



**IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL4-40L-40-8-N4-U-Y-GM.IES**

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 1231976
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 4/5/2016
 [MANUFAC] Eye Lighting International of North America
 [LUMCAT] FL4-40L-40-8-N4-U-Y-GM
 [LUMINAIRE] Formed aluminum housing/ heatsink, clear plastic lens, specular plastic reflector
 [MORE] cular plastic reflector
 [LAMP] 10 white LEDs
 [BALLAST] Meanwell HLG-185H-C
 [OTHER] 24.4 C, 120.01 V, 3.216 A, 383.8 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	4 H x 4 V
Maximum Candela	160470
Maximum Candela Angle	0H -5V
Horizontal Beam Angle (50%)	18.5
Vertical Beam Angle (50%)	20.7
Horizontal Field Angle (10%)	48.9
Vertical Field Angle (10%)	49.8
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	13190
Beam Efficiency	N.A.
Field Lumens	29218
Field Efficiency	N.A.
Spill Lumens	5249
Luminaire Lumens	34467
Total Efficiency	N.A.
Total Luminaire Watts	383.8
Ballast Factor	1.00



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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	.26	90	.284
85	48.2	85	50.6
75	89.7	75	94.7
65	136.3	65	141.1
55	194.9	55	206
47.5	293.85	47.5	319.1
42.5	455.5	42.5	661.4
37.5	748.6	37.5	839.95
33	3358.1	33	3329
29	8619	29	7725.1
25.5	14794.2	25.5	14099.3
22.5	20299.15	22.5	20204.4
19.5	26854.101	19.5	26071
17	33899.398	17	32858.5
15	42005	15	40771.5
13	53461.199	13	51698
11	70344.203	11	67012.203
9	99275.797	9	92498.102
7	140222	7	131257
5	160017	5	158608
3	158990.5	3	159040
1	157104	1	157329
0	157110.703	0	157110.703
-1	157104	-1	157005
-3	158990.5	-3	158045
-5	160017	-5	160470
-7	140222	-7	147587
-9	99275.797	-9	108033
-11	70344.203	-11	76085.898
-13	53461.199	-13	57552.398
-15	42005	-15	45304.898
-17	33899.398	-17	36352
-19.5	26854.101	-19.5	28544.05
-22.5	20299.15	-22.5	21802.9
-25.5	14794.2	-25.5	15444.25
-29	8619	-29	9007.1
-33	3358.1	-33	4311.2
-37.5	748.6	-37.5	945.95
-42.5	455.5	-42.5	682.5
-47.5	293.85	-47.5	336.15
-55	194.9	-55	219.8
-65	136.3	-65	153.3
-75	89.7	-75	101.7
-85	48.2	-85	57.2
-90	.26	-90	.335

