



**IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL4-40L-40-8-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-40-8-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.

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

CHARACTERISTICS

NEMA Type	5 H x 5 V
Maximum Candela	52857.609
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	8260
Beam Efficiency	N.A.
Field Lumens	23855
Field Efficiency	N.A.
Spill Lumens	7905
Luminaire Lumens	31761
Total Efficiency	N.A.
Total Luminaire Watts	387.471
Ballast Factor	1.00



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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	.716	90	.874
85	227	85	217.3
75	653.1	75	688.5
65	1302.1	65	1323
55	2241.1	55	2251.5
47.5	3215.7	47.5	3180.15
42.5	4071.75	42.5	4196.05
37.5	5139.85	37.5	5221.35
33	8292.2	33	8538.1
29	13265.6	29	12862.7
25.5	18004.75	25.5	17718.151
22.5	20765.2	22.5	21206.75
19.5	22944.701	19.5	23189.5
17	24838	17	24975.5
15	26714.4	15	26824.4
13	29222.301	13	29218.301
11	32744.199	11	32646
9	38610.898	9	38556.602
7	47342.898	7	47353.398
5	52554	5	52734.898
3	52222.398	3	52234.5
1	51564.199	1	51387.898
0	51440.699	0	51440.699
-1	51564.199	-1	51463.602
-3	52222.398	-3	52192.898
-5	52554	-5	52831.699
-7	47342.898	-7	47911.301
-9	38610.898	-9	38978.102
-11	32744.199	-11	32906
-13	29222.301	-13	29341
-15	26714.4	-15	26877.9
-17	24838	-17	24985.699
-19.5	22944.701	-19.5	23052.35
-22.5	20765.2	-22.5	21063.7
-25.5	18004.75	-25.5	17738.101
-29	13265.6	-29	12782.9
-33	8292.2	-33	8479.6
-37.5	5139.85	-37.5	5179.9
-42.5	4071.75	-42.5	4245.95
-47.5	3215.7	-47.5	3215.45
-55	2241.1	-55	2278.5
-65	1302.1	-65	1324.5
-75	653.1	-75	693.4
-85	227	-85	229.3
-90	.716	-90	.905

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CANDELA TABULATION

Maximum Candela = 52857.609
 Beam Edge = 26428.8045 Cd (50% of Max.)
 Field Edge = 5285.7609 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	0.065	0.199	0.341	0.469	0.561	0.619	0.667	0.703	0.731
85.0	0.062	32.512	81.154	97.162	113.078	129.191	140.766	150.694	158.929	167.597
75.0	0.185	78.656	152.693	291.031	397.759	463.094	495.970	524.540	550.365	573.695
65.0	0.303	90.923	301.187	453.295	620.843	766.248	841.175	913.166	973.968	1032.689
55.0	0.411	108.813	401.757	613.172	915.534	1142.699	1307.276	1487.795	1636.474	1754.581
47.5	0.484	131.286	432.054	744.178	1136.942	1479.472	1723.467	1967.031	2182.398	2372.319
42.5	0.528	147.058	458.031	824.329	1296.004	1717.232	2012.509	2316.518	2599.077	2842.003
37.5	0.568	163.139	489.821	904.455	1469.474	1953.686	2313.255	2692.882	3044.981	3380.162
33.0	0.601	175.670	518.105	976.936	1621.533	2173.725	2599.905	3053.023	3503.015	3999.885
29.0	0.627	187.419	541.781	1037.052	1746.639	2367.835	2848.480	3398.018	4002.684	4576.476
25.5	0.646	196.517	563.905	1087.170	1848.756	2532.031	3068.074	3718.970	4453.367	5054.851
22.5	0.662	203.409	581.774	1128.833	1930.199	2661.428	3257.333	4021.848	4790.178	5733.024 *
19.5	0.675	209.447	598.294	1168.076	2002.252	2780.729	3414.895	4280.476	5119.888	6980.798 *
17.0	0.685	213.813	610.537	1198.940	2056.353	2871.984	3562.105	4458.682	5464.667	*8287.156 *
15.0	0.692	216.866	619.317	1221.852	2094.946	2940.249	3674.977	4591.745	5814.299	*9329.671 *
13.0	0.698	219.522	627.155	1242.866	2131.042	3001.850	3792.738	4714.741	6294.403	*10318.397 *
11.0	0.703	227.899	634.022	1261.077	2160.037	3056.352	3869.533	4820.061	6813.278	*11166.539 *
9.0	0.707	227.737	639.887	1275.111	2186.460	3100.226	3945.817	4912.147	7345.213	*11829.468 *
7.0	0.711	227.574	644.719	1286.172	2207.810	3137.470	4000.686	5001.147	7716.536	*12372.286 *
5.0	0.713	227.411	652.030	1294.364	2223.887	3169.128	4036.869	5058.371	8019.186	*12795.273 *
3.0	0.715	227.247	652.457	1302.967	2240.806	3195.171	4061.006	5109.129	8178.182	*13056.987 *
1.0	0.716	227.082	652.886	1302.389	2241.002	3211.306	4071.702	5136.195	8295.186	*13255.790 *
0.0	0.716	227.000	653.100	1302.100	2241.100	3215.700	4071.750	5139.850	8292.200	*13265.600 *
-1.0	0.716	227.000	652.912	1302.324	2241.618	3214.004	4071.575	5136.284	8314.275	*13282.984 *
-3.0	0.715	227.147	652.538	1302.771	2242.653	3202.919	4060.704	5109.970	8231.422	*13128.884 *
-5.0	0.713	227.245	652.164	1294.005	2226.875	3180.895	4038.364	5059.290	8081.517	*12847.546 *
-7.0	0.711	227.342	644.881	1285.626	2211.870	3148.954	4013.384	5001.986	7783.306	*12459.383 *
-9.0	0.707	227.439	640.072	1274.335	2190.802	3111.460	3975.422	4913.328	7401.568	*11946.143 *
-11.0	0.703	227.536	634.215	1260.114	2164.640	3067.363	3912.090	4820.635	6844.331	*11301.981 *
-13.0	0.698	219.094	627.337	1241.883	2135.985	3012.500	3842.862	4717.485	6317.511	*10480.701 *
-15.0	0.692	216.373	619.465	1220.998	2099.171	2951.297	3711.469	4601.741	5828.898	*9510.804 *
-17.0	0.685	213.256	610.625	1198.410	2059.246	2883.608	3589.614	4484.129	5469.768	*8347.166 *
-19.5	0.675	208.811	598.312	1168.268	2004.455	2794.057	3437.083	4331.995	5115.633	6953.179 *
-22.5	0.662	202.681	582.112	1130.200	1931.800	2675.743	3275.760	4101.497	4786.761	5700.951 *
-25.5	0.646	195.697	564.655	1089.008	1851.501	2543.985	3084.965	3775.417	4473.544	5046.444
-29.0	0.627	186.497	542.931	1038.881	1750.402	2376.974	2863.326	3419.329	4097.623	4584.031
-33.0	0.601	174.634	518.465	977.421	1627.203	2183.802	2611.066	3072.254	3554.099	4083.960
-37.5	0.568	161.980	489.260	905.502	1475.244	1965.182	2328.006	2717.189	3076.200	3433.962
-42.5	0.528	145.900	458.603	827.771	1299.163	1729.113	2031.769	2340.897	2632.175	2877.257
-47.5	0.484	130.160	433.386	747.630	1143.312	1494.846	1742.647	1991.522	2213.539	2408.318
-55.0	0.411	107.847	404.247	615.337	920.066	1154.924	1322.014	1507.570	1654.766	1777.288
-65.0	0.303	90.470	303.005	457.982	625.960	775.277	851.324	921.612	986.506	1047.989
-75.0	0.185	78.543	154.305	297.503	405.933	471.805	506.813	534.244	560.355	589.487
-85.0	0.062	32.507	81.167	98.023	114.895	135.553	149.545	162.925	172.221	181.016
-90.0	0.000	0.065	0.199	0.343	0.483	0.584	0.647	0.699	0.739	0.777

