



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

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

CHARACTERISTICS

NEMA Type	3 H x 3 V
Maximum Candela	161919.787
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	6822
Beam Efficiency	N.A.
Field Lumens	15717
Field Efficiency	N.A.
Spill Lumens	3406
Luminaire Lumens	19123
Total Efficiency	N.A.
Total Luminaire Watts	193.6
Ballast Factor	1.00



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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	.254	90	.281
85	34.482	85	37.118
75	56.626	75	58.102
65	72.549	65	72.232
55	99.333	55	98.278
47.5	120.423	47.5	119.896
42.5	149.896	42.5	159.491
37.5	204.044	37.5	214.43
33	353.359	33	400.073
29	483.799	29	536.523
25.5	2128.748	25.5	2289.293
22.5	6907.265	22.5	6860.025
19.5	13292.453	19.5	12833.593
17	19402.473	17	18932.594
15	25398.187	15	24851.962
13	33684.773	13	33092.995
11	46630.302	11	45768.467
9	67960.274	9	68578.096
7	93285.276	7	97883.263
5	126510.082	5	132381.471
3	160024.872	3	161919.787
1	160277.422	1	159849.827
0	159915.947	0	159915.947
-1	160277.422	-1	160622.767
-3	160024.872	-3	161245.969
-5	126510.082	-5	119050.634
-7	93285.276	-7	87484.645
-9	67960.274	-9	62478.83
-11	46630.302	-11	42972.6
-13	33684.773	-13	31880.229
-15	25398.187	-15	24341.272
-17	19402.473	-17	18556.142
-19.5	13292.453	-19.5	12529.848
-22.5	6907.265	-22.5	6296.348
-25.5	2128.748	-25.5	1805.336
-29	483.799	-29	478.316
-33	353.359	-33	355.257
-37.5	204.044	-37.5	184.061
-42.5	149.896	-42.5	152.743
-47.5	120.423	-47.5	119.895
-55	99.333	-55	100.809
-65	72.549	-65	78.138
-75	56.626	-75	61.055
-85	34.482	-85	36.802
-90	.254	-90	.276

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CANDELA TABULATION

Maximum Candela = 161919.787
 Beam Edge = 80959.8935 Cd (50% of Max.)
 Field Edge = 16191.9787 Cd (10% of Max.)
 * Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	-90.0	-85.0	-75.0	-65.0	-55.0	-47.5	-42.5	-37.5	-33.0	-29.0
90.0	0.000	0.022	0.068	0.115	0.161	0.193	0.214	0.229	0.242	0.253
85.0	0.022	11.152	27.072	29.888	32.268	34.340	35.597	36.567	36.709	37.692
75.0	0.066	26.388	33.794	39.372	43.669	47.725	50.122	52.317	53.819	56.583
65.0	0.107	28.466	38.453	46.845	55.629	62.049	64.230	67.829	68.985	70.334
55.0	0.146	30.006	42.440	55.616	65.901	70.723	75.228	78.959	82.830	87.877
47.5	0.172	31.395	45.216	60.772	71.535	78.576	86.445	94.168	98.941	102.875
42.5	0.187	32.255	47.131	63.805	75.231	85.262	96.654	101.244	106.717	112.291
37.5	0.202	33.080	49.088	66.291	78.811	94.932	102.172	108.632	117.824	126.724
33.0	0.213	33.432	50.540	67.658	82.939	99.496	107.205	116.383	129.406	150.714
29.0	0.222	33.759	51.781	69.188	86.096	102.134	111.999	125.397	148.787	175.894
25.5	0.229	34.000	52.867	70.095	90.914	105.172	116.135	136.070	168.568	193.416
22.5	0.235	34.172	53.698	70.658	93.217	107.650	121.891	147.049	180.744	243.224
19.5	0.240	34.314	54.372	71.162	94.902	109.662	126.356	160.629	194.386	301.791
17.0	0.243	34.408	54.830	71.696	96.132	111.922	130.121	169.456	219.854	355.110
15.0	0.246	34.468	55.173	72.180	96.691	113.090	133.544	175.027	244.497	387.260
13.0	0.248	34.514	55.486	72.579	97.113	114.348	138.083	178.226	269.164	411.190
11.0	0.250	34.744	55.767	72.832	97.427	115.981	140.531	181.262	295.215	431.166
9.0	0.251	34.697	56.014	72.902	97.886	117.162	142.612	185.796	319.981	447.292
7.0	0.252	34.650	56.224	72.908	98.412	117.815	144.737	190.857	331.769	460.449
5.0	0.253	34.602	56.541	72.863	98.869	118.643	147.019	196.317	342.424	471.704
3.0	0.254	34.554	56.575	72.814	99.244	119.625	148.705	200.886	349.582	481.085
1.0	0.254	34.506	56.609	72.638	99.303	120.229	149.668	203.501	353.619	484.750
0.0	0.254	34.482	56.626	72.549	99.333	120.423	149.896	204.044	353.359	483.799
-1.0	0.254	34.482	56.603	72.647	99.392	120.345	149.866	203.529	353.619	484.065
-3.0	0.254	34.521	56.558	72.844	99.510	119.981	149.356	200.985	349.945	479.626
-5.0	0.253	34.546	56.513	72.882	99.311	119.259	148.298	196.830	343.421	471.541
-7.0	0.252	34.572	56.203	72.895	99.029	118.427	146.821	192.087	331.973	459.537
-9.0	0.251	34.598	56.002	72.816	98.639	117.627	145.010	189.327	318.473	445.380
-11.0	0.250	34.623	55.775	72.622	98.191	116.715	142.538	185.942	297.491	428.494
-13.0	0.248	34.381	55.528	72.193	97.745	115.709	139.691	181.768	275.666	408.656
-15.0	0.246	34.318	55.264	71.707	97.220	114.827	135.597	177.131	251.386	385.882
-17.0	0.243	34.243	54.989	71.297	96.523	114.033	132.019	172.224	228.209	355.720
-19.5	0.240	34.133	54.623	70.860	95.370	111.526	128.045	163.445	201.145	307.989
-22.5	0.235	33.976	53.800	70.322	93.639	108.420	122.939	150.344	184.508	249.161
-25.5	0.229	33.793	52.768	69.311	90.980	106.520	118.567	138.057	172.235	198.592
-29.0	0.222	33.548	51.576	68.603	86.633	103.827	113.780	127.777	151.031	178.406
-33.0	0.213	33.226	50.091	67.384	81.495	100.032	107.192	117.609	131.461	151.962
-37.5	0.202	32.887	48.184	65.399	77.743	95.362	102.586	109.662	117.677	127.548
-42.5	0.187	32.063	46.888	62.936	74.207	85.826	96.207	102.601	108.205	113.703
-47.5	0.172	31.210	43.966	60.016	69.583	77.750	85.535	95.808	99.948	103.211
-55.0	0.146	29.844	41.503	54.027	64.883	70.163	73.137	78.334	82.398	86.496
-65.0	0.107	28.360	37.192	45.176	55.172	61.163	63.952	67.397	70.020	71.000
-75.0	0.066	25.926	32.164	37.498	42.242	46.767	49.488	51.369	53.130	55.275
-85.0	0.022	10.878	26.018	27.957	30.398	32.557	34.006	35.156	35.792	36.489
-90.0	0.000	0.022	0.065	0.110	0.146	0.185	0.204	0.223	0.235	0.249

