



**IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL4-40L-50-8-N5-U-Y-GM.IES**

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 1231982
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 4/5/2016
 [MANUFAC] Eye Lighting International of North America
 [LUMCAT] FL4-40L-50-8-N5-U-Y-GM
 [LUMINAIRE] Formed aluminum housing/ heatsink, clear plastic lens, whi
 [MORE] te plastic reflector
 [LAMP] 10 white LEDs
 [BALLAST] Meanwell HLG-185H-C
 [OTHER] 25.6 C, 119.991 V, 3.24708 A, 387.471 W, 0.99448 PF, 59.9996 H
 [OTHER] This test was performed using the calibrated photodetector met
 [MORE] hod of absolute photometry.
 [OTHER] lumen values prorated based on test data

Note: Candela values converted from Type-C to Type-B

CHARACTERISTICS

NEMA Type	5 H x 5 V
Maximum Candela	51799.226
Maximum Candela Angle	-1H -5V
Horizontal Beam Angle (50%)	29.3
Vertical Beam Angle (50%)	30.8
Horizontal Field Angle (10%)	74.3
Vertical Field Angle (10%)	74.8
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	8095
Beam Efficiency	N.A.
Field Lumens	23378
Field Efficiency	N.A.
Spill Lumens	7747
Luminaire Lumens	31125
Total Efficiency	N.A.
Total Luminaire Watts	387.471
Ballast Factor	1.00



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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	.702	90	.857
85	222.455	85	212.949
75	640.023	75	674.714
65	1276.028	65	1296.509
55	2196.226	55	2206.418
47.5	3151.311	47.5	3116.473
42.5	3990.22	42.5	4112.031
37.5	5036.934	37.5	5116.801
33	8126.163	33	8367.139
29	12999.979	29	12605.146
25.5	17644.236	25.5	17363.375
22.5	20349.413	22.5	20782.121
19.5	22485.272	19.5	22725.17
17	24340.662	17	24475.408
15	26179.49	15	26287.287
13	28637.174	13	28633.255
11	32088.553	11	31992.32
9	37837.781	9	37784.572
7	46394.938	7	46405.227
5	51501.696	5	51678.972
3	51176.734	3	51188.594
1	50531.714	1	50358.943
0	50410.687	0	50410.687
-1	50531.714	-1	50433.132
-3	51176.734	-3	51147.825
-5	51501.696	-5	51773.835
-7	46394.938	-7	46951.959
-9	37837.781	-9	38197.632
-11	32088.553	-11	32247.114
-13	28637.174	-13	28753.497
-15	26179.49	-15	26339.716
-17	24340.662	-17	24485.403
-19.5	22485.272	-19.5	22590.766
-22.5	20349.413	-22.5	20641.936
-25.5	17644.236	-25.5	17382.925
-29	12999.979	-29	12526.944
-33	8126.163	-33	8309.811
-37.5	5036.934	-37.5	5076.182
-42.5	3990.22	-42.5	4160.932
-47.5	3151.311	-47.5	3151.066
-55	2196.226	-55	2232.877
-65	1276.028	-65	1297.979
-75	640.023	-75	679.516
-85	222.455	-85	224.709
-90	.702	-90	.887

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CANDELA TABULATION

Maximum Candela = 51799.226
 Beam Edge = 25899.613 Cd (50% of Max.)
 Field Edge = 5179.9226 Cd (10% of Max.)
 * Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	<u>-90.0</u>	<u>-85.0</u>	<u>-75.0</u>	<u>-65.0</u>	<u>-55.0</u>	<u>-47.5</u>	<u>-42.5</u>	<u>-37.5</u>	<u>-33.0</u>	<u>-29.0</u>
90.0	0.000	0.064	0.195	0.334	0.460	0.550	0.606	0.654	0.689	0.717
85.0	0.061	31.861	79.529	95.217	110.813	126.603	137.947	147.677	155.747	164.241
75.0	0.182	77.080	149.635	285.204	389.794	453.821	486.039	514.037	539.345	562.208
65.0	0.297	89.103	295.156	444.219	608.412	750.905	824.332	894.882	954.466	1012.012
55.0	0.403	106.634	393.712	600.895	897.202	1119.819	1281.101	1458.005	1603.706	1719.448
47.5	0.474	128.657	423.403	729.277	1114.177	1449.849	1688.957	1927.645	2138.699	2324.817
42.5	0.518	144.113	448.859	807.823	1270.054	1682.848	1972.211	2270.134	2547.035	2785.097
37.5	0.557	159.872	480.013	886.345	1440.051	1914.567	2266.936	2638.962	2984.010	3312.480
33.0	0.589	172.153	507.730	957.375	1589.065	2130.200	2547.846	2991.891	3432.873	3919.794
29.0	0.614	183.667	530.933	1016.286	1711.666	2320.423	2791.444	3329.978	3922.537	4484.840
25.5	0.633	192.582	552.614	1065.401	1811.738	2481.331	3006.641	3644.504	4364.196	4953.637
22.5	0.648	199.336	570.125	1106.230	1891.550	2608.137	3192.111	3941.318	4694.263	5618.231 *
19.5	0.662	205.253	586.314	1144.687	1962.160	2725.050	3346.518	4194.767	5017.370	6841.020 *
17.0	0.671	209.532	598.312	1174.933	2015.178	2814.478	3490.779	4369.404	5355.246	*8121.220 *
15.0	0.678	212.524	606.916	1197.387	2052.998	2881.376	3601.392	4499.803	5697.878	*9142.861 *
13.0	0.684	215.127	614.597	1217.980	2088.371	2941.744	3716.795	4620.336	6168.368	*10111.789 *
11.0	0.689	223.336	621.326	1235.827	2116.786	2995.154	3792.052	4723.547	6676.854	*10942.949 *
9.0	0.693	223.177	627.074	1249.580	2142.679	3038.149	3866.809	4813.789	7198.138	*11592.603 *
7.0	0.696	223.018	631.810	1260.419	2163.603	3074.647	3920.579	4901.007	7562.026	*12124.552 *
5.0	0.699	222.857	638.974	1268.446	2179.357	3105.671	3956.038	4957.086	7858.615	*12539.070 *
3.0	0.701	222.697	639.393	1276.877	2195.938	3131.193	3979.692	5006.828	8014.428	*12795.543 *
1.0	0.702	222.536	639.813	1276.311	2196.130	3147.005	3990.173	5033.352	8129.090	*12990.365 *
0.0	0.702	222.455	640.023	1276.028	2196.226	3151.311	3990.220	5036.934	8126.163	*12999.979 *
-1.0	0.702	222.455	639.839	1276.247	2196.734	3149.649	3990.048	5033.439	8147.796	*13017.015 *
-3.0	0.701	222.599	639.472	1276.686	2197.748	3138.786	3979.395	5007.652	8066.601	*12866.001 *
-5.0	0.699	222.695	639.105	1268.095	2182.285	3117.203	3957.503	4957.986	7919.698	*12590.296 *
-7.0	0.696	222.790	631.968	1259.884	2167.581	3085.902	3933.023	4901.829	7627.459	*12209.905 *
-9.0	0.693	222.885	627.256	1248.819	2146.935	3049.158	3895.820	4814.947	7253.364	*11706.942 *
-11.0	0.689	222.980	621.516	1234.883	2121.297	3005.944	3833.757	4724.110	6707.285	*11075.678 *
-13.0	0.684	214.707	614.776	1217.017	2093.216	2952.180	3765.916	4623.025	6191.013	*10270.843 *
-15.0	0.678	212.041	607.061	1196.550	2057.139	2892.202	3637.153	4509.599	5712.184	*9320.366 *
-17.0	0.671	208.986	598.399	1174.414	2018.013	2825.869	3517.739	4394.342	5360.245	*8180.029 *
-19.5	0.662	204.630	586.332	1144.876	1964.319	2738.111	3368.261	4245.255	5013.201	6813.953 *
-22.5	0.648	198.622	570.457	1107.570	1893.119	2622.166	3210.169	4019.372	4690.915	5586.799 *
-25.5	0.633	191.779	553.349	1067.202	1814.427	2493.046	3023.194	3699.821	4383.969	4945.398
-29.0	0.614	182.762	532.060	1018.079	1715.353	2329.379	2805.993	3350.862	4015.575	4492.244
-33.0	0.589	171.137	508.084	957.850	1594.621	2140.075	2558.785	3010.737	3482.934	4002.186
-37.5	0.557	158.737	479.463	887.370	1445.705	1925.832	2281.391	2662.782	3014.604	3365.203
-42.5	0.518	142.979	449.420	811.197	1273.150	1694.490	1991.087	2294.025	2579.470	2819.645
-47.5	0.474	127.553	424.708	732.660	1120.419	1464.914	1707.753	1951.646	2169.217	2360.095
-55.0	0.403	105.687	396.153	603.016	901.643	1131.799	1295.542	1477.383	1621.632	1741.701
-65.0	0.297	88.659	296.937	448.812	613.427	759.754	834.277	903.159	966.753	1027.005
-75.0	0.181	76.970	151.215	291.546	397.804	462.358	496.665	523.546	549.135	577.683
-85.0	0.061	31.856	79.541	96.060	112.594	132.838	146.550	159.663	168.772	177.392
-90.0	0.000	0.064	0.195	0.336	0.473	0.572	0.634	0.685	0.724	0.761

