



**IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL2-20L-40-8-N2-U-Y-GM.IES**

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 1231979
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 4/7/2016
 [MANUFAC] Eye Lighting International of North America
 [LUMCAT] FL2-20L-40-8-N2-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] 25.4 C, 120.076 V, 1.63917 A, 195.832 W, 0.994951 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	2 H x 2 V
Maximum Candela	387938.688
Maximum Candela Angle	0H 0V
Horizontal Beam Angle (50%)	8.4
Vertical Beam Angle (50%)	8.3
Horizontal Field Angle (10%)	19.0
Vertical Field Angle (10%)	18.5
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	4583
Beam Efficiency	N.A.
Field Lumens	10224
Field Efficiency	N.A.
Spill Lumens	6332
Luminaire Lumens	16557
Total Efficiency	N.A.
Total Luminaire Watts	195.832
Ballast Factor	1.00



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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	.146	90	.18
85	24.2	85	26.9
75	42.7	75	46.2
65	57.2	65	60.7
55	78.6	55	80
47.5	97	47.5	94.95
42.5	121.75	42.5	128.7
37.5	171.35	37.5	163.7
33	283	33	297.5
29	399.4	29	406.9
25.5	1291.9	25.5	940.1
22.5	5705.65	22.5	5589.4
19.5	8697.45	19.5	8770.9
17	10675.3	17	10756.4
15	13414	15	13399.8
13	18105.4	13	17769.5
11	26541.801	11	25663.301
9	42618.398	9	39818.199
7	75314	7	66685.703
5	143277	5	122880
3	272513.5	3	249724
1	379329	1	377881
0	387938.688	0	387938.688
-1	379329	-1	387070
-3	272513.5	-3	294759
-5	143277	-5	151764
-7	75314	-7	75053
-9	42618.398	-9	41345.398
-11	26541.801	-11	26335.9
-13	18105.4	-13	17871.5
-15	13414	-15	13168.8
-17	10675.3	-17	10594.6
-19.5	8697.45	-19.5	8446.8
-22.5	5705.65	-22.5	5690.95
-25.5	1291.9	-25.5	1028.4
-29	399.4	-29	387.6
-33	283	-33	283.1
-37.5	171.35	-37.5	166.85
-42.5	121.75	-42.5	124.15
-47.5	97	-47.5	98.05
-55	78.6	-55	81.9
-65	57.2	-65	58
-75	42.7	-75	45.4
-85	24.2	-85	27.5
-90	.146	-90	.187

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CANDELA TABULATION

Maximum Candela = 387938.688
 Beam Edge = 193969.344 Cd (50% of Max.)
 Field Edge = 38793.8688 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	0.013	0.037	0.060	0.085	0.102	0.115	0.126	0.135	0.141
85.0	0.013	6.398	15.002	16.755	19.043	20.688	21.835	22.696	23.338	23.860
75.0	0.038	15.341	21.181	25.901	30.670	34.024	35.983	38.096	39.569	40.858
65.0	0.062	17.178	26.082	33.338	40.707	46.012	49.076	51.373	53.363	54.881
55.0	0.084	19.079	30.354	40.512	49.703	54.665	57.395	60.253	62.933	65.561
47.5	0.099	20.393	33.057	45.250	54.131	60.309	65.175	72.790	77.789	81.975
42.5	0.108	21.189	34.807	48.091	56.927	64.717	73.984	80.999	85.523	89.232
37.5	0.116	22.000	36.453	50.400	60.162	72.781	80.998	87.045	92.680	99.600
33.0	0.123	22.391	37.749	52.166	63.138	78.183	85.994	93.020	103.001	118.552
29.0	0.128	22.764	38.731	53.148	65.891	82.309	89.582	100.363	119.102	142.136
25.5	0.132	23.060	39.652	54.104	69.293	84.913	93.419	108.897	137.878	161.962
22.5	0.135	23.290	40.353	54.900	71.700	86.706	97.000	118.132	150.708	206.933
19.5	0.138	23.496	40.932	55.400	73.405	88.438	100.824	129.811	164.930	248.733
17.0	0.140	23.650	41.324	55.807	74.790	89.941	104.653	138.520	188.838	282.833
15.0	0.141	23.760	41.606	56.127	75.816	91.017	107.497	144.087	208.946	303.904
13.0	0.142	23.858	41.860	56.438	76.737	92.201	110.745	148.035	226.198	322.674
11.0	0.143	24.143	42.083	56.713	77.257	93.545	113.064	151.089	242.091	341.331
9.0	0.144	24.153	42.273	56.918	77.679	94.445	115.228	154.336	257.780	357.772
7.0	0.145	24.163	42.431	57.065	77.971	95.076	116.805	157.439	265.671	371.964
5.0	0.145	24.174	42.673	57.162	78.266	95.655	118.240	162.382	273.210	383.866
3.0	0.146	24.184	42.684	57.256	78.600	96.348	119.911	167.121	278.411	393.071
1.0	0.146	24.195	42.695	57.219	78.600	96.836	121.268	170.452	282.415	399.003
0.0	0.146	24.200	42.700	57.200	78.600	97.000	121.750	171.350	283.000	399.400
-1.0	0.146	24.200	42.700	57.228	78.544	96.808	121.333	170.453	282.784	399.616
-3.0	0.146	24.195	42.700	57.284	78.432	96.269	120.085	167.137	279.473	394.807
-5.0	0.145	24.191	42.700	57.204	77.976	95.536	118.461	162.338	275.493	386.335
-7.0	0.145	24.188	42.468	57.118	77.552	94.925	116.976	156.654	269.801	374.165
-9.0	0.144	24.184	42.321	56.974	77.241	94.247	115.369	153.496	263.614	359.938
-11.0	0.143	24.181	42.141	56.765	76.895	93.334	113.332	150.597	248.030	343.792
-13.0	0.142	23.898	41.929	56.556	76.553	92.139	111.276	148.241	230.054	326.135
-15.0	0.141	23.803	41.686	56.317	75.691	90.962	108.067	145.243	211.558	308.875
-17.0	0.140	23.695	41.413	56.080	74.594	89.664	104.986	139.249	186.951	290.720
-19.5	0.138	23.544	41.037	55.729	73.259	88.060	101.118	130.609	161.882	256.154
-22.5	0.135	23.337	40.523	55.207	71.700	86.169	97.100	118.742	150.302	212.909
-25.5	0.132	23.104	39.929	54.605	69.371	84.579	93.114	109.443	138.723	161.487
-29.0	0.128	22.800	39.155	53.850	66.138	82.068	89.421	101.046	120.355	146.094
-33.0	0.123	22.411	38.261	52.789	63.576	78.562	85.673	93.325	104.580	121.001
-37.5	0.116	22.000	37.146	51.173	60.990	73.139	81.366	87.043	93.326	101.661
-42.5	0.108	21.339	35.612	48.997	58.209	65.868	74.972	81.198	85.421	89.646
-47.5	0.099	20.716	33.924	46.374	55.285	61.151	66.027	73.081	78.207	82.104
-55.0	0.084	19.609	31.055	41.750	51.000	55.113	57.926	60.511	63.109	66.531
-65.0	0.062	17.490	27.236	34.900	42.060	47.157	49.454	51.868	53.213	54.519
-75.0	0.038	15.563	22.521	27.817	32.580	35.737	37.622	39.132	40.614	41.654
-85.0	0.013	6.485	16.469	19.005	21.632	23.495	24.543	25.648	25.915	26.169
-90.0	0.000	0.013	0.041	0.070	0.100	0.120	0.135	0.147	0.155	0.161