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CANDELA TABULATION

Maximum Candela = 160470
 Beam Edge = 80235 Cd (50% of Max.)
 Field Edge = 16047 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	0.023	0.068	0.115	0.158	0.193	0.213	0.230	0.246	0.261
85.0	0.023	11.273	27.248	31.054	35.388	39.249	41.194	43.156	44.391	45.913
75.0	0.067	26.838	40.818	56.423	67.337	73.561	76.984	80.864	82.849	85.788
65.0	0.110	29.679	57.147	73.286	89.099	98.180	105.732	111.361	116.964	121.708
55.0	0.149	33.599	65.897	88.012	109.867	126.775	137.418	148.580	155.819	162.897
47.5	0.176	36.633	72.142	97.273	127.688	149.186	166.316	179.090	190.833	202.406
42.5	0.192	38.626	76.713	104.840	139.269	168.607	183.468	200.110	220.013	241.271
37.5	0.206	40.734	79.150	111.979	149.442	181.699	202.693	229.921	264.316	310.813
33.0	0.218	42.260	81.374	116.511	161.961	193.600	229.803	272.611	335.852	499.581
29.0	0.228	43.665	83.119	121.134	170.205	207.799	256.017	316.397	506.004	576.221
25.5	0.235	44.740	84.414	124.391	175.332	220.437	278.024	405.822	586.452	672.136
22.5	0.240	45.546	85.350	126.693	179.000	231.810	296.267	511.110	620.312	972.840
19.5	0.245	46.244	86.020	129.486	181.258	242.930	318.784	559.967	713.716	1956.844
17.0	0.249	46.744	86.478	131.509	183.680	251.209	358.296	566.689	883.186	3214.781
15.0	0.251	47.090	86.896	132.738	185.960	258.657	397.402	570.052	1100.350	4292.808
13.0	0.254	47.388	87.336	133.615	188.169	264.785	438.486	585.934	1465.813	5289.619
11.0	0.255	48.315	87.783	134.410	189.655	269.263	451.745	605.991	1927.473	6166.696
9.0	0.257	48.294	88.223	135.129	191.027	274.874	459.163	634.047	2429.356	6897.833
7.0	0.258	48.273	88.641	135.678	192.158	281.717	457.023	664.119	2786.980	7477.732
5.0	0.259	48.252	89.272	136.057	193.359	288.404	451.934	697.443	3114.236	7977.844
3.0	0.260	48.231	89.443	136.440	194.606	291.845	454.000	727.651	3313.915	8344.242
1.0	0.260	48.211	89.614	136.347	194.802	293.598	455.716	744.755	3383.316	8597.432
0.0	0.260	48.200	89.700	136.300	194.900	293.850	455.500	748.600	3358.100	8619.000
-1.0	0.260	48.200	89.748	136.524	195.054	292.678	458.461	752.616	3408.039	8713.352
-3.0	0.260	48.268	89.845	136.971	195.362	289.226	462.367	750.675	3386.799	8662.836
-5.0	0.259	48.314	89.941	136.889	194.605	284.503	465.056	730.560	3249.237	8309.072
-7.0	0.258	48.359	89.495	136.772	193.884	280.467	469.224	701.746	2983.397	7802.538
-9.0	0.257	48.404	89.251	136.413	192.654	276.760	464.084	669.908	2671.634	7228.641
-11.0	0.255	48.449	88.933	135.761	191.023	273.034	443.726	638.394	2194.997	6609.689
-13.0	0.254	47.584	88.545	135.017	189.158	269.085	419.052	618.802	1737.086	5781.063
-15.0	0.251	47.329	88.092	134.021	187.325	263.950	384.908	603.637	1312.143	4793.979
-17.0	0.249	47.033	87.577	132.844	185.586	257.155	355.186	598.929	1034.891	3741.474
-19.5	0.245	46.604	86.859	131.067	182.985	249.674	328.249	578.395	804.928	2467.226
-22.5	0.240	46.005	85.946	128.549	180.200	239.171	307.647	507.199	669.650	1286.040
-25.5	0.235	45.316	84.907	126.517	176.966	228.157	289.836	399.751	619.024	785.267
-29.0	0.228	44.402	83.498	123.443	171.586	216.271	267.153	327.929	512.598	617.518
-33.0	0.218	43.215	81.978	119.084	165.731	200.579	239.430	286.772	345.537	525.108
-37.5	0.206	41.954	79.840	113.444	153.666	188.004	211.014	243.871	280.423	319.638
-42.5	0.192	39.573	76.923	106.942	142.117	174.290	189.544	209.064	231.816	256.475
-47.5	0.176	37.233	73.950	99.399	131.668	155.350	171.386	185.763	200.196	214.538
-55.0	0.149	33.814	68.255	91.070	114.124	132.184	143.111	154.688	163.398	172.006
-65.0	0.110	30.737	58.924	76.593	92.334	103.158	110.889	117.300	123.209	129.318
-75.0	0.067	27.273	42.526	59.606	70.646	78.088	82.404	85.367	88.436	91.395
-85.0	0.023	11.316	28.607	33.502	39.009	43.291	45.544	48.279	50.063	51.843
-90.0	0.000	0.023	0.071	0.124	0.172	0.209	0.230	0.256	0.276	0.281

