



**IES FLOOD REPORT  
PHOTOMETRIC FILENAME : FL2-20L-40-8-N3-U-Y-GM.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 1231977  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 4/5/2016  
 [MANUFAC] Eye Lighting International of North America  
 [LUMCAT] FL2-20L-40-8-N3-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] 24.1 C, 120.03 V, 1.621 A, 193.6 W, 0.994 PF, 60 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	3 H x 3 V
Maximum Candela	153553
Maximum Candela Angle	0H 3V
Horizontal Beam Angle (50%)	14.9
Vertical Beam Angle (50%)	15.7
Horizontal Field Angle (10%)	36.2
Vertical Field Angle (10%)	36.1
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	6470
Beam Efficiency	N.A.
Field Lumens	14905
Field Efficiency	N.A.
Spill Lumens	3230
Luminaire Lumens	18135
Total Efficiency	N.A.
Total Luminaire Watts	193.6
Ballast Factor	1.00



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**AXIAL CANDELA**

DEG.	HOR.	DEG.	VERT.
90	.241	90	.266
85	32.7	85	35.2
75	53.7	75	55.1
65	68.8	65	68.5
55	94.2	55	93.2
47.5	114.2	47.5	113.7
42.5	142.15	42.5	151.25
37.5	193.5	37.5	203.35
33	335.1	33	379.4
29	458.8	29	508.8
25.5	2018.75	25.5	2171
22.5	6550.35	22.5	6505.55
19.5	12605.6	19.5	12170.45
17	18399.9	17	17954.301
15	24085.801	15	23567.801
13	31944.199	13	31383
11	44220.801	11	43403.5
9	64448.602	9	65034.5
7	88465	7	92825.398
5	119973	5	125541
3	151756	3	153553
1	151995.5	1	151590
0	151652.703	0	151652.703
-1	151995.5	-1	152323
-3	151756	-3	152914
-5	119973	-5	112899
-7	88465	-7	82964.102
-9	64448.602	-9	59250.398
-11	44220.801	-11	40752.102
-13	31944.199	-13	30232.9
-15	24085.801	-15	23083.5
-17	18399.9	-17	17597.301
-19.5	12605.6	-19.5	11882.4
-22.5	6550.35	-22.5	5971
-25.5	2018.75	-25.5	1712.05
-29	458.8	-29	453.6
-33	335.1	-33	336.9
-37.5	193.5	-37.5	174.55
-42.5	142.15	-42.5	144.85
-47.5	114.2	-47.5	113.7
-55	94.2	-55	95.6
-65	68.8	-65	74.1
-75	53.7	-75	57.9
-85	32.7	-85	34.9
-90	.241	-90	.262

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**CANDELA TABULATION**

Maximum Candela = 153553  
 Beam Edge = 76776.5 Cd (50% of Max.)  
 Field Edge = 15355.3 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	0.021	0.065	0.109	0.153	0.183	0.203	0.217	0.230	0.240
85.0	0.021	10.576	25.673	28.344	30.600	32.566	33.758	34.677	34.812	35.745
75.0	0.062	25.025	32.048	37.338	41.412	45.259	47.532	49.613	51.038	53.659
65.0	0.102	26.995	36.466	44.425	52.754	58.843	60.911	64.324	65.421	66.699
55.0	0.138	28.455	40.247	52.742	62.495	67.068	71.341	74.879	78.550	83.336
47.5	0.163	29.773	42.879	57.632	67.839	74.515	81.978	89.301	93.829	97.559
42.5	0.178	30.588	44.696	60.508	71.343	80.856	91.660	96.012	101.202	106.489
37.5	0.191	31.371	46.551	62.866	74.739	90.027	96.893	103.019	111.735	120.175
33.0	0.202	31.705	47.928	64.162	78.653	94.355	101.666	110.369	122.720	142.926
29.0	0.211	32.014	49.105	65.613	81.647	96.857	106.211	118.917	141.099	166.805
25.5	0.218	32.242	50.135	66.473	86.216	99.738	110.133	129.039	159.858	183.422
22.5	0.223	32.406	50.924	67.007	88.400	102.087	115.593	139.451	171.405	230.656
19.5	0.227	32.541	51.563	67.485	89.999	103.995	119.827	152.329	184.341	286.196
17.0	0.231	32.630	51.997	67.991	91.164	106.139	123.397	160.699	208.493	336.761
15.0	0.233	32.687	52.322	68.450	91.694	107.247	126.644	165.983	231.863	367.250
13.0	0.235	32.730	52.619	68.828	92.095	108.439	130.948	169.017	255.255	389.943
11.0	0.237	32.949	52.886	69.068	92.393	109.988	133.270	171.896	279.961	408.887
9.0	0.238	32.904	53.120	69.135	92.827	111.107	135.243	176.196	303.447	424.180
7.0	0.239	32.859	53.319	69.141	93.326	111.727	137.257	180.995	314.626	436.656
5.0	0.240	32.814	53.620	69.098	93.760	112.512	139.422	186.173	324.730	447.330
3.0	0.241	32.768	53.652	69.052	94.116	113.444	141.021	190.506	331.518	456.226
1.0	0.241	32.723	53.684	68.884	94.172	114.016	141.934	192.985	335.346	459.702
0.0	0.241	32.700	53.700	68.800	94.200	114.200	142.150	193.500	335.100	458.800
-1.0	0.241	32.700	53.679	68.893	94.256	114.127	142.122	193.012	335.346	459.052
-3.0	0.241	32.737	53.636	69.080	94.368	113.781	141.639	190.600	331.862	454.843
-5.0	0.240	32.761	53.593	69.116	94.179	113.097	140.635	186.659	325.676	447.176
-7.0	0.239	32.786	53.299	69.128	93.912	112.308	139.234	182.161	314.819	435.792
-9.0	0.238	32.810	53.108	69.054	93.542	111.549	137.517	179.544	302.017	422.366
-11.0	0.237	32.834	52.893	68.869	93.118	110.683	135.172	176.334	282.119	406.353
-13.0	0.235	32.604	52.658	68.463	92.695	109.730	132.472	172.375	261.422	387.540
-15.0	0.233	32.544	52.408	68.001	92.197	108.894	128.590	167.979	238.396	365.943
-17.0	0.231	32.474	52.147	67.613	91.536	108.141	125.197	163.325	216.417	337.339
-19.5	0.227	32.369	51.800	67.199	90.442	105.763	121.429	154.999	190.751	292.075
-22.5	0.223	32.220	51.019	66.688	88.800	102.817	116.587	142.575	174.975	236.286
-25.5	0.218	32.047	50.041	65.730	86.279	101.015	112.441	130.924	163.335	188.330
-29.0	0.211	31.814	48.911	65.058	82.156	98.463	107.901	121.174	143.227	169.188
-33.0	0.202	31.510	47.503	63.903	77.284	94.863	101.653	111.532	124.668	144.109
-37.5	0.191	31.188	45.694	62.020	73.726	90.434	97.285	103.995	111.596	120.958
-42.5	0.178	30.406	44.465	59.684	70.373	81.391	91.236	97.300	102.614	107.828
-47.5	0.163	29.597	41.694	56.915	65.988	73.732	81.115	90.858	94.783	97.878
-55.0	0.138	28.302	39.358	51.235	61.531	66.538	69.358	74.287	78.140	82.027
-65.0	0.102	26.894	35.270	42.842	52.321	58.002	60.647	63.915	66.402	67.331
-75.0	0.062	24.586	30.502	35.560	40.059	44.350	46.931	48.715	50.385	52.419
-85.0	0.021	10.316	24.674	26.512	28.827	30.875	32.249	33.339	33.943	34.603
-90.0	0.000	0.021	0.062	0.104	0.138	0.176	0.194	0.211	0.223	0.236