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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	0.148	0.153	0.159	0.162	0.164	0.166	0.168	0.169	0.169	0.169
85.0	24.473	24.966	25.392	25.437	25.441	25.535	25.800	25.819	25.859	25.900
75.0	41.668	42.500	43.392	43.777	44.055	44.292	44.493	44.693	44.941	45.289
65.0	55.796	56.509	57.085	57.608	58.007	58.340	58.627	58.906	59.089	59.250
55.0	68.905	71.727	73.358	74.578	75.622	76.444	77.068	77.607	78.033	78.353
47.5	84.659	86.465	88.173	89.553	90.657	91.606	92.223	92.514	92.756	93.206
42.5	93.221	97.628	101.376	104.379	106.894	109.796	113.457	117.679	121.098	123.040
37.5	107.905	119.946	131.700	139.652	144.880	148.713	151.433	153.785	156.056	158.549
33.0	136.863	149.969	161.417	185.881	206.961	223.853	241.161	260.573	269.806	279.536
29.0	160.590	204.978	250.961	285.152	306.896	326.005	342.599	358.261	372.542	385.179
25.5	220.085	276.677	323.573	361.939	392.855	430.161	475.494	522.823	585.842	643.274
22.5	276.158	328.498	387.223	455.668	548.496	791.227	1369.979	2313.694	3300.084	4128.877
19.5	321.919	389.745	502.028	943.299	2028.081	3754.687	5528.652	6883.001	7759.634	8234.554
17.0	359.897	463.562	1027.985	2978.232	5204.732	7105.672	8233.264	8950.953	9550.865	10082.477
15.0	393.691	589.181	2290.876	5411.124	7614.198	8644.447	9504.994	10415.202	11360.787	12231.869
13.0	434.157	936.681	4086.552	7277.129	8601.137	9724.160	10959.282	12380.173	13888.660	15369.287
11.0	490.089	1652.398	5774.902	8286.769	9504.124	10917.169	12760.348	15015.013	17650.947	20730.793
9.0	569.581	2786.570	7031.218	8967.426	10450.382	12403.473	15097.520	18989.944	23840.133	29340.670
7.0	751.265	3858.401	7850.579	9620.427	11420.055	14053.375	18002.232	24182.483	33270.423	43857.012 *
5.0	886.827	4744.919	8298.585	10123.448	12252.792	15655.096	21496.393	30345.695	44743.925	66733.384 *
3.0	1132.875	5309.455	8541.409	10454.818	12944.106	17145.650	24407.679	39370.897	72759.870	826100.874.571 *
1.0	1270.477	5648.696	8671.298	10687.062	13405.056	18088.455	26562.924	44224.095	77344.020	138565.421 *
0.0	1291.900	5705.650	8697.450	10675.300	13414.000	18105.400	26541.801	42618.398	75314.000	143277.000 *
-1.0	1276.590	5690.930	8676.253	10711.239	13459.912	18082.402	26389.427	42495.526	75646.402	146369.306 *
-3.0	1133.098	5485.448	8532.449	10486.434	13054.011	17361.079	24842.648	38652.425	565614.927	116499.130 *
-5.0	829.261	5066.716	8320.315	10048.919	12331.220	15949.571	22141.879	32014.786	48867.369	80405.166 *
-7.0	651.350	4134.658	8063.396	9562.850	11430.215	14228.148	18637.051	25370.822	35419.824	49149.927 *
-9.0	541.347	2851.971	7528.657	8985.423	10396.732	12449.640	15428.795	19922.107	25836.459	32432.884
-11.0	486.047	1540.606	6440.196	8461.464	9455.852	10882.781	12942.345	15660.352	18880.870	22780.293
-13.0	436.269	842.944	4561.750	7686.228	8588.554	9627.599	10966.299	12468.610	14247.594	16184.007
-15.0	396.585	574.651	2463.333	5910.966	7858.093	8597.979	9451.375	10319.360	11332.469	12369.980
-17.0	364.497	467.451	1014.487	3510.345	5936.767	7481.340	8238.959	8863.296	9525.436	10128.375
-19.5	325.743	393.929	518.220	1110.578	2683.580	4645.257	6318.784	7301.426	7902.436	8268.499
-22.5	284.425	333.976	395.628	476.021	595.855	979.331	1916.823	3163.425	4267.683	5194.935
-25.5	228.484	283.947	328.307	366.563	399.660	443.867	500.139	571.100	719.299	858.677
-29.0	162.495	216.171	258.501	288.232	307.848	327.278	344.760	361.864	377.704	390.735
-33.0	139.697	149.171	168.481	198.895	218.263	237.177	251.902	267.040	275.352	283.169
-37.5	111.037	122.505	134.119	143.536	149.437	149.674	151.442	155.668	159.665	165.843
-42.5	94.941	99.616	103.599	107.210	110.390	114.264	116.665	119.779	122.727	124.723
-47.5	84.660	87.142	89.932	91.815	93.033	94.001	95.097	96.229	97.200	97.960
-55.0	70.577	72.527	74.515	76.103	77.340	78.315	79.259	80.134	80.814	81.401
-65.0	55.319	56.000	56.537	56.917	57.206	57.481	57.712	57.906	58.025	58.097
-75.0	42.702	43.456	44.027	44.444	44.672	44.869	45.057	45.209	45.309	45.500
-85.0	26.769	27.055	27.287	27.361	27.394	27.469	27.700	27.681	27.641	27.600
-90.0	0.168	0.173	0.177	0.180	0.183	0.185	0.186	0.187	0.187	0.187

