



**IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL2-20L-50-8-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-50-8-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.
 [OTHER] lumen values prorated based on test data

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

CHARACTERISTICS

NEMA Type	4 H x 4 V
Maximum Candela	83643.381
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	6697
Beam Efficiency	N.A.
Field Lumens	14862
Field Efficiency	N.A.
Spill Lumens	3164
Luminaire Lumens	18026
Total Efficiency	N.A.
Total Luminaire Watts	191.207
Ballast Factor	1.00



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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	.445	90	.444
85	51.564	85	54.517
75	64.746	75	65.589
65	82.25	65	84.359
55	111.987	55	110.932
47.5	180.792	47.5	167.98
42.5	275.485	42.5	576.963
37.5	443.254	37.5	614.081
33	2056.251	33	2479.839
29	4689.308	29	5540.807
25.5	7533.104	25.5	7413.894
22.5	10443.438	22.5	10567.129
19.5	14109.26	19.5	14495.677
17	18171.991	17	18734.033
15	22502.563	15	23007.978
13	28477.923	13	29231.143
11	37082.123	11	37582.37
9	51494.445	9	53089.777
7	71325.145	7	75373.744
5	82153.047	5	83425.394
3	81723.656	3	82077.651
1	80584.809	1	81081.374
0	81396.979	0	81396.979
-1	80584.809	-1	80821.336
-3	81723.656	-3	82077.124
-5	82153.047	-5	82634.948
-7	71325.145	-7	69649.036
-9	51494.445	-9	47728.97
-11	37082.123	-11	34378.206
-13	28477.923	-13	26598.721
-15	22502.563	-15	20946.454
-17	18171.991	-17	17120.561
-19.5	14109.26	-19.5	13437.762
-22.5	10443.438	-22.5	9556.245
-25.5	7533.104	-25.5	6902.309
-29	4689.308	-29	5018.519
-33	2056.251	-33	2086.515
-37.5	443.254	-37.5	499.142
-42.5	275.485	-42.5	358.315
-47.5	180.792	-47.5	149.421
-55	111.987	-55	103.234
-65	82.25	-65	83.305
-75	64.746	-75	69.385
-85	51.564	-85	55.993
-90	.445	-90	.463

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CANDELA TABULATION

Maximum Candela = 83643.381
 Beam Edge = 41821.6905 Cd (50% of Max.)
 Field Edge = 8364.3381 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	0.039	0.109	0.203	0.264	0.308	0.336	0.386	0.406	0.418
85.0	0.039	19.276	44.252	47.733	48.570	51.363	53.872	54.808	54.686	57.277
75.0	0.115	45.095	50.200	56.913	59.581	62.530	63.041	67.106	67.456	68.176
65.0	0.188	47.543	55.735	59.549	66.042	72.933	73.091	75.412	76.499	78.780
55.0	0.255	50.850	58.305	65.337	75.278	80.389	83.591	89.173	96.837	97.822
47.5	0.301	51.364	58.935	68.195	79.857	89.778	94.983	103.272	109.716	115.180
42.5	0.328	51.499	62.447	71.847	86.543	97.145	105.828	114.907	125.845	140.448
37.5	0.353	51.819	61.089	72.108	91.666	106.042	118.543	135.081	154.052	182.559
33.0	0.373	52.227	63.672	77.283	93.821	111.120	129.653	155.145	194.721	294.317
29.0	0.389	52.490	65.465	77.581	96.890	118.040	141.515	178.392	291.448	317.637
25.5	0.402	52.608	65.454	78.114	99.986	123.435	153.142	234.311	310.398	410.370
22.5	0.411	52.635	65.589	79.383	102.918	128.086	164.177	278.956	330.017	733.138
19.5	0.420	52.600	66.035	81.156	104.452	133.180	185.196	291.782	414.742	1401.780
17.0	0.426	52.531	66.292	82.522	105.126	136.499	208.936	292.270	553.308	2128.828
15.0	0.430	52.454	66.347	83.225	105.604	141.102	224.575	293.058	711.543	2758.168
13.0	0.434	52.359	66.317	83.575	107.528	145.911	240.594	302.825	932.208	3294.886
11.0	0.437	52.210	66.212	84.108	109.429	150.278	246.140	318.795	1167.387	3765.082
9.0	0.440	52.093	66.042	84.093	110.594	154.488	251.984	347.008	1422.477	4137.188
7.0	0.442	51.976	65.816	83.872	111.087	158.136	257.808	373.255	1601.080	4419.930
5.0	0.443	51.859	65.592	83.524	111.382	162.282	261.184	398.206	1796.663	4602.845
3.0	0.444	51.741	65.254	83.135	111.765	169.954	267.003	421.637	1949.188	4687.560
1.0	0.445	51.623	64.916	82.545	111.913	177.351	272.858	438.299	2042.063	4725.096
0.0	0.445	51.564	64.746	82.250	111.987	180.792	275.485	443.254	2056.251	4689.308
-1.0	0.445	51.564	65.091	82.299	112.208	180.791	278.077	444.470	2050.537	4710.150
-3.0	0.444	51.702	65.780	82.397	112.651	179.569	282.789	441.148	1968.662	4660.655
-5.0	0.443	51.794	66.467	82.316	112.315	175.975	288.005	427.870	1818.059	4557.096
-7.0	0.442	51.886	66.967	82.211	111.671	166.310	297.053	410.921	1610.325	4339.557
-9.0	0.440	51.978	67.458	82.008	109.873	156.770	303.817	392.231	1395.459	3981.370
-11.0	0.437	52.068	67.848	81.692	107.611	149.766	301.956	374.273	1132.356	3532.731
-13.0	0.434	52.318	68.115	81.235	105.075	144.587	294.006	364.819	898.248	2990.003
-15.0	0.430	52.454	68.241	80.836	104.128	138.475	263.992	360.345	681.733	2400.598
-17.0	0.426	52.592	68.208	80.506	103.179	133.024	230.276	365.246	539.792	1803.174
-19.5	0.420	52.769	67.707	80.607	100.777	129.383	188.119	369.047	443.423	1149.146
-22.5	0.411	52.984	65.905	81.582	98.911	124.771	165.337	336.870	398.975	616.129
-25.5	0.402	53.200	64.666	80.574	95.782	119.964	152.037	254.934	392.494	425.640
-29.0	0.389	53.451	64.029	78.856	93.441	113.169	141.009	182.436	332.275	383.401
-33.0	0.373	53.731	62.623	74.370	90.450	108.261	129.184	154.065	191.168	327.870
-37.5	0.353	54.005	60.410	73.100	89.394	102.297	114.392	132.854	148.439	181.611
-42.5	0.328	52.596	61.432	71.000	82.274	94.125	101.914	110.531	121.401	131.903
-47.5	0.301	51.144	60.560	69.110	80.549	89.002	95.392	99.359	104.026	110.447
-55.0	0.255	49.154	58.400	63.872	70.938	79.403	86.360	88.571	92.623	93.917
-65.0	0.188	48.553	56.681	61.398	64.540	70.607	74.753	73.356	76.473	77.547
-75.0	0.115	45.687	51.151	55.454	59.202	63.535	64.112	64.494	66.382	67.307
-85.0	0.039	19.367	47.471	48.604	53.334	53.295	54.161	55.852	56.298	55.270
-90.0	0.000	0.039	0.125	0.209	0.266	0.318	0.353	0.383	0.403	0.422