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CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	<u>-25.5</u>	<u>-22.5</u>	<u>-19.5</u>	<u>-17.0</u>	<u>-15.0</u>	<u>-13.0</u>	<u>-11.0</u>	<u>-9.0</u>	<u>-7.0</u>	<u>-5.0</u>
90.0	0.748	0.768	0.785	0.799	0.810	0.816	0.820	0.826	0.831	0.835
85.0	173.909	179.717	184.776	189.985	193.899	195.536	202.838	203.006	204.540	206.089
75.0	592.385	611.159	623.415	637.119	646.742	653.592	658.078	661.260	664.006	668.471
65.0	1070.926	1121.170	1160.876	1190.149	1210.461	1229.301	1246.123	1259.351	1270.759	1278.821
55.0	1817.244	1898.261	1972.305	2024.755	2064.945	2102.878	2130.559	2154.974	2174.493	2189.040
47.5	2484.020	2609.192	2718.293	2806.225	2870.935	2926.099	2975.646	3020.279	3056.825	3081.524
42.5	2985.583	3174.328	3349.290	3490.924	3606.794	3733.948	3826.210	3919.649	4004.062	4051.993
37.5	3616.790	3891.945	4119.899	4302.975	4444.732	4581.572	4703.298	4814.316	4921.488	4993.007
33.0	4300.501	4576.807	4888.023	5221.535	*5561.542	*6027.187	*6561.697	*7161.112	*7576.734	*7961.955 *
29.0	4911.687	5498.826	*6539.612	*7651.799	*8540.048	*9394.247	*10274.793	*11027.101	*11630.922	*12212.591 *
25.5	5950.239	*7704.375	*9758.343	*11269.814	*12515.225	*13762.317	*14882.153	*15765.468	*16452.790	*16921.969 *
22.5	7747.170	*10194.595	*12433.152	*14405.913	*15947.396	*17395.554	*18546.665	*19377.445	*19971.905	*20415.469 *
19.5	9886.256	*12560.033	*15238.249	*17378.099	*18840.225	*19897.053	*20618.262	*21224.978	*21761.380	*22157.284 *
17.0	11612.907	*14481.707	*17341.778	*19336.429	*20425.062	*21267.560	*22036.940	*22686.186	*23271.651	*23751.155 *
15.0	12800.674	*15926.274	*18688.245	*20389.267	*21469.691	*22294.110	*23124.691	*23915.739	*24679.325	*25338.009 *
13.0	13880.402	*17179.799	*19735.538	*21255.565	*22305.827	*23306.141	*24294.755	*25311.447	*26377.934	*27317.528 *
11.0	14881.971	*18234.566	*20569.121	*22027.979	*23161.099	*24295.045	*25633.160	*27016.761	*28474.179	*29951.353 *
9.0	15750.117	*19022.113	*21254.218	*22742.454	*23958.317	*25377.413	*27022.073	*288975.230	*31108.332	*33462.820 *
7.0	16447.831	*19606.374	*21762.098	*23342.589	*24741.680	*26452.888	*28555.668	*31130.226	*34588.911	*39024.570 *
5.0	16987.256	*20014.469	*22135.147	*23854.333	*25419.348	*27392.819	*30084.614	*33633.019	*39271.940	*46162.643 *
3.0	17396.296	*20211.149	*22354.201	*24162.134	*25934.624	*28196.618	*31230.898	*36058.764	*43525.120	*50071.657 *
1.0	17609.072	*20328.343	*22470.523	*24338.741	*26169.117	*28591.334	*32002.822	*37739.004	*46361.926	*51514.006 *
0.0	17644.236	*20349.413	*22485.272	*24340.662	*26179.490	*28637.174	*32088.553	*37837.781	*46394.938	*51501.696 *
-1.0	17578.936	*20319.344	*22475.637	*24373.446	*26208.999	*28646.071	*32096.148	*37879.758	*46485.149	*51602.815 *
-3.0	17340.202	*19855.722	*22381.858	*24225.508	*26005.400	*28307.395	*31504.544	*36496.223	*43964.118	*50483.857 *
-5.0	16973.405	*19983.803	*22153.898	*23919.999	*25562.441	*27602.854	*30409.768	*34137.054	*39900.587	*46820.713 *
-7.0	16392.782	*19551.276	*21807.541	*23469.039	*24925.338	*26687.782	*28839.458	*31636.529	*35301.611	*40028.135 *
-9.0	15662.004	*18946.805	*21275.148	*22856.771	*24154.826	*25624.689	*27374.302	*29377.729	*31703.849	*34346.291 *
-11.0	14771.146	*18031.310	*20534.958	*22157.399	*23351.295	*24565.842	*25918.550	*27450.150	*29024.669	*30518.737 *
-13.0	13767.173	*16876.578	*19622.032	*21376.728	*22490.130	*23545.774	*24614.337	*25774.917	*26854.590	*27717.538 *
-15.0	12754.820	*15605.613	*18575.801	*20535.015	*21652.038	*22543.051	*23424.125	*24282.539	*25016.060	*25626.930 *
-17.0	11680.170	*14313.209	*17348.085	*19438.434	*20618.605	*21485.787	*22283.083	*22950.267	*23486.276	*23931.874 *
-19.5	10053.079	*12667.269	*15273.578	*17489.975	*18977.119	*20040.490	*20770.795	*21334.582	*21794.932	*22156.138 *
-22.5	7804.312	*10356.575	*12492.449	*14433.808	*16031.650	*17461.970	*18574.403	*19356.320	*19898.765	*20284.408 *
-25.5	5948.669	*7777.886	*9857.889	*11290.800	*12536.725	*13798.423	*14904.329	*15785.829	*16443.481	*16986.204 *
-29.0	4915.671	5510.248	*6623.543	*7710.981	*8570.252	*9473.295	*10333.779	*1059.677	*11635.162	*12112.495 *
-33.0	4309.768	4608.840	4928.593	5264.378	*5597.546	*6059.846	*6618.039	*7261.581	*7664.304	*7998.407 *
-37.5	3714.193	3931.972	4141.403	4325.972	4467.091	4605.590	4733.822	4848.935	4951.887	5018.719
-42.5	3030.129	3225.174	3404.582	3565.152	3695.178	3824.171	3910.482	3992.372	4069.780	4122.878
-47.5	2521.722	2646.735	2754.712	2844.749	2912.097	2972.069	3025.244	3070.060	3107.096	3134.463
-55.0	1843.458	1926.246	2002.418	2060.103	2101.990	2140.651	2166.834	2189.637	2208.629	2223.334
-65.0	1088.850	1140.314	1181.368	1210.388	1228.734	1246.917	1266.254	1282.357	1293.276	1300.942
-75.0	605.601	626.043	640.624	651.119	658.833	666.732	673.688	679.016	682.489	688.635
-85.0	188.287	196.297	203.521	208.520	212.325	217.255	229.116	230.140	230.022	229.904
-90.0	0.792	0.819	0.842	0.855	0.865	0.875	0.883	0.888	0.890	0.891