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	0.174	0.178	0.180	0.178	0.174	0.169	0.169	0.169	0.168	0.166
85.0	26.298	26.699	26.900	26.699	26.298	25.900	25.859	25.819	25.800	25.535
75.0	45.641	46.014	46.200	46.014	45.641	45.289	44.941	44.693	44.493	44.292
65.0	59.840	60.413	60.700	60.413	59.840	59.250	59.089	58.906	58.627	58.340

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55.0	79.048	79.683	80.000	79.683	79.048	78.353	78.033	77.607	77.068	76.444
47.5	93.679	94.572	94.950	94.572	93.679	93.206	92.756	92.514	92.223	91.606
42.5	124.863	127.582	128.700	127.582	124.863	123.040	121.098	117.679	113.457	109.796
37.5	160.744	162.943	163.700	162.943	160.744	158.549	156.056	153.785	151.433	148.713
33.0	288.225	295.554	297.500	295.554	288.225	279.536	269.806	260.573	241.161	223.853
29.0	394.678	404.054	406.900	404.054	394.678	385.179	372.542	358.261	342.599	326.005
25.5	758.455	875.529	940.100	875.529	758.455	643.274	585.842	522.823	475.494	430.161
22.5	4694.867	5286.450	5589.400	5286.451	4694.867	4128.877	3300.084	2313.694	1369.979	791.227
19.5	8479.190	8699.622	8770.900	8699.622	8479.190	8234.554	7759.634	6883.001	5528.652	3754.687
17.0	10441.246	10713.761	10756.400	10713.761	10441.247	10082.477	9550.865	8950.953	8233.264	7105.672
15.0	12836.546	13246.550	13399.800	13246.550	12836.546	12231.869	11360.787	10415.202	9504.994	8644.447
13.0	16570.162	17241.589	17769.500	17241.588	16570.162	15369.287	13888.660	12380.173	10959.282	9724.160
11.0	23280.077	24571.831	25663.301	24571.831	23280.076	20730.793	17650.947	15015.012	12760.348	10917.169
9.0	35407.937	38294.722	39818.199	38294.722	35407.936	29340.670	23840.133	18989.944	15097.520	12403.473
7.0	55699.605	63817.677	66685.703	63817.677	55699.604	43857.011	32704.231	24182.483	18002.232	14053.375
5.0	93906.748	117949.921	122880.000	117949.919	93906.745	66733.384	44743.926	30345.695	21496.393	15655.096
3.0	164658.842	228233.292	249724.000	228233.291	164658.842	100874.575	9870.825	537089.726	24407.679	17145.650
1.0	249583.969	33202.993	377881.000	33202.992	249583.969	38565.429	3442.017	2240.959	26562.923	18088.455
0.0	272513.508	79329.008	7938.688	79329.007	272513.500	43277.000	5314.000	42618.398	26541.801	18105.400
-1.0	273729.995	78857.908	7070.008	78857.907	273729.995	46369.297	5646.402	2495.526	26389.428	18082.402
-3.0	205418.172	96708.288	94759.000	96708.288	205418.171	16499.130	5614.926	38652.426	24842.648	17361.078
-5.0	120531.288	151515.573	1764.000	151515.573	120531.288	405.166	8867.369	32014.786	22141.879	15949.571
-7.0	66964.813	80075.390	75053.000	80075.390	66964.813	49149.927	35419.824	25370.822	18637.051	14228.148
-9.0	39266.244	3691.555	41345.398	3691.555	39266.244	32432.884	25836.459	19922.107	15428.795	12449.640
-11.0	25641.549	27701.879	26335.900	27701.879	25641.549	22780.293	18880.870	15660.352	12942.345	10882.781
-13.0	17792.467	18606.882	17871.500	18606.882	17792.467	16184.007	14247.594	12468.610	10966.299	9627.599
-15.0	13197.270	13502.924	13168.800	13502.924	13197.270	12369.980	11332.469	10319.360	9451.375	8597.979
-17.0	10584.943	10756.137	10594.600	10756.137	10584.943	10128.375	9525.436	8863.296	8238.959	7481.340
-19.5	8483.380	8522.795	8446.800	8522.795	8483.380	8268.499	7902.436	7301.426	6318.784	4645.257
-22.5	5746.350	5854.147	5690.950	5854.147	5746.350	5194.935	4267.683	3163.425	1916.823	979.331
-25.5	1131.405	1131.725	1028.400	1131.725	1131.405	858.677	719.299	571.100	500.139	443.867
-29.0	398.420	393.868	387.600	393.868	398.420	390.735	377.704	361.864	344.760	327.278
-33.0	287.426	285.560	283.100	285.560	287.426	283.169	275.352	267.040	251.902	237.177
-37.5	171.228	169.075	166.850	169.075	171.228	165.843	159.665	155.668	151.442	149.674
-42.5	125.839	124.882	124.150	124.882	125.839	124.723	122.727	119.779	116.665	114.264
-47.5	98.371	98.221	98.050	98.221	98.371	97.960	97.200	96.229	95.097	94.001
-55.0	81.900	81.900	81.900	81.900	81.900	81.401	80.814	80.134	79.259	78.315
-65.0	58.132	58.044	58.000	58.044	58.132	58.097	58.025	57.906	57.712	57.481
-75.0	45.462	45.421	45.400	45.421	45.462	45.500	45.309	45.209	45.057	44.869
-85.0	27.560	27.520	27.500	27.520	27.560	27.600	27.641	27.681	27.700	27.469
-90.0	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.186	0.185