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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	0.461	0.482	0.498	0.512	0.522	0.515	0.508	0.508	0.516	0.523
85.0	58.143	58.808	59.462	58.612	57.714	57.348	56.868	56.769	57.065	57.364
75.0	67.108	68.850	71.826	71.211	70.832	71.059	71.649	72.074	71.826	71.749
65.0	81.202	83.560	84.318	86.371	87.012	87.458	88.127	88.912	89.207	89.082
55.0	98.153	99.623	101.583	103.564	106.676	108.656	109.704	110.295	110.340	109.955
47.5	122.435	134.731	141.939	149.483	148.131	156.306	158.463	162.313	166.686	170.683
42.5	153.324	186.790	258.874	319.725	365.520	410.161	442.849	477.002	519.613	539.803
37.5	253.859	298.899	332.165	359.158	389.623	426.671	455.163	484.634	516.616	552.359
33.0	312.792	349.377	479.615	673.990	893.879	1176.870	1455.731	1772.366	2022.649	2273.617
29.0	407.769	698.186	1342.621	2028.030	2610.631	3187.577	3687.565	4150.845	4597.524	5007.914
25.5	900.460	1841.585	2902.847	3785.825	4483.279	5103.668	5674.374	6256.578	6685.203	7062.988
22.5	1945.427	3390.419	4853.839	5931.202	6778.245	7548.807	8239.390	8901.651	*9515.660	*10064.212 *
19.5	3258.348	5020.131	6686.872	8086.940	9177.989	*10237.282*	*1263.807*	*12212.275*	*13057.132*	*13783.352 *
17.0	4332.532	6083.260	8090.508	9789.738	*11162.076*	*12591.273*	*13906.296*	*15239.797*	*16407.239*	*17500.090 *
15.0	5060.901	6966.991	9157.311	*11094.060*	*12789.130*	*14339.447*	*16086.987*	*17820.010*	*19460.884*	*20998.665 *
13.0	5724.650	7792.469	10167.599	*12376.718*	*14258.380*	*16337.453*	*18460.144*	*20948.316*	*23526.763*	*25898.871 *
11.0	6302.422	8558.745	*11219.519*	*13697.943*	*15926.987*	*18413.709*	*21513.154*	*24983.071*	*28883.826*	*32795.605 *
9.0	6810.590	9228.651	*12142.366*	*14978.613*	*17660.452*	*20900.648*	*24922.263*	*29957.021*	*35780.512*	*42586.567 *
7.0	7182.186	9761.804	*12879.719*	*16076.871*	*19304.748*	*23440.399*	*28816.275*	*35720.058*	*45385.390*	*57433.393 *
5.0	7450.895	10188.915	*13594.062*	*17137.749*	*20792.896*	*25708.828*	*32612.184*	*42592.315*	*557155.362*	*73855.921 *
3.0	7575.428	10417.589	*14069.150*	*17924.064*	*22014.040*	*27651.458*	*35707.259*	*48404.727*	*66390.370*	*80534.292 *
1.0	7578.396	10471.056	*14189.108*	*18228.629*	*22542.488*	*28487.769*	*37090.648*	*51777.587*	*71830.601*	*82342.186 *
0.0	7533.104	10443.438	*14109.260*	*18171.991*	*22502.563*	*28477.923*	*37082.123*	*51494.445*	*71325.145*	*82153.047 *
-1.0	7467.662	10346.369	*14022.815*	*18164.963*	*22433.321*	*28431.608*	*37033.467*	*51551.337*	*71436.164*	*82201.250 *
-3.0	7257.014	10029.307	*13692.043*	*17625.927*	*21599.831*	*27046.779*	*34640.929*	*46794.133*	*64393.078*	*79528.421 *
-5.0	6948.706	9561.191	*13109.568*	*16580.481*	*20357.316*	*25071.845*	*31402.304*	*40280.631*	*54053.833*	*70258.631 *
-7.0	6576.231	8972.509	*12324.637*	*15382.113*	*18674.688*	*22592.246*	*27486.963*	*33853.092*	*41940.281*	*52738.605 *
-9.0	6244.359	8341.588	11286.537	*14157.880*	*16789.432*	*20046.063*	*23756.177*	*27975.440*	*32947.332*	*38760.663 *
-11.0	5912.743	7647.361	10078.404	*12796.635*	*14971.300*	*17525.282*	*20307.707*	*23320.509*	*26615.980*	*30036.155 *
-13.0	5424.506	6943.031	8993.128	*11312.403*	*13347.094*	*15235.441*	*17392.353*	*19594.745*	*21765.312*	*23747.644 *
-15.0	4674.595	6329.247	8022.712	9851.285	*11695.086*	*13265.653*	*14889.797*	*16575.156*	*18037.352*	*19316.577 *
-17.0	3828.418	5661.052	7063.224	8497.949	*9854.790	*11350.371*	*12765.553*	*14022.647*	*15064.145*	*16019.254 *
-19.5	2787.613	4515.033	5815.841	6963.936	7990.007	9036.548	*10088.553*	*11149.138*	*12022.804*	*12699.303 *
-22.5	1657.139	2974.229	4274.364	5093.387	5803.701	6634.761	7457.468	8128.099	8694.751	*9140.296 *
-25.5	744.386	1543.141	2598.758	3338.336	3920.398	4622.323	5320.038	5912.959	6365.870	6670.878
-29.0	411.655	600.984	1142.037	1797.363	2298.374	2730.041	3278.625	3848.624	4336.407	4707.419
-33.0	344.804	362.680	440.532	554.819	691.124	892.454	1114.959	1393.576	1640.756	1866.671
-37.5	255.166	290.105	321.037	346.136	361.396	376.785	393.529	412.198	433.841	461.050
-42.5	151.164	183.838	197.715	226.490	252.776	275.643	296.542	315.449	330.340	343.985
-47.5	116.796	125.292	131.240	135.061	138.045	142.478	145.196	147.246	148.918	150.022
-55.0	94.110	98.333	99.697	101.274	103.406	107.125	107.311	106.698	107.464	108.033
-65.0	79.322	81.304	83.612	83.087	83.407	84.042	84.757	85.125	86.434	88.110
-75.0	67.523	69.800	70.004	70.448	71.881	71.954	70.801	69.800	70.170	70.719
-85.0	55.290	55.936	56.676	57.847	58.872	58.476	58.137	57.562	57.096	56.630
-90.0	0.434	0.443	0.451	0.460	0.467	0.473	0.478	0.483	0.487	0.490