Vert. Angles	Horizontal Angles									
	<u>-3.0</u>	<u>-1.0</u>	<u>0.0</u>	<u>1.0</u>	<u>3.0</u>	<u>5.0</u>	<u>7.0</u>	<u>9.0</u>	<u>11.0</u>	<u>13.0</u>
90.0	0.844	0.853	0.857	0.853	0.844	0.835	0.831	0.826	0.820	0.816
85.0	208.817	211.572	212.949	211.572	208.817	206.089	204.540	203.006	202.838	195.536
75.0	670.757	673.395	674.714	673.395	670.757	668.471	664.006	661.260	658.078	653.592
65.0	1290.217	1294.411	1296.509	1294.411	1290.217	1278.821	1270.759	1259.351	1246.123	1229.301

CANDELA TABULATION - (Cont.)

55.0	2205.127	2205.987	2206.418	2205.987	2205.127	2189.040	2174.493	2154.974	2130.559	2102.878
47.5	3099.662	3113.164	3116.473	3113.164	3099.662	3081.524	3056.825	3020.279	2975.646	2926.099
42.5	4088.439	4108.725	4112.031	4108.725	4088.439	4051.993	4004.062	3919.649	3826.210	3733.948
37.5	5052.675	5101.054	5116.801	5101.054	5052.675	4993.007	4921.488	4814.316	4703.298	4581.572
33.0	8211.738	*8359.800	*8367.139	*8359.800	*8211.738	*7961.955	*7576.734	*7161.112	*6561.697	*6027.187
29.0	12481.348	*2612.017	*2605.146	*2612.017	*2481.348	*2212.591	*1630.921	*1027.101	*0274.793	*394.246
25.5	17153.798	*7313.117	*7363.375	*7313.117	*7153.797	*6921.969	*6452.790	*5765.468	*4882.153	*3762.317
22.5	20617.190	*20732.690	*20782.121	*20732.690	*20617.190	*20415.469	*19971.905	*19377.445	*18546.665	*17395.554
19.5	22436.847	*22610.779	*22725.170	*22610.779	*22436.847	*22157.284	*21761.380	*21224.978	*20618.262	*19897.053
17.0	24108.875	*24332.441	*24475.408	*24332.441	*24108.875	*23751.155	*23271.651	*22686.186	*22036.940	*21267.560
15.0	25816.348	*26118.050	*26287.287	*26118.050	*25816.348	*25338.009	*24679.325	*23915.739	*23124.691	*22294.110
13.0	28040.988	*28451.762	*28633.255	*28451.762	*28040.988	*27317.528	*26377.934	*25311.447	*24294.755	*23306.141
11.0	31036.326	*31727.508	*31992.320	*31727.508	*31036.326	*29951.353	*28474.179	*27016.761	*25633.160	*24295.045
9.0	35805.651	*37347.474	*37784.572	*37347.474	*35805.651	*33462.820	*31108.332	*28975.230	*27022.073	*25377.413
7.0	43139.305	*45853.264	*46405.227	*45853.264	*43139.305	*39024.570	*34588.911	*31130.226	*28555.668	*26452.888
5.0	49966.495	*4951497.089	*51678.972	*4951497.089	*49966.495	*46162.643	*39271.940	*33633.019	*30084.614	*27392.819
3.0	51615.327	*51309.117	*51188.594	*51309.117	*51615.327	*50071.657	*43525.120	*36058.764	*31230.898	*28196.618
1.0	51317.118	*50624.635	*50358.943	*50624.635	*51317.118	*51514.007	*46361.926	*37739.004	*32002.822	*28591.334
0.0	51176.734	*50531.714	*50410.687	*50531.714	*51176.734	*51501.696	*46394.938	*37837.781	*32088.553	*28637.174
-1.0	51319.998	*50605.811	*50433.132	*50605.811	*51319.998	*51602.815	*46485.149	*37879.758	*32096.148	*28646.071
-3.0	51754.945	*51223.661	*51147.825	*51223.661	*51754.945	*50483.857	*43964.118	*36496.223	*31504.544	*28307.395
-5.0	50820.055	*799.226	*51773.835	*51799.226	*50820.055	*46820.713	*39900.587	*34137.054	*30409.768	*27602.854
-7.0	44261.741	*47072.243	*46951.959	*47072.243	*44261.741	*40028.135	*35301.611	*31636.529	*28839.458	*26687.782
-9.0	36666.801	*38272.749	*38197.632	*38272.749	*36666.801	*34346.291	*31703.849	*29377.729	*27374.302	*25624.689
-11.0	31623.060	*32350.152	*32247.114	*32350.152	*31623.060	*30518.737	*29024.669	*27450.150	*25918.550	*24565.842
-13.0	28400.801	*28832.285	*28753.497	*28832.285	*28400.801	*27717.538	*26854.590	*25774.917	*24614.337	*23545.774
-15.0	26091.631	*26385.996	*26339.716	*26385.996	*26091.631	*25626.930	*25016.060	*24282.539	*23424.125	*22543.051
-17.0	24292.758	*24492.503	*24485.403	*24492.503	*24292.758	*23931.874	*23486.276	*22950.267	*22283.083	*21485.787
-19.5	22436.607	*22576.678	*22590.766	*22576.678	*22436.607	*22156.138	*21794.932	*21334.582	*20770.795	*20040.490
-22.5	20519.107	*20640.416	*20641.936	*20640.416	*20519.107	*20284.408	*19898.765	*19356.320	*18574.403	*17461.970
-25.5	17319.553	*17419.890	*17382.925	*17419.890	*17319.553	*16986.204	*16443.481	*15785.829	*14904.329	*13798.423
-29.0	12451.420	*12565.459	*12526.944	*12565.459	*12451.420	*12112.495	*11635.162	*11059.677	*10333.779	*99473.295
-33.0	8257.503	*8341.615	*8309.811	*8341.615	*8257.503	*7998.407	*7664.304	*7261.581	*6618.039	*6059.846
-37.5	5071.334	5079.620	5076.182	5079.620	5071.334	5018.719	4951.887	4848.935	4733.822	4605.590
-42.5	4159.769	4163.311	4160.932	4163.311	4159.769	4122.878	4069.780	3992.372	3910.482	3824.171
-47.5	3150.591	3153.336	3151.066	3153.336	3150.591	3134.463	3107.096	3070.060	3025.244	2972.069
-55.0	2237.756	2234.504	2232.877	2234.504	2237.756	2223.334	2208.629	2189.637	2166.834	2140.651
-65.0	1305.763	1300.574	1297.979	1300.574	1305.763	1300.942	1293.276	1282.357	1266.254	1246.917
-75.0	685.116	681.383	679.516	681.383	685.116	688.635	682.489	679.016	673.688	666.732
-85.0	227.837	225.752	224.709	225.752	227.837	229.904	230.022	230.140	229.116	217.255
-90.0	0.890	0.888	0.887	0.888	0.890	0.891	0.890	0.888	0.883	0.875