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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	0.253	0.259	0.263	0.269	0.274	0.279	0.285	0.286	0.283	0.280
85.0	36.246	36.538	36.700	36.884	37.044	36.779	36.746	36.600	36.600	36.600
75.0	53.301	54.219	55.664	56.189	56.607	56.601	56.431	56.451	56.951	57.658
65.0	67.450	68.161	69.063	69.566	69.778	69.961	70.119	70.404	70.461	70.328
55.0	88.130	89.736	90.472	91.397	91.661	92.030	92.420	92.857	93.376	93.660
47.5	100.079	102.554	105.014	106.983	108.476	109.966	111.166	111.894	112.489	113.258
42.5	112.951	117.967	121.667	125.369	128.329	132.696	136.013	140.315	143.762	146.477
37.5	130.410	142.896	155.970	165.551	171.692	171.377	172.678	177.142	182.260	187.011
33.0	161.288	171.772	188.769	215.926	241.173	268.541	292.486	317.879	330.994	343.239
29.0	183.422	237.088	297.893	348.609	378.443	399.377	417.054	433.373	449.846	462.261
25.5	254.432	335.951	395.406	435.548	467.084	515.729	635.021	836.204	1205.103	1500.016
22.5	331.196	402.871	461.379	554.278	894.154	1630.218	2586.600	3608.037	4578.382	5431.436
19.5	390.951	460.624	660.758	1764.065	3206.983	4934.878	6885.431	8560.913	9903.460	11015.002
17.0	429.031	543.336	1715.818	4000.502	6492.388	8898.482	11144.775	13005.210	14667.083	16141.944 *
15.0	459.001	803.783	3226.059	6491.339	9613.744	12055.181	14549.185	17039.796	19151.273	21098.788 *
13.0	497.402	1502.664	5098.928	9065.164	12190.202	15154.094	18317.483	21396.768	24318.742	27130.294 *
11.0	584.554	2492.272	7068.916	11401.275	14724.283	18472.177	22225.740	26444.647	30787.518	35902.820 *
9.0	755.554	3610.235	8871.764	13356.788	17246.439	21755.615	26617.205	32710.851	40384.280	49601.142 *
7.0	1186.668	4765.712	10308.909	15176.053	19705.667	24824.385	31524.060	40841.378	54411.979	69440.131 *
5.0	1523.673	5681.167	11465.882	16721.494	21708.273	27859.112	37014.817	50760.927	69424.141	90522.215 *
3.0	1825.593	6210.675	12213.435	17842.407	23143.501	30442.820	41537.155	59281.789	81881.974	106284.473 *
1.0	1988.697	6500.934	12576.812	18437.341	24040.857	31792.202	44150.859	64876.975	89186.682	120352.410 *
0.0	2018.750	6550.350	12605.600	18399.900	24085.801	31944.199	44220.801	64448.602	88465.000	119973.000 *
-1.0	1993.551	6541.455	12551.039	18342.725	23967.742	31829.812	44184.526	64569.578	88349.501	119504.012 *
-3.0	1834.648	6248.211	12198.039	17753.764	23099.427	30227.430	41006.661	58695.729	80144.947	104888.788 *
-5.0	1541.390	5632.034	11385.690	16722.709	21665.558	27859.410	36635.752	49682.600	67332.395	86922.540 *
-7.0	1271.058	4748.198	10221.011	15139.541	19617.507	24820.621	31343.750	40344.170	52567.208	66315.048 *
-9.0	907.936	3717.746	8768.515	13302.717	17325.546	21625.721	26502.437	32397.589	39615.790	48055.594 *
-11.0	675.071	2633.177	6977.436	11219.564	14608.764	18309.165	22233.747	26349.699	30647.921	35481.901 *
-13.0	525.261	1708.335	5076.957	8896.971	12020.624	15092.648	18404.064	21385.985	24367.017	27091.991 *
-15.0	461.951	973.906	3300.737	6472.494	9416.000	11998.677	14518.149	17030.504	19390.584	21188.747 *
-17.0	428.231	581.230	1849.525	4001.545	6358.782	8802.379	11054.332	13026.669	14737.972	16199.212 *
-19.5	389.309	460.739	739.417	1789.793	3187.501	4919.973	6742.754	8419.710	9876.564	11055.645
-22.5	331.938	401.417	463.942	569.019	907.369	1600.626	2495.652	3468.850	4468.998	5317.517
-25.5	257.321	335.372	394.925	435.392	469.067	519.384	630.138	789.363	1133.483	1406.008
-29.0	186.832	237.241	297.360	346.784	376.561	399.350	418.459	434.627	451.580	467.093
-33.0	165.638	174.223	188.265	215.925	239.946	264.396	289.203	314.524	328.872	342.619
-37.5	131.001	144.615	160.027	168.507	173.567	173.140	173.856	175.887	178.588	182.404
-42.5	113.144	117.600	122.559	125.420	128.539	131.827	136.644	140.935	144.261	146.976
-47.5	100.380	102.720	105.858	107.153	108.946	110.690	111.542	112.641	113.547	113.987
-55.0	86.567	88.984	91.421	92.609	93.174	93.967	94.087	94.112	94.192	94.178
-65.0	68.627	70.691	70.684	71.032	71.765	72.321	72.637	72.869	72.848	72.886
-75.0	54.365	55.202	56.041	56.690	57.046	57.274	57.540	57.858	58.180	58.586
-85.0	35.803	35.954	35.922	36.194	36.434	36.319	36.367	36.297	36.497	36.698
-90.0	0.251	0.258	0.264	0.271	0.276	0.277	0.277	0.277	0.278	0.279