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	0.763	0.783	0.801	0.816	0.826	0.832	0.837	0.842	0.847	0.852
85.0	177.462	183.389	188.551	193.867	197.860	199.532	206.983	207.154	208.719	210.300
75.0	604.489	623.647	636.153	650.137	659.957	666.946	671.524	674.771	677.573	682.130
65.0	1092.807	1144.078	1184.596	1214.467	1235.194	1254.419	1271.585	1285.083	1296.724	1304.951
55.0	1854.375	1937.046	2012.604	2066.125	2107.136	2145.845	2174.092	2199.005	2218.922	2233.767
47.5	2534.774	2662.504	2773.834	2863.563	2929.596	2985.887	3036.445	3081.990	3119.283	3144.487
42.5	3046.586	3239.187	3417.724	3562.252	3680.490	3810.242	3904.388	3999.737	4085.875	4134.785
37.5	3690.689	3971.467	4204.078	4390.895	4535.549	4675.185	4799.398	4912.684	5022.045	5095.027
33.0	4388.370	4670.322	4987.897	5328.223	*5675.178	*6150.337	*6695.768	*7307.431	*7731.545	*8124.637 *
29.0	5012.044	5611.179	*6673.232	*7808.144	*8714.541	*9586.194	*10484.732	*11252.411	*11868.569	*12462.123 *
25.5	6071.817	*7861.794	*9957.730	*11500.083	*12770.941	*14043.515	*15186.231	*16087.594	*16788.960	*17267.726 *
22.5	7905.464	*10402.895	*12687.192	*14700.260	*16273.240	*17750.987	*18925.618	*19773.372	*20379.979	*20832.606 *
19.5	10088.256	*12816.665	*15549.603	*17733.176	*19225.176	*20303.597	*21039.543	*21658.656	*22206.017	*22610.011 *
17.0	11850.186	*14777.603	*17696.112	*19731.519	*20842.395	*21702.107	*22487.208	*23149.720	*23747.146	*24236.448 *
15.0	13062.223	*16251.686	*19070.090	*20805.869	*21908.369	*22749.633	*23597.184	*24404.395	*25183.583	*25855.725 *
13.0	14164.012	*17530.823	*20138.782	*21689.868	*22761.589	*23782.341	*24791.155	*25828.620	*26916.899	*27875.691 *
11.0	15186.045	*18607.142	*20989.398	*22478.064	*23634.336	*24791.451	*256156.908	*27568.779	*29055.975	*30563.332 *
9.0	16071.930	*19410.781	*21688.493	*23207.137	*24447.843	*25895.935	*27574.199	*29567.264	*31743.950	*34146.546 *
7.0	16783.892	*20006.979	*22206.750	*23819.534	*25247.212	*26993.384	*29139.130	*31766.292	*35295.645	*39821.936 *
5.0	17334.346	*20423.412	*22587.421	*24341.734	*25938.726	*27952.520	*30699.315	*34320.222	*40074.360	*47105.857 *
3.0	17751.744	*20624.112	*22810.952	*24655.825	*26464.531	*28772.743	*31869.021	*36795.531	*44414.443	*51094.742 *
1.0	17968.868	*20743.700	*22929.650	*24836.040	*26703.816	*29175.524	*32656.716	*38510.103	*47309.212	*52566.562 *
0.0	18004.750	*20765.200	*22944.701	*24838.000	*26714.400	*29222.301	*32744.199	*38610.898	*47342.898	*52554.000 *
-1.0	17938.116	*20734.517	*22934.868	*24871.455	*26744.512	*29231.379	*32751.950	*38653.733	*47434.952	*52657.185 *
-3.0	17694.504	*20611.262	*22839.174	*24720.494	*26536.753	*28885.784	*32148.258	*37241.929	*44862.411	*51515.364 *
-5.0	17320.213	*20392.120	*22606.555	*24408.743	*26084.743	*28166.847	*31031.113	*34834.556	*40715.853	*47777.374 *
-7.0	16727.726	*19950.756	*22253.121	*23948.568	*25434.623	*27233.077	*29428.717	*32282.940	*36022.908	*40846.006 *
-9.0	15982.017	*19333.934	*21709.850	*23323.790	*24648.368	*26148.262	*27933.625	*29977.987	*32351.635	*35048.069 *
-11.0	15072.956	*18399.733	*20954.537	*22610.128	*23828.419	*25067.781	*26448.128	*28011.023	*29617.713	*31142.308 *
-13.0	14048.470	*17221.407	*20022.957	*21813.506	*22949.658	*24026.871	*25117.267	*26301.561	*27403.294	*28283.875 *
-15.0	13015.432	*15924.474	*18955.349	*20954.595	*22094.442	*23003.660	*23902.736	*24778.690	*25527.198	*26150.550 *
-17.0	11918.824	*14605.662	*17702.548	*19835.609	*21039.893	*21924.793	*22738.379	*23419.196	*23966.157	*24420.860 *
-19.5	10258.488	*12926.092	*15585.654	*17847.337	*19364.868	*20449.966	*21195.193	*21770.499	*22240.255	*22608.842 *
-22.5	7963.773	*10568.185	*12747.700	*14728.318	*16359.215	*17481.760	*18953.922	*19751.817	*20305.345	*20698.868 *
-25.5	6070.215	*7936.807	*10059.310	*11521.499	*12792.881	*14080.358	*15208.860	*16108.372	*16779.461	*17333.273 *
-29.0	5016.110	5622.836	*6758.877	*7868.535	*8745.363	*9666.857	*10544.923	*11285.653	*11872.896	*12359.982 *
-33.0	4397.827	4703.010	5029.297	5371.942	*5711.916	*6183.663	*6753.262	*7409.953	*7820.904	*8161.833 *
-37.5	3790.083	4012.312	4226.022	4414.362	4558.364	4699.693	4830.545	4948.010	5053.066	5121.264
-42.5	3092.042	3291.073	3474.146	3637.996	3770.679	3902.308	3990.383	4073.946	4152.936	4207.118
-47.5	2573.247	2700.814	2810.998	2902.874	2971.598	3032.795	3087.057	3132.789	3170.581	3198.507
-55.0	1881.124	1965.604	2043.332	2102.196	2144.939	2184.390	2211.107	2234.376	2253.757	2268.762
-65.0	1111.098	1163.613	1205.506	1235.119	1253.840	1272.394	1292.127	1308.558	1319.701	1327.523
-75.0	617.975	638.834	653.714	664.422	672.294	680.354	687.453	692.889	696.434	702.705
-85.0	192.135	200.308	207.679	212.781	216.663	221.694	233.797	234.842	234.722	234.601
-90.0	0.809	0.835	0.859	0.873	0.883	0.893	0.901	0.907	0.908	0.909