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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	0.271	0.278	0.283	0.283	0.283	0.286	0.288	0.292	0.295	0.299
85.0	46.369	47.240	48.168	49.058	49.805	50.186	51.000	51.116	51.357	51.600
75.0	87.074	88.462	89.942	91.096	91.905	92.856	93.882	94.737	95.216	95.886
65.0	125.274	127.696	131.170	133.908	135.725	137.234	138.573	139.852	141.248	142.522
55.0	169.574	175.027	180.194	184.801	188.420	191.548	194.306	196.966	199.449	201.799
47.5	214.579	226.457	237.659	247.978	256.464	266.397	275.488	285.006	293.937	302.860
42.5	263.732	292.339	330.779	378.261	429.926	488.558	525.638	562.914	602.936	624.891
37.5	414.309	452.708	478.933	518.280	557.283	601.028	643.339	687.491	732.461	768.558
33.0	531.292	568.589	660.686	820.601	988.153	1262.963	1661.234	2167.889	2541.464	2877.385
29.0	658.167	902.174	1653.119	2596.128	3364.470	4147.645	5012.826	5765.395	6413.763	7027.251
25.5	1202.798	2663.277	4672.719	6017.617	7332.428	8765.735	10034.498	11048.589	12115.680	12963.096
22.5	2756.754	5168.258	7483.757	9676.880	11541.777	13560.817	15359.142	16855.010	18066.801	19036.215
19.5	5004.616	7827.100	10938.337	13841.597	16110.169	18251.467	20088.923	21851.269	23330.281	24459.271
17.0	6899.895	9985.467	13904.987	17264.491	19713.060	22075.524	24411.912	26696.103	28811.727	30456.931
15.0	8204.446	11778.338	16121.940	19809.437	22769.135	25530.245	28341.466	31397.226	34556.509	37016.214
13.0	9441.450	13603.547	18253.565	22280.809	25545.372	29112.631	33060.035	37149.333	41999.047	45824.752
11.0	10687.505	15361.669	20277.123	24767.060	28620.580	33054.821	38790.266	44939.826	51534.722	58137.395
9.0	11875.331	16885.246	22146.041	27134.346	31877.330	37628.502	45189.310	54146.837	63653.839	74151.764
7.0	12901.405	18077.004	23778.561	29301.107	35088.398	42611.085	52166.892	64397.820	79737.823	99318.963
5.0	13737.259	19046.415	25084.064	31294.695	37875.657	46920.638	59717.085	76352.559	101536.630	132982.944
3.0	14365.116	19740.670	26016.820	32740.012	40299.300	50719.371	65210.892	88646.159	122995.166	1652976.813
1.0	14722.922	20194.652	26666.517	33726.763	41830.892	53233.807	69700.566	97832.097	138353.828	1859757.526
0.0	14794.200	20299.150	26854.101	33899.398	42005.000	53461.199	70344.203	99275.797	140222.000	1860017.000
-1.0	14836.366	20322.574	26915.378	34164.170	42349.486	53855.460	70622.405	100039.207	141188.156	1860006.256
-3.0	14695.892	20085.283	26482.482	33418.189	41323.431	52246.891	67817.021	94133.595	131243.531	156988.332
-5.0	14209.683	19564.302	25688.430	32118.576	39423.776	49470.087	63457.093	82797.883	113768.906	146379.161
-7.0	13428.980	18784.155	24669.399	30584.836	36947.598	45200.171	56211.479	70611.995	90968.384	116696.919
-9.0	12550.304	17790.497	23221.953	28438.946	33535.039	40361.911	49033.518	59699.414	71954.031	86334.441
-11.0	11512.374	16536.743	21445.511	26118.366	30462.487	35640.750	42106.491	49567.763	57830.650	66273.500
-13.0	10298.765	14872.692	19544.433	23679.740	27292.921	31164.141	35748.830	41272.749	46790.859	51924.695
-15.0	8940.744	13022.115	17517.914	21112.632	24379.151	27374.176	30836.088	34488.486	38008.164	41684.511
-17.0	7568.712	11191.924	15284.176	18631.691	21207.573	23969.212	26629.349	29064.088	31658.493	33935.137
-19.5	5775.137	8775.600	12194.537	15312.355	1736.703	19896.375	21973.246	23938.026	25718.029	26953.438
-22.5	3480.635	6024.987	8561.045	11144.765	13292.727	15384.900	17131.226	18622.514	19875.707	20842.725
-25.5	1666.593	3465.379	5581.631	7329.835	8801.341	10319.550	11733.971	12992.330	14102.993	14909.253
-29.0	785.879	1239.489	2348.758	3494.052	4403.095	5346.903	6308.715	7206.172	7990.129	8593.157
-33.0	579.407	643.475	794.253	1074.569	1397.209	1881.892	2480.614	3112.705	3568.669	3997.675
-37.5	428.586	496.152	543.505	591.539	635.405	686.574	738.548	799.581	856.606	909.239
-42.5	283.305	313.838	351.049	393.666	446.271	505.559	549.087	593.115	638.147	660.063
-47.5	228.587	241.750	256.403	268.900	279.674	289.925	298.825	308.169	317.220	326.076
-55.0	178.997	184.991	190.324	194.801	198.519	201.452	204.542	207.774	211.054	214.155
-65.0	133.496	136.096	139.370	141.822	143.614	145.389	147.250	148.962	149.780	150.267
-75.0	92.730	94.345	95.904	97.421	98.575	99.305	99.735	100.069	100.530	101.275
-85.0	52.759	53.511	54.125	54.962	55.678	55.926	56.721	56.797	56.997	57.198
-90.0	0.292	0.305	0.318	0.327	0.334	0.338	0.343	0.345	0.344	0.344