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	0.164	0.162	0.159	0.153	0.148	0.141	0.135	0.126	0.115	0.102
85.0	25.441	25.437	25.392	24.966	24.473	23.860	23.338	22.696	21.835	20.688
75.0	44.055	43.777	43.392	42.500	41.668	40.858	39.569	38.096	35.983	34.024
65.0	58.007	57.608	57.085	56.509	55.796	54.881	53.363	51.373	49.076	46.012
55.0	75.622	74.578	73.358	71.727	68.905	65.561	62.933	60.253	57.395	54.665
47.5	90.657	89.553	88.173	86.465	84.659	81.975	77.789	72.790	65.175	60.309
42.5	106.894	104.379	101.376	97.628	93.221	89.232	85.523	80.999	73.984	64.717
37.5	144.880	139.652	131.700	119.946	107.905	99.600	92.680	87.045	80.998	72.781
33.0	206.961	185.881	161.417	149.969	136.863	118.552	103.001	93.020	85.994	78.183
29.0	306.896	285.152	250.961	204.978	160.590	142.136	119.102	100.363	89.582	82.309
25.5	392.855	361.939	323.573	276.677	220.085	161.962	137.878	108.897	93.419	84.913

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL2-20L-40-8-N2-U-Y-GM.IES

CANDELA TABULATION - (Cont.)

22.5	548.496	455.668	387.223	328.498	276.158	206.933	150.708	118.132	97.000	86.706
19.5	2028.081	943.300	502.028	389.745	321.919	248.733	164.930	129.811	100.824	88.438
17.0	5204.732	2978.232	1027.985	463.562	359.897	282.833	188.838	138.520	104.653	89.941
15.0	7614.198	5411.124	2290.876	589.181	393.691	303.904	208.946	144.087	107.497	91.017
13.0	8601.137	7277.129	4086.552	936.681	434.157	322.674	226.198	148.035	110.745	92.201
11.0	9504.124	8286.769	5774.902	1652.398	490.089	341.331	242.091	151.089	113.064	93.545
9.0	10450.3828967.426	7031.218	2786.570	569.581	357.772	257.780	154.336	115.228	94.445	
7.0	11420.0559620.427	7850.579	3858.401	751.265	371.964	265.671	157.439	116.805	95.076	
5.0	12252.79210123.4488298.585	4744.919	886.827	383.866	273.210	162.382	118.240	95.655		
3.0	12944.10610454.8188541.409	5309.455	1132.875	393.071	278.411	167.121	119.911	96.348		
1.0	13405.05610687.0628671.298	5648.696	1270.477	399.003	282.415	170.452	121.268	96.836		
0.0	13414.00010675.3008697.450	5705.650	1291.900	399.400	283.000	171.350	121.750	97.000		
-1.0	13459.91210711.2398676.253	5690.930	1276.590	399.616	282.784	170.453	121.333	96.808		
-3.0	13054.01110486.4348532.449	5485.448	1133.098	394.807	279.473	167.137	120.085	96.269		
-5.0	12331.22010048.9198320.315	5066.716	829.261	386.335	275.493	162.338	118.461	95.536		
-7.0	11430.2159562.850	8063.396	4134.658	651.350	374.165	269.801	156.654	116.976	94.925	
-9.0	10396.7328985.423	7528.657	2851.971	541.347	359.938	263.614	153.496	115.369	94.247	
-11.0	9455.852	8461.464	6440.196	1540.606	486.047	343.792	248.030	150.597	113.332	93.334
-13.0	8588.554	7686.228	4561.750	842.944	436.269	326.135	230.054	148.241	111.276	92.139
-15.0	7858.093	5910.966	2463.333	574.651	396.585	308.875	211.558	145.243	108.067	90.962
-17.0	5936.767	3510.345	1014.487	467.451	364.497	290.720	186.951	139.249	104.986	89.664
-19.5	2683.580	1110.578	518.220	393.929	325.743	256.154	161.882	130.609	101.118	88.060
-22.5	595.855	476.021	395.628	333.976	284.425	212.909	150.302	118.742	97.100	86.169
-25.5	399.660	366.563	328.307	283.947	228.484	161.487	138.723	109.443	93.114	84.579
-29.0	307.848	288.232	258.501	216.171	162.495	146.094	120.355	101.046	89.421	82.068
-33.0	218.263	198.895	168.481	149.171	139.697	121.001	104.580	93.325	85.673	78.562
-37.5	149.437	143.536	134.119	122.505	111.037	101.661	93.326	87.043	81.366	73.139
-42.5	110.390	107.210	103.599	99.616	94.941	89.646	85.421	81.198	74.972	65.868
-47.5	93.033	91.815	89.932	87.142	84.660	82.104	78.207	73.081	66.027	61.151
-55.0	77.340	76.103	74.515	72.527	70.577	66.531	63.109	60.511	57.926	55.113
-65.0	57.206	56.917	56.537	56.000	55.319	54.519	53.213	51.868	49.454	47.157
-75.0	44.672	44.444	44.027	43.456	42.702	41.654	40.614	39.132	37.622	35.737
-85.0	27.394	27.361	27.287	27.055	26.769	26.169	25.915	25.648	24.543	23.495
-90.0	0.183	0.180	0.177	0.173	0.168	0.161	0.155	0.147	0.135	0.120