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	0.492	0.460	0.444	0.460	0.492	0.523	0.516	0.508	0.508	0.515
85.0	56.232	55.089	54.517	55.089	56.232	57.364	57.065	56.769	56.868	57.348
75.0	69.388	66.855	65.589	66.855	69.388	71.749	71.826	72.074	71.649	71.059
65.0	87.500	85.406	84.359	85.406	87.500	89.082	89.207	88.912	88.127	87.458

CANDELA TABULATION - (Cont.)

55.0	110.160	110.675	110.932	110.675	110.160	109.955	110.340	110.295	109.704	108.656
47.5	170.885	169.198	167.980	169.198	170.885	170.683	166.686	162.313	158.463	156.306
42.5	559.860	571.277	576.963	571.277	559.860	539.803	519.613	477.002	442.849	410.161
37.5	586.225	607.082	614.081	607.082	586.225	552.359	516.616	484.633	455.163	426.671
33.0	2435.113	2493.737	2479.839	2493.737	2435.113	2273.617	2022.649	1772.366	1455.731	1176.870
29.0	5305.617	5499.190	5540.807	5499.190	5305.617	5007.913	4597.524	4150.844	3687.565	3187.578
25.5	7307.153	7411.055	7413.894	7411.055	7307.153	7062.988	6685.203	6256.578	5674.375	5103.668
22.5	10443.453	10589.790	10567.129	10589.790	10443.453	10064.212	9515.659	8901.651	8239.391	7548.806
19.5	14344.953	14528.314	14495.677	14528.314	14344.953	13783.352	13057.132	12212.275	11263.807	10237.282
17.0	18288.576	18767.322	18734.033	18767.322	18288.576	17500.089	16407.239	15239.798	13906.296	12591.272
15.0	22247.699	22981.206	23007.978	22981.206	22247.699	20998.664	19460.884	17820.010	16086.987	14339.447
13.0	27903.708	29155.816	29231.143	29155.815	27903.708	25898.871	23526.763	20948.316	18460.145	16337.453
11.0	35531.945	37627.992	37582.370	37627.992	35531.945	32795.605	28883.826	24983.071	21513.154	18413.709
9.0	48581.525	53291.609	53089.777	53291.608	48581.525	42586.567	35780.512	29957.021	24922.263	20900.648
7.0	68136.060	75322.109	75373.744	75322.109	68136.061	61574.333	53945.385	46391.357	39720.058	328816.275
5.0	81837.110	83643.381	83425.394	83643.381	81837.111	73855.921	61571.553	52425.314	432612.184	325708.828
3.0	83070.625	82546.109	82077.651	82546.109	83070.625	80534.292	766390.371	7148404.726	635707.258	527651.458
1.0	82012.373	81279.590	81081.374	81279.590	82012.373	82342.186	71830.602	651777.586	537090.649	428487.769
0.0	81723.656	80584.809	81396.979	80584.809	81723.656	82153.047	71325.145	651494.445	537082.123	428477.923
-1.0	82061.833	81276.518	80821.336	81276.518	82061.833	82201.250	71436.164	651551.337	537033.466	428431.608
-3.0	82868.240	82611.368	82077.124	82611.368	82868.240	79528.421	7164393.078	6794.133	34640.929	27046.780
-5.0	80170.693	82999.918	82634.948	82999.918	80170.693	70258.631	654053.833	40280.631	31402.303	25071.845
-7.0	62710.448	70055.529	69649.036	70055.529	62710.448	52738.605	41940.281	33853.092	27486.963	22592.246
-9.0	44107.754	47795.879	47728.970	47795.879	44107.754	38760.663	32947.332	27975.440	23756.177	20046.063
-11.0	32706.301	34330.319	34378.206	34330.319	32706.301	30036.155	26615.980	23320.509	20307.707	17525.282
-13.0	25507.044	26574.204	26598.721	26574.204	25507.044	23747.644	21765.312	19594.745	17392.353	15235.441
-15.0	20373.490	20989.987	20946.454	20989.987	20373.490	19316.577	18037.352	16575.156	14889.797	13265.653
-17.0	16730.494	17174.530	17120.561	17174.530	16730.494	16019.254	15064.145	14022.647	12765.553	11350.371
-19.5	13152.523	13421.004	13437.762	13421.004	13152.523	12699.303	12022.804	11149.138	10088.553	9036.548
-22.5	9420.237	9553.530	9556.245	9553.530	9420.237	9140.296	8694.751	8128.099	7457.468	6634.761
-25.5	6852.780	6911.625	6902.309	6911.625	6852.780	6670.878	6365.870	5912.959	5320.038	4622.323
-29.0	4959.027	5043.176	5018.519	5043.176	4959.027	4707.419	4336.407	3848.624	3278.625	2730.041
-33.0	2022.337	2092.322	2086.515	2092.322	2022.337	1866.671	1640.756	1393.576	1114.959	892.454
-37.5	489.643	497.665	499.142	497.665	489.643	461.050	433.841	412.198	393.529	376.785
-42.5	356.569	359.040	358.315	359.040	356.569	343.985	330.340	315.449	296.542	275.643
-47.5	150.528	149.895	149.421	149.895	150.528	150.022	148.918	147.246	145.196	142.478
-55.0	106.786	104.418	103.234	104.418	106.786	108.033	107.464	106.698	107.311	107.125
-65.0	86.934	84.515	83.305	84.515	86.934	88.110	86.434	85.125	84.757	84.042
-75.0	70.237	69.669	69.385	69.669	70.237	70.719	70.170	69.800	70.801	71.954
-85.0	56.374	56.120	55.993	56.120	56.374	56.630	57.096	57.562	58.137	58.476
-90.0	0.479	0.469	0.463	0.469	0.479	0.490	0.487	0.483	0.478	0.473