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	0.293	0.287	0.284	0.287	0.293	0.299	0.295	0.292	0.288	0.286
85.0	51.202	50.801	50.600	50.801	51.202	51.600	51.357	51.116	51.000	50.186
75.0	95.445	94.948	94.700	94.948	95.445	95.886	95.216	94.737	93.882	92.856
65.0	142.556	141.585	141.100	141.585	142.556	142.522	141.248	139.852	138.573	137.234

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55.0	204.243	205.414	206.000	205.414	204.243	201.799	199.449	196.966	194.306	191.548
47.5	310.273	316.402	319.100	316.402	310.273	302.860	293.937	285.006	275.488	266.397
42.5	644.877	656.632	661.400	656.632	644.877	624.890	602.935	562.914	525.638	488.558
37.5	792.864	825.992	839.950	825.992	792.864	768.558	732.461	687.491	643.339	601.028
33.0	3104.660	3293.242	3329.000	3293.242	3104.660	2877.385	2541.464	2167.889	1661.234	1262.963
29.0	7368.492	7644.889	7725.100	7644.889	7368.492	7027.251	6413.762	5765.395	5012.826	4147.644
25.5	13468.64213899.81114099.30013899.81113468.64212963.09612115.68011048.58810034.4988765.736									
22.5	19606.19620029.06720204.40020029.06819606.19619036.21518066.80116855.01015359.14213560.817									
19.5	25368.03925882.18026071.00025882.18025368.03924459.27123330.28121851.26920088.92318251.467 *									
17.0	31921.69832657.81032858.50032657.81031921.69830456.93128811.72726696.10324411.91222075.524 *									
15.0	39229.60140351.02940771.50040351.03039229.60237016.21434556.50931397.22628341.46525530.245 *									
13.0	49296.44250892.59951698.00050892.59749296.44245824.75241999.04737149.33333060.03629112.631 *									
11.0	63087.81965815.04567012.20365815.04563087.81958137.39551534.72344939.82638790.26633054.821 *									
9.0	84349.99190790.25092498.10290790.25084349.99174151.76463653.83954146.83745189.31037628.503 *									
7.0	118336.28129973.52231257.00029973.52218336.2899318.95979737.82164397.81952166.89242611.085 *									
5.0	151043.77258696.85258608.00058696.85251043.77232982.94401536.6326352.56059717.08546920.638 *									
3.0	160229.27359895.69359040.00059895.69360229.27352976.81522995.1688646.15865210.89250719.372 *									
1.0	159264.69657674.07257329.00057674.07259264.69659757.52638353.8297832.09969700.56453233.808 *									
0.0	158990.50057104.00057110.70357104.00058990.50060017.00040222.0099275.79770344.20353461.199 *									
-1.0	158678.95457184.08957005.00057184.08958678.95460006.25641188.15500039.2070622.40753855.459 *									
-3.0	159653.41458130.44458045.00058130.44459653.41456988.33231243.5394133.59767817.02152246.891 *									
-5.0	158519.42460185.43660470.00060185.43658519.42446379.16113768.9062797.88363457.09449470.087 *									
-7.0	137299.51548073.47947587.00048073.47937299.51516696.9190968.38470611.99556211.47945200.171 *									
-9.0	101185.17109602.52608033.00009602.52601185.1786334.44171954.03159699.41449033.51840361.911 *									
-11.0	72806.54977328.85876085.89877328.85872806.54966273.50057830.65049567.76342106.49135640.750 *									
-13.0	55974.64758126.72257552.39858126.72255974.64751924.69546790.85941272.74935748.83031164.141 *									
-15.0	44117.67145355.05545304.89845355.05544117.67141684.51138008.16434488.48630836.08827374.176 *									
-17.0	35421.22936296.37936352.00036296.37935421.22933935.13731658.49329064.08826629.34923969.212 *									
-19.5	27889.18928458.53628544.05028458.53627889.18926953.43825718.02923938.02621973.24619896.375 *									
-22.5	21530.15721819.01621802.90021819.01621530.15720842.72519875.70718622.51417131.22615384.900									
-25.5	15356.86315486.10815444.25015486.10815356.86314909.25314102.99312992.33011733.97110319.550									
-29.0	8921.718 9044.298 9007.100 9044.298 8921.718 8593.157 7990.129 7206.172 6308.715 5346.903									
-33.0	4322.494 4371.959 4311.200 4371.959 4322.494 3997.675 3568.669 3112.705 2480.614 1881.892									
-37.5	951.823 952.215 945.950 952.215 951.823 909.239 856.606 799.581 738.548 686.574									
-42.5	678.215 682.283 682.500 682.283 678.215 660.063 638.147 593.115 549.087 505.559									
-47.5	332.558 335.242 336.150 335.242 332.558 326.076 317.220 308.169 298.825 289.925									
-55.0	217.238 218.946 219.800 218.946 217.238 214.155 211.054 207.774 204.542 201.452									
-65.0	151.579 152.726 153.300 152.726 151.579 150.267 149.780 148.962 147.250 145.389									
-75.0	101.452 101.617 101.700 101.617 101.452 101.275 100.530 100.069 99.735 99.305									
-85.0	57.200 57.200 57.200 57.200 57.200 57.198 56.997 56.797 56.721 55.926									
-90.0	0.341 0.337 0.335 0.337 0.341 0.344 0.344 0.345 0.343 0.338									