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	0.085	0.060	0.037	0.013	0.000
85.0	19.043	16.755	15.002	6.398	0.013
75.0	30.670	25.901	21.181	15.341	0.038
65.0	40.707	33.338	26.082	17.178	0.062
55.0	49.703	40.512	30.354	19.079	0.084
47.5	54.131	45.250	33.057	20.393	0.099
42.5	56.927	48.091	34.807	21.189	0.108
37.5	60.162	50.400	36.453	22.000	0.116
33.0	63.138	52.166	37.749	22.391	0.123
29.0	65.891	53.148	38.731	22.764	0.128
25.5	69.293	54.104	39.652	23.060	0.132
22.5	71.700	54.900	40.353	23.290	0.135
19.5	73.405	55.400	40.932	23.496	0.138
17.0	74.790	55.807	41.324	23.650	0.140
15.0	75.816	56.127	41.606	23.760	0.141
13.0	76.737	56.438	41.860	23.858	0.142
11.0	77.257	56.713	42.083	24.143	0.143
9.0	77.679	56.918	42.273	24.153	0.144

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL2-20L-40-8-N2-U-Y-GM.IES

CANDELA TABULATION - (Cont.)

7.0	77.971	57.065	42.431	24.163	0.145
5.0	78.266	57.162	42.673	24.174	0.145
3.0	78.600	57.256	42.684	24.184	0.146
1.0	78.600	57.219	42.695	24.195	0.146
0.0	78.600	57.200	42.700	24.200	0.146
-1.0	78.544	57.228	42.700	24.200	0.146
-3.0	78.432	57.284	42.700	24.195	0.146
-5.0	77.976	57.204	42.700	24.191	0.145
-7.0	77.552	57.118	42.468	24.188	0.145
-9.0	77.241	56.974	42.321	24.184	0.144
-11.0	76.895	56.765	42.141	24.181	0.143
-13.0	76.553	56.556	41.929	23.898	0.142
-15.0	75.691	56.317	41.686	23.803	0.141
-17.0	74.594	56.080	41.413	23.695	0.140
-19.5	73.259	55.729	41.037	23.544	0.138
-22.5	71.700	55.207	40.523	23.337	0.135
-25.5	69.371	54.605	39.929	23.104	0.132
-29.0	66.138	53.850	39.155	22.800	0.128
-33.0	63.576	52.789	38.261	22.411	0.123
-37.5	60.990	51.173	37.146	22.000	0.116
-42.5	58.209	48.997	35.612	21.339	0.108
-47.5	55.285	46.374	33.924	20.716	0.099
-55.0	51.000	41.750	31.055	19.609	0.084
-65.0	42.060	34.900	27.236	17.490	0.062
-75.0	32.580	27.817	22.521	15.563	0.038
-85.0	21.632	19.005	16.469	6.485	0.013
-90.0	0.100	0.070	0.041	0.013	0.000

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL2-20L-40-8-N2-U-Y-GM.IES

LUMEN TABULATION

Average Of Right And Left Sides
 Total Luminaire Lumens (one side of beam only) = 8278.29
 Total Field Lumens (one side of beam only) = 5112.16
 * 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	0.02	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05
75	0.11	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.20	0.25
65	0.16	0.32	0.32	0.32	0.31	0.31	0.31	0.30	0.30	0.36
55	0.21	0.42	0.42	0.42	0.41	0.41	0.40	0.40	0.39	0.47
47.5	0.20	0.40	0.39	0.39	0.39	0.38	0.38	0.37	0.36	0.44
42.5	0.17	0.34	0.33	0.33	0.32	0.31	0.30	0.29	0.29	0.35
37.5	0.22	0.44	0.43	0.42	0.41	0.40	0.39	0.38	0.36	0.43
33	0.32	0.62	0.61	0.59	0.57	0.54	0.51	0.48	0.45	0.50
29	0.43	0.84	0.82	0.79	0.76	0.72	0.68	0.63	0.58	0.64
25.5	0.70	1.30	1.16	1.05	0.97	0.89	0.82	0.75	0.69	0.77
22.5	2.90	5.30	4.66	3.93	3.04	2.11	1.37	0.96	0.77	0.83
19.5	6.48	12.40	11.64	10.64	9.17	7.24	5.11	3.16	1.75	1.24
17	7.41	14.59	14.14	13.49	12.50	11.10	9.17	6.68	4.08	2.46
15	7.33	14.38	13.85	13.09	12.15	11.13	9.98	8.44	6.21	4.23
13	9.39	18.23	17.32	16.01	14.49	12.98	11.57	10.22	8.46	6.89
11	12.98	24.86	23.08	20.49	17.78	15.33	13.22	11.45	9.86	9.19
9	19.55	37.00	33.05	27.74	22.77	18.56	15.25	12.79	10.89	10.87
7	31.77 *	58.82 *	49.93 *	39.30	30.08	22.88	17.74	14.28	11.85	12.10
5	56.55 *	100.88 *	79.06 *	56.96 *	39.81	28.21	20.62	15.78	12.71	12.98
3	109.47 *	184.10 *	129.50 *	82.47 *	51.90 *	34.00	23.45	17.14	13.40	13.53
1	184.14 *	303.10 *	198.63 *	112.92 *	64.14 *	39.09	25.68	18.20	13.91	13.87
0	114.10 *	190.96 *	122.14 *	65.22 *	35.23 *	20.69	13.30	9.31	7.05	7.00
-1	116.75 *	198.55 *	127.00 *	66.74 *	35.60 *	20.71	13.28	9.32	7.07	7.01
-3	206.73 *	351.51 *	225.47 *	122.42 *	67.09 *	39.71	25.82	18.31	13.97	13.89
	137.79 *	238.72 *	158.87 *	94.33 *	55.85 *	35.29	23.92	17.35	13.45	13.52

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL2-20L-40-8-N2-U-Y-GM.IES

LUMENS TABULATION - (Cont.)