Vert. Horizontal Angles

	<u>15.0</u>	<u>17.0</u>	<u>19.5</u>	<u>22.5</u>	<u>25.5</u>	<u>29.0</u>	<u>33.0</u>	<u>37.5</u>	<u>42.5</u>	<u>47.5</u>
90.0	0.810	0.799	0.785	0.768	0.748	0.717	0.689	0.654	0.606	0.550
85.0	193.899	189.985	184.776	179.717	173.909	164.241	155.747	147.677	137.947	126.603
75.0	646.742	637.119	623.415	611.159	592.385	562.208	539.345	514.037	486.039	453.821
65.0	1210.461	1190.149	1160.876	1121.170	1070.926	1012.012	954.466	894.882	824.332	750.905
55.0	2064.945	2024.755	1972.305	1898.261	1817.244	1719.448	1603.706	1458.005	1281.101	1119.819
47.5	2870.935	2806.225	2718.293	2609.192	2484.020	2324.817	2138.699	1927.645	1688.957	1449.849
42.5	3606.794	3490.924	3349.290	3174.328	2985.583	2785.097	2547.035	2270.134	1972.211	1682.848
37.5	4444.732	4302.975	4119.899	3891.945	3616.790	3312.480	2984.010	2638.962	2266.936	1914.567
33.0	5561.542	*5221.535	*4888.023	4576.807	4300.501	3919.794	3432.873	2991.891	2547.846	2130.200
29.0	8540.047	*7651.800	*6539.612	*5498.826	*4911.687	4484.840	3922.537	3329.978	2791.444	2320.423
25.5	12515.225	*1269.814	*9758.344	*7704.375	*5950.239	*4953.637	4364.196	3644.504	3006.641	2481.331

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

22.5	15947.396	14405.913	12433.152	10194.595	7747.170	5618.231	4694.263	3941.318	3192.111	2608.137
19.5	18840.225	17378.099	15238.249	12560.033	9886.256	6841.020	5017.370	4194.767	3346.518	2725.050
17.0	20425.062	19336.429	17341.778	14481.706	11612.907	8121.220	5355.246	4369.404	3490.779	2814.478
15.0	21469.691	20389.267	18688.245	15926.274	12800.674	9142.861	5697.878	4499.803	3601.392	2881.376
13.0	22305.827	21255.566	19735.538	17179.799	13880.402	10111.789	6168.368	4620.336	3716.795	2941.744
11.0	23161.099	22027.979	20569.122	18234.566	14881.971	10942.949	6676.854	4723.547	3792.052	2995.154
9.0	23958.317	22742.454	21254.218	19022.113	15750.117	11592.604	7198.138	4813.789	3866.809	3038.149
7.0	24741.680	23342.589	21762.098	19606.374	16447.831	12124.552	7562.026	4901.007	3920.579	3074.647
5.0	25419.348	23854.333	22135.147	20014.469	16987.256	12539.070	7858.616	4957.086	3956.038	3105.671
3.0	25934.624	24162.134	22354.201	20211.149	17396.296	12795.543	8014.428	5006.828	3979.692	3131.193
1.0	26169.117	24338.741	22470.523	20328.343	17609.072	12990.365	8129.090	5033.352	3990.173	3147.005
0.0	26179.490	24340.662	22485.272	20349.413	17644.236	12999.979	8126.163	5036.934	3990.220	3151.311
-1.0	26208.999	24373.447	22475.637	20319.344	17578.936	13017.015	8147.796	5033.439	3990.048	3149.649
-3.0	26005.400	24225.508	22381.858	20198.557	17340.202	12866.001	8066.602	5007.652	3979.395	3138.786
-5.0	25562.441	23919.999	22153.898	19983.803	16973.405	12590.296	7919.698	4957.986	3957.503	3117.203
-7.0	24925.338	23469.039	21807.541	19551.276	16392.783	12209.905	7627.458	4901.829	3933.023	3085.902
-9.0	24154.826	22856.771	21275.148	18946.806	15662.004	11706.942	7253.364	4814.947	3895.820	3049.158
-11.0	23351.295	22157.399	20534.958	18031.310	14771.146	11075.679	6707.285	4724.110	3833.757	3005.944
-13.0	22490.130	21376.728	19622.032	16876.578	13767.174	10270.843	6191.013	4623.025	3765.916	2952.180
-15.0	21652.038	20535.015	18575.801	15605.613	12754.820	9320.366	5712.184	4509.599	3637.153	2892.202
-17.0	20618.605	19438.434	17348.085	14313.209	11680.170	8180.029	5360.245	4394.342	3517.739	2825.869
-19.5	18977.119	17489.975	15273.578	12667.269	10053.079	6813.953	5013.201	4245.255	3368.261	2738.111
-22.5	16031.650	14433.408	12492.449	10356.575	7804.312	5586.799	4690.915	4019.372	3210.169	2622.166
-25.5	12536.725	11290.800	9857.889	7777.886	5948.669	4945.398	4383.969	3699.821	3023.194	2493.046
-29.0	8570.252	7710.981	6623.543	5510.248	4915.671	4492.244	4015.575	3350.862	2805.993	2329.379
-33.0	5597.546	5264.378	4928.593	4608.840	4309.768	4002.186	3482.934	3010.737	2558.785	2140.075
-37.5	4467.091	4325.972	4141.403	3931.972	3714.193	3365.203	3014.604	2662.782	2281.391	1925.832
-42.5	3695.178	3565.152	3404.582	3225.174	3030.129	2819.645	2579.470	2294.025	1991.087	1694.490
-47.5	2912.097	2844.749	2754.712	2646.735	2521.722	2360.095	2169.217	1951.646	1707.753	1464.914
-55.0	2101.990	2060.103	2002.418	1926.246	1843.458	1741.701	1621.632	1477.383	1295.542	1131.799
-65.0	1228.734	1210.388	1181.368	1140.314	1088.850	1027.005	966.753	903.159	834.277	759.754
-75.0	658.833	651.119	640.624	626.043	605.601	577.683	549.135	523.546	496.665	462.358
-85.0	212.325	208.520	203.521	196.297	188.287	177.392	168.772	159.663	146.550	132.838
-90.0	0.865	0.855	0.842	0.819	0.792	0.761	0.724	0.685	0.634	0.572