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	0.283	0.283	0.283	0.278	0.271	0.261	0.246	0.230	0.213	0.193
85.0	49.805	49.058	48.168	47.240	46.369	45.913	44.391	43.156	41.194	39.249
75.0	91.905	91.096	89.942	88.462	87.074	85.788	82.849	80.864	76.984	73.561
65.0	135.725	133.908	131.170	127.696	125.274	121.708	116.964	111.361	105.732	98.180
55.0	188.420	184.801	180.194	175.027	169.574	162.897	155.819	148.580	137.418	126.775
47.5	256.464	247.978	237.659	226.457	214.579	202.406	190.833	179.090	166.316	149.186
42.5	429.926	378.261	330.779	292.339	263.732	241.271	220.013	200.110	183.468	168.607
37.5	557.283	518.280	478.933	452.708	414.309	310.813	264.316	229.921	202.693	181.699
33.0	988.153	820.601	660.686	568.589	531.292	499.581	335.852	272.611	229.803	193.600
29.0	3364.470	2596.129	1653.119	902.174	658.167	576.221	506.004	316.397	256.017	207.799
25.5	7332.428	6017.616	4672.720	2663.277	1202.798	672.136	586.452	405.822	278.024	220.437

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL4-40L-40-8-N4-U-Y-GM.IES

CANDELA TABULATION - (Cont.)

22.5	11541.7769676.880	7483.756	5168.258	2756.754	972.840	620.312	511.110	296.267	231.810
19.5	16110.169*3841.59810938.3377827.100	5004.616	1956.844	713.716	559.967	318.784	242.930		
17.0	19713.060*7264.491*3904.9879985.467	6899.895	3214.781	883.186	566.689	358.296	251.209		
15.0	22769.135*9809.437*6121.940*1778.3388204.446	4292.808	1100.350	570.052	397.402	258.657			
13.0	25545.37222280.809*8253.565*3603.5479441.450	5289.618	1465.813	585.934	438.486	264.785			
11.0	28620.58024767.06020277.123*5361.66910687.5056166.697	1927.473	605.991	451.745	269.263				
9.0	31877.33127134.34622146.041*6885.246*1875.3316897.833	2429.356	634.047	459.163	274.874				
7.0	35088.39829301.10723778.561*8077.004*2901.4057477.731	2786.980	664.119	457.023	281.717				
5.0	37875.6573*1294.69625084.064*9046.415*3737.2597977.844	3114.236	697.443	451.934	288.404				
3.0	40299.30032740.01226016.820*9740.670*4365.1168344.242	3313.915	727.651	454.000	291.845				
1.0	41830.89233726.76226666.51820194.652*4722.9228597.432	3383.316	744.755	455.716	293.598				
0.0	42005.00033899.39826854.10120299.150*4794.2008619.000	3358.100	748.600	455.500	293.850				
-1.0	42349.48634164.17126915.37720322.574*4836.3668713.351	3408.039	752.616	458.461	292.678				
-3.0	41323.43133418.18926482.48220085.283*4695.8928662.835	3386.800	750.675	462.367	289.226				
-5.0	39423.77532118.57625688.430*9564.302*4209.6838309.072	3249.238	730.560	465.056	284.503				
-7.0	36947.59930584.83624669.399*8784.155*3428.9807802.537	2983.396	701.747	469.224	280.467				
-9.0	33535.03928438.94623221.953*7790.497*2550.3047228.641	2671.634	669.908	464.084	276.760				
-11.0	30462.48726118.36721445.511*6536.743*1512.3746609.690	2194.997	638.394	443.726	273.034				
-13.0	27292.92123679.740*9544.433*4872.69210298.7655781.063	1737.086	618.802	419.052	269.085				
-15.0	24379.15121112.63217517.914*3022.1158940.744	4793.979	1312.143	603.637	384.908	263.950			
-17.0	21207.573*8631.691*5284.17611191.9247568.712	3741.474	1034.891	598.929	355.186	257.155			
-19.5	17736.703*5312.35512194.5378775.600	5775.138	2467.226	804.928	578.395	328.249	249.674		
-22.5	13292.72711144.7658561.045	6024.987	3480.635	1286.040	669.650	507.199	307.647	239.171	
-25.5	8801.341	7329.835	5581.631	3465.379	1666.593	785.267	619.024	399.751	289.836
-29.0	4403.095	3494.052	2348.758	1239.489	785.879	617.518	512.598	327.929	267.153
-33.0	1397.209	1074.569	794.253	643.475	579.407	525.108	345.537	286.772	239.430
-37.5	635.405	591.539	543.505	496.152	428.586	319.638	280.423	243.871	211.014
-42.5	446.271	393.666	351.049	313.838	283.305	256.475	231.816	209.064	189.544
-47.5	279.674	268.900	256.403	241.750	228.587	214.538	200.196	185.763	171.386
-55.0	198.519	194.801	190.324	184.991	178.997	172.006	163.398	154.688	143.111
-65.0	143.614	141.822	139.370	136.096	133.496	129.318	123.209	117.300	110.889
-75.0	98.575	97.421	95.904	94.345	92.730	91.395	88.436	85.367	82.404
-85.0	55.678	54.962	54.125	53.511	52.759	51.843	50.063	48.279	45.544
-90.0	0.334	0.327	0.318	0.305	0.292	0.281	0.276	0.256	0.230