-5	71.34 *	130.62 *	96.34 *	64.78 *	42.73	29.45	21.14	15.94	12.70	13.02
-7	36.58 *	70.02 *	57.07 *	43.27	32.14	23.81	18.10	14.34	11.82	12.34
-9	21.18	41.49	36.50	30.27	24.22	19.18	15.40	12.76	10.92	11.36
-11	13.79	27.32	25.04	21.84	18.48	15.61	13.23	11.40	10.01	9.82
-13	9.62	19.21	18.09	16.40	14.59	12.96	11.51	10.25	8.80	7.46
-15	7.31	14.62	14.06	13.13	12.08	11.06	10.06	8.83	6.80	4.66
-17	7.30	14.59	14.23	13.57	12.67	11.52	9.94	7.66	4.85	2.78
-19.5	6.51	13.06	12.62	11.65	10.24	8.41	6.19	3.95	2.14	1.36
-22.5	3.13	6.33	5.89	5.02	3.95	2.77	1.72	1.07	0.81	0.85
-25.5	0.78	1.63	1.48	1.24	1.07	0.93	0.84	0.76	0.70	0.79
-29	0.41	0.83	0.83	0.80	0.77	0.74	0.69	0.64	0.59	0.66
-33	0.31	0.63	0.62	0.60	0.58	0.56	0.53	0.50	0.47	0.52
-37.5	0.22	0.45	0.45	0.43	0.42	0.41	0.40	0.39	0.37	0.44
-42.5	0.17	0.34	0.34	0.34	0.33	0.32	0.31	0.30	0.29	0.35
-47.5	0.21	0.41	0.41	0.41	0.40	0.39	0.39	0.38	0.37	0.45
-55	0.21	0.43	0.42	0.42	0.42	0.41	0.41	0.40	0.39	0.48
-65	0.16	0.32	0.31	0.31	0.31	0.31	0.31	0.30	0.30	0.37
-75	0.11	0.22	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.26
-85	0.02	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05
-90										
Total	1205.26	2100.89	1498.05	975.07	651.65	462.34	344.96	267.39	211.66	201.91

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.05	0.05	0.06	0.06	0.06	0.07	0.06	0.07	0.07	0.04
85	0.29	0.28	0.31	0.33	0.35	0.35	0.30	0.37	0.35	0.21
75	0.43	0.41	0.46	0.49	0.51	0.51	0.44	0.54	0.50	0.28
65	0.55	0.53	0.58	0.62	0.64	0.64	0.56	0.68	0.62	0.34
55	0.51	0.49	0.54	0.56	0.57	0.56	0.48	0.59	0.54	0.29
47.5	0.40	0.38	0.41	0.44	0.44	0.43	0.36	0.42	0.39	0.21

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL2-20L-40-8-N2-U-Y-GM.IES

LUMENS TABULATION - (Cont.)

42.5	0.48	0.44	0.46	0.48	0.48	0.47	0.39	0.45	0.41	0.22
37.5	0.54	0.48	0.49	0.49	0.47	0.46	0.39	0.44	0.39	0.21
33	0.65	0.54	0.53	0.50	0.46	0.43	0.36	0.41	0.36	0.19
29	0.79	0.63	0.57	0.51	0.46	0.40	0.33	0.38	0.32	0.17
25.5	0.84	0.69	0.61	0.51	0.43	0.37	0.29	0.34	0.29	0.15
22.5	1.03	0.82	0.75	0.60	0.47	0.39	0.30	0.34	0.29	0.15
19.5	1.27	0.80	0.72	0.58	0.44	0.35	0.26	0.29	0.25	0.13
17	1.86	0.75	0.64	0.51	0.38	0.29	0.21	0.24	0.20	0.10
15	3.37	0.98	0.69	0.55	0.41	0.30	0.22	0.24	0.20	0.10
13	5.31	1.47	0.75	0.59	0.43	0.30	0.22	0.24	0.20	0.10
11	7.36	2.29	0.83	0.63	0.45	0.31	0.22	0.25	0.20	0.10
9	9.18	3.32	0.97	0.65	0.47	0.32	0.23	0.25	0.21	0.10
7	10.56	4.27	1.13	0.68	0.48	0.32	0.23	0.25	0.21	0.10
5	11.47	5.04	1.33	0.69	0.49	0.33	0.23	0.25	0.21	0.10
3	12.02	5.58	1.51	0.71	0.50	0.34	0.23	0.25	0.21	0.10
1	6.13	2.90	0.80	0.36	0.25	0.17	0.12	0.13	0.10	0.05
0	6.14	2.91	0.80	0.36	0.25	0.17	0.12	0.13	0.10	0.05
-1	12.11	5.67	1.52	0.71	0.50	0.34	0.23	0.25	0.21	0.10
-3	11.69	5.22	1.30	0.70	0.49	0.33	0.23	0.25	0.21	0.10
-5	10.91	4.46	1.06	0.68	0.48	0.32	0.23	0.25	0.21	0.10
-7	9.63	3.41	0.91	0.66	0.47	0.32	0.23	0.25	0.20	0.10
-9	7.83	2.26	0.82	0.63	0.46	0.31	0.22	0.24	0.20	0.10
-11	5.71	1.38	0.75	0.60	0.43	0.31	0.22	0.24	0.20	0.10
-13	3.60	0.94	0.70	0.56	0.41	0.30	0.22	0.24	0.20	0.10
-15	1.93	0.75	0.64	0.52	0.38	0.29	0.21	0.24	0.20	0.10
-17	1.28	0.81	0.73	0.58	0.43	0.35	0.26	0.29	0.25	0.13
-19.5	1.05	0.84	0.77	0.61	0.47	0.39	0.30	0.34	0.29	0.15
-22.5	0.86	0.71	0.63	0.52	0.43	0.37	0.29	0.33	0.29	0.15

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL2-20L-40-8-N2-U-Y-GM.IES

LUMENS TABULATION - (Cont.)