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	0.522	0.512	0.498	0.482	0.461	0.418	0.406	0.386	0.336	0.308
85.0	57.714	58.612	59.462	58.808	58.143	57.277	54.686	54.808	53.872	51.363
75.0	70.832	71.211	71.826	68.850	67.108	68.176	67.456	67.106	63.041	62.530
65.0	87.012	86.371	84.318	83.560	81.202	78.780	76.499	75.412	73.091	72.933
55.0	106.676	103.564	101.583	99.623	98.153	97.822	96.837	89.173	83.591	80.389
47.5	148.131	149.483	141.939	134.731	122.435	115.180	109.716	103.272	94.983	89.778
42.5	365.520	319.725	258.874	186.790	153.324	140.448	125.845	114.907	105.828	97.145
37.5	389.623	359.158	332.165	298.899	253.859	182.559	154.052	135.081	118.543	106.042
33.0	893.879	673.990	479.615	349.377	312.792	294.317	194.721	155.145	129.653	111.120
29.0	2610.631	2028.029	1342.620	698.187	407.769	317.637	291.448	178.392	141.515	118.040
25.5	4483.279	3785.824	2902.848	1841.585	900.460	410.370	310.398	234.311	153.142	123.435

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL2-20L-50-8-N4-U-Y-GM.IES

CANDELA TABULATION - (Cont.)

22.5	6778.246	5931.202	4853.839	3390.419	1945.427	733.138	330.017	278.956	164.177	128.086
19.5	9177.989	8086.940	6686.872	5020.131	3258.348	1401.780	414.741	291.782	185.196	133.180
17.0	11162.076	9789.738	8090.508	6083.260	4332.532	2128.828	553.308	292.270	208.936	136.499
15.0	12789.130	1094.060	9157.311	*6966.991	5060.901	2758.168	711.543	293.058	224.575	141.102
13.0	14258.380	*2376.718	*0167.600	*7792.469	5724.650	3294.885	932.208	302.825	240.594	145.911
11.0	15926.987	*3697.943	*1219.519	*8558.745	*6302.422	3765.083	1167.387	318.795	246.140	150.278
9.0	17660.452	*4978.613	*2142.366	*9228.650	*6810.590	4137.188	1422.477	347.008	251.984	154.488
7.0	19304.748	*6076.871	*2879.719	*9761.804	*7182.186	4419.930	1601.080	373.255	257.808	158.136
5.0	20792.896	*7137.750	*3594.062	*0188.915	*7450.895	4602.845	1796.663	398.206	261.184	162.282
3.0	22014.040	*7924.065	*4069.150	*0417.589	*7575.428	4687.560	1949.188	421.637	267.003	169.954
1.0	22542.487	*8228.629	*4189.107	*0471.056	*7578.397	4725.096	2042.063	438.299	272.858	177.351
0.0	22502.563	*8171.991	*4109.260	*0443.438	*7533.104	4689.308	2056.251	443.254	275.485	180.792
-1.0	22433.321	*8164.963	*4022.816	*0346.369	*7467.662	4710.150	2050.537	444.470	278.077	180.791
-3.0	21599.831	*7625.927	*3692.043	*0029.307	*7257.013	4660.655	1968.661	441.148	282.789	179.569
-5.0	20357.316	*6580.481	*3109.568	*9561.191	*6948.706	4557.096	1818.059	427.870	288.005	175.975
-7.0	18674.688	*5382.113	*2324.637	*8972.509	*6576.231	4339.557	1610.325	410.921	297.053	166.310
-9.0	16789.432	*4157.880	*1286.536	*8341.588	6244.359	3981.370	1395.459	392.231	303.818	156.770
-11.0	14971.300	*2796.635	*0078.404	*7647.361	5912.743	3532.731	1132.356	374.273	301.956	149.766
-13.0	13347.094	*1312.403	*8993.128	*6943.031	5424.506	2990.003	898.248	364.819	294.006	144.587
-15.0	11695.086	*9851.285	*8022.712	6329.247	4674.595	2400.598	681.733	360.345	263.992	138.475
-17.0	9854.790	*8497.949	*7063.224	5661.052	3828.418	1803.174	539.792	365.246	230.276	133.024
-19.5	7990.007	6963.936	5815.841	4515.033	2787.613	1149.146	443.423	369.047	188.119	129.383
-22.5	5803.701	5093.387	4274.364	2974.229	1657.139	616.129	398.975	336.870	165.337	124.771
-25.5	3920.398	3338.336	2598.758	1543.141	744.386	425.640	392.494	254.934	152.037	119.964
-29.0	2298.374	1797.363	1142.037	600.984	411.655	383.401	332.275	182.436	141.009	113.169
-33.0	691.124	554.819	440.532	362.680	344.804	327.870	191.168	154.065	129.184	108.261
-37.5	361.396	346.136	321.037	290.105	255.166	181.611	148.439	132.854	114.392	102.297
-42.5	252.776	226.490	197.715	183.838	151.164	131.903	121.401	110.531	101.914	94.125
-47.5	138.045	135.061	131.240	125.292	116.796	110.447	104.026	99.359	95.392	89.002
-55.0	103.406	101.274	99.697	98.333	94.110	93.917	92.623	88.571	86.360	79.403
-65.0	83.407	83.087	83.612	81.304	79.322	77.547	76.473	73.356	74.753	70.607
-75.0	71.881	70.448	70.004	69.800	67.523	67.307	66.382	64.494	64.112	63.535
-85.0	58.872	57.847	56.676	55.936	55.290	55.270	56.298	55.852	54.161	53.295
-90.0	0.467	0.460	0.451	0.443	0.434	0.422	0.403	0.383	0.353	0.318