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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	0.267	0.273	0.278	0.284	0.288	0.295	0.300	0.302	0.299	0.295
85.0	38.221	38.529	38.699	38.894	39.062	38.783	38.748	38.594	38.594	38.594
75.0	56.205	57.173	58.697	59.250	59.692	59.685	59.507	59.527	60.055	60.800
65.0	71.125	71.876	72.826	73.356	73.580	73.773	73.940	74.240	74.300	74.160
55.0	92.932	94.626	95.402	96.377	96.656	97.044	97.456	97.916	98.464	98.763
47.5	105.533	108.142	110.736	112.813	114.386	115.958	117.222	117.990	118.618	119.429
42.5	119.106	124.395	128.297	132.200	135.321	139.926	143.424	147.960	151.596	154.458
37.5	137.516	150.682	164.468	174.571	181.047	180.715	182.087	186.794	192.191	197.201
33.0	170.076	181.131	199.054	227.692	254.314	283.173	308.423	335.199	349.030	361.941
29.0	193.417	250.007	314.125	367.604	399.063	421.138	439.779	456.986	474.358	487.449
25.5	268.295	354.257	416.951	459.281	492.534	543.830	669.622	881.767	1270.767	1581.749
22.5	349.242	424.822	486.518	584.479	942.875	1719.045	2727.539	3804.632	4827.848	5727.383
19.5	412.252	485.722	696.761	1860.186	3381.725	5203.769	7260.604	9027.379	10443.079	11615.187
17.0	452.408	572.941	1809.309	4218.481	6846.145	9383.342	11752.030	13713.837	15466.262	17021.485
15.0	484.011	847.579	3401.840	6845.038	10137.577	12712.043	15341.941	17968.259	20194.787	22248.417
13.0	524.505	1584.541	5376.758	9559.106	12854.421	15979.809	19315.565	22562.633	25643.820	28608.568
11.0	616.406	2628.071	7454.086	12022.507	15526.578	19478.688	23436.775	27885.562	32465.066	37859.090
9.0	796.723	3806.950	9355.168	14084.572	18186.162	22941.034	28067.521	34493.198	42584.737	52303.806
7.0	1251.327	5025.386	10870.621	16002.964	20779.388	26177.015	33241.741	43066.741	57376.776	73223.781
5.0	1606.694	5990.722	12090.634	17632.614	22891.112	29377.098	39031.678	53526.785	73206.920	95454.584
3.0	1925.066	6549.082	12878.920	18814.603	24404.542	32101.586	43800.430	62511.932	86343.554	12075.695
1.0	2097.057	6855.156	13262.096	19441.954	25350.794	33524.494	46556.548	68411.988	94046.281	126910.165
0.0	2128.748	6907.265	13292.453	19402.473	25398.187	33684.773	46630.302	67960.274	93285.276	126510.082
-1.0	2102.176	6897.885	13234.919	19342.182	25273.695	33564.153	46592.050	68087.842	93163.484	126015.540
-3.0	1934.614	6588.663	12862.685	18721.130	24358.067	31874.460	43241.030	61893.938	84511.881	110603.962
-5.0	1625.377	5938.912	12006.073	17633.895	22846.069	29377.413	38631.959	52389.703	71001.199	991658.770
-7.0	1340.315	5006.917	10777.932	15964.464	20686.424	26173.045	33051.607	42542.440	55431.487	69928.419
-9.0	957.407	3920.319	9246.293	14027.554	18269.579	22804.062	27946.500	34162.867	41774.373	50674.044
-11.0	711.854	2776.653	7357.622	11830.895	15404.765	19306.794	23445.218	27785.440	32317.863	37415.237
-13.0	553.881	1801.418	5353.590	9381.748	12675.603	15915.016	19406.864	22551.264	25694.726	28568.178
-15.0	487.122	1026.972	3480.587	6825.167	9929.058	12652.461	15309.213	17958.461	20447.137	22343.278
-17.0	451.564	612.900	1950.301	4219.581	6705.259	9282.003	11656.660	13736.466	15541.014	17081.873
-19.5	410.521	485.844	779.706	1887.316	3361.182	5188.052	7110.152	8878.482	10414.717	11658.044
-22.5	350.024	423.289	489.221	600.024	956.810	1687.840	2631.634	3657.861	4712.505	5607.258
-25.5	271.342	353.645	416.443	459.116	494.626	547.684	664.472	832.373	1195.244	1482.618
-29.0	197.012	250.168	313.562	365.680	397.079	421.110	441.260	458.309	476.186	492.544
-33.0	174.663	183.716	198.523	227.690	253.020	278.802	304.961	331.662	346.792	361.288
-37.5	138.139	152.495	168.746	177.689	183.024	182.573	183.329	185.471	188.319	192.343
-42.5	119.309	124.008	129.237	132.253	135.543	139.010	144.089	148.614	152.122	154.984
-47.5	105.849	108.316	111.626	112.992	114.882	116.721	117.619	118.778	119.734	120.198
-55.0	91.284	93.832	96.402	97.655	98.251	99.087	99.213	99.240	99.324	99.309
-65.0	72.366	74.543	74.535	74.903	75.676	76.261	76.595	76.839	76.817	76.858
-75.0	57.328	58.210	59.094	59.779	60.154	60.395	60.675	61.011	61.350	61.778
-85.0	37.754	37.913	37.879	38.166	38.419	38.298	38.348	38.274	38.486	38.698
-90.0	0.264	0.272	0.278	0.286	0.292	0.292	0.292	0.293	0.293	0.294