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	0.275	0.269	0.266	0.269	0.275	0.280	0.283	0.286	0.285	0.279
85.0	36.043	35.481	35.200	35.481	36.043	36.600	36.600	36.600	36.746	36.779
75.0	56.715	55.638	55.100	55.638	56.715	57.658	56.951	56.451	56.431	56.601
65.0	69.758	68.919	68.500	68.919	69.758	70.328	70.461	70.404	70.119	69.961

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**CANDELA TABULATION - (Cont.)**

55.0	93.639	93.346	93.200	93.346	93.639	93.660	93.376	92.857	92.420	92.030
47.5	113.635	113.716	113.700	113.716	113.635	113.258	112.489	111.894	111.166	109.966
42.5	148.337	150.447	151.250	150.447	148.337	146.477	143.762	140.315	136.013	132.696
37.5	191.078	199.775	203.350	199.775	191.078	187.011	182.260	177.142	172.678	171.377
33.0	352.171	371.103	379.400	371.103	352.171	343.239	330.994	317.879	292.486	268.541
29.0	473.005	496.428	508.800	496.428	473.005	462.261	449.846	433.373	417.054	399.377
25.5	1812.184	2071.319	2171.000	2071.319	1812.184	1500.016	1205.103	836.204	635.021	515.729
22.5	6009.201	6391.683	6505.550	6391.684	6009.201	5431.436	4578.382	3608.037	2586.600	1630.218
19.5	11658.388	12050.426	12170.450	12050.426	11658.388	11015.002	9903.460	8560.912	6885.431	4934.878
17.0	17116.388	17833.899	17954.301	17833.900	17116.389	16141.944	14667.083	13005.210	11144.775	8898.482
15.0	22372.547	23424.581	23567.801	23424.581	22372.547	21098.788	19151.274	17039.796	14549.185	12055.181
13.0	29344.128	31172.599	31383.000	31172.598	29344.128	27130.294	24318.742	21396.768	18317.483	15154.094
11.0	39941.419	42812.810	43403.500	42812.809	39941.419	35902.820	30787.518	26444.647	22225.740	18472.177
9.0	58227.797	63900.986	65034.500	63900.986	58227.798	49601.142	40384.280	32710.851	26617.205	21755.615
7.0	82244.936	91259.001	92825.398	91259.001	82244.935	69440.131	54411.979	40841.379	31524.060	24824.385
5.0	106865.828	122182.535	125541.000	122182.534	106865.829	70522.215	569424.140	50760.927	37014.817	27859.112
3.0	137760.761	152185.826	153553.000	152185.826	137760.761	106284.472	881.975	559281.788	41537.154	30442.819
1.0	150003.200	152383.584	151590.000	152383.584	150003.200	20352.418	186.682	64876.975	44150.859	31792.202
0.0	151756.000	151995.500	151652.703	151995.500	151756.000	19973.008	8465.000	64448.602	44220.801	31944.199
-1.0	150097.490	152843.553	152323.000	152843.553	150097.490	19504.018	349.502	64569.578	44184.525	31829.813
-3.0	134594.746	151053.513	152914.000	151053.513	134594.746	104888.788	144.947	58695.729	41006.661	30227.430
-5.0	102988.029	116575.461	12899.000	116575.461	102988.029	6922.540	67332.395	49682.600	36635.752	27859.410
-7.0	77932.607	85705.077	82964.102	85705.077	77932.607	66315.048	52567.208	40344.170	31343.750	24820.621
-9.0	55975.572	61320.173	59250.398	61320.173	55975.572	48055.594	39615.790	32397.589	26502.437	21625.721
-11.0	39368.982	41648.171	40752.102	41648.171	39368.982	35481.901	30647.921	26349.699	22233.747	18309.165
-13.0	29309.468	30691.948	30232.900	30691.948	29309.468	29309.468	27091.991	24367.017	21385.985	18404.064
-15.0	22560.914	23418.935	23083.500	23418.935	22560.914	21188.747	19390.584	17030.504	14518.149	11998.677
-17.0	17339.326	17947.502	17597.301	17947.502	17339.326	16199.212	14737.972	13026.669	11054.332	8802.379
-19.5	11800.298	12043.703	11882.400	12043.703	11800.298	11055.645	9876.564	8419.710	6742.754	4919.973
-22.5	5885.060	6070.572	5971.000	6070.572	5885.060	5317.517	4468.998	3468.850	2495.652	1600.626
-25.5	1712.506	1778.097	1712.050	1778.097	1712.506	1406.008	1133.483	789.363	630.138	519.384
-29.0	477.398	465.724	453.600	465.724	477.398	467.093	451.580	434.627	418.459	399.350
-33.0	351.281	344.096	336.900	344.096	351.281	342.619	328.872	314.524	289.203	264.396
-37.5	185.322	178.506	174.550	178.506	185.322	182.404	178.588	175.887	173.856	173.140
-42.5	147.987	146.177	144.850	146.177	147.987	146.976	144.261	140.935	136.644	131.827
-47.5	114.173	113.927	113.700	113.927	114.173	113.987	113.547	112.641	111.542	110.690
-55.0	94.502	95.234	95.600	95.234	94.502	94.178	94.192	94.112	94.087	93.967
-65.0	73.372	73.857	74.100	73.857	73.372	72.886	72.848	72.869	72.637	72.321
-75.0	58.335	58.045	57.900	58.045	58.335	58.586	58.180	57.858	57.540	57.274
-85.0	35.984	35.261	34.900	35.261	35.984	36.698	36.497	36.297	36.367	36.319
-90.0	0.272	0.266	0.262	0.266	0.272	0.279	0.278	0.277	0.277	0.277