Vert. Angles **Horizontal Angles**

	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>	<u>85.0</u>	<u>90.0</u>
90.0	0.460	0.334	0.195	0.064	0.000
85.0	110.813	95.217	79.529	31.861	0.061
75.0	389.794	285.204	149.635	77.080	0.182
65.0	608.412	444.219	295.156	89.103	0.297
55.0	897.202	600.895	393.712	106.634	0.403
47.5	1114.177	729.277	423.403	128.657	0.474
42.5	1270.054	807.823	448.859	144.113	0.518
37.5	1440.051	886.345	480.013	159.872	0.557
33.0	1589.065	957.375	507.730	172.153	0.589
29.0	1711.666	1016.286	530.933	183.667	0.614
25.5	1811.738	1065.401	552.614	192.582	0.633
22.5	1891.550	1106.230	570.125	199.336	0.648
19.5	1962.160	1144.687	586.314	205.253	0.662
17.0	2015.178	1174.933	598.312	209.532	0.671
15.0	2052.998	1197.387	606.916	212.524	0.678
13.0	2088.371	1217.980	614.597	215.127	0.684
11.0	2116.786	1235.827	621.326	223.336	0.689
9.0	2142.679	1249.580	627.074	223.177	0.693

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

7.0	2163.603	1260.419	631.810	223.018	0.696
5.0	2179.357	1268.446	638.974	222.857	0.699
3.0	2195.938	1276.877	639.393	222.697	0.701
1.0	2196.130	1276.311	639.813	222.536	0.702
0.0	2196.226	1276.028	640.023	222.455	0.702
-1.0	2196.734	1276.247	639.839	222.455	0.702
-3.0	2197.748	1276.686	639.472	222.599	0.701
-5.0	2182.285	1268.095	639.105	222.695	0.699
-7.0	2167.581	1259.884	631.968	222.790	0.696
-9.0	2146.935	1248.819	627.256	222.885	0.693
-11.0	2121.297	1234.883	621.516	222.980	0.689
-13.0	2093.216	1217.017	614.776	214.707	0.684
-15.0	2057.139	1196.550	607.061	212.041	0.678
-17.0	2018.013	1174.414	598.399	208.986	0.671
-19.5	1964.319	1144.876	586.332	204.630	0.662
-22.5	1893.119	1107.570	570.457	198.622	0.648
-25.5	1814.427	1067.202	553.349	191.779	0.633
-29.0	1715.353	1018.079	532.060	182.762	0.614
-33.0	1594.621	957.850	508.084	171.137	0.589
-37.5	1445.705	887.370	479.463	158.737	0.557
-42.5	1273.150	811.197	449.420	142.979	0.518
-47.5	1120.419	732.660	424.708	127.553	0.474
-55.0	901.643	603.016	396.153	105.687	0.403
-65.0	613.427	448.812	296.937	88.659	0.297
-75.0	397.804	291.546	151.215	76.970	0.181
-85.0	112.594	96.060	79.541	31.856	0.061
-90.0	0.473	0.336	0.195	0.064	0.000

IES FLOOD REPORT
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LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 15562.3

