



**IES FLOOD REPORT  
PHOTOMETRIC FILENAME : FL2-20L-40-8-N4-U-Y-GM.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 1231975  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 4/6/2016  
 [MANUFAC] Eye Lighting International of North America  
 [LUMCAT] FL2-20L-40-8-N4-U-Y-GM  
 [LUMINAIRE] Formed aluminum housing/ heatsink, clear plastic lens, specular plastic reflector  
 [MORE] cular plastic reflector  
 [LAMP] Five white LEDs  
 [BALLAST] Meanwell HLG-185H-C  
 [OTHER] 24.9 C, 120.093 V, 1.60088 A, 191.207 W, 0.994554 PF, 59.9996  
 [MORE] Hz  
 [OTHER] This test was performed using the calibrated photodetector method of absolute photometry.  
 [MORE] hod of absolute photometry.

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

**CHARACTERISTICS**

NEMA Type	4 H x 4 V
Maximum Candela	79321.325
Maximum Candela Angle	-1H 5V
Horizontal Beam Angle (50%)	18.3
Vertical Beam Angle (50%)	20.4
Horizontal Field Angle (10%)	49.0
Vertical Field Angle (10%)	48.5
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	6351
Beam Efficiency	N.A.
Field Lumens	14094
Field Efficiency	N.A.
Spill Lumens	3001
Luminaire Lumens	17094
Total Efficiency	N.A.
Total Luminaire Watts	191.207
Ballast Factor	1.00



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**AXIAL CANDELA**

DEG.	HOR.	DEG.	VERT.
90	.422	90	.421
85	48.9	85	51.7
75	61.4	75	62.2
65	78	65	80
55	106.2	55	105.2
47.5	171.45	47.5	159.3
42.5	261.25	42.5	547.15
37.5	420.35	37.5	582.35
33	1950	33	2351.7
29	4447	29	5254.5
25.5	7143.85	25.5	7030.8
22.5	9903.8	22.5	10021.1
19.5	13380.2	19.5	13746.65
17	17233	17	17766
15	21339.801	15	21819.1
13	27006.4	13	27720.699
11	35166	11	35640.398
9	48833.602	9	50346.5
7	67639.602	7	71479
5	77908	5	79114.602
3	77500.797	3	77836.5
1	76420.797	1	76891.703
0	77191	0	77191
-1	76420.797	-1	76645.102
-3	77500.797	-3	77836
-5	77908	-5	78365
-7	67639.602	-7	66050.102
-9	48833.602	-9	45262.699
-11	35166	-11	32601.801
-13	27006.4	-13	25224.301
-15	21339.801	-15	19864.1
-17	17233	-17	16235.9
-19.5	13380.2	-19.5	12743.4
-22.5	9903.8	-22.5	9062.45
-25.5	7143.85	-25.5	6545.65
-29	4447	-29	4759.2
-33	1950	-33	1978.7
-37.5	420.35	-37.5	473.35
-42.5	261.25	-42.5	339.8
-47.5	171.45	-47.5	141.7
-55	106.2	-55	97.9
-65	78	-65	79
-75	61.4	-75	65.8
-85	48.9	-85	53.1
-90	.422	-90	.439

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**CANDELA TABULATION**

Maximum Candela = 79321.325  
 Beam Edge = 39660.6625 Cd (50% of Max.)  
 Field Edge = 7932.1325 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	0.037	0.103	0.192	0.250	0.292	0.318	0.366	0.385	0.396
85.0	0.037	18.280	41.965	45.266	46.060	48.709	51.089	51.976	51.860	54.317
75.0	0.109	42.765	47.607	53.972	56.503	59.299	59.784	63.638	63.970	64.653
65.0	0.178	45.086	52.855	56.472	62.629	69.164	69.314	71.515	72.546	74.709
55.0	0.242	48.222	55.292	61.961	71.389	76.235	79.271	84.566	91.833	92.768
47.5	0.285	48.710	55.890	64.671	75.731	85.138	90.075	97.935	104.047	109.228
42.5	0.311	48.838	59.220	68.135	82.071	92.126	100.360	108.969	119.342	133.191
37.5	0.335	49.142	57.932	68.383	86.929	100.563	112.417	128.101	146.092	173.126
33.0	0.354	49.528	60.382	73.290	88.974	105.378	122.953	147.128	184.659	279.109
29.0	0.369	49.778	62.082	73.572	91.883	111.941	134.202	169.174	276.388	301.223
25.5	0.381	49.890	62.072	74.077	94.819	117.056	145.229	222.204	294.359	389.165
22.5	0.390	49.915	62.200	75.281	97.600	121.468	155.693	264.542	312.964	695.255
19.5	0.398	49.883	62.623	76.962	99.055	126.298	175.627	276.705	393.311	1329.346
17.0	0.404	49.817	62.867	78.258	99.694	129.446	198.139	277.168	524.717	2018.826
15.0	0.408	49.743	62.919	78.925	100.147	133.811	212.970	277.915	674.776	2615.647
13.0	0.411	49.654	62.891	79.257	101.971	138.371	228.162	287.177	884.039	3124.631
11.0	0.414	49.512	62.791	79.762	103.774	142.513	233.421	302.322	1107.065	3570.531
9.0	0.417	49.402	62.629	79.747	104.880	146.505	238.963	329.078	1348.974	3923.409
7.0	0.419	49.291	62.415	79.538	105.347	149.965	244.487	353.968	1518.349	4191.542
5.0	0.420	49.180	62.203	79.208	105.626	153.896	247.688	377.629	1703.825	4365.005
3.0	0.421	49.068	61.882	78.839	105.990	161.172	253.206	399.850	1848.469	4445.342
1.0	0.422	48.956	61.561	78.280	106.130	168.187	258.759	415.651	1936.546	4480.939
0.0	0.422	48.900	61.400	78.000	106.200	171.450	261.250	420.350	1950.000	4447.000
-1.0	0.422	48.900	61.727	78.047	106.410	171.449	263.708	421.503	1944.581	4466.765
-3.0	0.421	49.031	62.380	78.140	106.830	170.290	268.177	418.353	1866.936	4419.828
-5.0	0.420	49.118	63.032	78.063	106.512	166.882	273.123	405.761	1724.115	4321.620
-7.0	0.419	49.205	63.506	77.963	105.901	157.717	281.704	389.688	1527.116	4115.321
-9.0	0.417	49.292	63.972	77.771	104.196	148.669	288.119	371.963	1323.352	3775.643
-11.0	0.414	49.378	64.342	77.471	102.051	142.027	286.353	354.933	1073.844	3350.186
-13.0	0.411	49.615	64.595	77.037	99.645	137.116	278.814	345.968	851.833	2835.503
-15.0	0.408	49.743	64.715	76.659	98.747	131.319	250.351	341.725	646.506	2276.554
-17.0	0.404	49.875	64.684	76.346	97.847	126.150	218.377	346.373	511.899	1709.999
-19.5	0.398	50.043	64.208	76.442	95.569	122.697	178.398	349.977	420.510	1089.766
-22.5	0.390	50.247	62.499	77.367	93.800	118.324	156.793	319.463	378.359	584.292
-25.5	0.381	50.451	61.324	76.411	90.833	113.765	144.181	241.761	372.213	403.646
-29.0	0.369	50.689	60.720	74.781	88.613	107.321	133.723	173.009	315.105	363.589
-33.0	0.354	50.955	59.387	70.527	85.777	102.667	122.509	146.104	181.291	310.928
-37.5	0.335	51.215	57.289	69.322	84.775	97.011	108.482	125.989	140.769	172.227
-42.5	0.311	49.878	58.258	67.331	78.022	89.261	96.648	104.819	115.127	125.087
-47.5	0.285	48.501	57.431	65.539	76.387	84.403	90.463	94.225	98.651	104.740
-55.0	0.242	46.614	55.382	60.572	67.272	75.300	81.898	83.994	87.837	89.065
-65.0	0.178	46.044	53.752	58.226	61.205	66.959	70.890	69.566	72.521	73.540
-75.0	0.109	43.326	48.508	52.589	56.143	60.252	60.799	61.161	62.952	63.829
-85.0	0.037	18.367	45.018	46.093	50.578	50.541	51.362	52.966	53.390	52.414
-90.0	0.000	0.037	0.118	0.198	0.252	0.302	0.335	0.363	0.382	0.400