**Vert. Angles**      **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	0.274	0.269	0.263	0.259	0.253	0.240	0.230	0.217	0.203	0.183
85.0	37.044	36.884	36.700	36.538	36.246	35.745	34.812	34.677	33.758	32.566
75.0	56.607	56.189	55.664	54.219	53.301	53.659	51.038	49.613	47.532	45.259
65.0	69.778	69.566	69.063	68.161	67.450	66.699	65.421	64.324	60.911	58.843
55.0	91.661	91.397	90.472	89.736	88.130	83.336	78.550	74.879	71.341	67.068
47.5	108.476	106.983	105.014	102.554	100.079	97.559	93.829	89.301	81.978	74.515
42.5	128.329	125.369	121.667	117.967	112.951	106.489	101.202	96.012	91.660	80.856
37.5	171.692	165.551	155.970	142.896	130.410	120.175	111.735	103.019	96.893	90.027
33.0	241.173	215.926	188.769	171.772	161.288	142.926	122.720	110.369	101.666	94.355
29.0	378.443	348.609	297.893	237.088	183.422	166.805	141.099	118.917	106.211	96.857
25.5	467.084	435.548	395.406	335.951	254.432	183.422	159.858	129.039	110.133	99.738

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : FL2-20L-40-8-N3-U-Y-GM.IES**

**CANDELA TABULATION - (Cont.)**

22.5	894.154	554.278	461.379	402.871	331.196	230.656	171.405	139.451	115.593	102.087
19.5	3206.983	1764.065	660.758	460.624	390.951	286.196	184.341	152.329	119.827	103.995
17.0	6492.388	4000.502	1715.818	543.336	429.031	336.761	208.493	160.699	123.397	106.139
15.0	9613.744	6491.339	3226.059	803.783	459.001	367.250	231.863	165.983	126.644	107.247
13.0	12190.2019065.164	5098.928	1502.664	497.402	389.943	255.255	169.017	130.948	108.439	
11.0	14724.28311401.2757068.916	2492.272	584.554	408.887	279.961	171.896	133.270	109.988		
9.0	17246.4391*3356.7888871.764	3610.235	755.554	424.180	303.447	176.196	135.243	111.107		
7.0	19705.6671*5176.05310308.9094765.712	1186.668	436.656	314.626	180.995	137.257	111.727			
5.0	21708.2731*6721.4941*1465.8825681.167	1523.673	447.330	324.730	186.173	139.422	112.512			
3.0	23143.5001*7842.4071*2213.4356210.675	1825.593	456.226	331.518	190.506	141.021	113.444			
1.0	24040.8581*8437.3411*2576.8126500.934	1988.697	459.702	335.346	192.985	141.934	114.016			
0.0	24085.8011*8399.9001*2605.6006550.350	2018.750	458.800	335.100	193.500	142.150	114.200			
-1.0	23967.7421*8342.7251*2551.0396541.455	1993.551	459.052	335.346	193.012	142.122	114.127			
-3.0	23099.4271*7753.7641*2198.0396248.211	1834.648	454.843	331.862	190.600	141.639	113.781			
-5.0	21665.5581*6722.7091*1385.6905632.034	1541.390	447.176	325.676	186.659	140.635	113.097			
-7.0	19617.5071*5139.54110221.0114748.198	1271.058	435.792	314.819	182.161	139.234	112.308			
-9.0	17325.5461*3302.7178768.515	3717.746	907.936	422.366	302.017	179.544	137.517	111.549		
-11.0	14608.76411219.5646977.436	2633.177	675.071	406.353	282.119	176.334	135.172	110.683		
-13.0	12020.6248896.971	5076.957	1708.335	525.261	387.540	261.422	172.375	132.472	109.730	
-15.0	9416.000	6472.494	3300.737	973.906	461.951	365.943	238.396	167.979	128.590	108.894
-17.0	6358.782	4001.545	1849.525	581.230	428.231	337.339	216.417	163.325	125.197	108.141
-19.5	3187.501	1789.793	739.417	460.739	389.309	292.075	190.751	154.999	121.429	105.763
-22.5	907.369	569.019	463.942	401.417	331.938	236.286	174.975	142.575	116.587	102.817
-25.5	469.067	435.392	394.925	335.372	257.321	188.330	163.335	130.924	112.441	101.015
-29.0	376.561	346.784	297.360	237.241	186.832	169.188	143.227	121.174	107.901	98.463
-33.0	239.946	215.925	188.265	174.223	165.638	144.109	124.668	111.532	101.653	94.863
-37.5	173.567	168.507	160.027	144.615	131.001	120.958	111.596	103.995	97.285	90.434
-42.5	128.539	125.420	122.559	117.600	113.144	107.828	102.614	97.300	91.236	81.391
-47.5	108.946	107.153	105.858	102.720	100.380	97.878	94.783	90.858	81.115	73.732
-55.0	93.174	92.609	91.421	88.984	86.567	82.027	78.140	74.287	69.358	66.538
-65.0	71.765	71.032	70.684	70.691	68.627	67.331	66.402	63.915	60.647	58.002
-75.0	57.046	56.690	56.041	55.202	54.365	52.419	50.385	48.715	46.931	44.350
-85.0	36.434	36.194	35.922	35.954	35.803	34.603	33.943	33.339	32.249	30.875
-90.0	0.276	0.271	0.264	0.258	0.251	0.236	0.223	0.211	0.194	0.176

**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	0.153	0.109	0.065	0.021	0.000
85.0	30.600	28.344	25.673	10.576	0.021
75.0	41.412	37.338	32.048	25.025	0.062
65.0	52.754	44.425	36.466	26.995	0.102
55.0	62.495	52.742	40.247	28.455	0.138
47.5	67.839	57.632	42.879	29.773	0.163
42.5	71.343	60.508	44.696	30.588	0.178
37.5	74.739	62.866	46.551	31.371	0.191
33.0	78.653	64.162	47.928	31.705	0.202
29.0	81.647	65.613	49.105	32.014	0.211
25.5	86.216	66.473	50.135	32.242	0.218
22.5	88.400	67.007	50.924	32.406	0.223
19.5	89.999	67.485	51.563	32.541	0.227
17.0	91.164	67.991	51.997	32.630	0.231
15.0	91.694	68.450	52.322	32.687	0.233
13.0	92.095	68.828	52.619	32.730	0.235
11.0	92.393	69.068	52.886	32.949	0.237
9.0	92.827	69.135	53.120	32.904	0.238