Total Field Lumens (one side of beam only) = 11688.83

* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>1</u>	<u>3</u>	<u>5</u>	<u>7</u>	<u>9</u>	<u>11</u>	<u>13</u>	<u>15</u>	<u>17</u>
90	0.16	0.32	0.32	0.31	0.31	0.31	0.30	0.29	0.28	0.34
85	1.35	2.69	2.67	2.64	2.61	2.59	2.55	2.50	2.44	2.96
75	3.00	5.98	5.94	5.88	5.81	5.74	5.64	5.53	5.39	6.53
65	5.33	10.65	10.58	10.47	10.35	10.19	9.99	9.76	9.50	11.48
55	6.08	12.13	12.05	11.93	11.77	11.57	11.32	11.04	10.72	12.91
47.5	5.50	10.97	10.88	10.75	10.56	10.31	10.03	9.71	9.35	11.18
42.5	7.02	13.97	13.82	13.61	13.32	12.95	12.55	12.09	11.60	13.80
37.5	9.23 *	18.31 *	17.93 *	17.35 *	16.61 *	15.69 *	14.66 *	13.71	12.87	15.08
33	12.78 *	25.37 *	24.84 *	23.86 *	22.56 *	21.01 *	19.22 *	17.45 *	15.80 *	17.57 *
29	15.96 *	31.73 *	31.25 *	30.33 *	28.97 *	27.27 *	25.19 *	22.87 *	20.48 *	22.29 *
25.5	17.41 *	34.62 *	34.23 *	33.52 *	32.38 *	30.85 *	28.86 *	26.43 *	23.78 *	25.96 *
22.5	19.84 *	39.45 *	39.03 *	38.31 *	37.25 *	35.89 *	34.17 *	31.96 *	29.24 *	32.25 *
19.5	17.92 *	35.57 *	35.12 *	34.44 *	33.54 *	32.46 *	31.22 *	29.71 *	27.81 *	31.32 *
17	15.41 *	30.56 *	30.09 *	29.40 *	28.52 *	27.53 *	26.43 *	25.26 *	23.90 *	27.39 *
15	16.68 *	33.01 *	32.36 *	31.42 *	30.25 *	28.99 *	27.71 *	26.42 *	25.01 *	28.95 *
13	18.40 *	36.30 *	35.35 *	33.97 *	32.33 *	30.67 *	29.06 *	27.51 *	25.99 *	30.22 *
11	21.15 *	41.38 *	39.58 *	37.26 *	34.86 *	32.59 *	30.49 *	28.61 *	26.91 *	31.31 *
9	25.49 *	49.36 *	46.01 *	41.86 *	37.95 *	34.70 *	32.00 *	29.71 *	27.75 *	32.22 *
7	29.76 *	57.98 *	54.18 *	48.18 *	41.81 *	37.02 *	33.51 *	30.74 *	28.51 *	32.94 *
5	31.32 *	62.22 *	60.11 *	54.23 *	46.00 *	39.30 *	34.83 *	31.61 *	29.10 *	33.45 *
3	30.99 *	62.36 *	62.14 *	58.00 *	49.37 *	41.11 *	35.76 *	32.18 *	29.46 *	33.75 *
1	15.38 *	31.00 *	31.22 *	29.65 *	25.39 *	20.95 *	18.07 *	16.19 *	14.79 *	16.93 *
0	15.38 *	30.99 *	31.24 *	29.69 *	25.43 *	20.98 *	18.10 *	16.21 *	14.80 *	16.94 *
-1	30.98 *	62.38 *	62.34 *	58.33 *	49.72 *	41.39 *	35.92 *	32.26 *	29.52 *	33.79 *
-3	31.37 *	62.59 *	60.74 *	54.88 *	46.60 *	39.76 *	35.11 *	31.77 *	29.20 *	33.51 *

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL4-40L-50-8-N5-U-Y-GM.IES

LUMENS TABULATION - (Cont.)

-5	30.09 *	59.04 *	55.28 *	49.09 *	42.52 *	37.50 *	33.83 *	30.97 *	28.66 *	33.03 *
-7	25.97 *	50.62 *	47.19 *	42.83 *	38.62 *	35.17 *	32.33 *	29.97 *	27.94 *	32.33 *
-9	21.48 *	42.29 *	40.46 *	38.05 *	35.46 *	33.03 *	30.83 *	28.87 *	27.09 *	31.39 *
-11	18.61 *	36.90 *	35.93 *	34.57 *	32.91 *	31.12 *	29.39 *	27.77 *	26.17 *	30.26 *
-13	16.80 *	33.40 *	32.77 *	31.87 *	30.75 *	29.43 *	28.04 *	26.67 *	25.20 *	28.97 *
-15	15.49 *	30.83 *	30.37 *	29.71 *	28.88 *	27.88 *	26.74 *	25.51 *	24.08 *	27.44 *
-17	17.92 *	35.69 *	35.25 *	34.60 *	33.77 *	32.75 *	31.50 *	29.97 *	28.01 *	31.44 *
-19.5	19.75 *	39.35 *	38.92 *	38.23 *	37.28 *	36.01 *	34.34 *	32.15 *	29.40 *	32.37 *
-22.5	17.38 *	34.66 *	34.23 *	33.45 *	32.34 *	30.88 *	28.93 *	26.52 *	23.85 *	26.07 *
-25.5	15.96 *	31.83 *	31.30 *	30.31 *	28.99 *	27.34 *	25.29 *	22.95 *	20.55 *	22.45 *
-29	12.72 *	25.34 *	24.81 *	23.88 *	22.70 *	21.16 *	19.36 *	17.56 *	15.90 *	17.74 *
-33	9.19 *	18.32 *	18.01 *	17.47 *	16.78 *	15.84 *	14.76 *	13.79 *	12.95	15.18
-37.5	7.04	14.06	13.96	13.76	13.47	13.11	12.72	12.26	11.75	13.95
-42.5	5.57	11.13	11.07	10.93	10.74	10.50	10.23	9.90	9.53	11.36
-47.5	6.15	12.30	12.24	12.13	11.96	11.76	11.51	11.22	10.89	13.10
-55	5.38	10.77	10.74	10.64	10.52	10.36	10.16	9.93	9.66	11.67
-65	3.02	6.05	6.05	6.01	5.94	5.85	5.74	5.62	5.49	6.66
-75	1.38	2.77	2.78	2.77	2.75	2.72	2.66	2.59	2.53	3.08
-85	0.17	0.35	0.35	0.35	0.35	0.35	0.33	0.32	0.31	0.37
-90										
Total	653.97	1297.55	1265.72	1200.9	1110.98	1024.55	951.42	886.04	824.13	943.95

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.39	0.37	0.40	0.42	0.43	0.42	0.36	0.43	0.39	0.23
85	3.41	3.25	3.54	3.71	3.80	3.75	3.24	3.86	3.35	1.59
75	7.50	7.09	7.67	8.01	8.12	7.93	6.77	7.87	6.57	3.05
65	13.12	12.33	13.31	13.81	13.74	13.00	10.70	12.06	9.70	4.51
55	14.71	13.79	14.83	15.25	14.96	13.90	11.18	12.27	9.53	4.19
47.5	12.64	11.74	12.53	12.79	12.43	11.46	9.14	9.85	7.46	3.13

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL4-40L-50-8-N5-U-Y-GM.IES

LUMENS TABULATION - (Cont.)