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	0.861	0.870	0.874	0.870	0.861	0.852	0.847	0.842	0.837	0.832
85.0	213.084	215.895	217.300	215.895	213.084	210.300	208.719	207.154	206.983	199.532
75.0	684.463	687.154	688.500	687.154	684.463	682.130	677.573	674.771	671.524	666.946
65.0	1316.580	1320.860	1323.000	1320.859	1316.580	1304.951	1296.724	1285.083	1271.585	1254.419

CANDELA TABULATION - (Cont.)

55.0	2250.182	2251.061	2251.500	2251.061	2250.182	2233.767	2218.922	2199.005	2174.092	2145.845
47.5	3162.995	3176.774	3180.150	3176.774	3162.995	3144.487	3119.283	3081.990	3036.445	2985.887
42.5	4171.976	4192.676	4196.050	4192.676	4171.976	4134.785	4085.875	3999.737	3904.388	3810.242
37.5	5155.914	5205.281	5221.350	5205.281	5155.914	5095.027	5022.045	4912.684	4799.398	4675.185
33.0	8379.523	*8530.611	*8538.100	*8530.611	*8379.523	*8124.637	*7731.545	*7307.431	*6695.768	*6150.337
29.0	12736.372	*12869.711	*12862.700	*12869.711	*12736.372	*12462.123	*11868.569	*11252.411	*10484.732	*9586.193
25.5	17504.291	*17666.866	*17718.151	*17666.866	*17504.291	*17267.726	*16788.960	*16087.594	*15186.231	*14043.515
22.5	21038.449	*21156.309	*21206.750	*21156.309	*21038.449	*20832.606	*20379.979	*19773.372	*18925.618	*17750.987
19.5	22895.286	*23072.772	*23189.500	*23072.772	*22895.286	*22610.011	*22206.017	*21658.656	*21039.543	*20303.597
17.0	24601.477	*24829.611	*24975.500	*24829.611	*24601.477	*24236.448	*23747.146	*23149.720	*22487.208	*21702.107
15.0	26343.838	*26651.705	*26824.400	*26651.705	*26343.838	*25855.725	*25183.583	*24404.395	*23597.184	*22749.633
13.0	28613.933	*29033.101	*29218.301	*29033.101	*28613.933	*27875.691	*26916.899	*25828.620	*24791.155	*23782.341
11.0	31670.473	*32375.777	*32646.000	*32375.777	*31670.473	*30563.332	*29055.975	*27568.778	*26156.908	*24791.451
9.0	36537.246	*38110.573	*38556.602	*38110.573	*36537.246	*34146.546	*31743.950	*29567.264	*27574.199	*25895.935
7.0	44020.745	*46790.157	*47353.398	*46790.157	*44020.745	*43982.193	*435295.645	*431766.292	*429139.130	*426993.384
5.0	50987.431	*52549.299	*52734.898	*52549.299	*50987.431	*47105.857	*40074.361	*34320.222	*30699.315	*27952.520
3.0	52669.953	*52357.486	*52234.500	*52357.486	*52669.953	*51094.742	*44414.443	*36795.531	*31869.021	*28772.743
1.0	52365.651	*51659.018	*51387.898	*51659.018	*52365.651	*52566.562	*47309.212	*38510.103	*32656.716	*29175.524
0.0	52222.398	*51564.199	*51440.699	*51564.199	*52222.398	*52554.000	*47342.898	*38610.898	*32744.199	*29222.301
-1.0	52368.590	*51639.810	*51463.602	*51639.810	*52368.590	*52657.185	*47434.953	*38653.733	*32751.950	*29231.379
-3.0	52812.424	*52270.284	*52192.898	*52270.284	*52812.424	*51515.364	*44862.411	*37241.929	*32148.258	*28885.784
-5.0	51858.432	*52857.609	*52831.699	*52857.609	*51858.432	*47777.374	*40715.853	*34834.556	*31031.113	*28166.847
-7.0	45166.115	*48034.043	*47911.301	*48034.043	*45166.115	*40846.006	*36022.908	*32282.940	*29428.717	*27233.077
-9.0	37415.992	*39054.754	*38978.102	*39054.754	*37415.992	*35048.069	*32351.635	*29977.987	*27933.625	*26148.262
-11.0	32269.195	*33011.144	*32906.000	*33011.144	*32269.195	*31142.308	*29617.713	*28011.023	*26448.128	*25067.781
-13.0	28981.098	*29421.398	*29341.000	*29421.398	*28981.098	*28283.875	*27403.294	*26301.561	*25117.267	*24026.871
-15.0	26624.746	*26925.125	*26877.900	*26925.125	*26624.746	*26150.550	*25527.198	*24778.690	*23902.736	*23003.660
-17.0	24789.118	*24992.944	*24985.699	*24992.944	*24789.118	*24420.860	*23966.157	*23419.196	*22738.379	*21924.793
-19.5	22895.041	*23037.974	*23052.350	*23037.974	*22895.041	*22608.842	*22240.255	*21770.499	*21195.193	*20449.966
-22.5	20938.361	*21062.150	*21063.700	*21062.150	*20938.361	*20698.868	*20305.345	*19751.817	*18953.922	*17818.760
-25.5	17673.433	*17775.820	*17738.101	*17775.820	*17673.433	*17333.273	*16779.461	*16108.372	*15208.860	*14080.358
-29.0	12705.833	*12822.201	*12782.900	*12822.201	*12705.833	*12359.982	*11872.896	*11285.653	*10544.923	*9666.857
-33.0	8426.224	*8512.054	*8479.600	*8512.054	*8426.224	*8161.833	*7820.904	*7409.953	*6753.262	*6183.663
-37.5	5174.954	5183.409	5179.900	5183.409	5174.954	5121.264	5053.066	4948.010	4830.545	4699.693
-42.5	4244.763	4248.378	4245.950	4248.378	4244.763	4207.118	4152.936	4073.946	3990.383	3902.308
-47.5	3214.965	3217.766	3215.450	3217.766	3214.965	3198.507	3170.581	3132.789	3087.057	3032.795
-55.0	2283.479	2280.160	2278.500	2280.160	2283.479	2268.762	2253.757	2234.376	2211.107	2184.390
-65.0	1332.443	1327.148	1324.500	1327.148	1332.443	1327.523	1319.701	1308.558	1292.127	1272.394
-75.0	699.114	695.305	693.400	695.305	699.114	702.705	696.434	692.889	687.453	680.354
-85.0	232.492	230.364	229.300	230.364	232.492	234.601	234.722	234.842	233.797	221.694
-90.0	0.908	0.907	0.905	0.907	0.908	0.909	0.908	0.907	0.901	0.893