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : FL2-20L-40-8-N3-U-Y-GM.IES**

**CANDELA TABULATION - (Cont.)**

<b>7.0</b>	93.326	69.141	53.319	32.859	0.239
<b>5.0</b>	93.760	69.098	53.620	32.814	0.240
<b>3.0</b>	94.116	69.052	53.652	32.768	0.241
<b>1.0</b>	94.172	68.884	53.684	32.723	0.241
<b>0.0</b>	94.200	68.800	53.700	32.700	0.241
<b>-1.0</b>	94.256	68.893	53.679	32.700	0.241
<b>-3.0</b>	94.368	69.080	53.636	32.737	0.241
<b>-5.0</b>	94.179	69.116	53.593	32.761	0.240
<b>-7.0</b>	93.912	69.128	53.299	32.786	0.239
<b>-9.0</b>	93.542	69.054	53.108	32.810	0.238
<b>-11.0</b>	93.118	68.869	52.893	32.834	0.237
<b>-13.0</b>	92.695	68.463	52.658	32.604	0.235
<b>-15.0</b>	92.197	68.001	52.408	32.544	0.233
<b>-17.0</b>	91.536	67.613	52.147	32.474	0.231
<b>-19.5</b>	90.442	67.199	51.800	32.369	0.227
<b>-22.5</b>	88.800	66.688	51.019	32.220	0.223
<b>-25.5</b>	86.279	65.730	50.041	32.047	0.218
<b>-29.0</b>	82.156	65.058	48.911	31.814	0.211
<b>-33.0</b>	77.284	63.903	47.503	31.510	0.202
<b>-37.5</b>	73.726	62.020	45.694	31.188	0.191
<b>-42.5</b>	70.373	59.684	44.465	30.406	0.178
<b>-47.5</b>	65.988	56.915	41.694	29.597	0.163
<b>-55.0</b>	61.531	51.235	39.358	28.302	0.138
<b>-65.0</b>	52.321	42.842	35.270	26.894	0.102
<b>-75.0</b>	40.059	35.560	30.502	24.586	0.062
<b>-85.0</b>	28.827	26.512	24.674	10.316	0.021
<b>-90.0</b>	0.138	0.104	0.062	0.021	0.000

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : FL2-20L-40-8-N3-U-Y-GM.IES**

**LUMEN TABULATION**

Average Of Right And Left Sides  
 Total Luminaire Lumens (one side of beam only) = 9067.62  
 Total Field Lumens (one side of beam only) = 7452.59  
 \* 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	0.03	0.05	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.07
75	0.14	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.27	0.34
65	0.19	0.38	0.39	0.39	0.38	0.38	0.38	0.37	0.37	0.45
55	0.25	0.50	0.50	0.50	0.49	0.49	0.48	0.48	0.47	0.58
47.5	0.24	0.47	0.47	0.47	0.46	0.46	0.45	0.45	0.44	0.53
42.5	0.20	0.40	0.40	0.39	0.38	0.37	0.36	0.35	0.34	0.41
37.5	0.27	0.52	0.51	0.50	0.49	0.47	0.46	0.45	0.43	0.51
33	0.40	0.76	0.73	0.71	0.68	0.65	0.61	0.57	0.52	0.59
29	0.53	1.03	0.99	0.96	0.92	0.88	0.82	0.76	0.69	0.76
25.5	1.40	2.59	2.26	1.92	1.54	1.22	1.03	0.91	0.84	0.93
22.5	3.92	7.44	6.72	5.78	4.63	3.45	2.40	1.55	1.03	1.00
19.5	8.48	16.49	15.55	14.05	12.06	9.74	7.17	4.73	2.82	1.87
17	11.42	22.32	21.24	19.59	17.40	14.85	11.87	8.69	5.66	3.68
15	12.61 *	24.58 *	23.32 *	21.53 *	19.26 *	16.72	13.90	10.95	7.79	5.58
13	16.68 *	32.36 *	30.37 *	27.78 *	24.71 *	21.39 *	17.90	14.49	10.94	8.64
11	22.66 *	43.61 *	40.21 *	35.79 *	31.05 *	26.51 *	22.10 *	17.89	13.87	11.80
9	32.77 *	62.37 *	55.81 *	47.46 *	39.31 *	32.40 *	26.54 *	21.34 *	16.61	14.72
7	47.67 *	90.00 *	78.86 *	64.78 *	50.78 *	39.50 *	31.20 *	24.69 *	19.17 *	17.25
5	65.76 *	122.54 *	106.07 *	85.97 *	64.98 *	48.04 *	36.12 *	27.81 *	21.47 *	19.41
3	84.29 *	157.99 *	134.13 *	105.45 *	78.83 *	56.57 *	40.78 *	30.49 *	23.25 *	21.06
1	92.86 *	180.32 *	156.31 *	120.48 *	89.05 *	62.95 *	44.07 *	32.34 *	24.44 *	22.08
0	46.27 *	92.26 *	82.36 *	63.31 *	46.30 *	32.65 *	22.66 *	16.53 *	12.44 *	11.21 *
-1	46.36 *	92.34 *	82.24 *	63.05 *	46.13 *	32.61 *	22.67 *	16.53 *	12.41 *	11.19 *
-3	92.77 *	179.18 *	154.69 *	119.02 *	88.01 *	62.53 *	43.87 *	32.25 *	24.35 *	22.00
	81.24 *	153.79 *	130.48 *	102.78 *	77.18 *	55.80 *	40.44 *	30.40 *	23.20 *	20.99