42.5	15.50	14.26	15.04	15.18	14.61	13.34	10.55	11.27	8.37	3.41
37.5	16.77	15.39	16.15	16.03	15.17	13.71	10.73	11.37	8.34	3.31
33	18.34 *	16.10	16.70	16.46	15.31	13.60	10.54	11.08	8.02	3.13
29	22.02 *	17.58 *	16.83	16.20	14.94	13.04	9.99	10.41	7.46	2.88
25.5	25.65 *	19.78 *	17.25 *	15.37	13.97	12.06	9.12	9.42	6.70	2.57
22.5	32.26 *	25.29 *	21.39 *	17.36 *	14.98	12.84	9.59	9.85	6.96	2.66
19.5	31.79 *	25.32 *	21.60 *	16.53 *	13.25	11.23	8.33	8.50	5.99	2.28
17	28.34 *	22.88 *	19.75 *	14.78 *	11.15	9.31	6.88	6.98	4.90	1.86
15	30.51 *	24.95 *	21.77 *	16.25 *	11.74 *	9.59	7.07	7.12	4.99	1.89
13	32.30 *	26.79 *	23.61 *	17.70 *	12.42 *	9.83	7.24	7.25	5.06	1.92
11	33.73 *	28.34 *	25.19 *	19.01 *	13.10 *	10.03	7.37	7.35	5.13	1.94
9	34.82 *	29.56 *	26.50 *	20.09 *	13.70 *	10.21	7.48	7.44	5.18	1.96
7	35.62 *	30.49 *	27.53 *	20.93 *	14.15 *	10.34	7.57	7.52	5.23	1.98
5	36.13 *	31.14 *	28.30 *	21.51 *	14.46 *	10.44	7.63	7.58	5.26	1.99
3	36.41 *	31.53 *	28.81 *	21.89 *	14.65 *	10.50	7.67	7.62	5.28	1.99
1	18.26 *	15.85 *	14.51 *	11.03 *	7.37 *	5.26	3.84	3.82	2.64	1.00
0	18.26 *	15.84 *	14.51 *	11.04 *	7.37 *	5.26	3.84	3.82	2.64	1.00
-1	36.42 *	31.49 *	28.81 *	21.98 *	14.69 *	10.50	7.68	7.63	5.28	1.99
-3	36.13 *	31.09 *	28.32 *	21.64 *	14.52 *	10.44	7.64	7.60	5.27	1.99
-5	35.61 *	30.43 *	27.56 *	21.07 *	14.22 *	10.35	7.59	7.54	5.23	1.98
-7	34.80 *	29.45 *	26.52 *	20.26 *	13.76 *	10.23	7.52	7.47	5.19	1.96
-9	33.61 *	28.14 *	25.22 *	19.18 *	13.15 *	10.07	7.42	7.38	5.14	1.94
-11	32.02 *	26.48 *	23.64 *	17.88 *	12.45 *	9.88	7.30	7.27	5.07	1.92
-13	30.15 *	24.63 *	21.85 *	16.44 *	11.77 *	9.64	7.13	7.14	4.99	1.89
-15	28.08 *	22.69 *	19.87 *	14.92 *	11.18	9.37	6.93	7.00	4.90	1.86
-17	31.78 *	25.41 *	21.75 *	16.56 *	13.30	11.32	8.38	8.53	5.99	2.28
-19.5	32.49 *	25.59 *	21.51 *	17.31 *	15.08	12.98	9.64	9.88	6.97	2.66
-22.5	25.90 *	19.96 *	17.26 *	15.36	14.10	12.21	9.16	9.46	6.71	2.57

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL4-40L-50-8-N5-U-Y-GM.IES

LUMENS TABULATION - (Cont.)

-25.5	22.22 *	17.64 *	16.83	16.30	15.13	13.14	10.03	10.44	7.47	2.89
-29	18.49 *	16.15	16.79	16.70	15.51	13.68	10.59	11.12	8.04	3.14
-33	16.90	15.56	16.41	16.29	15.32	13.80	10.79	11.42	8.36	3.32
-37.5	15.68	14.51	15.32	15.37	14.76	13.46	10.62	11.32	8.40	3.42
-42.5	12.83	11.92	12.71	12.96	12.58	11.58	9.23	9.92	7.49	3.14
-47.5	14.92	13.99	15.05	15.45	15.15	14.07	11.30	12.38	9.58	4.21
-55	13.33	12.52	13.51	13.98	13.90	13.15	10.82	12.17	9.76	4.54
-65	7.65	7.22	7.82	8.15	8.23	8.04	6.87	7.98	6.66	3.09
-75	3.55	3.37	3.67	3.85	3.92	3.87	3.33	3.95	3.42	1.61
-85	0.43	0.40	0.44	0.45	0.46	0.45	0.38	0.44	0.40	0.23
-90										
Total	1001.49	848.28	788.56	663.44	538.98	453.26	347.19	362.77	265.49	107.11

Vert. Angles	Horizontal Angles			Total
	75	85	90	
90	0.07	0.00		6.84
85	0.45	0.02		58.94
75	0.81	0.03		126.86
65	1.17	0.03		215.79
55	1.04	0.03		237.21
47.5	0.76	0.02		203.17
42.5	0.81	0.03		247.08
37.5	0.78	0.02		279.21
33	0.74	0.02		330.50
29	0.67	0.02		388.39
25.5	0.60	0.02		420.56
22.5	0.62	0.02		491.20
19.5	0.53	0.02		454.46
17	0.43	0.01		391.76
15	0.44	0.01		417.13

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL4-40L-50-8-N5-U-Y-GM.IES

LUMENS TABULATION - (Cont.)