-25.5	0.81	0.65	0.58	0.52	0.46	0.40	0.33	0.38	0.32	0.17
-29	0.68	0.56	0.54	0.51	0.47	0.43	0.36	0.41	0.36	0.19
-33	0.55	0.49	0.50	0.49	0.48	0.46	0.39	0.44	0.39	0.21
-37.5	0.49	0.45	0.47	0.48	0.49	0.47	0.40	0.46	0.42	0.22
-42.5	0.41	0.38	0.42	0.44	0.44	0.43	0.36	0.43	0.40	0.21
-47.5	0.52	0.49	0.54	0.57	0.58	0.56	0.48	0.60	0.55	0.30
-55	0.55	0.53	0.59	0.62	0.64	0.64	0.56	0.70	0.65	0.35
-65	0.43	0.41	0.46	0.50	0.52	0.52	0.46	0.56	0.52	0.29
-75	0.30	0.29	0.33	0.35	0.37	0.37	0.33	0.41	0.38	0.22
-85	0.06	0.06	0.06	0.07	0.07	0.07	0.06	0.08	0.08	0.05
-90										
Total	152.61	66.84	30.26	23.25	19.40	16.23	12.93	14.93	13.14	6.97

Vert. Angles	Horizontal Angles			Total
	75	85	90	
90	0.01	0.00	0.99	
85	0.08	0.00	5.27	
75	0.11	0.01	7.69	
65	0.12	0.01	9.84	
55	0.10	0.00	8.93	
47.5	0.07	0.00	6.97	
42.5	0.08	0.00	8.26	
37.5	0.07	0.00	9.62	
33	0.06	0.00	11.40	
29	0.06	0.00	13.72	
25.5	0.05	0.00	30.45	
22.5	0.05	0.00	74.03	
19.5	0.04	0.00	100.75	
17	0.03	0.00	106.02	
15	0.03	0.00	132.67	

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL2-20L-40-8-N2-U-Y-GM.IES

LUMENS TABULATION - (Cont.)

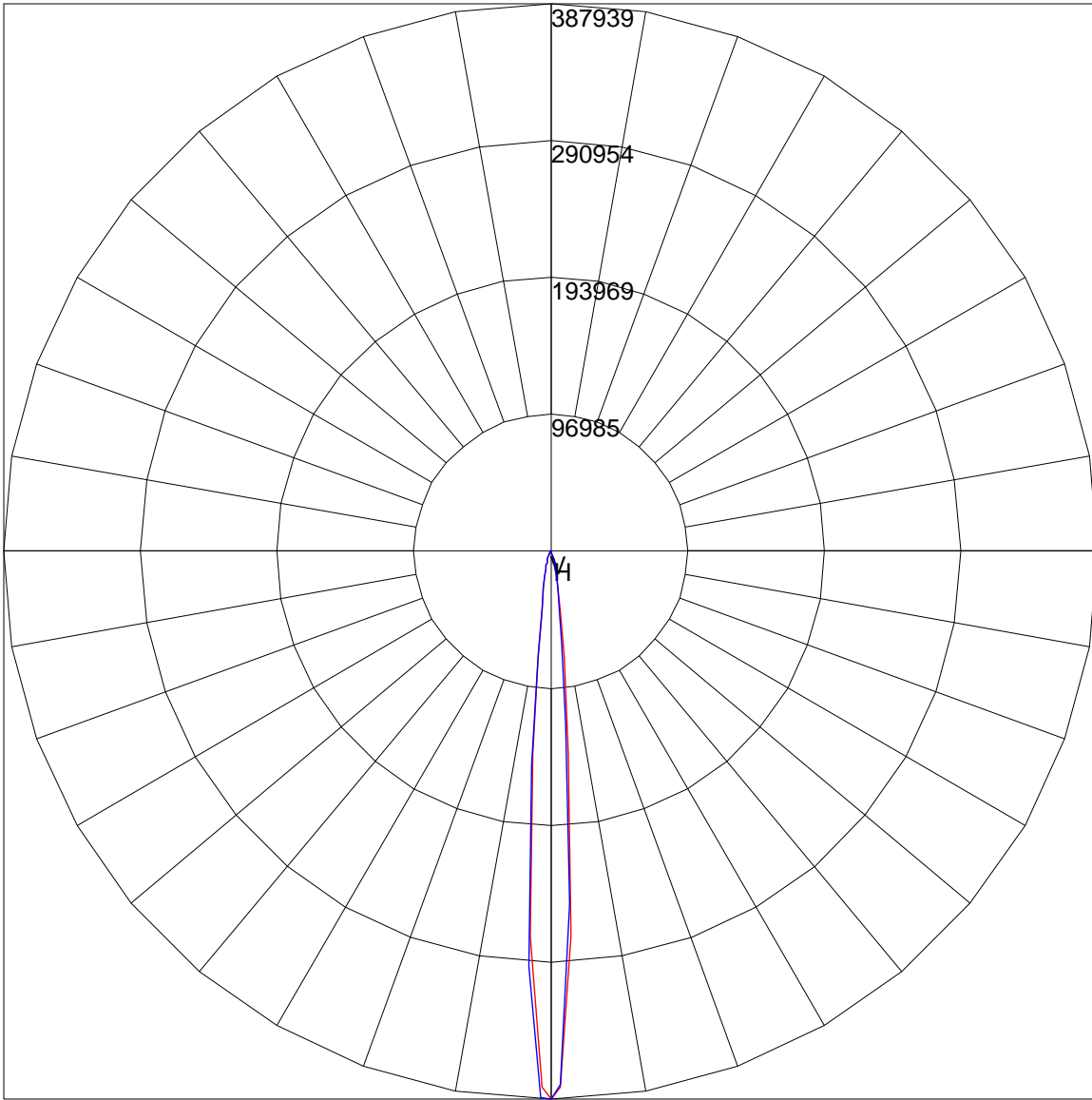
13			
	0.03	0.00	167.90
11			
	0.04	0.00	221.15
9			
	0.04	0.00	304.49
7			
	0.04	0.00	441.83
5			
	0.04	0.00	679.13
3			
	0.04	0.00	995.16
1			
	0.02	0.00	596.05
0			
	0.02	0.00	613.06
-1			
	0.04	0.00	1106.61
-3			
	0.04	0.00	809.65
-5			
	0.04	0.00	516.80
-7			
	0.04	0.00	335.70
-9			
	0.04	0.00	236.43
-11			
	0.03	0.00	176.52
-13			
	0.03	0.00	136.19
-15			
	0.03	0.00	107.93
-17			
	0.04	0.00	104.25
-19.5			
	0.05	0.00	81.41
-22.5			
	0.05	0.00	36.16
-25.5			
	0.06	0.00	14.91
-29			
	0.06	0.00	11.55
-33			
	0.07	0.00	9.80
-37.5			
	0.08	0.00	8.41
-42.5			
	0.07	0.00	7.10
-47.5			
	0.10	0.01	9.12
-55			
	0.13	0.01	9.95
-65			
	0.11	0.01	7.77
-75			
	0.08	0.00	5.55