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	0.264	0.203	0.109	0.039	0.000
85.0	48.570	47.733	44.252	19.276	0.039
75.0	59.581	56.913	50.200	45.095	0.115
65.0	66.042	59.549	55.735	47.543	0.188
55.0	75.278	65.337	58.305	50.850	0.255
47.5	79.857	68.195	58.935	51.364	0.301
42.5	86.543	71.847	62.447	51.499	0.328
37.5	91.666	72.108	61.089	51.819	0.353
33.0	93.821	77.283	63.672	52.227	0.373
29.0	96.890	77.581	65.465	52.490	0.389
25.5	99.986	78.114	65.454	52.608	0.402
22.5	102.918	79.383	65.589	52.635	0.411
19.5	104.452	81.156	66.035	52.600	0.420
17.0	105.126	82.522	66.292	52.531	0.426
15.0	105.604	83.225	66.347	52.454	0.430
13.0	107.528	83.575	66.317	52.359	0.434
11.0	109.429	84.108	66.212	52.210	0.437
9.0	110.594	84.093	66.042	52.093	0.440

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL2-20L-50-8-N4-U-Y-GM.IES

CANDELA TABULATION - (Cont.)

7.0	111.087	83.872	65.816	51.976	0.442
5.0	111.382	83.524	65.592	51.859	0.443
3.0	111.765	83.135	65.254	51.741	0.444
1.0	111.913	82.545	64.916	51.623	0.445
0.0	111.987	82.250	64.746	51.564	0.445
-1.0	112.208	82.299	65.091	51.564	0.445
-3.0	112.651	82.397	65.780	51.702	0.444
-5.0	112.315	82.316	66.467	51.794	0.443
-7.0	111.671	82.211	66.967	51.886	0.442
-9.0	109.873	82.008	67.458	51.978	0.440
-11.0	107.611	81.692	67.848	52.068	0.437
-13.0	105.075	81.235	68.115	52.318	0.434
-15.0	104.128	80.836	68.241	52.454	0.430
-17.0	103.179	80.506	68.208	52.592	0.426
-19.5	100.777	80.607	67.707	52.769	0.420
-22.5	98.911	81.582	65.905	52.984	0.411
-25.5	95.782	80.574	64.666	53.200	0.402
-29.0	93.441	78.856	64.029	53.451	0.389
-33.0	90.450	74.370	62.623	53.731	0.373
-37.5	89.394	73.100	60.410	54.005	0.353
-42.5	82.274	71.000	61.432	52.596	0.328
-47.5	80.549	69.110	60.560	51.144	0.301
-55.0	70.938	63.872	58.400	49.154	0.255
-65.0	64.540	61.398	56.681	48.553	0.188
-75.0	59.202	55.454	51.151	45.687	0.115
-85.0	53.334	48.604	47.471	19.367	0.039
-90.0	0.266	0.209	0.125	0.039	0.000

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL2-20L-50-8-N4-U-Y-GM.IES

LUMEN TABULATION

Average Of Right And Left Sides
 Total Luminaire Lumens (one side of beam only) = 9012.94
 Total Field Lumens (one side of beam only) = 7430.81
 * 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	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.11
75	0.18	0.38	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.47
65	0.23	0.47	0.48	0.49	0.49	0.48	0.47	0.47	0.46	0.57
55	0.30	0.60	0.60	0.60	0.60	0.60	0.59	0.58	0.56	0.68
47.5	0.32	0.64	0.64	0.63	0.62	0.61	0.60	0.58	0.56	0.67
42.5	0.57	1.12	1.09	1.06	1.00	0.93	0.87	0.80	0.72	0.79
37.5	0.90	1.77	1.70	1.61	1.51	1.39	1.29	1.18	1.05	1.15
33	2.12	4.19	4.00	3.66	3.26	2.81	2.36	1.92	1.53	1.50
29	4.88	9.58	9.13	8.42	7.57	6.64	5.67	4.65	3.63	3.27
25.5	6.89	13.60	13.13	12.38	11.45	10.38	9.20	7.96	6.61	6.37
22.5	8.22 *	16.32 *	15.90 *	15.14	14.19	13.08	11.87	10.60	9.21	9.48
19.5	11.46 *	22.79 *	22.17 *	21.09 *	19.77 *	18.28 *	16.67 *	14.96 *	13.16	13.86
17	12.66 *	25.09 *	24.28 *	23.00 *	21.46 *	19.73 *	17.88 *	15.95 *	13.99 *	14.76
15	12.72 *	25.05 *	24.02 *	22.53 *	20.79 *	18.91 *	16.96 *	15.04 *	13.13 *	13.79 *
13	15.90 *	31.14 *	29.49 *	27.23 *	24.66 *	21.99 *	19.43 *	17.06 *	14.79 *	15.47 *
11	20.35 *	39.64 *	37.11 *	33.66 *	29.66 *	25.77 *	22.26 *	19.19 *	16.47 *	17.16 *
9	27.66 *	53.28 *	48.46 *	42.42 *	36.08 *	30.41 *	25.55 *	21.55 *	18.23 *	18.82 *
7	39.15 *	74.68 *	65.86 *	54.89 *	44.29 *	35.82 *	29.22 *	24.03 *	19.92 *	20.28 *
5	48.40 *	94.05 *	85.46 *	70.83 *	54.55 *	41.92 *	32.95 *	26.38 *	21.47 *	21.58 *
3	50.52 *	100.79 *	97.02 *	84.20 *	64.71 *	47.79 *	36.25 *	28.42 *	22.80 *	22.68 *
1	49.80 *	100.13 *	99.65 *	91.21 *	71.91 *	51.89 *	38.42 *	29.76 *	23.63 *	23.29 *
0	24.70 *	49.56 *	49.87 *	46.60 *	37.17 *	26.61 *	19.54 *	15.07 *	11.92 *	11.70 *
-1	24.68 *	49.57 *	49.85 *	46.52 *	37.07 *	26.57 *	19.52 *	15.05 *	11.90 *	11.66 *
-3	49.77 *	100.10 *	99.26 *	90.14 *	70.64 *	51.00 *	37.88 *	29.41 *	23.37 *	22.96 *
	50.31 *	100.05 *	95.06 *	81.26 *	61.99 *	45.93 *	35.21 *	27.80 *	22.30 *	22.06 *

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL2-20L-50-8-N4-U-Y-GM.IES

LUMENS TABULATION - (Cont.)