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	0.290	0.284	0.281	0.284	0.290	0.295	0.299	0.302	0.300	0.295
85.0	38.007	37.414	37.118	37.414	38.007	38.594	38.594	38.594	38.748	38.783
75.0	59.805	58.670	58.102	58.670	59.805	60.800	60.055	59.527	59.507	59.685
65.0	73.558	72.674	72.232	72.674	73.558	74.160	74.300	74.240	73.940	73.773

CANDELA TABULATION - (Cont.)

55.0	98.741	98.433	98.278	98.433	98.741	98.763	98.464	97.916	97.456	97.044
47.5	119.827	119.912	119.896	119.912	119.827	119.429	118.618	117.990	117.222	115.958
42.5	156.419	158.645	159.491	158.645	156.419	154.458	151.596	147.960	143.424	139.926
37.5	201.490	210.660	214.430	210.660	201.490	197.201	192.191	186.794	182.087	180.715
33.0	371.360	391.324	400.073	391.324	371.360	361.941	349.030	335.199	308.423	283.173
29.0	498.778	523.477	536.523	523.477	498.778	487.449	474.358	456.986	439.779	421.138
25.5	1910.926	2184.181	2289.293	2184.181	1910.926	1581.749	1270.767	881.767	669.622	543.830
22.5	6336.630	6739.953	6860.025	6739.954	6336.630	5727.383	4827.848	3804.632	2727.538	1719.045
19.5	12293.63012707.02912833.59312707.02912293.63011615.18710443.0799027.379	7260.604	5203.769							
17.0	18049.02518805.63218932.59418805.63218049.02517021.48615466.26213713.83711752.0309383.342									
15.0	23591.58124700.93824851.96224700.93923591.58122248.41720194.78717968.25915341.94112712.043									
13.0	30943.02932871.13033092.99532871.12930943.02928608.56825643.82022562.63419315.56515979.810									
11.0	42117.74545145.59245768.46745145.59142117.74537859.09032465.06627885.56123436.77519478.688	*								
9.0	61400.51067382.82068578.09667382.82061400.51152303.80642584.73734493.19828067.52222941.034	*								
7.0	86726.29396231.51697883.26396231.51686726.29373223.78157376.77643066.74233241.74126177.014	*								
5.0	112688.72728840.01032381.47128840.00912688.7203454.58473206.91953526.78539031.67829377.098	*								
3.0	145267.06260478.11961919.78760478.11945267.06212075.6986343.55562511.93143800.42932101.586	*								
1.0	158176.56660686.65259849.82760686.65258176.56626910.1684046.28168411.98846556.54833524.494	*								
0.0	160024.87260277.42259915.94760277.42260024.87226510.0893285.27667960.27446630.30233684.773	*								
-1.0	158275.99461171.68460622.76761171.68458275.99426015.5383163.48468087.84246592.04933564.154	*								
-3.0	141928.53759284.10861245.96959284.10841928.53710603.9684511.88061893.93843241.03031874.460	*								
-5.0	108599.63522927.41819050.63422927.41808599.6351658.77071001.19952389.70338631.95929377.413	*								
-7.0	82178.99490374.97087484.64590374.97082178.99469928.41955431.48742542.44033051.60726173.045	*								
-9.0	59025.56564661.38362478.83064661.38359025.56550674.04441774.37334162.86727946.50022804.062	*								
-11.0	41514.11743917.49442972.60043917.49441514.11737415.23732317.86327785.44023445.21819306.794	*								
-13.0	30906.48032364.28931880.22932364.28930906.48028568.17825694.72622551.26419406.86415915.016									
-15.0	23790.21224694.98424341.27224694.98423790.21222343.27820447.13717958.46115309.21312652.461									
-17.0	18284.11018925.42518556.14218925.42518284.11017081.87315541.01413736.46611656.6609282.003									
-19.5	12443.27212699.94012529.84812699.94012443.27211658.04410414.7178878.482	7110.152	5188.052							
-22.5	6205.725	6401.344	6296.348	6401.344	6205.725	5607.258	4712.505	3657.861	2631.634	1687.840
-25.5	1805.817	1874.981	1805.336	1874.981	1805.817	1482.618	1195.244	832.373	664.472	547.684
-29.0	503.411	491.101	478.316	491.101	503.411	492.544	476.186	458.309	441.260	421.110
-33.0	370.422	362.845	355.257	362.845	370.422	361.288	346.792	331.662	304.961	278.802
-37.5	195.420	188.232	184.061	188.232	195.420	192.343	188.319	185.471	183.329	182.573
-42.5	156.051	154.141	152.743	154.141	156.051	154.984	152.122	148.614	144.089	139.010
-47.5	120.394	120.135	119.895	120.135	120.394	120.198	119.734	118.778	117.619	116.721
-55.0	99.651	100.423	100.809	100.423	99.651	99.309	99.324	99.240	99.213	99.087
-65.0	77.370	77.882	78.138	77.882	77.370	76.858	76.817	76.839	76.595	76.261
-75.0	61.513	61.208	61.055	61.208	61.513	61.778	61.350	61.011	60.675	60.395
-85.0	37.945	37.183	36.802	37.183	37.945	38.698	38.486	38.274	38.348	38.298
-90.0	0.287	0.280	0.276	0.280	0.287	0.294	0.293	0.293	0.292	0.292