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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	0.437	0.457	0.473	0.485	0.495	0.489	0.482	0.482	0.489	0.496
85.0	55.138	55.770	56.389	55.583	54.732	54.384	53.929	53.835	54.116	54.400
75.0	63.641	65.292	68.115	67.531	67.172	67.387	67.946	68.350	68.114	68.042
65.0	77.006	79.242	79.961	81.908	82.516	82.939	83.573	84.317	84.598	84.479
55.0	93.081	94.476	96.334	98.212	101.163	103.041	104.035	104.596	104.638	104.273
47.5	116.109	127.769	134.604	141.759	140.476	148.229	150.274	153.926	158.073	161.863
42.5	145.401	177.137	245.497	303.204	346.633	388.967	419.966	452.354	492.763	511.910
37.5	240.742	283.454	315.001	340.599	369.491	404.624	431.644	459.592	489.922	523.818
33.0	296.629	331.323	454.832	639.164	847.690	1116.059	1380.510	1680.784	1918.134	2156.134
29.0	386.699	662.110	1273.244	1923.237	2475.733	3022.867	3497.019	3936.360	4359.959	4749.143
25.5	853.931	1746.426	2752.850	3590.202	4251.617	4839.949	5381.166	5933.286	6339.763	6698.026
22.5	1844.902	3215.228	4603.030	5624.722	6427.997	7158.742	7813.641	8441.682	9023.962	9544.170 *
19.5	3089.981	4760.729	6341.345	7669.068	8703.741	9708.297	10681.778	11581.237	12382.439	13071.133 *
17.0	4108.659	5768.923	7672.451	9283.879	10585.305	11940.651	13187.724	14452.320	15559.438	16595.818 *
15.0	4799.392	6606.990	8684.130	10520.803	12128.285	13598.493	15255.733	16899.207	18455.293	19913.613 *
13.0	5428.843	7389.814	9642.215	11737.183	13521.615	15493.257	17506.264	19865.866	22311.078	24560.614 *
11.0	5976.761	8116.494	10639.779	12990.138	15104.001	17462.228	20401.518	23692.135	27391.329	31100.977 *
9.0	6458.670	8751.784	11514.940	14204.632	16747.893	19820.661	23634.469	28409.069	33931.647	40386.016 *
7.0	6811.065	9257.388	12214.192	15246.140	18307.225	22229.177	27327.268	33874.316	41304.218	50465.671 *
5.0	7065.889	9662.430	12891.624	16252.200	19718.476	24380.391	30927.034	39391.467	50202.006	670039.607 *
3.0	7183.987	9879.287	13342.163	16997.884	20876.521	26222.641	33862.178	45903.538	62959.819	876372.891 *
1.0	7186.802	9929.992	13455.922	17286.711	21377.663	27015.737	35174.084	49102.114	68118.940	978087.366 *
0.0	7143.850	9903.800	13380.200	17233.000	21339.801	27006.400	35166.000	48833.602	67639.602	97908.000 *
-1.0	7081.790	9811.747	13298.223	17226.336	21274.137	26962.478	35119.858	48887.554	67744.885	97953.712 *
-3.0	6882.026	9511.069	12984.542	16715.153	20483.715	25649.207	32850.948	44376.167	61065.732	75418.995 *
-5.0	6589.649	9067.141	12432.165	15723.727	19305.405	23776.322	29779.671	38199.234	51260.740	66628.197 *
-7.0	6236.422	8508.878	11687.794	14587.282	17709.722	1424.850	26066.645	32103.821	39773.126	50013.474 *
-9.0	5921.698	7910.558	10703.334	13426.308	15921.881	19010.234	22528.638	26529.881	31244.863	36757.806 *
-11.0	5607.217	7252.203	9557.629	12135.402	14197.697	16619.708	19258.359	222115.481	25240.668	28484.114 *
-13.0	5144.209	6584.267	8528.431	10727.864	12657.417	14448.189	16493.648	18582.237	20640.646	22520.546 *
-15.0	4433.047	6002.199	7608.159	9342.245	11090.773	12580.184	14120.405	15718.678	17105.318	18318.443 *
-17.0	3630.594	5368.532	6698.250	8058.839	9345.569	10763.870	12105.925	13298.063	14285.744	15191.501 *
-19.5	2643.570	4281.730	5515.322	6604.093	7577.144	8569.608	9567.253	10573.035	11401.557	12043.099 *
-22.5	1571.511	2820.543	4053.497	4830.200	5503.809	6291.927	7072.123	7708.101	8245.472	8667.995 *
-25.5	705.922	1463.403	2464.474	3165.836	3717.822	4383.476	5045.138	5607.423	6036.930	6326.177
-29.0	390.384	569.930	1083.025	1704.489	2179.612	2588.973	3109.211	3649.757	4112.335	4464.175
-33.0	326.987	343.939	417.768	526.150	655.412	846.338	1057.346	1321.567	1555.974	1770.216
-37.5	241.981	275.114	304.448	328.251	342.722	357.315	373.194	390.899	411.423	437.227
-42.5	143.353	174.338	187.499	214.786	239.714	261.400	281.219	299.149	313.271	326.211
-47.5	110.761	118.818	124.459	128.082	130.912	135.116	137.694	139.638	141.224	142.270
-55.0	89.247	93.252	94.546	96.041	98.062	101.590	101.766	101.184	101.911	102.451
-65.0	75.223	77.103	79.291	78.793	79.098	79.699	80.377	80.727	81.968	83.557
-75.0	64.034	66.194	66.387	66.808	68.167	68.236	67.142	66.193	66.544	67.065
-85.0	52.433	53.046	53.747	54.858	55.830	55.455	55.133	54.587	54.146	53.704
-90.0	0.412	0.420	0.428	0.436	0.443	0.449	0.454	0.458	0.461	0.464