-5	46.50 *	90.09 *	80.79 *	66.34 *	51.32 *	39.90 *	31.75 *	25.62 *	20.79 *	20.75 *
-7	35.83 *	68.39 *	60.26 *	50.40 *	41.24 *	33.92 *	27.97 *	23.08 *	19.03 *	19.22 *
-9	25.01 *	48.38 *	44.25 *	38.88 *	33.44 *	28.61 *	24.32 *	20.49 *	17.19 *	17.47 *
-11	18.56 *	36.26 *	34.03 *	30.95 *	27.54 *	24.18 *	20.99 *	18.05 *	15.35 *	15.61 *
-13	14.49 *	28.45 *	27.03 *	25.10 *	22.92 *	20.53 *	18.11 *	15.82 *	13.53 *	13.81 *
-15	11.61 *	22.91 *	22.01 *	20.73 *	19.21 *	17.47 *	15.57 *	13.64 *	11.68 *	12.09
-17	11.64 *	23.01 *	22.26 *	21.13 *	19.70 *	18.01 *	16.10 *	14.12 *	12.19	12.81
-19.5	10.50 *	20.80 *	20.24 *	19.34 *	18.10 *	16.57 *	14.85	13.06	11.35	12.01
-22.5	7.52	14.95	14.62	14.03	13.17	12.07	10.74	9.30	7.97	8.30
-25.5	6.36	12.66	12.33	11.71	10.80	9.64	8.32	7.02	5.82	5.62
-29	4.34	8.59	8.24	7.60	6.77	5.78	4.78	3.91	3.13	2.85
-33	1.77	3.49	3.31	3.00	2.63	2.24	1.86	1.54	1.29	1.35
-37.5	0.65	1.30	1.25	1.19	1.12	1.06	1.00	0.94	0.87	0.99
-42.5	0.39	0.77	0.76	0.74	0.71	0.68	0.64	0.60	0.55	0.62
-47.5	0.29	0.58	0.59	0.58	0.58	0.57	0.56	0.54	0.52	0.63
-55	0.29	0.58	0.59	0.59	0.58	0.58	0.57	0.56	0.54	0.66
-65	0.23	0.47	0.48	0.48	0.47	0.47	0.46	0.46	0.45	0.56
-75	0.19	0.38	0.39	0.39	0.38	0.38	0.39	0.39	0.38	0.46
-85	0.04	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10
-90										
Total	658.95	1296.83	1228.22	1093.33	906.68	732.77	600.20	498.12	414.62	421.04

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.13	0.12	0.14	0.15	0.15	0.16	0.14	0.18	0.18	0.12
85	0.55	0.53	0.59	0.65	0.68	0.70	0.62	0.79	0.81	0.52
75	0.66	0.63	0.70	0.76	0.80	0.81	0.73	0.93	0.92	0.58
65	0.79	0.76	0.84	0.91	0.95	0.94	0.83	1.05	1.01	0.62
55	0.76	0.71	0.77	0.82	0.84	0.81	0.70	0.87	0.82	0.49
47.5	0.77	0.62	0.63	0.64	0.63	0.61	0.52	0.63	0.58	0.34

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL2-20L-50-8-N4-U-Y-GM.IES

LUMENS TABULATION - (Cont.)

42.5										
	1.15	0.93	0.86	0.79	0.74	0.69	0.58	0.68	0.61	0.35
37.5										
	1.40	1.14	1.11	0.97	0.80	0.71	0.56	0.65	0.57	0.32
33										
	2.45	1.48	1.26	1.15	0.92	0.71	0.54	0.60	0.53	0.30
29										
	5.06	2.81	1.69	1.22	0.99	0.72	0.51	0.55	0.47	0.26
25.5										
	8.31	5.06	2.84	1.40	0.97	0.73	0.46	0.49	0.41	0.23
22.5										
	12.76	8.52	5.22	2.26	1.10	0.80	0.49	0.50	0.42	0.23
19.5										
	13.80	9.75	6.59	2.94	1.09	0.71	0.45	0.43	0.35	0.19
17										
	12.92	9.37	6.77	3.21	1.04	0.59	0.38	0.35	0.29	0.16
15										
	14.54 *	10.66	7.98	4.02	1.25	0.62	0.40	0.36	0.29	0.16
13										
	16.10 *	11.84	9.04	4.78	1.52	0.65	0.42	0.37	0.29	0.16
11										
	17.55 *	12.90	9.96	5.48	1.82	0.68	0.43	0.37	0.30	0.16
9										
	18.77 *	13.77	10.69	6.05	2.09	0.72	0.44	0.38	0.30	0.16
7										
	19.80 *	14.43 *	11.21	6.48	2.33	0.75	0.45	0.39	0.30	0.16
5										
	20.59 *	14.87 *	11.52	6.81	2.55	0.79	0.46	0.40	0.30	0.15
3										
	20.96 *	15.04 *	11.64	7.00	2.71	0.82	0.48	0.41	0.30	0.15
1										
	10.50 *	7.52 *	5.81	3.53	1.39	0.42	0.24	0.21	0.15	0.08
0										
	10.43 *	7.47 *	5.78	3.53	1.40	0.42	0.25	0.21	0.15	0.08
-1										
	20.51 *	14.65 *	11.42	6.99	2.74	0.84	0.50	0.42	0.30	0.15
-3										
	19.79 *	14.11 *	11.10	6.79	2.61	0.84	0.50	0.41	0.30	0.15
-5										
	18.75 *	13.38	10.62	6.44	2.39	0.83	0.50	0.40	0.30	0.16
-7										
	17.46 *	12.58	10.02	5.91	2.13	0.82	0.50	0.39	0.29	0.16
-9										
	15.93 *	11.75	9.32	5.24	1.84	0.80	0.49	0.37	0.29	0.16
-11										
	14.36 *	10.82	8.46	4.47	1.55	0.78	0.48	0.36	0.29	0.16
-13										
	12.92	9.75	7.34	3.64	1.29	0.75	0.45	0.35	0.28	0.16
-15										
	11.55	8.55	6.02	2.83	1.09	0.71	0.41	0.34	0.28	0.15
-17										
	12.29	8.76	5.67	2.57	1.20	0.84	0.46	0.42	0.35	0.19
-19.5										
	11.25	7.47	4.41	2.04	1.30	0.93	0.49	0.49	0.41	0.23
-22.5										
	7.29	4.33	2.45	1.44	1.16	0.80	0.45	0.47	0.41	0.23