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL2-20L-40-8-N2-U-Y-GM.IES

LUMENS TABULATION - (Cont.)

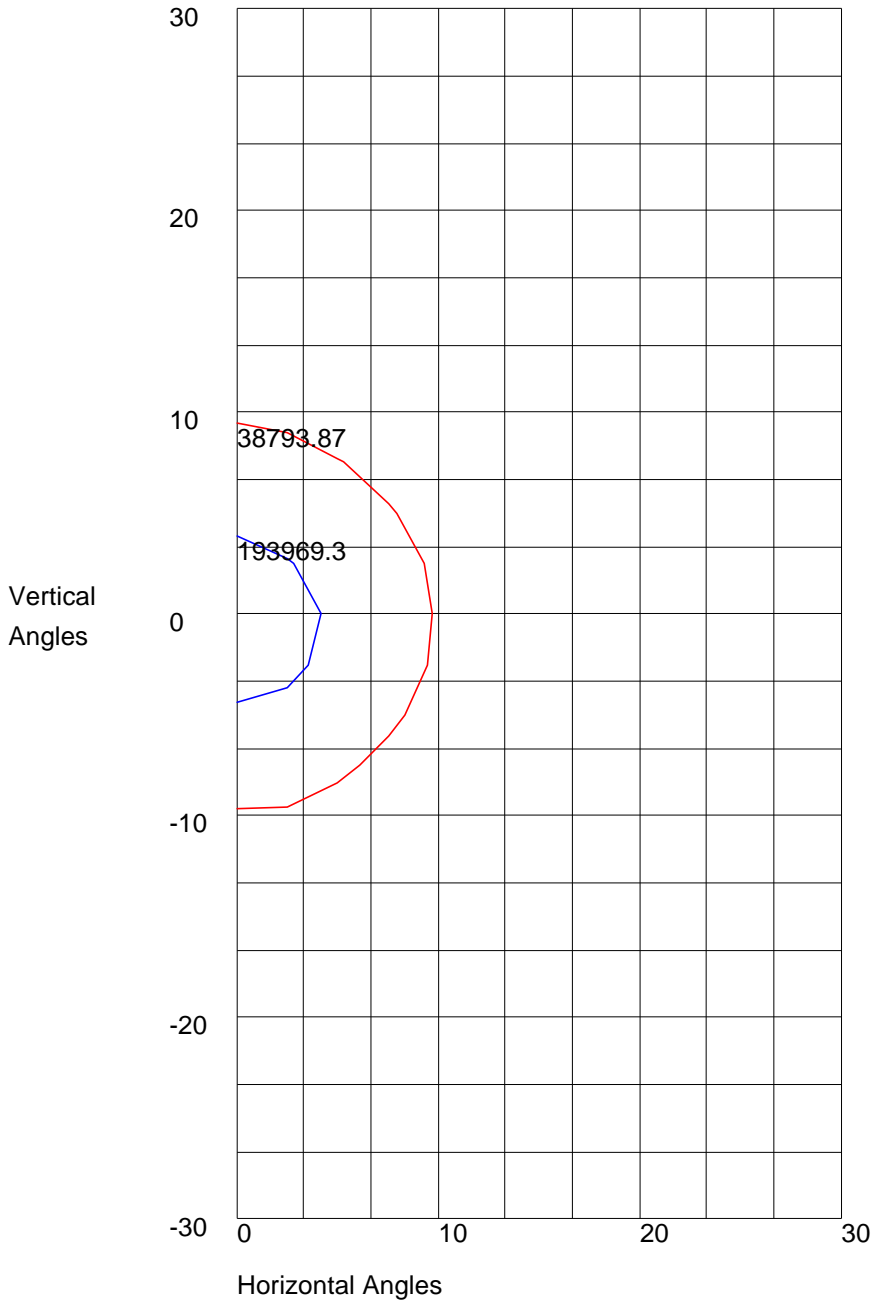
-85	0.02	0.00	1.08
-90			
Total	2.42	0.11	8278.29

AXIAL CANDELA DISPLAY



Maximum Candela = 387938.688 Located At Horizontal Angle = 0, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 387938.688 Located At Horizontal Angle = 0, Vertical Angle = 0
50% Maximum Candela = 193969.344
10% Maximum Candela = 38793.8688