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	0.467	0.437	0.421	0.437	0.467	0.496	0.489	0.482	0.482	0.489
85.0	53.326	52.242	51.700	52.242	53.326	54.400	54.116	53.835	53.929	54.384
75.0	65.803	63.401	62.200	63.401	65.803	68.042	68.114	68.350	67.946	67.387
65.0	82.979	80.993	80.000	80.993	82.979	84.479	84.598	84.317	83.573	82.939

CANDELA TABULATION - (Cont.)

55.0	104.468	104.956	105.200	104.956	104.468	104.273	104.638	104.596	104.035	103.041
47.5	162.055	160.455	159.300	160.455	162.055	161.863	158.073	153.926	150.274	148.229
42.5	530.930	541.758	547.150	541.758	530.930	511.910	492.763	452.354	419.966	388.967
37.5	555.934	575.713	582.350	575.713	555.934	523.818	489.922	459.592	431.644	404.624
33.0	2309.285	2364.880	2351.700	2364.880	2309.285	2156.134	1918.134	1680.784	1380.510	1116.059
29.0	5031.463	5215.034	5254.500	5215.034	5031.463	4749.143	4359.959	3936.360	3497.019	3022.868
25.5	6929.575	7028.108	7030.800	7028.108	6929.575	6698.026	6339.762	5933.286	5381.166	4839.949
22.5	9903.814	*10042.590	*10021.100	*10042.590	9903.814	*9544.170	*9023.962	*8441.682	*7813.641	7158.741
19.5	13603.715	*13777.601	*13746.650	*13777.601	*13603.714	*13071.133	*12382.439	*11581.237	*10681.778	9708.297 *
17.0	17343.561	*17797.569	*17766.000	*17797.569	*17343.561	*16595.817	*15559.438	*14452.320	*13187.724	*11940.651 *
15.0	21098.106	*21793.712	*21819.100	*21793.712	*21098.107	*19913.613	*18455.293	*16899.207	*15255.733	*13598.494 *
13.0	26461.856	*27649.264	*27720.699	*27649.264	*26461.856	*24560.614	*22311.078	*19865.866	*17506.264	*15493.257 *
11.0	33695.923	*35683.663	*35640.398	*35683.663	*33695.923	*31100.977	*27391.329	*23692.135	*20401.517	*17462.228 *
9.0	46071.200	*50537.903	*50346.500	*50537.902	*46071.200	*40386.016	*33931.647	*28409.069	*23634.469	*19820.661 *
7.0	64615.305	*71430.033	*71479.000	*71430.033	*64615.306	*54465.671	*43040.218	*33874.317	*27327.268	*22229.178 *
5.0	77608.389	*9321.325	*79114.602	*9321.325	*77608.390	*70039.607	*54202.006	*40391.466	*30927.034	*24380.391 *
3.0	78778.165	*8280.751	*7836.500	*8280.751	*78778.165	*76372.890	*62959.820	*45903.537	*33862.178	*26222.640 *
1.0	77774.595	*7079.677	*76891.703	*7079.677	*77774.595	*78087.366	*668118.941	*49102.113	*35174.085	*27015.737 *
0.0	77500.797	*76420.797	*77191.000	*76420.797	*77500.797	*7908.000	*67639.602	*48833.602	*35166.000	*27006.400 *
-1.0	77821.499	*7076.763	*76645.102	*7076.763	*77821.499	*7953.712	*67744.885	*48887.554	*35119.857	*26962.478 *
-3.0	78586.238	*8342.639	*7836.000	*8342.639	*78586.238	*75418.995	*61065.732	*44376.166	*32850.948	*25649.207 *
-5.0	76028.080	*8711.180	*7836.000	*8711.180	*76028.080	*6628.197	*51260.740	*38199.234	*29779.670	*23776.322 *
-7.0	59470.047	*66435.590	*66050.102	*66435.590	*59470.047	*50013.474	*39773.126	*32103.821	*26066.645	*21424.850 *
-9.0	41828.600	*5326.150	*45262.699	*5326.150	*41828.600	*36757.806	*31244.863	*26529.881	*22528.638	*19010.234 *
-11.0	31016.287	*32556.388	*32601.801	*32556.388	*31016.287	*28484.114	*25240.668	*22115.481	*19258.359	*16619.708 *
-13.0	24189.033	*25201.050	*25224.301	*25201.050	*24189.033	*22520.546	*20640.646	*18582.237	*16493.648	*14448.189 *
-15.0	19320.743	*19905.383	*19864.100	*19905.383	*19320.743	*18318.443	*17105.318	*15718.678	*14120.405	*12580.184 *
-17.0	15865.989	*16287.081	*16235.900	*16287.081	*15865.989	*15191.501	*14285.744	*13298.063	*12105.925	*10763.870 *
-19.5	12472.900	*12727.508	*12743.400	*12727.508	*12472.900	*12043.099	*11401.557	*10573.035	*9567.253	*8569.608 *
-22.5	8933.471	*9059.876	*9062.450	*9059.876	*8933.471	*8667.995	*8245.472	*7708.101	*7072.123	*6291.927
-25.5	6498.680	6554.485	6545.650	6554.485	6498.680	6326.177	6036.930	5607.423	5045.138	4383.476
-29.0	4702.782	4782.583	4759.200	4782.583	4702.782	4464.175	4112.335	3649.757	3109.211	2588.973
-33.0	1917.838	1984.207	1978.700	1984.207	1917.838	1770.216	1555.974	1321.567	1057.346	846.338
-37.5	464.342	471.950	473.350	471.950	464.342	437.227	411.423	390.899	373.194	357.315
-42.5	338.144	340.488	339.800	340.488	338.144	326.211	313.271	299.149	281.219	261.400
-47.5	142.750	142.149	141.700	142.149	142.750	142.270	141.224	139.638	137.694	135.116
-55.0	101.268	99.023	97.900	99.023	101.268	102.451	101.911	101.184	101.766	101.590
-65.0	82.442	80.147	79.000	80.147	82.442	83.557	81.968	80.727	80.377	79.699
-75.0	66.607	66.069	65.800	66.069	66.607	67.065	66.544	66.193	67.142	68.236
-85.0	53.461	53.220	53.100	53.220	53.461	53.704	54.146	54.587	55.133	55.455
-90.0	0.455	0.445	0.439	0.445	0.455	0.464	0.461	0.458	0.454	0.449