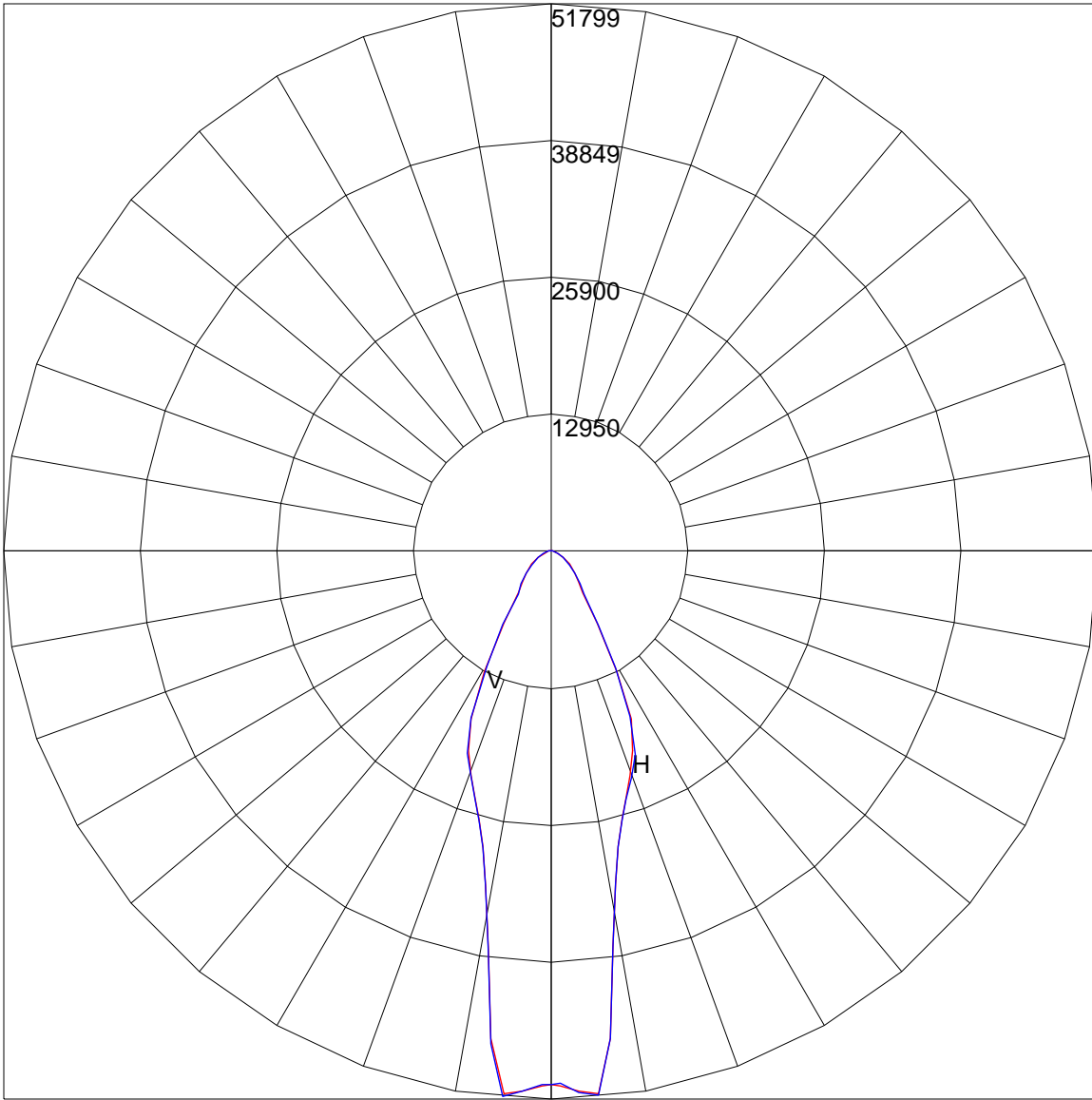
13	0.44	0.01	444.36
11	0.45	0.01	475.79
9	0.45	0.01	514.47
7	0.45	0.01	556.45
5	0.46	0.01	587.08
3	0.46	0.01	601.96
1	0.23	0.01	303.38
0	0.23	0.01	303.57
-1	0.46	0.01	603.57
-3	0.46	0.01	590.63
-5	0.45	0.01	562.06
-7	0.45	0.01	520.57
-9	0.45	0.01	480.66
-11	0.44	0.01	447.99
-13	0.44	0.01	419.98
-15	0.43	0.01	394.15
-17	0.53	0.02	456.74
-19.5	0.62	0.02	492.57
-22.5	0.60	0.02	421.63
-25.5	0.67	0.02	389.80
-29	0.74	0.02	332.10
-33	0.78	0.02	281.25
-37.5	0.81	0.03	249.77
-42.5	0.76	0.02	206.10
-47.5	1.04	0.03	240.44
-55	1.17	0.03	218.73
-65	0.81	0.03	128.96
-75	0.45	0.02	61.04

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL4-40L-50-8-N5-U-Y-GM.IES

LUMENS TABULATION - (Cont.)

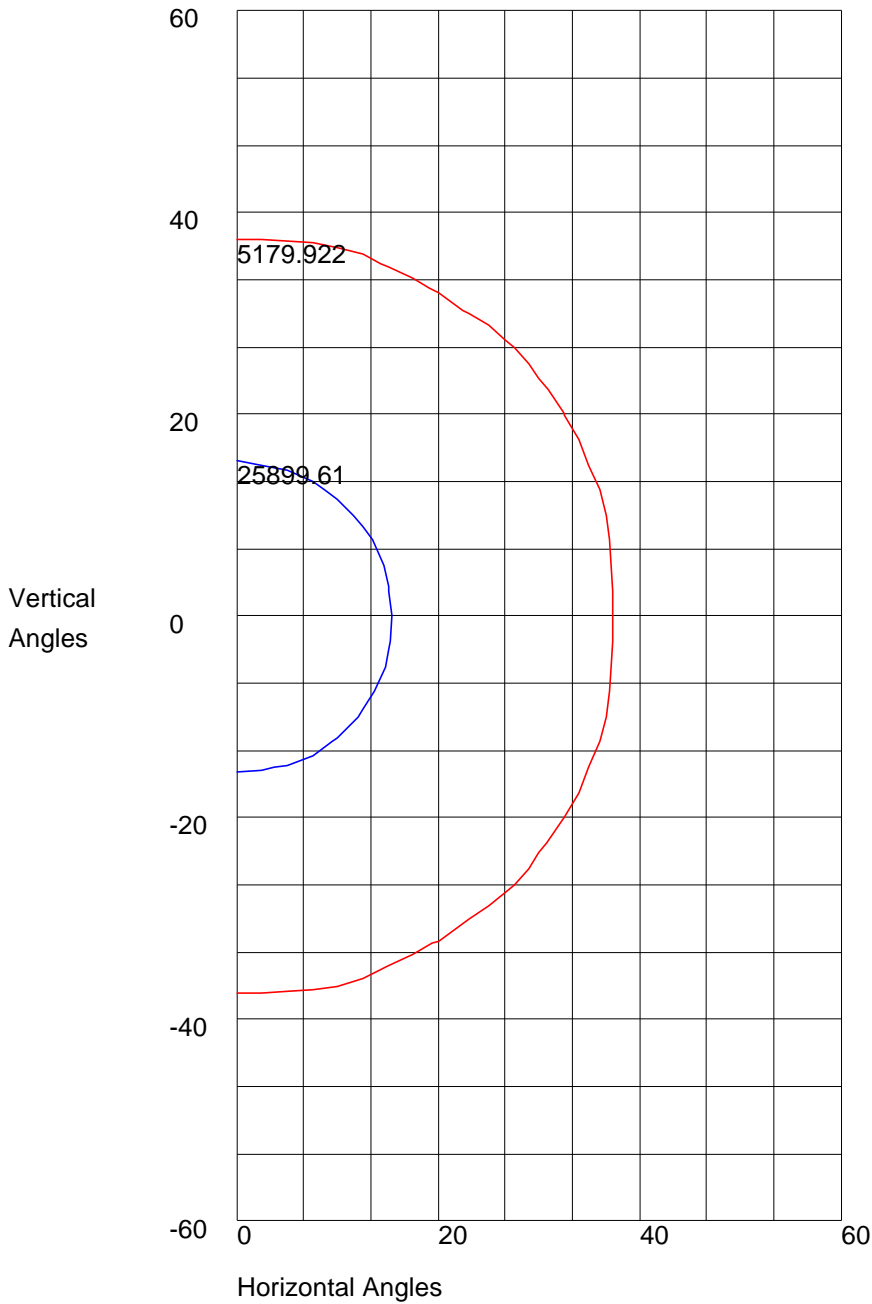
-85	0.07	0.00	7.40
-90			
Total	25.70	0.82	15562.31

AXIAL CANDELA DISPLAY



Maximum Candela = 51799.226 Located At Horizontal Angle =-1, Vertical Angle =-5
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 51799.226 Located At Horizontal Angle =-1, Vertical Angle =-5
50% Maximum Candela = 25899.613
10% Maximum Candela = 5179.9226