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	0.158	0.115	0.068	0.023	0.000
85.0	35.388	31.054	27.248	11.273	0.023
75.0	67.337	56.423	40.818	26.838	0.067
65.0	89.099	73.286	57.147	29.679	0.110
55.0	109.867	88.012	65.897	33.599	0.149
47.5	127.688	97.273	72.142	36.633	0.176
42.5	139.269	104.840	76.713	38.626	0.192
37.5	149.442	111.979	79.150	40.734	0.206
33.0	161.961	116.511	81.374	42.260	0.218
29.0	170.205	121.134	83.119	43.665	0.228
25.5	175.332	124.391	84.414	44.740	0.235
22.5	179.000	126.693	85.350	45.546	0.240
19.5	181.258	129.486	86.020	46.244	0.245
17.0	183.680	131.509	86.478	46.744	0.249
15.0	185.960	132.738	86.896	47.090	0.251
13.0	188.169	133.615	87.336	47.388	0.254
11.0	189.655	134.410	87.783	48.315	0.255
9.0	191.027	135.129	88.223	48.294	0.257

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL4-40L-40-8-N4-U-Y-GM.IES

CANDELA TABULATION - (Cont.)

7.0	192.158	135.678	88.641	48.273	0.258
5.0	193.359	136.057	89.272	48.252	0.259
3.0	194.606	136.440	89.443	48.231	0.260
1.0	194.802	136.347	89.614	48.211	0.260
0.0	194.900	136.300	89.700	48.200	0.260
-1.0	195.054	136.524	89.748	48.200	0.260
-3.0	195.362	136.971	89.845	48.268	0.260
-5.0	194.605	136.889	89.941	48.314	0.259
-7.0	193.884	136.772	89.495	48.359	0.258
-9.0	192.654	136.413	89.251	48.404	0.257
-11.0	191.023	135.761	88.933	48.449	0.255
-13.0	189.158	135.017	88.545	47.584	0.254
-15.0	187.325	134.021	88.092	47.329	0.251
-17.0	185.586	132.844	87.577	47.033	0.249
-19.5	182.985	131.067	86.859	46.604	0.245
-22.5	180.200	128.549	85.946	46.005	0.240
-25.5	176.966	126.517	84.907	45.316	0.235
-29.0	171.586	123.443	83.498	44.402	0.228
-33.0	165.731	119.084	81.978	43.215	0.218
-37.5	153.666	113.444	79.840	41.954	0.206
-42.5	142.117	106.942	76.923	39.573	0.192
-47.5	131.668	99.399	73.950	37.233	0.176
-55.0	114.124	91.070	68.255	33.814	0.149
-65.0	92.334	76.593	58.923	30.737	0.110
-75.0	70.646	59.606	42.526	27.273	0.067
-85.0	39.009	33.502	28.607	11.316	0.023
-90.0	0.172	0.124	0.071	0.023	0.000