Vert. Horizontal Angles
 Angles

	15.0	17.0	19.5	22.5	25.5	29.0	33.0	37.5	42.5	47.5
90.0	0.288	0.284	0.278	0.273	0.267	0.253	0.242	0.229	0.214	0.193
85.0	39.062	38.894	38.699	38.529	38.221	37.692	36.709	36.567	35.597	34.340
75.0	59.692	59.250	58.697	57.173	56.205	56.583	53.819	52.317	50.122	47.725
65.0	73.580	73.356	72.826	71.876	71.125	70.334	68.985	67.829	64.230	62.049
55.0	96.656	96.377	95.402	94.626	92.932	87.877	82.830	78.959	75.228	70.723
47.5	114.386	112.813	110.736	108.142	105.533	102.875	98.941	94.168	86.445	78.576
42.5	135.321	132.200	128.297	124.395	119.106	112.291	106.717	101.244	96.654	85.262
37.5	181.047	174.571	164.468	150.682	137.516	126.724	117.824	108.632	102.172	94.932
33.0	254.314	227.692	199.054	181.131	170.076	150.714	129.406	116.383	107.205	99.496
29.0	399.063	367.604	314.125	250.007	193.417	175.894	148.787	125.397	111.999	102.134
25.5	492.534	459.281	416.951	354.257	268.295	193.416	168.568	136.070	116.135	105.172

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL2-20L-50-8-N3-U-Y-GM.IES

CANDELA TABULATION - (Cont.)

22.5	942.875	584.479	486.518	424.822	349.242	243.224	180.744	147.049	121.891	107.650
19.5	3381.725	1860.185	696.761	485.722	412.252	301.791	194.386	160.629	126.356	109.662
17.0	6846.145	4218.481	1809.309	572.941	452.408	355.110	219.854	169.456	130.121	111.922
15.0	10137.5776845.038	3401.840	847.579	484.011	387.260	244.497	175.027	133.544	113.090	
13.0	12854.4209559.106	5376.758	1584.541	524.505	411.190	269.164	178.226	138.083	114.348	
11.0	15526.57812022.5077454.087	2628.071	616.406	431.166	295.215	181.262	140.531	115.981		
9.0	18186.1621*4084.5729355.168	3806.950	796.723	447.292	319.981	185.796	142.612	117.162		
7.0	20779.3881*6002.96410870.6215025.386	1251.327	460.449	331.769	190.857	144.737	117.815			
5.0	22891.1121*7632.6141*2090.6345990.722	1606.694	471.704	342.424	196.317	147.019	118.643			
3.0	24404.5421*8814.6031*2878.9206549.082	1925.066	481.085	349.582	200.886	148.705	119.625			
1.0	25350.7941*9441.9541*3262.0966855.156	2097.057	484.750	353.619	203.501	149.668	120.229			
0.0	25398.1871*9402.4731*3292.4536907.265	2128.748	483.799	353.359	204.044	149.896	120.423			
-1.0	25273.6951*9342.1821*3234.9196897.885	2102.176	484.065	353.619	203.529	149.866	120.345			
-3.0	24358.0671*8721.1301*2862.6856588.663	1934.614	479.626	349.945	200.985	149.356	119.981			
-5.0	22846.0701*7633.8951*2006.0735938.912	1625.377	471.541	343.421	196.830	148.298	119.259			
-7.0	20686.4241*5964.46410777.9325006.917	1340.315	459.537	331.973	192.087	146.821	118.427			
-9.0	18269.5791*4027.5549246.294	3920.319	957.407	445.380	318.473	189.327	145.010	117.627		
-11.0	15404.76511830.8957357.622	2776.653	711.854	428.494	297.491	185.942	142.538	116.715		
-13.0	12675.6039381.748	5353.590	1801.418	553.881	408.656	275.666	181.768	139.691	115.709	
-15.0	9929.058	6825.167	3480.587	1026.972	487.122	385.882	251.386	177.131	135.597	114.827
-17.0	6705.259	4219.581	1950.301	612.900	451.564	355.720	228.209	172.224	132.019	114.033
-19.5	3361.182	1887.316	779.706	485.844	410.521	307.989	201.145	163.445	128.045	111.526
-22.5	956.810	600.024	489.221	423.289	350.024	249.161	184.508	150.344	122.939	108.420
-25.5	494.626	459.116	416.443	353.645	271.342	198.592	172.235	138.057	118.567	106.520
-29.0	397.079	365.680	313.562	250.168	197.012	178.406	151.031	127.777	113.780	103.827
-33.0	253.020	227.690	198.523	183.716	174.663	151.962	131.461	117.609	107.192	100.032
-37.5	183.024	177.689	168.746	152.495	138.139	127.548	117.677	109.662	102.586	95.362
-42.5	135.543	132.253	129.237	124.008	119.309	113.703	108.205	102.601	96.207	85.826
-47.5	114.882	112.992	111.626	108.316	105.849	103.211	99.948	95.808	85.535	77.750
-55.0	98.251	97.655	96.402	93.832	91.284	86.496	82.398	78.334	73.137	70.163
-65.0	75.676	74.903	74.535	74.543	72.366	71.000	70.020	67.397	63.952	61.163
-75.0	60.154	59.779	59.094	58.210	57.328	55.275	53.130	51.369	49.488	46.767
-85.0	38.419	38.166	37.879	37.913	37.754	36.489	35.792	35.156	34.006	32.557
-90.0	0.292	0.286	0.278	0.272	0.264	0.249	0.235	0.223	0.204	0.185