Vert. Horizontal Angles

Angles	15.0	17.0	19.5	22.5	25.5	29.0	33.0	37.5	42.5	47.5
90.0	0.826	0.816	0.801	0.783	0.763	0.731	0.703	0.667	0.619	0.561
85.0	197.860	193.867	188.551	183.389	177.462	167.597	158.929	150.694	140.766	129.191
75.0	659.957	650.137	636.153	623.647	604.489	573.695	550.365	524.540	495.970	463.094
65.0	1235.194	1214.467	1184.596	1144.078	1092.807	1032.689	973.968	913.166	841.175	766.248
55.0	2107.136	2066.125	2012.604	1937.046	1854.375	1754.581	1636.474	1487.795	1307.276	1142.699
47.5	2929.596	2863.563	2773.834	2662.504	2534.774	2372.319	2182.398	1967.031	1723.467	1479.472
42.5	3680.490	3562.251	3417.724	3239.187	3046.586	2842.003	2599.077	2316.518	2012.509	1717.232
37.5	4535.549	4390.895	4204.078	3971.467	3690.689	3380.162	3044.981	2692.882	2313.255	1953.686
33.0	5675.178	*5328.223	*4987.897	4670.322	4388.370	3999.885	3503.015	3053.023	2599.905	2173.725
29.0	8714.541	*7808.145	*6673.232	*5611.179	*5012.044	4576.476	4002.684	3398.018	2848.480	2367.835
25.5	12770.941	*11500.083	*9957.730	*7861.794	*6071.817	*5054.852	4453.367	3718.970	3068.074	2532.031

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

22.5	16273.239	14700.260	12687.191	10402.895	7905.464	*5733.024	*4790.178	4021.849	3257.333	2661.428
19.5	19225.176	17733.176	15549.603	12816.665	10088.256	6980.798	*5119.888	4280.476	3414.895	2780.729
17.0	20842.395	19731.519	17696.112	14777.603	11850.186	8287.156	*5464.667	*4458.682	3562.105	2871.984
15.0	21908.369	20805.869	19070.090	16251.686	13062.223	9329.671	*5814.299	*4591.745	3674.977	2940.249
13.0	22761.589	21689.868	20138.782	17530.823	14164.012	10318.397	6294.403	*4714.741	3792.738	3001.850
11.0	23634.336	22478.064	20989.398	18607.142	15186.045	1166.539	6813.278	*4820.061	3869.533	3056.352
9.0	24447.843	23207.137	21688.493	19410.781	16071.930	11829.468	7345.213	*4912.147	3945.817	3100.226
7.0	25247.212	23819.534	22206.750	20006.979	16783.899	12372.286	7716.536	*5001.147	4000.686	3137.470
5.0	25938.727	24341.735	22587.421	20423.412	17334.346	12795.273	8019.186	*5058.371	4036.869	3169.128
3.0	26464.531	24655.825	22810.952	20624.112	17751.744	13056.987	8178.182	*5109.129	4061.006	3195.171
1.0	26703.816	24836.040	22929.650	20743.700	17968.868	13255.790	8295.187	*5136.195	4071.702	3211.306
0.0	26714.400	24838.000	22944.701	20765.200	18004.750	13265.600	8292.200	*5139.850	4071.750	3215.700
-1.0	26744.512	24871.455	22934.868	20734.517	17938.116	13282.984	8314.275	*5136.284	4071.575	3214.004
-3.0	26536.753	24720.494	22839.174	20611.262	17694.504	13128.884	8231.422	*5109.970	4060.704	3202.919
-5.0	26084.743	24408.743	22606.556	20392.120	17320.213	12847.546	8081.517	*5059.290	4038.365	3180.895
-7.0	25434.623	23948.568	22253.121	19950.756	16727.726	12459.383	7783.306	*5001.986	4013.384	3148.954
-9.0	24648.368	23323.790	21709.850	19333.934	15982.017	11946.143	7401.568	*4913.328	3975.422	3111.460
-11.0	23828.419	22610.128	20954.537	18399.733	15072.956	11301.981	6844.331	*4820.635	3912.090	3067.363
-13.0	22949.658	21813.506	20022.957	17221.407	14048.470	10480.701	6317.511	*4717.485	3842.862	3012.500
-15.0	22094.442	20954.595	18955.349	15924.474	13015.432	9510.804	*5828.898	*4601.741	3711.469	2951.297
-17.0	21039.893	19835.609	17702.548	14605.662	11918.824	8347.166	*5469.768	*4484.129	3589.614	2883.608
-19.5	19364.868	17847.337	15585.654	12926.092	10258.488	6953.179	*5115.633	4331.995	3437.083	2794.057
-22.5	16359.215	14728.318	12747.700	10568.185	7963.773	*5700.951	*4786.761	4101.497	3275.760	2675.743
-25.5	12792.881	11521.499	10059.310	7936.807	*6070.215	*5046.444	4473.544	3775.417	3084.965	2543.985
-29.0	8745.363	*7868.535	*6758.877	*5622.836	*5016.110	4584.031	4097.623	3419.329	2863.326	2376.974
-33.0	5711.916	*5371.942	*5029.297	4703.010	4397.827	4083.960	3554.099	3072.254	2611.066	2183.802
-37.5	4558.364	4414.362	4226.022	4012.312	3790.083	3433.962	3076.200	2717.189	2328.006	1965.182
-42.5	3770.679	3637.996	3474.146	3291.073	3092.042	2877.257	2632.175	2340.897	2031.769	1729.113
-47.5	2971.598	2902.874	2810.998	2700.814	2573.247	2408.318	2213.539	1991.522	1742.647	1494.846
-55.0	2144.939	2102.196	2043.332	1965.604	1881.124	1777.288	1654.766	1507.570	1322.014	1154.924
-65.0	1253.840	1235.119	1205.506	1163.613	1111.098	1047.989	986.506	921.612	851.324	775.277
-75.0	672.294	664.422	653.714	638.834	617.975	589.487	560.355	534.244	506.813	471.805
-85.0	216.663	212.781	207.679	200.308	192.135	181.016	172.221	162.925	149.545	135.553
-90.0	0.883	0.873	0.859	0.835	0.809	0.777	0.739	0.699	0.647	0.584