**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : FL2-20L-40-8-N3-U-Y-GM.IES**

**LUMENS TABULATION - (Cont.)**

<b>-5</b>	60.64 *	116.65 *	101.54 *	82.74 *	63.32 *	47.40 *	35.95 *	27.77 *	21.42 *	19.33
<b>-7</b>	44.05 *	85.52 *	75.44 *	62.57 *	49.75 *	39.17 *	31.07 *	24.65 *	19.14 *	17.15
<b>-9</b>	30.91 *	60.37 *	54.36 *	46.59 *	38.91 *	32.24 *	26.42 *	21.24 *	16.53	14.56
<b>-11</b>	21.83 *	42.93 *	39.88 *	35.62 *	30.99 *	26.51 *	22.06 *	17.74	13.69	11.63
<b>-13</b>	16.36 *	32.26 *	30.43 *	27.88 *	24.79 *	21.40 *	17.88	14.34	10.78	8.59
<b>-15</b>	12.50 *	24.74 *	23.48 *	21.66 *	19.36 *	16.69	13.82	10.81	7.69	5.65
<b>-17</b>	11.32	22.50	21.42	19.64	17.37	14.72	11.74	8.60	5.61	3.79
<b>-19.5</b>	8.22	16.35	15.52	13.96	11.87	9.51	7.04	4.71	2.83	1.93
<b>-22.5</b>	3.55	7.05	6.53	5.60	4.46	3.32	2.34	1.55	1.05	1.01
<b>-25.5</b>	1.18	2.36	2.16	1.83	1.48	1.19	1.03	0.91	0.83	0.93
<b>-29</b>	0.49	1.00	1.00	0.96	0.92	0.87	0.82	0.76	0.69	0.76
<b>-33</b>	0.35	0.73	0.73	0.70	0.68	0.64	0.60	0.57	0.53	0.60
<b>-37.5</b>	0.25	0.50	0.50	0.49	0.48	0.47	0.46	0.45	0.44	0.52
<b>-42.5</b>	0.20	0.40	0.40	0.39	0.39	0.38	0.37	0.35	0.34	0.42
<b>-47.5</b>	0.24	0.48	0.47	0.47	0.47	0.46	0.46	0.45	0.44	0.54
<b>-55</b>	0.26	0.51	0.51	0.51	0.50	0.50	0.50	0.49	0.48	0.59
<b>-65</b>	0.20	0.40	0.40	0.40	0.39	0.39	0.39	0.38	0.38	0.46
<b>-75</b>	0.14	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.27	0.33
<b>-85</b>	0.03	0.05	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.07
<b>-90</b>										
<b>Total</b>	882.11	1699.67	1500.06	1225.38	961.85	737.17	561.87	431.45	327.09	286.52

**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>	0.08	0.08	0.09	0.09	0.10	0.10	0.09	0.11	0.11	0.07
<b>85</b>	0.39	0.38	0.42	0.46	0.48	0.48	0.43	0.54	0.52	0.32
<b>75</b>	0.53	0.51	0.57	0.62	0.64	0.65	0.57	0.71	0.67	0.39
<b>65</b>	0.68	0.65	0.72	0.77	0.79	0.79	0.69	0.86	0.81	0.45
<b>55</b>	0.62	0.60	0.66	0.69	0.71	0.69	0.60	0.73	0.69	0.38
<b>47.5</b>	0.48	0.45	0.49	0.52	0.53	0.52	0.44	0.53	0.49	0.27

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : FL2-20L-40-8-N3-U-Y-GM.IES**

**LUMENS TABULATION - (Cont.)**

<b>42.5</b>	0.57	0.53	0.56	0.57	0.58	0.57	0.48	0.57	0.51	0.28
<b>37.5</b>	0.63	0.57	0.59	0.58	0.56	0.54	0.46	0.54	0.48	0.26
<b>33</b>	0.76	0.63	0.62	0.60	0.55	0.51	0.43	0.50	0.44	0.24
<b>29</b>	0.95	0.74	0.65	0.59	0.54	0.47	0.39	0.46	0.40	0.21
<b>25.5</b>	1.02	0.83	0.71	0.58	0.50	0.43	0.35	0.40	0.35	0.18
<b>22.5</b>	1.27	0.99	0.88	0.68	0.54	0.46	0.36	0.41	0.36	0.18
<b>19.5</b>	1.80	0.95	0.85	0.66	0.49	0.41	0.31	0.35	0.30	0.16
<b>17</b>	2.68	0.93	0.75	0.60	0.43	0.34	0.25	0.28	0.24	0.13
<b>15</b>	4.53	1.36	0.81	0.65	0.46	0.35	0.25	0.29	0.24	0.13
<b>13</b>	6.89	2.12	0.89	0.70	0.49	0.35	0.26	0.29	0.25	0.13
<b>11</b>	9.40	3.11	1.03	0.74	0.52	0.36	0.26	0.29	0.25	0.13
<b>9</b>	11.75	4.31	1.33	0.77	0.55	0.37	0.27	0.29	0.25	0.13
<b>7</b>	13.74	5.49	1.70	0.80	0.56	0.38	0.27	0.29	0.25	0.13
<b>5</b>	15.17	6.36	2.02	0.81	0.58	0.38	0.27	0.30	0.25	0.13
<b>3</b>	16.00	6.90	2.24	0.83	0.59	0.39	0.27	0.30	0.25	0.13
<b>1</b>	8.15	3.56	1.17	0.41	0.30	0.20	0.14	0.15	0.12	0.06
<b>0</b>	8.16	3.57	1.17	0.41	0.30	0.20	0.14	0.15	0.12	0.06
<b>-1</b>	16.01	6.94	2.25	0.83	0.59	0.39	0.28	0.30	0.25	0.13
<b>-3</b>	15.13	6.37	2.03	0.81	0.58	0.38	0.27	0.30	0.25	0.13
<b>-5</b>	13.64	5.51	1.75	0.80	0.56	0.38	0.27	0.30	0.25	0.13
<b>-7</b>	11.71	4.44	1.44	0.77	0.55	0.37	0.27	0.29	0.25	0.13
<b>-9</b>	9.42	3.31	1.14	0.74	0.53	0.37	0.27	0.29	0.25	0.13
<b>-11</b>	6.99	2.31	0.94	0.70	0.50	0.36	0.26	0.29	0.25	0.13
<b>-13</b>	4.72	1.53	0.82	0.65	0.47	0.35	0.26	0.29	0.24	0.13
<b>-15</b>	2.86	1.02	0.76	0.60	0.44	0.34	0.25	0.29	0.24	0.12
<b>-17</b>	1.94	0.97	0.86	0.68	0.51	0.41	0.31	0.35	0.30	0.16
<b>-19.5</b>	1.32	0.99	0.89	0.70	0.56	0.47	0.36	0.42	0.36	0.18
<b>-22.5</b>	1.02	0.83	0.72	0.60	0.51	0.44	0.35	0.41	0.35	0.18

