556
143.5	52.181	54.180	55.879
144.0	49.708	52.654	53.471
144.5	49.407	52.181	52.202
145.0	47.709	50.031	51.235
145.5	46.655	49.493	49.515
146.0	45.645	48.633	48.612
146.5	43.581	46.526	46.935
147.0	42.011	45.064	46.333
147.5	41.216	44.312	45.086
148.0	39.840	42.527	42.850
148.5	39.539	41.818	41.517
149.0	37.819	40.227	40.528
149.5	37.625	39.689	40.743
150.0	36.744	38.141	39.560
150.5	35.626	36.808	37.819
151.0	34.744	36.120	37.238
151.5	33.046	34.916	36.679
152.0	33.132	34.830	34.981

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CANDELA TABULATION - (Cont.)

152.5	31.799	34.314	34.013
153.0	31.347	33.325	33.390
153.5	30.272	32.379	32.594
154.0	29.455	31.734	31.928
154.5	28.165	30.423	31.154
155.0	27.542	29.219	30.702
155.5	27.219	29.197	28.531
156.0	26.703	28.423	29.133
156.5	25.822	27.563	28.058
157.0	25.220	26.832	27.606
157.5	25.048	26.037	26.273
158.0	23.586	25.757	26.080
158.5	23.156	25.005	24.897
159.0	22.231	25.112	23.865
159.5	21.629	24.360	23.199
160.0	21.371	23.199	23.414
160.5	20.382	21.995	23.156
161.0	20.855	21.608	21.995
161.5	19.415	21.543	20.812
162.0	19.157	20.898	20.748
162.5	18.598	19.823	20.361
163.0	17.824	19.866	19.909
163.5	17.630	19.393	18.727
164.0	17.007	18.490	19.307
164.5	15.846	17.974	18.039
165.0	15.996	17.243	17.093
165.5	15.695	16.082	16.297
166.0	15.072	15.953	14.921
166.5	14.040	15.437	15.609
167.0	13.889	14.771	14.513
167.5	12.771	14.663	13.567
168.0	12.083	14.083	13.782
168.5	12.621	12.771	12.771
169.0	10.772	12.406	13.803
169.5	10.944	12.148	12.449
170.0	10.406	11.159	12.384
170.5	9.503	11.202	10.815
171.0	8.901	11.159	10.879
171.5	8.966	10.191	10.299
172.0	8.987	10.019	9.202
172.5	8.364	10.557	8.665
173.0	7.676	8.471	8.493
173.5	6.708	9.138	8.579
174.0	6.945	7.332	8.407
174.5	6.966	7.805	8.041
175.0	6.579	7.934	7.138
175.5	6.794	7.095	7.224
176.0	6.816	6.794	6.472
176.5	5.762	7.117	6.364
177.0	5.913	6.687	6.257
177.5	5.655	6.536	5.848
178.0	5.440	6.128	6.106
178.5	5.375	6.450	5.913
179.0	4.967	5.655	6.579
179.5	4.924	5.332	6.128
180.0	5.676	5.676	5.676

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	792.62	N.A.	13.90
0-30	1685.46	N.A.	29.60
0-40	2755.93	N.A.	48.50
0-60	4539.98	N.A.	79.80
0-80	5201.42	N.A.	91.40
0-90	5328.29	N.A.	93.70
10-90	5122.74	N.A.	90.10
20-40	1963.31	N.A.	34.50
20-50	3005.26	N.A.	52.80
40-70	2209.95	N.A.	38.90
60-80	661.44	N.A.	11.60
70-80	235.55	N.A.	4.10
80-90	126.87	N.A.	2.20
90-110	158.13	N.A.	2.80
90-120	222.85	N.A.	3.90
90-130	284.66	N.A.	5.00
90-150	346.27	N.A.	6.10
90-180	359.83	N.A.	6.30
110-180	201.70	N.A.	3.50
0-180	5688.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	205.55
10-20	587.07
20-30	892.84
30-40	1070.47
40-50	1041.95
50-60	742.11
60-70	425.89
70-80	235.55
80-90	126.87
90-100	83.74
100-110	74.39
110-120	64.72
120-130	61.81
130-140	41.09
140-150	20.52
150-160	9.36
160-170	3.49
170-180	0.70