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	0.495	0.485	0.473	0.457	0.437	0.396	0.385	0.366	0.318	0.292
85.0	54.732	55.583	56.389	55.770	55.138	54.317	51.860	51.976	51.089	48.709
75.0	67.172	67.531	68.115	65.292	63.641	64.653	63.970	63.638	59.784	59.299
65.0	82.516	81.908	79.961	79.242	77.006	74.709	72.546	71.515	69.314	69.164
55.0	101.163	98.212	96.334	94.476	93.081	92.768	91.833	84.566	79.271	76.235
47.5	140.476	141.759	134.604	127.769	116.109	109.228	104.047	97.935	90.075	85.138
42.5	346.632	303.204	245.497	177.137	145.401	133.191	119.342	108.969	100.360	92.126
37.5	369.491	340.599	315.001	283.454	240.742	173.126	146.092	128.101	112.417	100.563
33.0	847.690	639.164	454.832	331.323	296.629	279.109	184.659	147.128	122.953	105.378
29.0	2475.734	1923.236	1273.244	662.110	386.699	301.223	276.388	169.174	134.202	111.941
25.5	4251.617	3590.202	2752.851	1746.426	853.931	389.165	294.359	222.204	145.229	117.056

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : FL2-20L-40-8-N4-U-Y-GM.IES**

**CANDELA TABULATION - (Cont.)**

22.5	6427.997	5624.722	4603.029	3215.228	1844.902	695.255	312.964	264.542	155.693	121.468
19.5	8703.741	*7669.068	6341.345	4760.729	3089.981	1329.346	393.311	276.705	175.627	126.298
17.0	10585.3059	283.879	*7672.452	5768.923	4108.659	2018.826	524.717	277.168	198.139	129.446
15.0	12128.2851	*0520.8038	684.130	*6606.990	4799.392	2615.647	674.776	277.915	212.970	133.811
13.0	13521.6151	*1737.1839	642.215	*7389.814	5428.843	3124.631	884.038	287.177	228.162	138.371
11.0	15104.0011	*2990.1381	*0639.7798	116.494	*5976.761	3570.532	1107.065	302.322	233.421	142.513
9.0	16747.8931	*4204.6321	*1514.9408	751.784	*6458.670	3923.410	1348.974	329.078	238.963	146.505
7.0	18307.2251	*5246.1401	*2214.1929	257.388	*6811.065	4191.541	1518.349	353.968	244.487	149.965
5.0	19718.4761	*6252.2011	*2891.6249	662.430	*7065.889	4365.005	1703.825	377.629	247.688	153.896
3.0	20876.5211	*6997.8851	*3342.1639	879.287	*7183.987	4445.342	1848.469	399.850	253.206	161.172
1.0	21377.6621	*7286.7111	*3455.9229	929.992	*7186.803	4480.939	1936.545	415.651	258.759	168.187
0.0	21339.8011	*7233.0001	*3380.2009	903.800	*7143.850	4447.000	1950.000	420.350	261.250	171.450
-1.0	21274.1371	*7226.3361	*3298.2239	811.747	*7081.790	4466.765	1944.581	421.503	263.708	171.449
-3.0	20483.7161	*6715.1531	*2984.5429	511.069	*6882.026	4419.828	1866.936	418.353	268.177	170.290
-5.0	19305.4051	*5723.7271	*2432.1659	067.141	*6589.649	4321.620	1724.115	405.761	273.123	166.882
-7.0	17709.7211	*4587.2821	*1687.7948	508.878	*6236.422	4115.321	1527.116	389.688	281.704	157.717
-9.0	15921.8811	*3426.3081	*0703.3347	910.558	5921.698	3775.643	1323.352	371.963	288.119	148.669
-11.0	14197.6971	*2135.4029	557.629	*7252.203	5607.217	3350.186	1073.844	354.933	286.353	142.027
-13.0	12657.4171	*0727.8648	528.431	*6584.267	5144.209	2835.503	851.833	345.968	278.814	137.116
-15.0	11090.7739	342.245	*7608.159	6002.199	4433.047	2276.554	646.506	341.725	250.351	131.319
-17.0	9345.569	*8058.839	*6698.250	5368.532	3630.594	1710.000	511.899	346.373	218.377	126.150
-19.5	7577.144	6604.093	5515.322	4281.730	2643.570	1089.766	420.510	349.977	178.398	122.697
-22.5	5503.809	4830.200	4053.497	2820.543	1571.511	584.292	378.359	319.463	156.793	118.324
-25.5	3717.822	3165.836	2464.474	1463.403	705.922	403.646	372.213	241.761	144.181	113.765
-29.0	2179.612	1704.489	1083.025	569.930	390.384	363.589	315.105	173.009	133.723	107.321
-33.0	655.412	526.150	417.768	343.939	326.987	310.928	181.291	146.104	122.509	102.667
-37.5	342.722	328.251	304.448	275.114	241.981	172.227	140.769	125.989	108.482	97.011
-42.5	239.714	214.786	187.499	174.338	143.353	125.087	115.127	104.819	96.648	89.261
-47.5	130.912	128.082	124.459	118.818	110.761	104.740	98.651	94.225	90.463	84.403
-55.0	98.062	96.041	94.546	93.252	89.247	89.065	87.837	83.994	81.898	75.300
-65.0	79.098	78.793	79.291	77.103	75.223	73.540	72.521	69.566	70.890	66.959
-75.0	68.167	66.808	66.387	66.194	64.034	63.829	62.952	61.161	60.799	60.252
-85.0	55.830	54.858	53.747	53.046	52.433	52.414	53.390	52.966	51.362	50.541
-90.0	0.443	0.436	0.428	0.420	0.412	0.400	0.382	0.363	0.335	0.302