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : FL2-20L-40-8-N3-U-Y-GM.IES**

**LUMENS TABULATION - (Cont.)**

<b>-25.5</b>	0.94	0.74	0.66	0.61	0.55	0.48	0.40	0.46	0.40	0.21
<b>-29</b>	0.77	0.64	0.63	0.61	0.56	0.52	0.43	0.50	0.44	0.23
<b>-33</b>	0.64	0.58	0.60	0.59	0.57	0.54	0.47	0.54	0.47	0.26
<b>-37.5</b>	0.58	0.53	0.56	0.58	0.58	0.57	0.48	0.56	0.51	0.28
<b>-42.5</b>	0.48	0.45	0.50	0.53	0.54	0.53	0.44	0.52	0.48	0.26
<b>-47.5</b>	0.62	0.59	0.65	0.69	0.71	0.69	0.59	0.72	0.67	0.37
<b>-55</b>	0.69	0.66	0.72	0.77	0.79	0.78	0.69	0.85	0.79	0.44
<b>-65</b>	0.54	0.52	0.58	0.62	0.64	0.64	0.57	0.70	0.65	0.38
<b>-75</b>	0.39	0.38	0.42	0.45	0.47	0.47	0.42	0.51	0.50	0.31
<b>-85</b>	0.08	0.08	0.08	0.09	0.09	0.10	0.09	0.11	0.11	0.07
<b>-90</b>										
<b>Total</b>	196.76	84.99	39.93	27.55	23.08	19.51	15.69	18.32	16.34	8.86

<b>Vert. Angles</b>	<b>Horizontal Angles</b>			<b>Total</b>
	<b>75</b>	<b>85</b>	<b>90</b>	
<b>90</b>	0.02	0.00		1.48
<b>85</b>	0.12	0.01		7.25
<b>75</b>	0.16	0.01		9.71
<b>65</b>	0.17	0.01		12.14
<b>55</b>	0.14	0.01		10.94
<b>47.5</b>	0.10	0.01		8.45
<b>42.5</b>	0.10	0.01		9.93
<b>37.5</b>	0.09	0.00		11.55
<b>33</b>	0.08	0.00		13.73
<b>29</b>	0.08	0.00		20.11
<b>25.5</b>	0.07	0.00		43.35
<b>22.5</b>	0.07	0.00		99.16
<b>19.5</b>	0.06	0.00		143.06
<b>17</b>	0.04	0.00		162.91
<b>15</b>	0.04	0.00		214.37

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : FL2-20L-40-8-N3-U-Y-GM.IES**

**LUMENS TABULATION - (Cont.)**

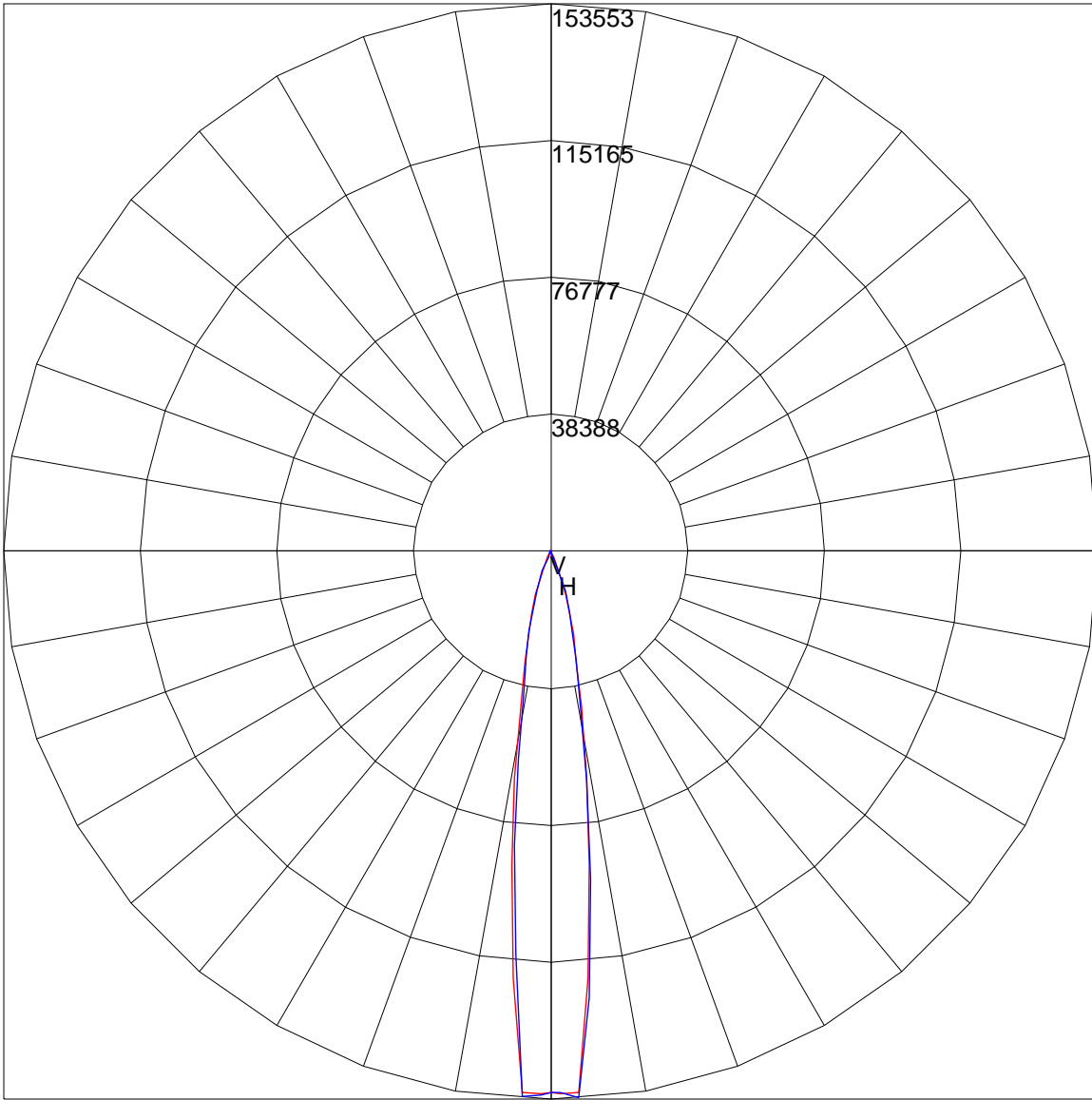
<b>13</b>	0.05	0.00	277.91
<b>11</b>	0.05	0.00	365.46
<b>9</b>	0.05	0.00	483.96
<b>7</b>	0.05	0.00	621.83
<b>5</b>	0.05	0.00	759.17
<b>3</b>	0.05	0.00	852.83
<b>1</b>	0.02	0.00	440.28
<b>0</b>	0.02	0.00	439.84
<b>-1</b>	0.05	0.00	846.66
<b>-3</b>	0.05	0.00	742.60
<b>-5</b>	0.05	0.00	600.39
<b>-7</b>	0.05	0.00	468.79
<b>-9</b>	0.05	0.00	358.63
<b>-11</b>	0.05	0.00	275.67
<b>-13</b>	0.04	0.00	214.22
<b>-15</b>	0.04	0.00	163.37
<b>-17</b>	0.06	0.00	143.24
<b>-19.5</b>	0.07	0.00	98.25
<b>-22.5</b>	0.07	0.00	41.94
<b>-25.5</b>	0.08	0.00	19.44
<b>-29</b>	0.08	0.00	13.68
<b>-33</b>	0.09	0.00	11.47
<b>-37.5</b>	0.10	0.01	9.89
<b>-42.5</b>	0.10	0.01	8.45
<b>-47.5</b>	0.14	0.01	10.93
<b>-55</b>	0.17	0.01	12.20
<b>-65</b>	0.15	0.01	9.77
<b>-75</b>	0.12	0.01	7.16