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	0.469	0.341	0.199	0.065	0.000
85.0	113.078	97.162	81.154	32.512	0.062
75.0	397.759	291.031	152.693	78.656	0.185
65.0	620.843	453.295	301.187	90.923	0.303
55.0	915.534	613.172	401.757	108.813	0.411
47.5	1136.942	744.178	432.054	131.286	0.484
42.5	1296.004	824.329	458.031	147.058	0.528
37.5	1469.474	904.455	489.821	163.139	0.568
33.0	1621.533	976.936	518.105	175.670	0.601
29.0	1746.639	1037.052	541.781	187.420	0.627
25.5	1848.756	1087.170	563.905	196.517	0.646
22.5	1930.199	1128.833	581.774	203.409	0.662
19.5	2002.252	1168.076	598.294	209.447	0.675
17.0	2056.353	1198.940	610.537	213.813	0.685
15.0	2094.946	1221.852	619.317	216.866	0.692
13.0	2131.042	1242.866	627.155	219.522	0.698
11.0	2160.037	1261.077	634.022	227.899	0.703
9.0	2186.460	1275.111	639.887	227.737	0.707

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

CANDELA TABULATION - (Cont.)

7.0	2207.810	1286.172	644.719	227.574	0.711
5.0	2223.887	1294.364	652.030	227.411	0.713
3.0	2240.806	1302.967	652.457	227.247	0.715
1.0	2241.002	1302.389	652.886	227.082	0.716
0.0	2241.100	1302.100	653.100	227.000	0.716
-1.0	2241.618	1302.324	652.912	227.000	0.716
-3.0	2242.653	1302.771	652.538	227.147	0.715
-5.0	2226.875	1294.005	652.164	227.245	0.713
-7.0	2211.870	1285.626	644.881	227.342	0.711
-9.0	2190.802	1274.335	640.072	227.439	0.707
-11.0	2164.640	1260.114	634.215	227.536	0.703
-13.0	2135.985	1241.883	627.337	219.094	0.698
-15.0	2099.171	1220.998	619.465	216.373	0.692
-17.0	2059.246	1198.410	610.625	213.256	0.685
-19.5	2004.455	1168.268	598.312	208.811	0.675
-22.5	1931.800	1130.200	582.112	202.681	0.662
-25.5	1851.501	1089.008	564.655	195.697	0.646
-29.0	1750.402	1038.881	542.931	186.497	0.627
-33.0	1627.203	977.421	518.465	174.634	0.601
-37.5	1475.244	905.502	489.260	161.980	0.568
-42.5	1299.163	827.771	458.603	145.900	0.528
-47.5	1143.312	747.630	433.386	130.160	0.484
-55.0	920.066	615.337	404.247	107.847	0.411
-65.0	625.960	457.982	303.005	90.470	0.303
-75.0	405.933	297.503	154.305	78.543	0.185
-85.0	114.895	98.023	81.167	32.507	0.062
-90.0	0.483	0.343	0.199	0.065	0.000

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

LUMEN TABULATION

Average Of Right And Left Sides
 Total Luminaire Lumens (one side of beam only) = 15880.28
 Total Field Lumens (one side of beam only) = 11927.66
 * 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	0.17	0.33	0.32	0.32	0.31	0.31	0.30	0.29	0.29	0.35
85	1.38	2.74	2.72	2.69	2.67	2.64	2.60	2.55	2.49	3.02
75	3.06	6.10	6.06	6.00	5.93	5.85	5.76	5.64	5.50	6.66
65	5.44	10.87	10.80	10.69	10.56	10.39	10.20	9.96	9.70	11.71
55	6.20	12.38	12.30	12.17	12.01	11.80	11.56	11.27	10.94	13.17
47.5	5.61	11.19	11.10	10.97	10.77	10.52	10.23	9.91	9.54	11.41
42.5	7.16	14.25	14.10	13.89	13.59	13.21	12.80	12.34	11.84	14.08
37.5	9.42 *	18.68 *	18.29 *	17.70 *	16.95 *	16.01 *	14.96 *	13.99	13.13	15.39
33	13.04 *	25.89 *	25.34 *	24.35 *	23.02 *	21.44 *	19.61 *	17.81 *	16.12 *	17.93 *
29	16.29 *	32.38 *	31.89 *	30.95 *	29.56 *	27.83 *	25.71 *	23.33 *	20.90 *	22.74 *
25.5	17.76 *	35.33 *	34.93 *	34.20 *	33.04 *	31.49 *	29.45 *	26.97 *	24.26 *	26.49 *
22.5	20.25 *	40.26 *	39.83 *	39.09 *	38.01 *	36.63 *	34.87 *	32.61 *	29.84 *	32.91 *
19.5	18.29 *	36.30 *	35.83 *	35.14 *	34.22 *	33.12 *	31.86 *	30.32 *	28.38 *	31.96 *
17	15.73 *	31.18 *	30.70 *	30.00 *	29.10 *	28.09 *	26.97 *	25.77 *	24.39 *	27.95 *
15	17.02 *	33.68 *	33.03 *	32.06 *	30.87 *	29.58 *	28.28 *	26.96 *	25.52 *	29.54 *
13	18.77 *	37.05 *	36.08 *	34.66 *	32.99 *	31.30 *	29.65 *	28.07 *	26.52 *	30.84 *
11	21.58 *	42.22 *	40.39 *	38.02 *	35.57 *	33.26 *	31.11 *	29.19 *	27.46 *	31.95 *
9	26.01 *	50.37 *	46.95 *	42.72 *	38.72 *	35.41 *	32.66 *	30.32 *	28.32 *	32.88 *
7	30.37 *	59.16 *	55.28 *	49.17 *	42.67 *	37.77 *	34.20 *	31.37 *	29.09 *	33.61 *
5	31.96 *	63.49 *	61.34 *	55.34 *	46.94 *	40.10 *	35.54 *	32.25 *	29.69 *	34.13 *
3	31.62 *	63.64 *	63.41 *	59.19 *	50.38 *	41.95 *	36.49 *	32.84 *	30.06 *	34.44 *
1	15.69 *	31.63 *	31.86 *	30.26 *	25.91 *	21.38 *	18.44 *	16.52 *	15.09 *	17.27 *
0	15.70 *	31.63 *	31.88 *	30.29 *	25.95 *	21.41 *	18.47 *	16.54 *	15.10 *	17.28 *
-1	31.61 *	63.65 *	63.61 *	59.52 *	50.73 *	42.24 *	36.65 *	32.92 *	30.12 *	34.48 *
-3	32.01 *	63.87 *	61.98 *	56.00 *	47.55 *	40.57 *	35.82 *	32.41 *	29.79 *	34.20 *