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	0.161	0.115	0.068	0.022	0.000
85.0	32.268	29.888	27.072	11.152	0.022
75.0	43.669	39.372	33.794	26.388	0.066
65.0	55.629	46.845	38.453	28.466	0.107
55.0	65.901	55.616	42.440	30.006	0.146
47.5	71.535	60.772	45.216	31.395	0.172
42.5	75.231	63.805	47.131	32.255	0.187
37.5	78.811	66.291	49.088	33.080	0.202
33.0	82.939	67.658	50.540	33.432	0.213
29.0	86.096	69.188	51.781	33.759	0.222
25.5	90.914	70.095	52.867	34.000	0.229
22.5	93.217	70.658	53.698	34.172	0.235
19.5	94.902	71.162	54.372	34.314	0.240
17.0	96.132	71.696	54.830	34.408	0.243
15.0	96.691	72.180	55.173	34.468	0.246
13.0	97.113	72.579	55.486	34.514	0.248
11.0	97.427	72.832	55.767	34.744	0.250
9.0	97.886	72.902	56.014	34.697	0.251

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL2-20L-50-8-N3-U-Y-GM.IES

CANDELA TABULATION - (Cont.)

7.0	98.412	72.908	56.224	34.650	0.252
5.0	98.869	72.863	56.541	34.602	0.253
3.0	99.244	72.814	56.575	34.554	0.254
1.0	99.303	72.638	56.609	34.506	0.254
0.0	99.333	72.549	56.626	34.482	0.254
-1.0	99.392	72.647	56.603	34.482	0.254
-3.0	99.510	72.844	56.558	34.521	0.254
-5.0	99.311	72.882	56.513	34.546	0.253
-7.0	99.029	72.895	56.203	34.572	0.252
-9.0	98.639	72.816	56.002	34.598	0.251
-11.0	98.191	72.622	55.775	34.623	0.250
-13.0	97.745	72.193	55.528	34.381	0.248
-15.0	97.220	71.707	55.264	34.318	0.246
-17.0	96.523	71.297	54.989	34.243	0.243
-19.5	95.370	70.860	54.623	34.133	0.240
-22.5	93.639	70.322	53.800	33.976	0.235
-25.5	90.980	69.311	52.768	33.793	0.229
-29.0	86.633	68.603	51.576	33.548	0.222
-33.0	81.495	67.384	50.091	33.226	0.213
-37.5	77.743	65.399	48.184	32.887	0.202
-42.5	74.207	62.936	46.888	32.063	0.187
-47.5	69.583	60.016	43.966	31.210	0.172
-55.0	64.883	54.027	41.503	29.844	0.146
-65.0	55.172	45.176	37.192	28.360	0.107
-75.0	42.242	37.498	32.164	25.926	0.066
-85.0	30.398	27.957	26.018	10.878	0.022
-90.0	0.146	0.110	0.065	0.022	0.000

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL2-20L-50-8-N3-U-Y-GM.IES

LUMEN TABULATION

Average Of Right And Left Sides
 Total Luminaire Lumens (one side of beam only) = 9561.7
 Total Field Lumens (one side of beam only) = 7858.66
 * Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>1</u>	<u>3</u>	<u>5</u>	<u>7</u>	<u>9</u>	<u>11</u>	<u>13</u>	<u>15</u>	<u>17</u>
90										
85	0.03	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07
75	0.15	0.30	0.30	0.30	0.30	0.30	0.29	0.29	0.29	0.35
65	0.20	0.40	0.41	0.41	0.40	0.40	0.40	0.39	0.39	0.48
55	0.26	0.52	0.52	0.52	0.52	0.52	0.51	0.50	0.50	0.61
47.5	0.25	0.50	0.50	0.49	0.49	0.48	0.48	0.47	0.46	0.56
42.5	0.21	0.42	0.42	0.41	0.40	0.39	0.38	0.37	0.36	0.44
37.5	0.28	0.55	0.54	0.53	0.51	0.50	0.48	0.47	0.46	0.54
33	0.42	0.80	0.77	0.75	0.72	0.68	0.64	0.60	0.55	0.62
29	0.56	1.09	1.04	1.01	0.97	0.92	0.87	0.80	0.73	0.80
25.5	1.47	2.73	2.38	2.02	1.63	1.29	1.08	0.96	0.88	0.99
22.5	4.13	7.84	7.09	6.09	4.88	3.64	2.53	1.64	1.09	1.06
19.5	8.94	17.39	16.40	14.82	12.72	10.27	7.56	4.99	2.97	1.97
17	12.05	23.54	22.40	20.65	18.34	15.66	12.51	9.17	5.97	3.88
15	13.29 *	25.92 *	24.59 *	22.70 *	20.31 *	17.63	14.66	11.55	8.21	5.88
13	17.59 *	34.13 *	32.02 *	29.29 *	26.05 *	22.55 *	18.87	15.28	11.54	9.11
11	23.89 *	45.99 *	42.40 *	37.74 *	32.74 *	27.96 *	23.30 *	18.87	14.63	12.44
9	34.55 *	65.77 *	58.85 *	50.05 *	41.45 *	34.16 *	27.98 *	22.50 *	17.52	15.52
7	50.27 *	94.90 *	83.15 *	68.31 *	53.55 *	41.66 *	32.90 *	26.03 *	20.22 *	18.19
5	69.35 *	129.22 *	111.85 *	90.66 *	68.53 *	50.66 *	38.09 *	29.33 *	22.64 *	20.46
3	88.89 *	166.60 *	141.44 *	111.20 *	83.13 *	59.66 *	43.00 *	32.15 *	24.52 *	22.21
1	97.92 *	190.14 *	164.82 *	127.04 *	93.90 *	66.38 *	46.47 *	34.10 *	25.77 *	23.29
0	48.79 *	97.29 *	86.85 *	66.76 *	48.82 *	34.43 *	23.89 *	17.43 *	13.12 *	11.82 *
-1	48.89 *	97.38 *	86.73 *	66.49 *	48.64 *	34.39 *	23.91 *	17.43 *	13.09 *	11.80 *
-3	97.83 *	188.94 *	163.12 *	125.50 *	92.80 *	65.94 *	46.26 *	34.01 *	25.68 *	23.20
	85.67 *	162.17 *	137.59 *	108.38 *	81.38 *	58.84 *	42.64 *	32.05 *	24.47 *	22.14

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL2-20L-50-8-N3-U-Y-GM.IES

LUMENS TABULATION - (Cont.)