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL4-40L-40-8-N4-U-Y-GM.IES

LUMEN TABULATION

Average Of Right And Left Sides
 Total Luminaire Lumens (one side of beam only) = 17233.36
 Total Field Lumens (one side of beam only) = 14608.8
 * Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>1</u>	<u>3</u>	<u>5</u>	<u>7</u>	<u>9</u>	<u>11</u>	<u>13</u>	<u>15</u>	<u>17</u>
90										
85	0.04	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.09
75	0.22	0.45	0.45	0.45	0.44	0.44	0.43	0.42	0.41	0.50
65	0.36	0.72	0.72	0.72	0.71	0.70	0.69	0.68	0.66	0.81
55	0.53	1.06	1.05	1.04	1.02	1.00	0.99	0.96	0.94	1.14
47.5	0.60	1.18	1.16	1.13	1.10	1.07	1.04	1.00	0.96	1.15
42.5	0.74	1.47	1.43	1.38	1.32	1.24	1.16	1.06	0.96	1.08
37.5	1.14	2.22	2.15	2.07	1.95	1.81	1.68	1.53	1.38	1.54
33	2.84	5.49	5.16	4.72	4.16	3.48	2.79	2.27	1.90	2.02
29	6.70	13.04	12.38	11.43	10.19	8.76	7.20	5.77	4.55	4.14
25.5	11.56	22.58	21.71	20.42	18.66	16.73	14.58	12.21	9.89	9.45
22.5	15.59 *	30.60 *	29.66 *	28.26	26.28	23.98	21.33	18.27	15.18	15.11
19.5	21.06 *	41.50 *	40.32 *	38.58 *	36.24 *	33.37 *	30.06 *	26.36	22.47	22.75
17	22.36 *	44.08 *	42.62 *	40.54 *	37.96 *	34.89 *	31.59 *	28.13 *	24.50 *	25.29
15	22.33 *	43.88 *	42.12 *	39.64 *	36.64 *	33.25 *	29.90 *	26.63 *	23.29 *	24.26 *
13	27.98 *	54.72 *	52.07 *	48.29 *	43.77 *	38.98 *	34.57 *	30.43 *	26.47 *	27.65 *
11	35.85 *	69.74 *	65.74 *	59.83 *	52.97 *	46.18 *	39.93 *	34.38 *	29.64 *	30.94 *
9	48.14 *	92.56 *	85.00 *	74.97 *	64.63 *	54.92 *	46.08 *	38.77 *	32.91 *	34.11 *
7	67.70 *	128.91 *	114.30 *	95.99 *	79.01 *	64.76 *	52.91 *	43.51 *	36.13 *	37.01 *
5	88.11 *	169.88 *	152.44 *	125.29 *	97.13 *	75.78 *	60.01 *	48.03 *	39.11 *	39.58 *
3	96.90 *	191.74 *	181.48 *	154.64 *	117.50 *	86.97 *	66.31 *	51.96 *	41.64 *	41.63 *
1	96.55 *	193.93 *	192.11 *	173.91 *	135.08 *	96.41 *	71.17 *	55.00 *	43.51 *	43.08 *
0	47.92 *	96.35 *	96.94 *	90.63 *	71.74 *	50.57 *	36.76 *	28.16 *	22.17 *	21.90 *
-1	47.85 *	96.19 *	96.88 *	91.10 *	72.50 *	51.04 *	36.99 *	28.32 *	22.31 *	22.03 *
-3	96.01 *	192.89 *	193.05 *	178.56 *	140.75 *	99.78 *	72.86 *	56.09 *	44.29 *	43.75 *
	96.99 *	193.76 *	188.86 *	166.12 *	127.27 *	92.45 *	69.42 *	53.93 *	42.83 *	42.56 *

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL4-40L-40-8-N4-U-Y-GM.IES

LUMENS TABULATION - (Cont.)

-5	93.87 *	183.89 *	169.83 *	141.72 *	108.03 *	81.92 *	63.86 *	50.55 *	40.72 *	40.88 *
-7	78.18 *	151.04 *	134.16 *	110.86 *	88.45 *	70.66 *	56.85 *	46.12 *	37.92 *	38.66 *
-9	56.51 *	109.87 *	99.24 *	85.55 *	72.11 *	60.12 *	49.80 *	41.38 *	34.71 *	35.88 *
-11	40.98 *	80.44 *	75.05 *	67.50 *	58.96 *	50.60 *	43.10 *	36.81 *	31.49 *	32.83 *
-13	31.43 *	61.97 *	58.86 *	54.05 *	48.43 *	42.70 *	37.28 *	32.57 *	28.25 *	29.60 *
-15	24.87 *	49.07 *	47.15 *	44.01 *	40.18 *	36.30 *	32.42 *	28.65 *	24.99 *	26.23 *
-17	24.68 *	48.73 *	47.17 *	44.78 *	41.62 *	38.10 *	34.44 *	30.59 *	26.68 *	27.76
-19.5	22.99 *	45.52 *	44.31 *	42.44 *	39.89 *	36.75 *	33.24 *	29.40 *	25.25	25.61
-22.5	17.03 *	33.88 *	33.11 *	31.69 *	29.68 *	27.21	24.39	21.19	17.82	17.69
-25.5	13.05	26.00	25.41	24.17	22.32	20.07	17.58	14.93	12.31	11.87
-29	8.14	16.23	15.70	14.63	13.20	11.46	9.55	7.70	6.07	5.58
-33	3.63	7.26	6.96	6.36	5.66	4.81	3.88	3.06	2.44	2.44
-37.5	1.24	2.48	2.43	2.32	2.18	2.01	1.85	1.68	1.51	1.70
-42.5	0.78	1.54	1.52	1.47	1.40	1.31	1.22	1.12	1.02	1.15
-47.5	0.63	1.26	1.24	1.21	1.18	1.15	1.11	1.07	1.03	1.23
-55	0.57	1.13	1.11	1.10	1.08	1.06	1.04	1.02	0.99	1.20
-65	0.39	0.77	0.77	0.76	0.75	0.74	0.73	0.72	0.70	0.86
-75	0.24	0.48	0.48	0.48	0.47	0.47	0.46	0.46	0.45	0.55
-85	0.04	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.10
-90										
Total	1275.33	2510.67	2384.46	2124.93	1754.79	1406.18	1143.42	943.07	782.63	795.39