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL2-20L-50-8-N4-U-Y-GM.IES

LUMENS TABULATION - (Cont.)

-25.5	4.39	2.41	1.63	1.40	1.14	0.75	0.50	0.53	0.46	0.26
-29	2.17	1.44	1.39	1.29	0.96	0.71	0.53	0.58	0.51	0.29
-33	1.36	1.18	1.18	1.00	0.79	0.70	0.55	0.63	0.56	0.32
-37.5	1.06	0.92	0.85	0.76	0.72	0.67	0.56	0.66	0.60	0.35
-42.5	0.68	0.60	0.60	0.61	0.61	0.59	0.51	0.62	0.58	0.34
-47.5	0.73	0.68	0.74	0.79	0.81	0.81	0.71	0.86	0.81	0.49
-55	0.77	0.74	0.82	0.89	0.93	0.94	0.84	1.02	0.99	0.63
-65	0.65	0.62	0.69	0.75	0.79	0.81	0.73	0.92	0.91	0.58
-75	0.54	0.52	0.58	0.64	0.68	0.70	0.63	0.82	0.82	0.53
-85	0.12	0.12	0.13	0.15	0.16	0.16	0.15	0.19	0.19	0.13
-90										
Total	385.32	276.31	209.09	122.15	55.67	31.31	22.03	23.04	20.28	11.74

Vert. Angles	Horizontal Angles			Total
	75	85	90	
90	0.04	0.00		2.36
85	0.21	0.01		10.39
75	0.26	0.02		12.41
65	0.28	0.02		14.71
55	0.22	0.01		13.70
47.5	0.15	0.01		15.08
42.5	0.15	0.01		21.09
37.5	0.14	0.01		35.73
33	0.12	0.01		73.49
29	0.11	0.01		112.36
25.5	0.09	0.01		145.00
22.5	0.09	0.01		206.62
19.5	0.08	0.00		225.17
17	0.06	0.00		218.07
15	0.06	0.00		257.51

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL2-20L-50-8-N4-U-Y-GM.IES

LUMENS TABULATION - (Cont.)

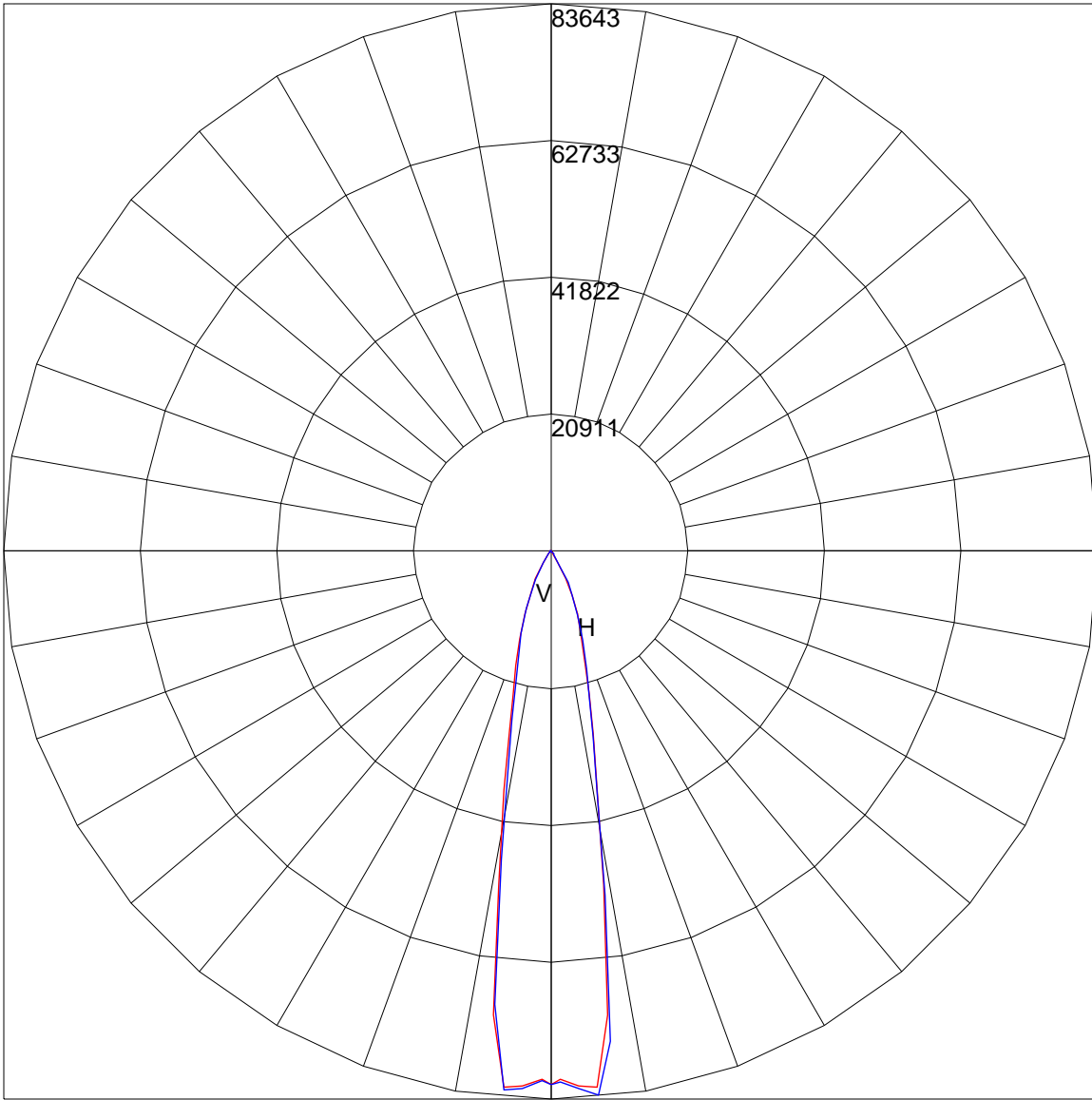
13			
	0.06	0.00	306.52
11			
	0.06	0.00	372.17
9			
	0.06	0.00	461.57
7			
	0.06	0.00	553.96
5			
	0.06	0.00	613.70
3			
	0.06	0.00	639.27
1			
	0.03	0.00	322.61
0			
	0.03	0.00	322.12
-1			
	0.06	0.00	633.12
-3			
	0.06	0.00	598.62
-5			
	0.06	0.00	527.69
-7			
	0.06	0.00	429.67
-9			
	0.06	0.00	344.32
-11			
	0.06	0.00	283.32
-13			
	0.06	0.00	236.78
-15			
	0.06	0.00	198.96
-17			
	0.08	0.00	203.82
-19.5			
	0.09	0.01	185.94
-22.5			
	0.09	0.01	131.79
-25.5			
	0.11	0.01	103.86
-29			
	0.12	0.01	65.98
-33			
	0.14	0.01	30.89
-37.5			
	0.15	0.01	17.67
-42.5			
	0.15	0.01	12.36
-47.5			
	0.22	0.01	13.10
-55			
	0.28	0.02	14.40
-65			
	0.27	0.02	12.28
-75			
	0.22	0.01	10.41