**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	0.250	0.192	0.103	0.037	0.000
85.0	46.060	45.266	41.965	18.280	0.037
75.0	56.503	53.972	47.607	42.765	0.109
65.0	62.629	56.472	52.855	45.086	0.178
55.0	71.389	61.961	55.292	48.222	0.242
47.5	75.731	64.671	55.890	48.710	0.285
42.5	82.071	68.135	59.220	48.838	0.311
37.5	86.929	68.383	57.932	49.142	0.335
33.0	88.974	73.290	60.382	49.528	0.354
29.0	91.883	73.572	62.082	49.778	0.369
25.5	94.819	74.077	62.072	49.890	0.381
22.5	97.600	75.281	62.200	49.915	0.390
19.5	99.055	76.962	62.623	49.883	0.398
17.0	99.694	78.258	62.867	49.817	0.404
15.0	100.147	78.925	62.919	49.743	0.408
13.0	101.971	79.257	62.891	49.654	0.411
11.0	103.774	79.762	62.791	49.512	0.414
9.0	104.880	79.747	62.629	49.402	0.417

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : FL2-20L-40-8-N4-U-Y-GM.IES**

**CANDELA TABULATION - (Cont.)**

<b>7.0</b>	105.347	79.538	62.415	49.291	0.419
<b>5.0</b>	105.626	79.208	62.203	49.180	0.420
<b>3.0</b>	105.990	78.839	61.882	49.068	0.421
<b>1.0</b>	106.130	78.280	61.561	48.956	0.422
<b>0.0</b>	106.200	78.000	61.400	48.900	0.422
<b>-1.0</b>	106.410	78.047	61.727	48.900	0.422
<b>-3.0</b>	106.830	78.140	62.380	49.031	0.421
<b>-5.0</b>	106.512	78.063	63.032	49.118	0.420
<b>-7.0</b>	105.901	77.963	63.506	49.205	0.419
<b>-9.0</b>	104.196	77.771	63.972	49.292	0.417
<b>-11.0</b>	102.051	77.471	64.342	49.378	0.414
<b>-13.0</b>	99.645	77.037	64.595	49.615	0.411
<b>-15.0</b>	98.747	76.659	64.715	49.743	0.408
<b>-17.0</b>	97.847	76.346	64.684	49.875	0.404
<b>-19.5</b>	95.569	76.442	64.208	50.043	0.398
<b>-22.5</b>	93.800	77.367	62.499	50.247	0.390
<b>-25.5</b>	90.833	76.411	61.324	50.451	0.381
<b>-29.0</b>	88.613	74.781	60.720	50.689	0.369
<b>-33.0</b>	85.777	70.527	59.387	50.955	0.354
<b>-37.5</b>	84.775	69.322	57.289	51.215	0.335
<b>-42.5</b>	78.022	67.331	58.258	49.878	0.311
<b>-47.5</b>	76.387	65.539	57.431	48.501	0.285
<b>-55.0</b>	67.272	60.572	55.382	46.614	0.242
<b>-65.0</b>	61.205	58.226	53.752	46.044	0.178
<b>-75.0</b>	56.143	52.589	48.508	43.326	0.109
<b>-85.0</b>	50.578	46.093	45.018	18.367	0.037
<b>-90.0</b>	0.252	0.198	0.118	0.037	0.000

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : FL2-20L-40-8-N4-U-Y-GM.IES**

**LUMEN TABULATION**

Average Of Right And Left Sides  
 Total Luminaire Lumens (one side of beam only) = 8547.22  
 Total Field Lumens (one side of beam only) = 7046.84  
 \* 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										
85	0.04	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.10
75	0.17	0.36	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.45
65	0.22	0.45	0.46	0.46	0.46	0.46	0.45	0.44	0.44	0.54
55	0.28	0.57	0.57	0.57	0.57	0.56	0.56	0.55	0.53	0.64
47.5	0.30	0.61	0.61	0.60	0.59	0.58	0.56	0.55	0.53	0.64
42.5	0.54	1.06	1.04	1.00	0.95	0.88	0.82	0.76	0.68	0.75
37.5	0.86	1.68	1.61	1.53	1.43	1.32	1.23	1.12	1.00	1.09
33	2.01	3.98	3.79	3.47	3.09	2.67	2.23	1.82	1.45	1.42
29	4.63	9.08	8.66	7.99	7.18	6.30	5.37	4.41	3.45	3.10
25.5	6.54	12.89	12.45	11.74	10.86	9.84	8.73	7.55	6.27	6.04
22.5	7.80 *	15.48 *	15.08 *	14.36	13.46	12.41	11.26	10.05	8.74	8.99
19.5	10.87 *	21.61 *	21.02 *	20.00 *	18.74 *	17.33 *	15.80 *	14.19 *	12.48	13.15
17	12.01 *	23.79 *	23.02 *	21.81 *	20.35 *	18.71 *	16.95 *	15.12 *	13.26 *	14.00
15	12.06 *	23.75 *	22.77 *	21.36 *	19.72 *	17.94 *	16.08 *	14.26 *	12.45 *	13.08 *
13	15.08 *	29.53 *	27.97 *	25.82 *	23.39 *	20.86 *	18.43 *	16.18 *	14.03 *	14.67 *
11	19.30 *	37.59 *	35.19 *	31.92 *	28.13 *	24.44 *	21.11 *	18.20 *	15.62 *	16.27 *
9	26.23 *	50.53 *	45.96 *	40.23 *	34.21 *	28.84 *	24.23 *	20.43 *	17.29 *	17.84 *
7	37.13 *	70.82 *	62.45 *	52.05 *	42.00 *	33.97 *	27.71 *	22.79 *	18.89 *	19.23 *
5	45.90 *	89.19 *	81.05 *	67.17 *	51.73 *	39.75 *	31.24 *	25.01 *	20.36 *	20.47 *
3	47.91 *	95.58 *	92.01 *	79.85 *	61.37 *	45.32 *	34.38 *	26.95 *	21.62 *	21.51 *
1	47.23 *	94.95 *	94.50 *	86.50 *	68.20 *	49.21 *	36.43 *	28.22 *	22.41 *	22.09 *
0	23.42 *	47.00 *	47.29 *	44.19 *	35.25 *	25.24 *	18.53 *	14.30 *	11.31 *	11.09 *
-1	23.40 *	47.00 *	47.28 *	44.11 *	35.16 *	25.20 *	18.51 *	14.27 *	11.28 *	11.05 *
-3	47.20 *	94.93 *	94.13 *	85.48 *	66.99 *	48.37 *	35.93 *	27.89 *	22.16 *	21.78 *
	47.71 *	94.88 *	90.14 *	77.06 *	58.79 *	43.56 *	33.39 *	26.37 *	21.15 *	20.92 *