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

LUMENS TABULATION - (Cont.)

-5	30.71 *	60.25 *	56.41 *	50.09 *	43.39 *	38.27 *	34.52 *	31.60 *	29.24 *	33.71 *
-7	26.50 *	51.65 *	48.15 *	43.70 *	39.40 *	35.88 *	33.00 *	30.58 *	28.51 *	32.99 *
-9	21.92 *	43.15 *	41.29 *	38.82 *	36.18 *	33.71 *	31.46 *	29.46 *	27.64 *	32.04 *
-11	18.99 *	37.65 *	36.67 *	35.28 *	33.58 *	31.76 *	29.99 *	28.34 *	26.70 *	30.88 *
-13	17.14 *	34.08 *	33.44 *	32.52 *	31.37 *	30.03 *	28.62 *	27.21 *	25.71 *	29.56 *
-15	15.81 *	31.46 *	30.99 *	30.31 *	29.47 *	28.45 *	27.28 *	26.03 *	24.57 *	28.00 *
-17	18.29 *	36.42 *	35.97 *	35.31 *	34.46 *	33.42 *	32.14 *	30.58 *	28.58 *	32.08 *
-19.5	20.15 *	40.15 *	39.72 *	39.01 *	38.04 *	36.75 *	35.05 *	32.80 *	30.00 *	33.04 *
-22.5	17.74 *	35.37 *	34.93 *	34.13 *	33.00 *	31.51 *	29.52 *	27.07 *	24.33 *	26.61 *
-25.5	16.29 *	32.48 *	31.94 *	30.93 *	29.58 *	27.90 *	25.81 *	23.42 *	20.97 *	22.91 *
-29	12.98 *	25.85 *	25.31 *	24.37 *	23.16 *	21.59 *	19.75 *	17.92 *	16.22 *	18.10 *
-33	9.37 *	18.70 *	18.38 *	17.83 *	17.12 *	16.16 *	15.06 *	14.07 *	13.21	15.49
-37.5	7.18	14.35	14.24	14.04	13.75	13.38	12.98	12.51	11.99	14.24
-42.5	5.68	11.36	11.29	11.15	10.96	10.71	10.44	10.11	9.72	11.59
-47.5	6.28	12.55	12.50	12.37	12.21	12.00	11.75	11.45	11.11	13.37
-55	5.49	10.99	10.96	10.86	10.73	10.57	10.37	10.13	9.86	11.91
-65	3.08	6.17	6.17	6.13	6.06	5.97	5.86	5.73	5.60	6.80
-75	1.41	2.83	2.84	2.83	2.80	2.77	2.72	2.65	2.59	3.14
-85	0.18	0.35	0.36	0.36	0.36	0.35	0.34	0.33	0.32	0.38
-90										
Total	667.33	1324.06	1291.58	1225.44	1133.68	1045.49	970.86	904.15	840.97	963.23

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.40	0.38	0.41	0.43	0.44	0.43	0.36	0.43	0.40	0.23
85	3.48	3.32	3.61	3.79	3.87	3.83	3.31	3.94	3.42	1.62
75	7.65	7.23	7.83	8.17	8.29	8.09	6.91	8.03	6.70	3.12
65	13.39	12.58	13.59	14.09	14.02	13.27	10.92	12.31	9.90	4.60
55	15.01	14.07	15.13	15.56	15.26	14.18	11.41	12.52	9.73	4.27
47.5	12.90	11.98	12.79	13.05	12.68	11.69	9.33	10.06	7.61	3.20

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

LUMENS TABULATION - (Cont.)