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL2-20L-50-8-N4-U-Y-GM.IES

LUMENS TABULATION - (Cont.)

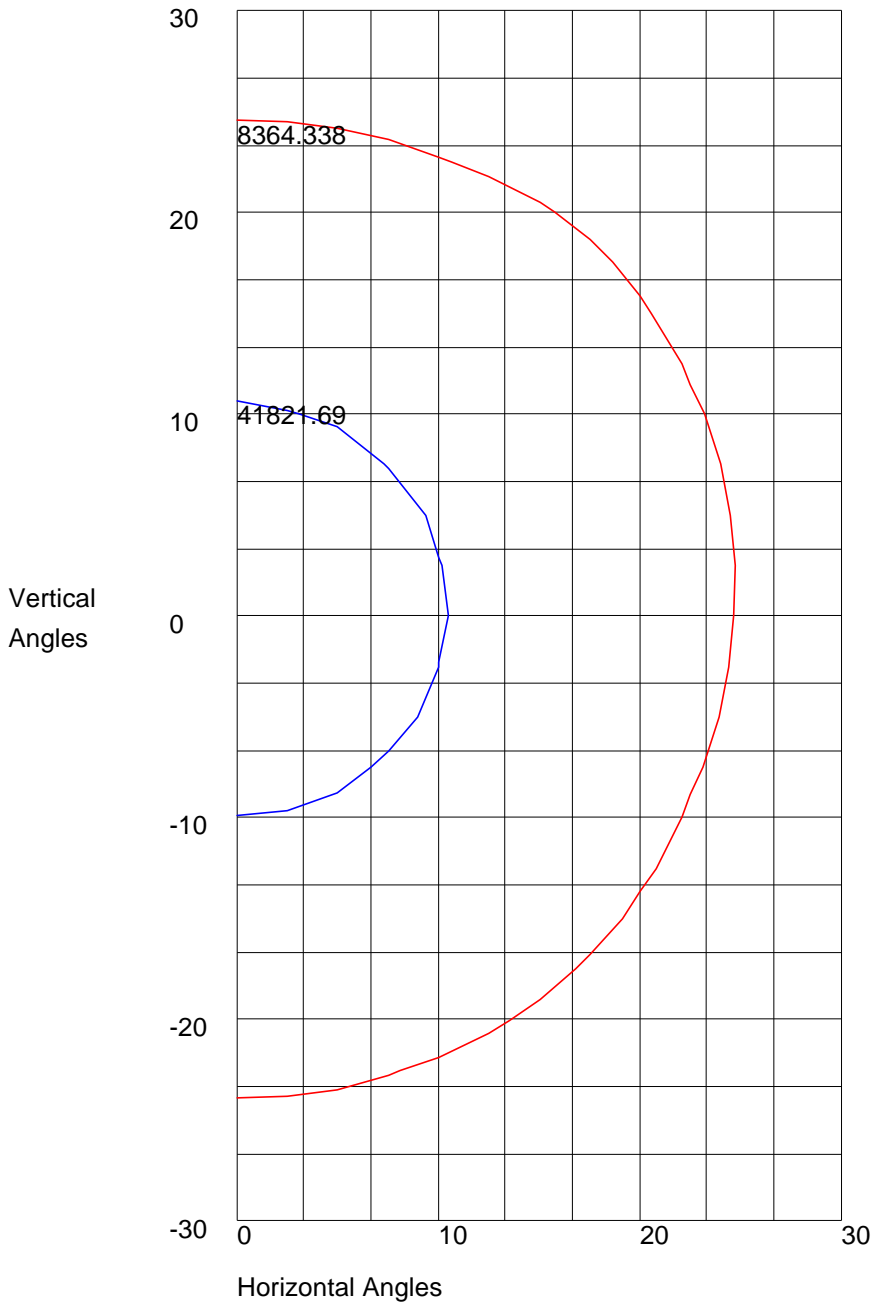
-85	0.04	0.00	2.38
-90			
Total	4.97	0.28	9012.95

AXIAL CANDELA DISPLAY



Maximum Candela = 83643.381 Located At Horizontal Angle = -1, Vertical Angle = 5
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 83643.381 Located At Horizontal Angle = -1, Vertical Angle = 5
50% Maximum Candela = 41821.6905
10% Maximum Candela = 8364.3381