**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : FL2-20L-40-8-N4-U-Y-GM.IES**

**LUMENS TABULATION - (Cont.)**

<b>-5</b>	44.10 *	85.43 *	76.62 *	62.91 *	48.67 *	37.84 *	30.11 *	24.30 *	19.71 *	19.68 *
<b>-7</b>	33.97 *	64.86 *	57.15 *	47.80 *	39.11 *	32.17 *	26.53 *	21.89 *	18.05 *	18.23 *
<b>-9</b>	23.72 *	45.88 *	41.96 *	36.88 *	31.71 *	27.13 *	23.07 *	19.43 *	16.30 *	16.57 *
<b>-11</b>	17.60 *	34.39 *	32.27 *	29.35 *	26.12 *	22.93 *	19.91 *	17.12 *	14.56 *	14.81 *
<b>-13</b>	13.74 *	26.98 *	25.63 *	23.81 *	21.73 *	19.47 *	17.17 *	15.01 *	12.83 *	13.09 *
<b>-15</b>	11.01 *	21.73 *	20.87 *	19.66 *	18.22 *	16.57 *	14.77 *	12.94 *	11.08 *	11.47
<b>-17</b>	11.04 *	21.82 *	21.11 *	20.04 *	18.69 *	17.08 *	15.27 *	13.39 *	11.56	12.15
<b>-19.5</b>	9.96 *	19.72 *	19.20 *	18.34 *	17.16 *	15.71 *	14.08	12.39	10.77	11.39
<b>-22.5</b>	7.13	14.18	13.87	13.30	12.49	11.44	10.19	8.82	7.56	7.87
<b>-25.5</b>	6.03	12.01	11.69	11.10	10.24	9.14	7.89	6.66	5.52	5.33
<b>-29</b>	4.11	8.15	7.81	7.21	6.42	5.48	4.53	3.71	2.97	2.70
<b>-33</b>	1.68	3.31	3.14	2.85	2.50	2.12	1.77	1.46	1.22	1.28
<b>-37.5</b>	0.62	1.23	1.19	1.13	1.07	1.01	0.95	0.89	0.82	0.94
<b>-42.5</b>	0.37	0.73	0.72	0.70	0.67	0.64	0.61	0.57	0.52	0.59
<b>-47.5</b>	0.27	0.55	0.56	0.55	0.55	0.54	0.53	0.52	0.50	0.60
<b>-55</b>	0.27	0.55	0.56	0.56	0.55	0.55	0.54	0.53	0.52	0.63
<b>-65</b>	0.22	0.45	0.46	0.45	0.45	0.44	0.44	0.44	0.43	0.53
<b>-75</b>	0.18	0.36	0.37	0.37	0.36	0.36	0.37	0.37	0.36	0.44
<b>-85</b>	0.04	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.10
<b>-90</b>										
<b>Total</b>	624.90	1229.82	1164.75	1036.84	859.83	694.91	569.18	472.38	393.20	399.28

**Vert. Horizontal Angles**

<b>Angles</b>	<b>19.5</b>	<b>22.5</b>	<b>25.5</b>	<b>29</b>	<b>33</b>	<b>37.5</b>	<b>42.5</b>	<b>47.5</b>	<b>55</b>	<b>65</b>
<b>90</b>	0.12	0.12	0.13	0.14	0.15	0.15	0.14	0.17	0.17	0.11
<b>85</b>	0.52	0.50	0.56	0.61	0.65	0.66	0.59	0.75	0.77	0.49
<b>75</b>	0.62	0.60	0.66	0.72	0.76	0.77	0.69	0.88	0.87	0.55
<b>65</b>	0.75	0.72	0.80	0.87	0.90	0.89	0.79	1.00	0.96	0.59
<b>55</b>	0.72	0.68	0.73	0.78	0.79	0.77	0.67	0.83	0.78	0.46
<b>47.5</b>	0.73	0.59	0.60	0.61	0.60	0.58	0.49	0.60	0.55	0.32

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : FL2-20L-40-8-N4-U-Y-GM.IES**

**LUMENS TABULATION - (Cont.)**

<b>42.5</b>										
	1.09	0.88	0.82	0.75	0.70	0.66	0.55	0.65	0.58	0.33
<b>37.5</b>										
	1.33	1.08	1.06	0.92	0.76	0.67	0.53	0.61	0.54	0.30
<b>33</b>										
	2.32	1.40	1.20	1.09	0.87	0.67	0.51	0.57	0.50	0.28
<b>29</b>										
	4.80	2.67	1.60	1.15	0.94	0.68	0.48	0.52	0.45	0.25
<b>25.5</b>										
	7.88	4.80	2.69	1.32	0.92	0.69	0.44	0.46	0.39	0.21
<b>22.5</b>										
	12.11	8.08	4.95	2.14	1.05	0.76	0.47	0.48	0.40	0.22
<b>19.5</b>										
	13.09	9.25	6.25	2.78	1.03	0.68	0.42	0.41	0.34	0.18
<b>17</b>										
	12.26	8.88	6.42	3.05	0.98	0.56	0.36	0.33	0.27	0.15
<b>15</b>										
	13.79 *	10.11	7.57	3.81	1.19	0.59	0.38	0.34	0.27	0.15
<b>13</b>										
	15.26 *	11.23	8.58	4.54	1.44	0.61	0.40	0.35	0.28	0.15
<b>11</b>										
	16.64 *	12.23	9.44	5.19	1.73	0.64	0.41	0.36	0.28	0.15
<b>9</b>										
	17.80 *	13.06	10.13	5.73	1.99	0.68	0.42	0.36	0.28	0.15
<b>7</b>										
	18.78 *	13.69 *	10.63	6.15	2.21	0.71	0.43	0.37	0.28	0.15
<b>5</b>										
	19.52 *	14.10 *	10.93	6.45	2.42	0.75	0.44	0.38	0.28	0.15
<b>3</b>										
	19.88 *	14.27 *	11.04	6.64	2.57	0.77	0.45	0.39	0.28	0.15
<b>1</b>										
	9.95 *	7.13 *	5.51	3.35	1.32	0.40	0.23	0.20	0.14	0.07
<b>0</b>										
	9.89 *	7.08 *	5.48	3.34	1.33	0.40	0.23	0.20	0.14	0.07
<b>-1</b>										
	19.45 *	13.89 *	10.83	6.63	2.60	0.80	0.47	0.40	0.28	0.15
<b>-3</b>										
	18.77 *	13.38 *	10.53	6.44	2.47	0.80	0.47	0.39	0.28	0.15
<b>-5</b>										
	17.78 *	12.69	10.08	6.10	2.26	0.79	0.47	0.38	0.28	0.15
<b>-7</b>										
	16.55 *	11.93	9.50	5.61	2.02	0.78	0.47	0.37	0.28	0.15
<b>-9</b>										
	15.11 *	11.14	8.84	4.97	1.75	0.76	0.47	0.36	0.27	0.15
<b>-11</b>										
	13.62 *	10.26	8.03	4.24	1.47	0.74	0.45	0.34	0.27	0.15
<b>-13</b>										
	12.25	9.25	6.96	3.45	1.22	0.71	0.43	0.33	0.27	0.15
<b>-15</b>										
	10.95	8.11	5.71	2.69	1.03	0.67	0.39	0.32	0.27	0.15
<b>-17</b>										
	11.66	8.31	5.37	2.44	1.14	0.80	0.43	0.39	0.33	0.18
<b>-19.5</b>										
	10.67	7.09	4.19	1.94	1.23	0.88	0.47	0.46	0.39	0.22
<b>-22.5</b>										
	6.91	4.11	2.32	1.36	1.10	0.75	0.43	0.45	0.39	0.22