-5	63.94 *	123.01 *	107.07 *	87.25 *	66.77 *	49.98 *	37.91 *	29.28 *	22.58 *	20.39
-7	46.45 *	90.18 *	79.55 *	65.98 *	52.46 *	41.31 *	32.77 *	25.99 *	20.19 *	18.09
-9	32.60 *	63.66 *	57.32 *	49.13 *	41.03 *	34.00 *	27.86 *	22.40 *	17.43	15.35
-11	23.02 *	45.27 *	42.06 *	37.56 *	32.68 *	27.95 *	23.26 *	18.71	14.43	12.27
-13	17.25 *	34.02 *	32.09 *	29.40 *	26.14 *	22.57 *	18.86	15.12	11.36	9.05
-15	13.18 *	26.09 *	24.76 *	22.85 *	20.42 *	17.60	14.57	11.40	8.10	5.96
-17	11.94	23.73	22.59	20.71	18.31	15.52	12.38	9.06	5.92	3.99
-19.5	8.66	17.24	16.37	14.72	12.52	10.02	7.43	4.96	2.99	2.04
-22.5	3.74	7.44	6.88	5.91	4.70	3.50	2.47	1.63	1.10	1.07
-25.5	1.24	2.49	2.28	1.93	1.56	1.26	1.08	0.96	0.88	0.98
-29	0.51	1.05	1.05	1.02	0.97	0.92	0.86	0.80	0.73	0.80
-33	0.37	0.77	0.77	0.74	0.71	0.68	0.64	0.60	0.55	0.63
-37.5	0.26	0.53	0.53	0.52	0.51	0.50	0.48	0.47	0.46	0.55
-42.5	0.21	0.42	0.42	0.41	0.41	0.40	0.39	0.37	0.36	0.44
-47.5	0.25	0.50	0.50	0.50	0.49	0.49	0.48	0.48	0.47	0.57
-55	0.27	0.54	0.54	0.53	0.53	0.53	0.52	0.52	0.51	0.62
-65	0.21	0.42	0.42	0.42	0.42	0.41	0.41	0.40	0.40	0.49
-75	0.15	0.30	0.30	0.30	0.30	0.30	0.29	0.29	0.29	0.35
-85	0.03	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07
-90										
Total	930.18	1792.28	1581.79	1292.15	1014.26	777.34	592.49	454.96	344.91	302.13

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.08	0.08	0.09	0.10	0.10	0.11	0.09	0.12	0.12	0.07
85	0.41	0.40	0.45	0.48	0.50	0.51	0.45	0.56	0.55	0.34
75	0.56	0.54	0.60	0.65	0.68	0.68	0.60	0.75	0.71	0.41
65	0.71	0.69	0.76	0.81	0.84	0.83	0.73	0.91	0.85	0.48
55	0.65	0.63	0.69	0.73	0.74	0.73	0.63	0.77	0.72	0.40
47.5	0.50	0.48	0.52	0.55	0.56	0.55	0.47	0.55	0.52	0.28

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL2-20L-50-8-N3-U-Y-GM.IES

LUMENS TABULATION - (Cont.)

42.5										
	0.61	0.55	0.59	0.61	0.61	0.60	0.51	0.60	0.54	0.29
37.5										
	0.67	0.60	0.62	0.62	0.59	0.57	0.49	0.57	0.51	0.27
33										
	0.81	0.66	0.65	0.63	0.58	0.54	0.45	0.53	0.47	0.25
29										
	1.00	0.78	0.69	0.63	0.57	0.50	0.41	0.48	0.42	0.22
25.5										
	1.08	0.87	0.75	0.62	0.53	0.46	0.36	0.43	0.37	0.19
22.5										
	1.34	1.05	0.93	0.72	0.57	0.49	0.38	0.43	0.38	0.20
19.5										
	1.90	1.00	0.90	0.70	0.52	0.43	0.32	0.37	0.32	0.16
17										
	2.83	0.98	0.80	0.63	0.45	0.35	0.26	0.30	0.26	0.13
15										
	4.78	1.44	0.86	0.69	0.49	0.36	0.27	0.30	0.26	0.13
13										
	7.27	2.23	0.94	0.73	0.52	0.37	0.27	0.30	0.26	0.13
11										
	9.91	3.28	1.09	0.78	0.55	0.38	0.28	0.31	0.26	0.13
9										
	12.39	4.54	1.40	0.81	0.58	0.39	0.28	0.31	0.26	0.13
7										
	14.49	5.79	1.80	0.84	0.59	0.40	0.28	0.31	0.26	0.13
5										
	16.00	6.71	2.12	0.86	0.61	0.40	0.29	0.31	0.26	0.13
3										
	16.87	7.27	2.36	0.87	0.62	0.41	0.29	0.31	0.26	0.13
1										
	8.60	3.75	1.23	0.44	0.31	0.21	0.15	0.16	0.13	0.07
0										
	8.60	3.76	1.23	0.44	0.31	0.21	0.15	0.16	0.13	0.07
-1										
	16.88	7.31	2.37	0.87	0.62	0.41	0.29	0.31	0.26	0.13
-3										
	15.95	6.71	2.14	0.86	0.61	0.41	0.29	0.31	0.26	0.13
-5										
	14.39	5.81	1.85	0.84	0.60	0.40	0.29	0.31	0.26	0.13
-7										
	12.35	4.69	1.52	0.81	0.58	0.39	0.28	0.31	0.26	0.13
-9										
	9.94	3.49	1.21	0.78	0.55	0.39	0.28	0.31	0.26	0.13
-11										
	7.37	2.44	1.00	0.74	0.53	0.38	0.28	0.31	0.26	0.13
-13										
	4.97	1.61	0.87	0.69	0.50	0.37	0.27	0.30	0.26	0.13
-15										
	3.02	1.08	0.80	0.64	0.46	0.36	0.27	0.30	0.26	0.13
-17										
	2.04	1.02	0.90	0.71	0.54	0.43	0.33	0.37	0.32	0.16
-19.5										
	1.39	1.05	0.94	0.74	0.59	0.49	0.38	0.44	0.38	0.19
-22.5										
	1.08	0.88	0.76	0.63	0.54	0.46	0.37	0.43	0.37	0.19

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL2-20L-50-8-N3-U-Y-GM.IES

LUMENS TABULATION - (Cont.)