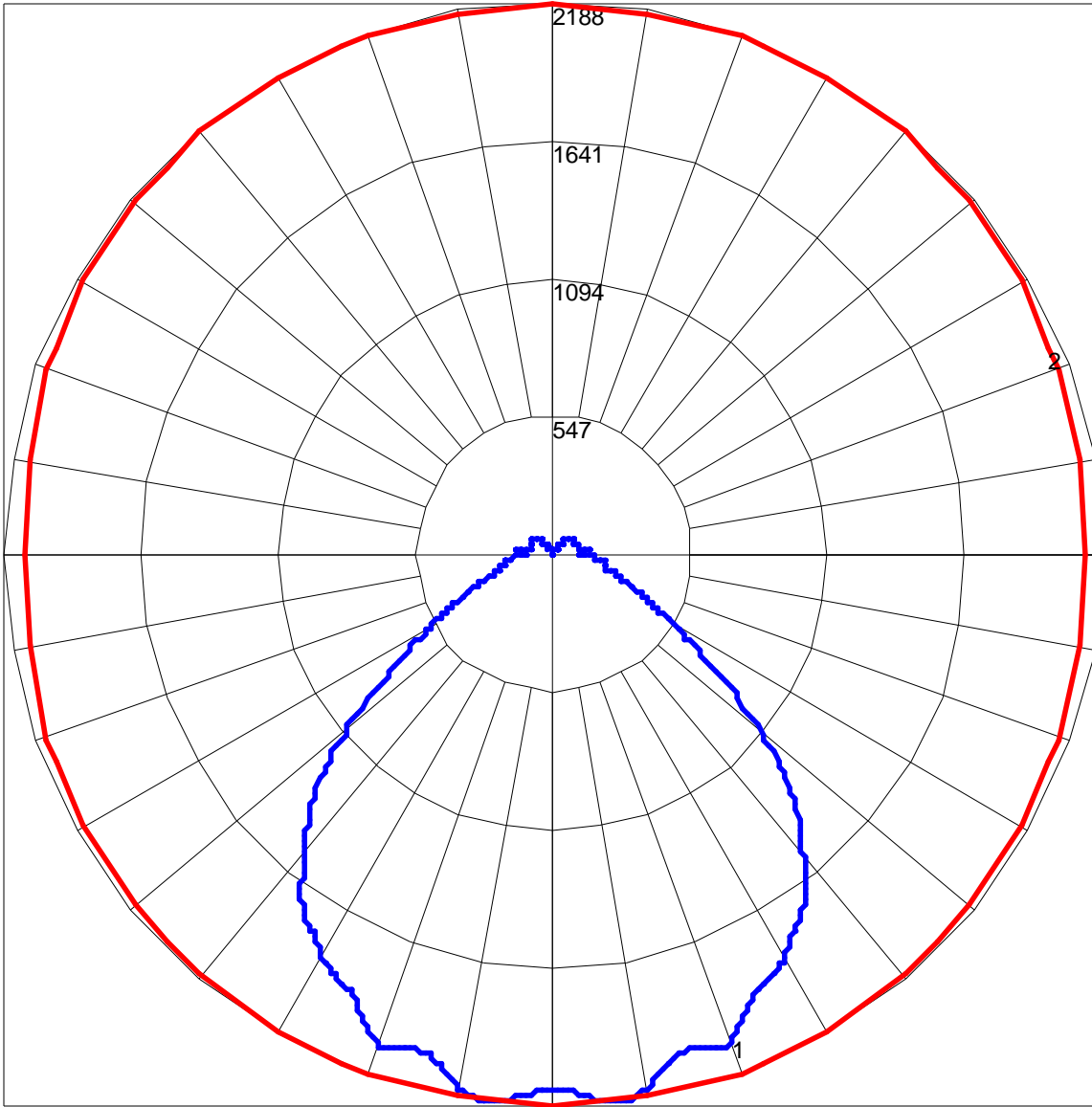
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	91	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 = 2187.733 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.)