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : FL2-20L-40-8-N4-U-Y-GM.IES**

**LUMENS TABULATION - (Cont.)**

<b>-25.5</b>	4.17	2.29	1.55	1.33	1.08	0.71	0.47	0.50	0.44	0.25
<b>-29</b>	2.06	1.36	1.32	1.22	0.91	0.67	0.50	0.55	0.49	0.28
<b>-33</b>	1.29	1.12	1.12	0.95	0.75	0.66	0.52	0.60	0.53	0.30
<b>-37.5</b>	1.00	0.87	0.81	0.72	0.68	0.64	0.53	0.62	0.57	0.33
<b>-42.5</b>	0.65	0.57	0.57	0.58	0.58	0.56	0.49	0.59	0.55	0.32
<b>-47.5</b>	0.69	0.64	0.70	0.74	0.77	0.77	0.67	0.81	0.77	0.47
<b>-55</b>	0.73	0.70	0.77	0.84	0.88	0.89	0.79	0.97	0.94	0.59
<b>-65</b>	0.62	0.59	0.66	0.71	0.74	0.77	0.70	0.87	0.87	0.55
<b>-75</b>	0.51	0.49	0.55	0.61	0.64	0.66	0.60	0.78	0.78	0.50
<b>-85</b>	0.11	0.11	0.13	0.14	0.15	0.15	0.14	0.18	0.18	0.12
<b>-90</b>										
<b>Total</b>	365.41	262.03	198.29	115.83	52.79	29.69	20.89	21.85	19.23	11.13

<b>Vert. Angles</b>	<b>Horizontal Angles</b>			<b>Total</b>
	<b>75</b>	<b>85</b>	<b>90</b>	
<b>90</b>	0.04	0.00		2.24
<b>85</b>	0.20	0.01		9.85
<b>75</b>	0.25	0.01		11.77
<b>65</b>	0.27	0.02		13.95
<b>55</b>	0.21	0.01		12.99
<b>47.5</b>	0.14	0.01		14.30
<b>42.5</b>	0.14	0.01		20.00
<b>37.5</b>	0.13	0.01		33.88
<b>33</b>	0.12	0.01		69.69
<b>29</b>	0.10	0.01		106.55
<b>25.5</b>	0.09	0.01		137.51
<b>22.5</b>	0.09	0.01		195.94
<b>19.5</b>	0.07	0.00		213.54
<b>17</b>	0.06	0.00		206.80
<b>15</b>	0.06	0.00		244.20

IES FLOOD REPORT  
PHOTOMETRIC FILENAME : FL2-20L-40-8-N4-U-Y-GM.IES

LUMENS TABULATION - (Cont.)

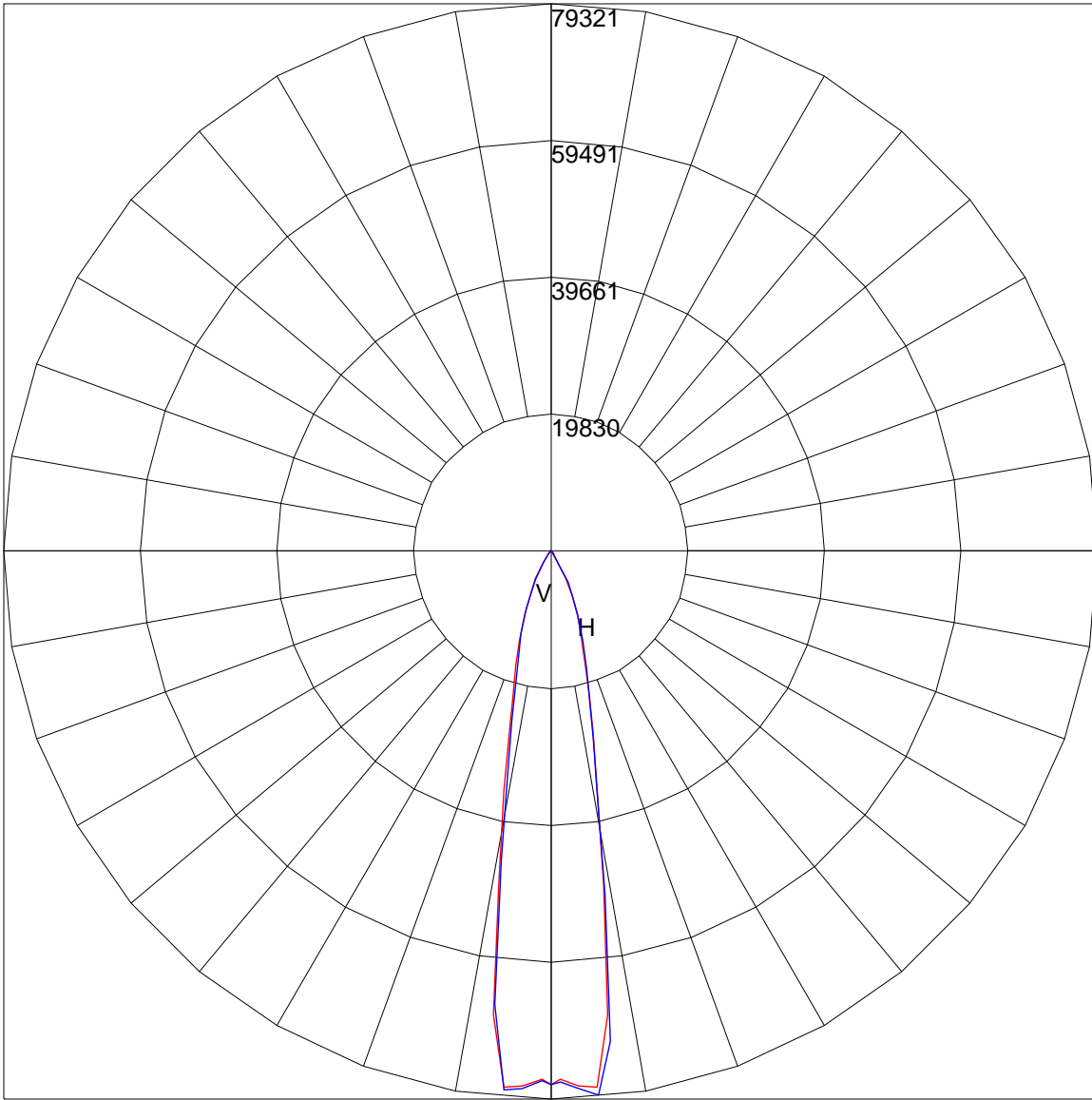
13			
	0.06	0.00	290.68
11			
	0.06	0.00	352.94
9			
	0.06	0.00	437.72
7			
	0.06	0.00	525.33
5			
	0.06	0.00	581.98
3			
	0.06	0.00	606.24
1			
	0.03	0.00	305.94
0			
	0.03	0.00	305.48
-1			
	0.06	0.00	600.41
-3			
	0.06	0.00	567.69
-5			
	0.06	0.00	500.42
-7			
	0.06	0.00	407.46
-9			
	0.06	0.00	326.52
-11			
	0.06	0.00	268.68
-13			
	0.06	0.00	224.55
-15			
	0.06	0.00	188.68
-17			
	0.08	0.00	193.28
-19.5			
	0.09	0.01	176.33
-22.5			
	0.09	0.01	124.98
-25.5			
	0.10	0.01	98.49
-29			
	0.12	0.01	62.57
-33			
	0.13	0.01	29.30
-37.5			
	0.14	0.01	16.76
-42.5			
	0.14	0.01	11.73
-47.5			
	0.21	0.01	12.42
-55			
	0.27	0.02	13.66
-65			
	0.25	0.01	11.64
-75			
	0.21	0.01	9.87