-25.5	1.00	0.78	0.70	0.64	0.58	0.51	0.42	0.49	0.42	0.22
-29	0.81	0.67	0.67	0.64	0.59	0.54	0.46	0.53	0.46	0.25
-33	0.68	0.61	0.63	0.62	0.60	0.57	0.49	0.57	0.50	0.27
-37.5	0.61	0.56	0.59	0.61	0.61	0.60	0.51	0.60	0.53	0.29
-42.5	0.50	0.48	0.52	0.55	0.57	0.55	0.46	0.55	0.51	0.28
-47.5	0.66	0.62	0.69	0.73	0.75	0.73	0.62	0.76	0.71	0.39
-55	0.72	0.69	0.76	0.81	0.83	0.82	0.72	0.90	0.83	0.46
-65	0.57	0.55	0.61	0.65	0.68	0.68	0.60	0.73	0.68	0.40
-75	0.41	0.40	0.44	0.47	0.49	0.50	0.44	0.54	0.53	0.32
-85	0.08	0.08	0.09	0.09	0.10	0.10	0.09	0.11	0.11	0.07
-90										
Total	207.48	89.62	42.11	29.05	24.34	20.57	16.55	19.32	17.23	9.34

Vert. Angles	Horizontal Angles			Total
	75	85	90	
90	0.03	0.00		1.56
85	0.13	0.01		7.65
75	0.17	0.01		10.23
65	0.18	0.01		12.80
55	0.15	0.01		11.54
47.5	0.10	0.01		8.91
42.5	0.11	0.01		10.47
37.5	0.10	0.01		12.18
33	0.09	0.00		14.47
29	0.08	0.00		21.20
25.5	0.07	0.00		45.71
22.5	0.07	0.00		104.56
19.5	0.06	0.00		150.86
17	0.05	0.00		171.79
15	0.05	0.00		226.05

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL2-20L-50-8-N3-U-Y-GM.IES

LUMENS TABULATION - (Cont.)

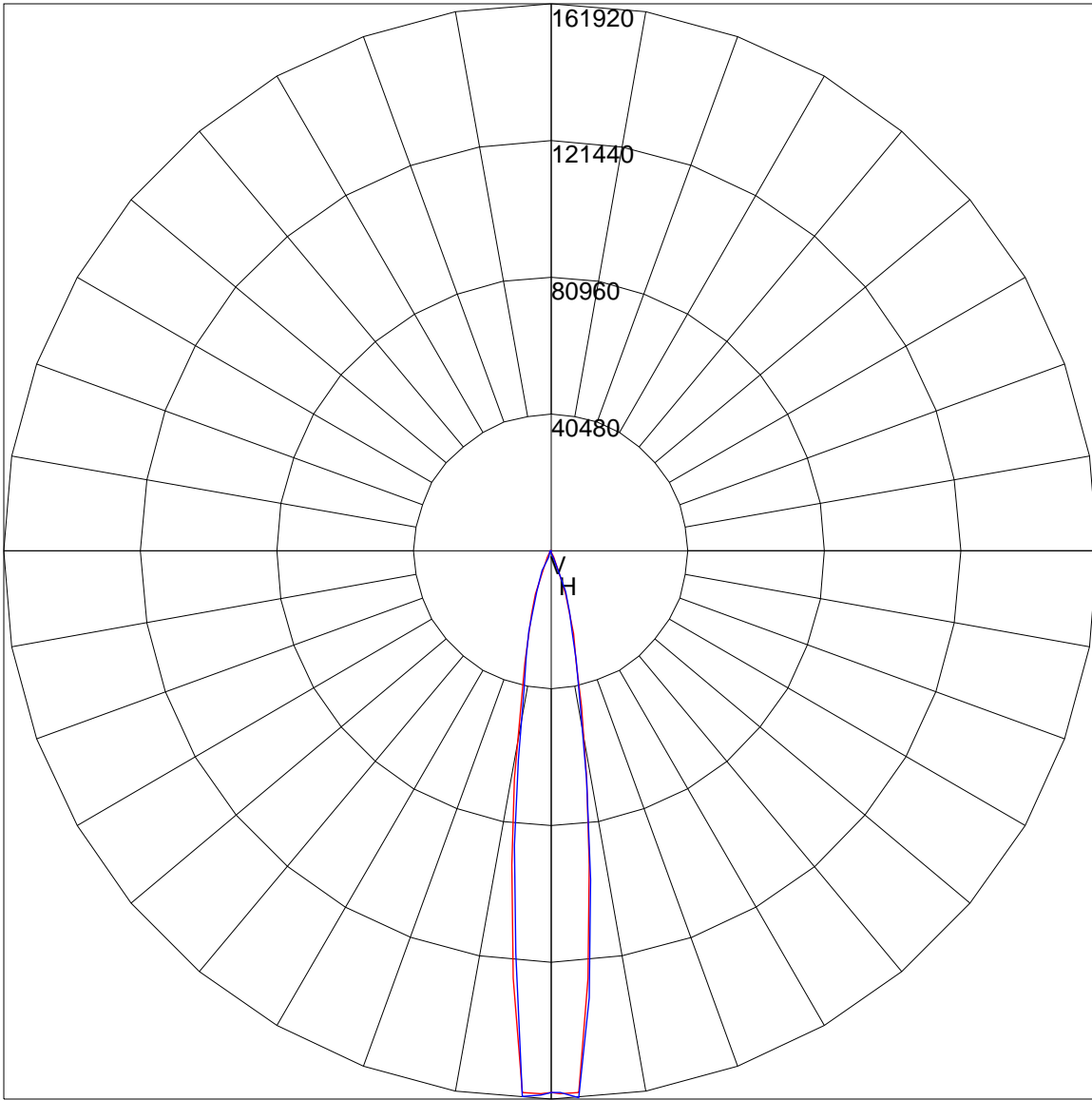
13			
	0.05	0.00	293.05
11			
	0.05	0.00	385.37
9			
	0.05	0.00	510.33
7			
	0.05	0.00	655.71
5			
	0.05	0.00	800.54
3			
	0.05	0.00	899.29
1			
	0.02	0.00	464.27
0			
	0.02	0.00	463.81
-1			
	0.05	0.00	892.80
-3			
	0.05	0.00	783.06
-5			
	0.05	0.00	633.11
-7			
	0.05	0.00	494.33
-9			
	0.05	0.00	378.17
-11			
	0.05	0.00	290.69
-13			
	0.05	0.00	225.90
-15			
	0.05	0.00	172.27
-17			
	0.06	0.00	151.04
-19.5			
	0.07	0.00	103.61
-22.5			
	0.07	0.00	44.23
-25.5			
	0.08	0.00	20.50
-29			
	0.09	0.00	14.43
-33			
	0.10	0.00	12.10
-37.5			
	0.11	0.01	10.43
-42.5			
	0.10	0.01	8.92
-47.5			
	0.15	0.01	11.53
-55			
	0.18	0.01	12.86
-65			
	0.16	0.01	10.31
-75			
	0.13	0.01	7.55