42.5										
	15.82	14.55	15.35	15.49	14.90	13.61	10.76	11.50	8.55	3.48
37.5										
	17.11	15.70	16.48	16.36	15.48	13.99	10.95	11.60	8.51	3.38
33										
	18.72 *	16.43	17.04	16.79	15.62	13.88	10.76	11.30	8.19	3.20
29										
	22.47 *	17.94 *	17.18	16.53	15.25	13.30	10.19	10.62	7.61	2.94
25.5										
	26.17 *	20.19 *	17.60 *	15.69	14.26	12.30	9.30	9.62	6.84	2.62
22.5										
	32.92 *	25.80 *	21.83 *	17.72 *	15.29	13.10	9.78	10.05	7.11	2.71
19.5										
	32.44 *	25.84 *	22.04 *	16.87 *	13.52	11.46	8.50	8.67	6.11	2.33
17										
	28.92 *	23.35 *	20.15 *	15.09 *	11.38	9.50	7.02	7.12	5.00	1.90
15										
	31.13 *	25.46 *	22.21 *	16.58 *	11.98 *	9.78	7.22	7.27	5.09	1.93
13										
	32.96 *	27.33 *	24.09 *	18.06 *	12.67 *	10.03	7.39	7.39	5.17	1.96
11										
	34.42 *	28.91 *	25.71 *	19.40 *	13.37 *	10.23	7.52	7.50	5.23	1.98
9										
	35.54 *	30.17 *	27.04 *	20.50 *	13.98 *	10.42	7.64	7.60	5.29	2.00
7										
	36.35 *	31.11 *	28.09 *	21.36 *	14.43 *	10.55	7.72	7.67	5.33	2.02
5										
	36.87 *	31.78 *	28.88 *	21.95 *	14.75 *	10.65	7.79	7.74	5.37	2.03
3										
	37.15 *	32.17 *	29.39 *	22.34 *	14.95 *	10.72	7.83	7.78	5.39	2.03
1										
	18.64 *	16.17 *	14.81 *	11.25 *	7.52 *	5.37	3.92	3.90	2.69	1.02
0										
	18.63 *	16.16 *	14.81 *	11.27 *	7.52 *	5.37	3.92	3.90	2.70	1.02
-1										
	37.16 *	32.13 *	29.40 *	22.43 *	14.99 *	10.72	7.83	7.79	5.39	2.03
-3										
	36.87 *	31.73 *	28.90 *	22.08 *	14.82 *	10.65	7.80	7.75	5.37	2.03
-5										
	36.34 *	31.05 *	28.12 *	21.50 *	14.51 *	10.56	7.74	7.69	5.34	2.02
-7										
	35.51 *	30.05 *	27.06 *	20.67 *	14.05 *	10.44	7.67	7.62	5.30	2.00
-9										
	34.29 *	28.71 *	25.73 *	19.58 *	13.42 *	10.28	7.57	7.53	5.24	1.98
-11										
	32.67 *	27.02 *	24.12 *	18.24 *	12.70 *	10.09	7.45	7.42	5.17	1.96
-13										
	30.76 *	25.13 *	22.30 *	16.78 *	12.01 *	9.84	7.28	7.29	5.09	1.93
-15										
	28.66 *	23.15 *	20.28 *	15.22 *	11.41	9.56	7.07	7.14	5.00	1.90
-17										
	32.43 *	25.93 *	22.20 *	16.89 *	13.57	11.55	8.55	8.70	6.11	2.33
-19.5										
	33.16 *	26.12 *	21.95 *	17.67 *	15.39	13.25	9.84	10.08	7.11	2.71
-22.5										
	26.43 *	20.37 *	17.61 *	15.67	14.38	12.45	9.35	9.65	6.85	2.63

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

LUMENS TABULATION - (Cont.)

-25.5	22.67 *	18.00 *	17.18	16.63	15.44	13.41	10.24	10.66	7.63	2.95
-29	18.86 *	16.48	17.14	17.04	15.83	13.96	10.80	11.34	8.20	3.20
-33	17.25	15.87	16.74	16.62	15.64	14.08	11.01	11.66	8.53	3.38
-37.5	16.00	14.80	15.63	15.69	15.06	13.73	10.84	11.55	8.57	3.49
-42.5	13.09	12.16	12.97	13.22	12.84	11.82	9.42	10.12	7.64	3.21
-47.5	15.23	14.28	15.35	15.77	15.46	14.35	11.54	12.63	9.77	4.29
-55	13.60	12.77	13.78	14.27	14.19	13.42	11.05	12.42	9.96	4.63
-65	7.81	7.37	7.98	8.31	8.40	8.21	7.01	8.14	6.80	3.15
-75	3.63	3.44	3.74	3.92	4.00	3.95	3.40	4.03	3.48	1.64
-85	0.44	0.41	0.44	0.46	0.47	0.46	0.39	0.45	0.41	0.23
-90										
Total	1021.95	865.61	804.67	677.00	549.99	462.53	354.28	370.18	270.91	109.30

Vert. Angles	Horizontal Angles			Total
	75	85	90	
90	0.08	0.00		6.98
85	0.46	0.02		60.15
75	0.82	0.03		129.45
65	1.19	0.03		220.20
55	1.06	0.03		242.05
47.5	0.77	0.02		207.33
42.5	0.83	0.03		252.13
37.5	0.80	0.03		284.92
33	0.75	0.02		337.25
29	0.69	0.02		396.32
25.5	0.61	0.02		429.16
22.5	0.63	0.02		501.24
19.5	0.54	0.02		463.75
17	0.44	0.01		399.76
15	0.44	0.01		425.65

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

LUMENS TABULATION - (Cont.)

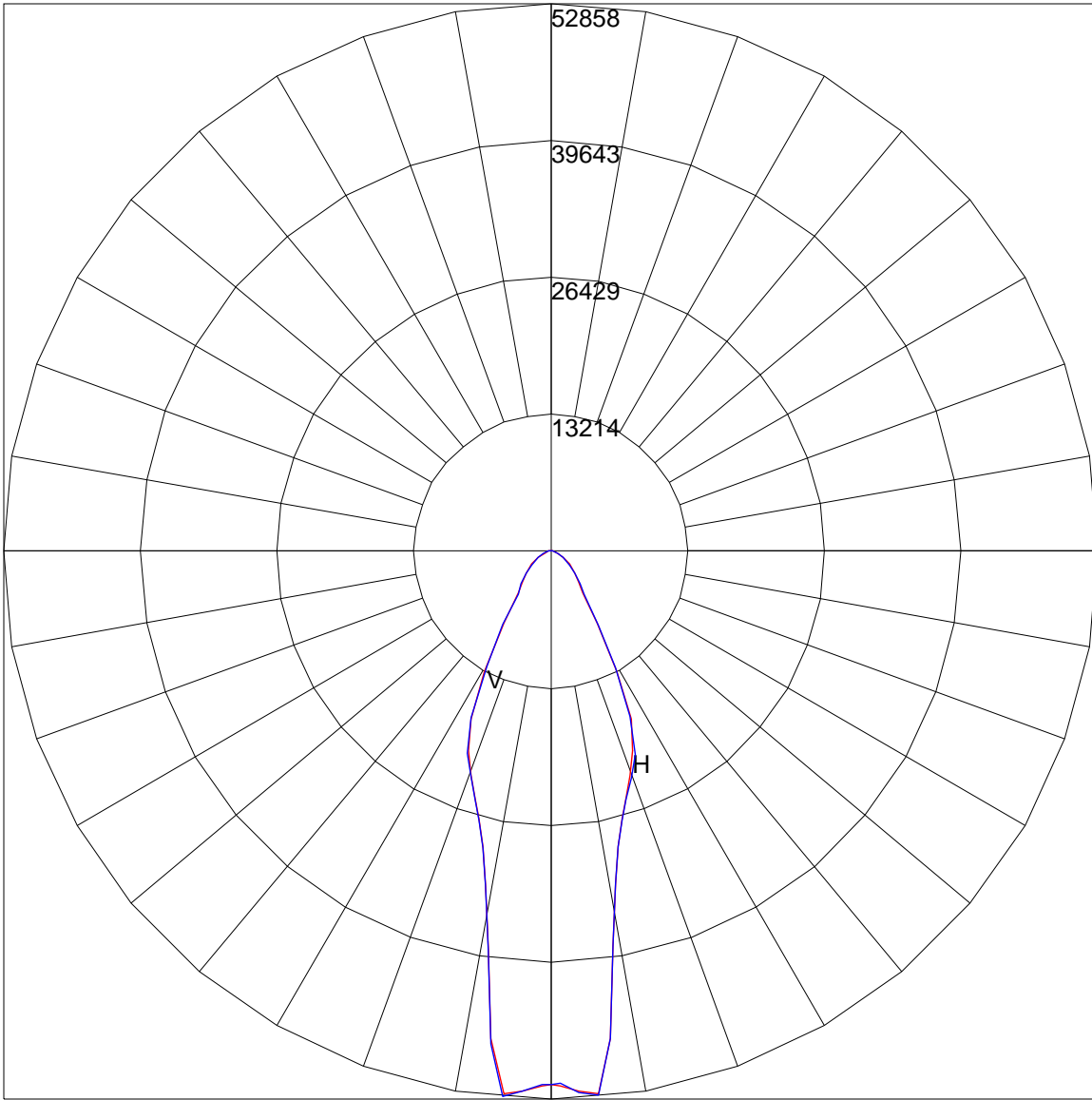
13			
	0.45	0.01	453.44
11			
	0.46	0.02	485.51
9			
	0.46	0.02	524.98
7			
	0.46	0.02	567.82
5			
	0.46	0.02	599.08
3			
	0.46	0.02	614.26
1			
	0.23	0.01	309.58
0			
	0.23	0.01	309.77
-1			
	0.46	0.02	615.90
-3			
	0.46	0.02	602.70
-5			
	0.46	0.02	573.55
-7			
	0.46	0.02	531.20
-9			
	0.46	0.02	490.48
-11			
	0.45	0.01	457.15
-13			
	0.44	0.01	428.56
-15			
	0.44	0.01	402.20
-17			
	0.54	0.02	466.07
-19.5			
	0.63	0.02	502.63
-22.5			
	0.61	0.02	430.24
-25.5			
	0.69	0.02	397.77
-29			
	0.75	0.02	338.89
-33			
	0.80	0.03	287.00
-37.5			
	0.83	0.03	254.87
-42.5			
	0.77	0.02	210.31
-47.5			
	1.07	0.03	245.35
-55			
	1.20	0.03	223.20
-65			
	0.83	0.03	131.60
-75			
	0.46	0.02	62.29