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : FL2-20L-40-8-N4-U-Y-GM.IES**

**LUMENS TABULATION - (Cont.)**

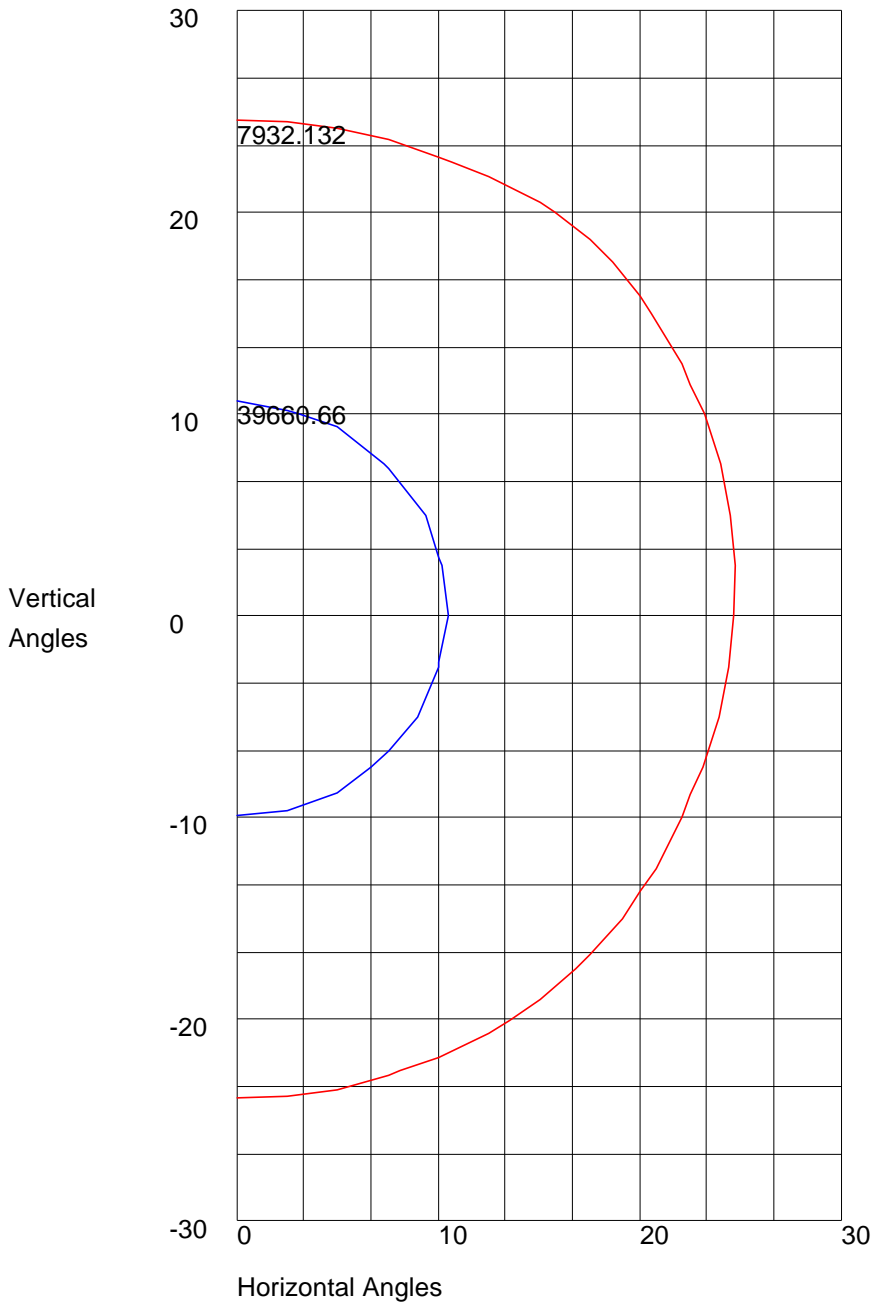
<b>-85</b>	0.04	0.00	2.26
<b>-90</b>			
<b>Total</b>	4.71	0.27	8547.22

AXIAL CANDELA DISPLAY



Maximum Candela = 79321.325 Located At Horizontal Angle = -1, Vertical Angle = 5  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 79321.325 Located At Horizontal Angle = -1, Vertical Angle = 5  
50% Maximum Candela = 39660.6625  
10% Maximum Candela = 7932.1325