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL2-20L-50-8-N3-U-Y-GM.IES

LUMENS TABULATION - (Cont.)

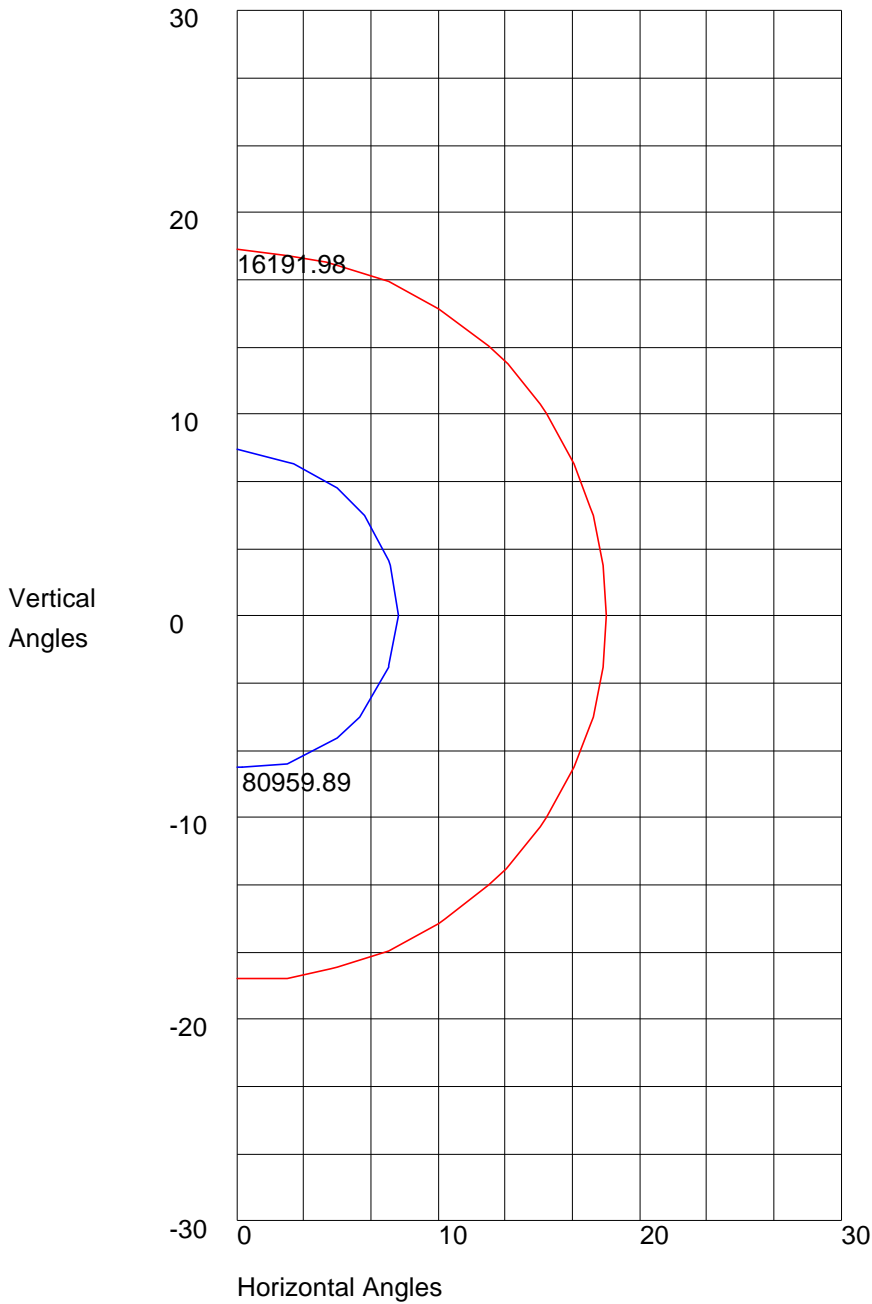
-85	0.02	0.00	1.52
-90			
Total	3.45	0.17	9561.71

AXIAL CANDELA DISPLAY



Maximum Candela = 161919.787 Located At Horizontal Angle = 0, Vertical Angle = 3
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 16191.787 Located At Horizontal Angle = 0, Vertical Angle = 3
50% Maximum Candela = 80959.8935
10% Maximum Candela = 16191.9787