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

LUMENS TABULATION - (Cont.)

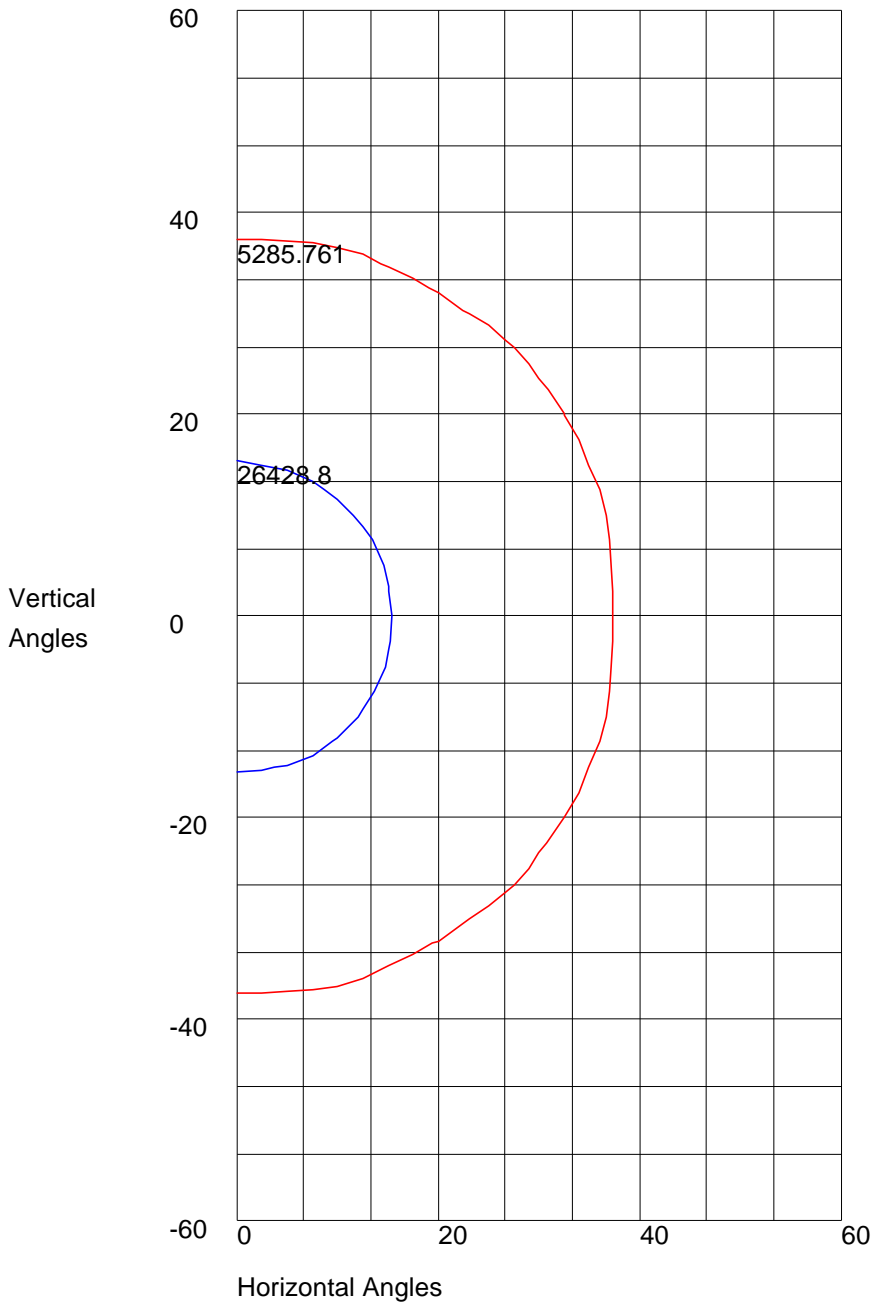
-85	0.08	0.00	7.55
-90			
Total	26.23	0.84	15880.28

AXIAL CANDELA DISPLAY



Maximum Candela = 52857.609 Located At Horizontal Angle =-1, Vertical Angle =-5
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 52857.609 Located At Horizontal Angle =-1, Vertical Angle =-5
50% Maximum Candela = 26428.8045
10% Maximum Candela = 5285.7609