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : FL2-20L-40-8-N3-U-Y-GM.IES**

**LUMENS TABULATION - (Cont.)**

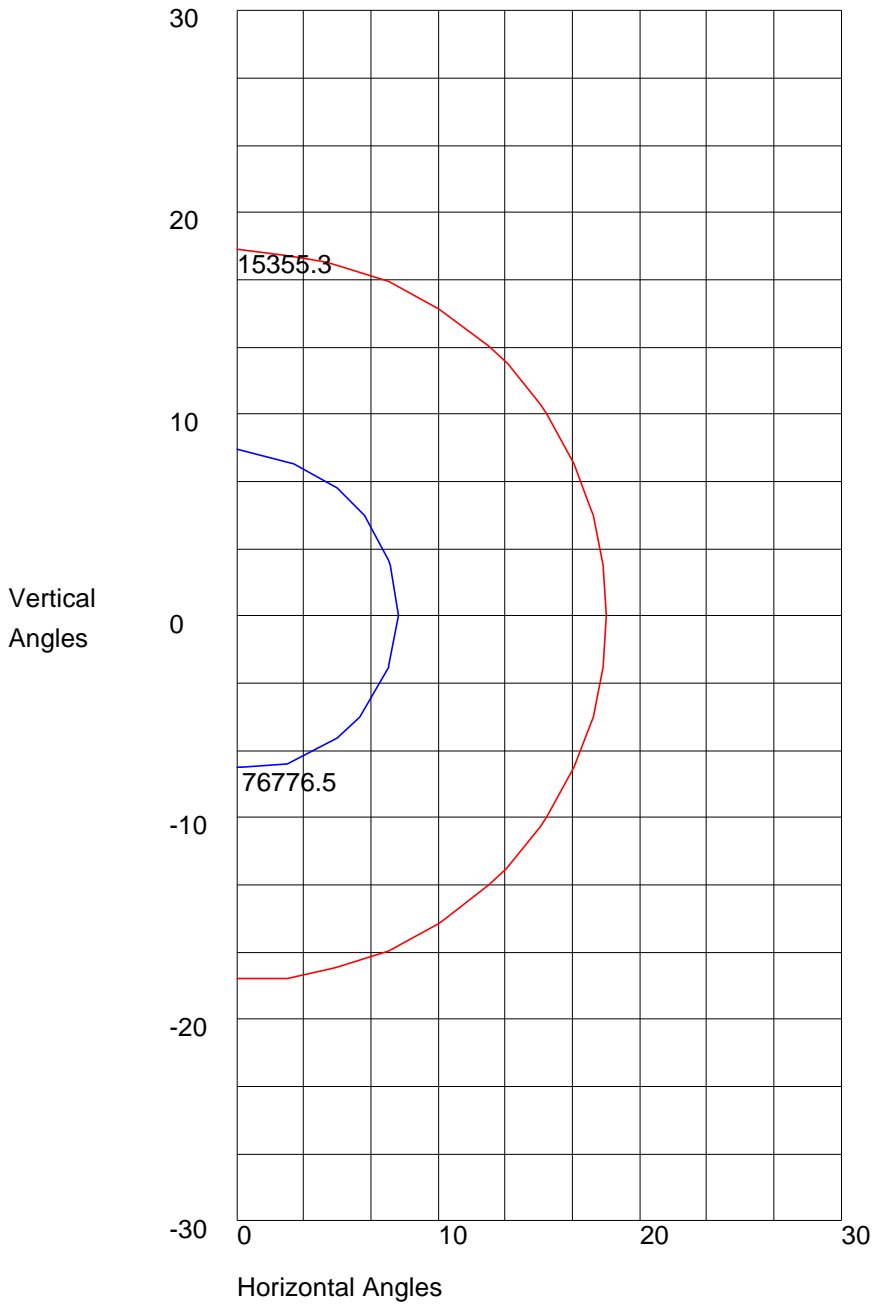
<b>-85</b>	0.02	0.00	1.44
<b>-90</b>			
<b>Total</b>	3.28	0.17	9067.63

AXIAL CANDELA DISPLAY



Maximum Candela = 153553 Located At Horizontal Angle = 0, Vertical Angle = 3  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 153553 Located At Horizontal Angle = 0, Vertical Angle = 3  
50% Maximum Candela = 76776.5  
10% Maximum Candela = 15355.3