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.10	0.10	0.11	0.12	0.12	0.12	0.11	0.13	0.13	0.08
85	0.58	0.56	0.63	0.68	0.70	0.71	0.62	0.77	0.72	0.40
75	0.93	0.89	0.99	1.06	1.10	1.09	0.95	1.17	1.09	0.59
65	1.31	1.25	1.37	1.46	1.49	1.47	1.26	1.51	1.37	0.74
55	1.31	1.23	1.33	1.39	1.41	1.38	1.17	1.38	1.21	0.63
47.5	1.16	1.04	1.09	1.12	1.11	1.06	0.90	1.04	0.89	0.46

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL4-40L-40-8-N4-U-Y-GM.IES

LUMENS TABULATION - (Cont.)

42.5										
	1.66	1.48	1.46	1.35	1.28	1.19	0.99	1.14	0.96	0.48
37.5										
	2.07	1.85	1.87	1.66	1.39	1.23	0.98	1.10	0.92	0.46
33										
	3.23	2.22	2.15	2.00	1.60	1.25	0.96	1.05	0.87	0.42
29										
	7.38	3.96	2.58	2.14	1.78	1.28	0.91	0.97	0.79	0.38
25.5										
	12.79	7.38	3.98	2.23	1.78	1.30	0.83	0.86	0.69	0.33
22.5										
	20.10	13.00	7.60	3.34	2.02	1.48	0.88	0.89	0.70	0.33
19.5										
	22.74	15.50	10.11	4.42	1.91	1.31	0.79	0.77	0.60	0.28
17										
	22.09	15.39	10.71	4.96	1.75	1.10	0.68	0.63	0.48	0.23
15										
	25.49	17.96	12.90	6.34	2.08	1.16	0.73	0.64	0.49	0.23
13										
	28.79 *	20.49	14.97	7.75	2.57	1.21	0.77	0.65	0.49	0.23
11										
	31.85 *	22.88	16.88	9.10	3.13	1.25	0.78	0.66	0.49	0.23
9										
	34.50 *	24.93	18.55	10.23	3.65	1.29	0.79	0.67	0.50	0.23
7										
	36.68 *	26.61	19.95	11.15	4.06	1.32	0.80	0.68	0.50	0.23
5										
	38.34 *	27.92 *	21.05	11.88	4.39	1.36	0.80	0.69	0.50	0.23
3										
	39.50 *	28.81 *	21.81	12.34	4.57	1.39	0.80	0.70	0.50	0.24
1										
	20.05 *	14.61 *	11.07	6.25	2.30	0.70	0.40	0.35	0.25	0.12
0										
	20.13 *	14.66 *	11.13	6.29	2.31	0.70	0.40	0.35	0.25	0.12
-1										
	40.01 *	29.19 *	22.23	12.62	4.64	1.41	0.81	0.69	0.50	0.24
-3										
	39.16 *	28.61 *	21.74	12.33	4.54	1.40	0.81	0.69	0.50	0.24
-5										
	37.84 *	27.54 *	20.73	11.67	4.29	1.38	0.81	0.68	0.50	0.24
-7										
	36.03 *	26.11	19.43	10.80	3.93	1.34	0.80	0.67	0.50	0.24
-9										
	33.69 *	24.37	17.96	9.77	3.46	1.29	0.78	0.67	0.50	0.23
-11										
	30.88 *	22.21	16.21	8.52	2.90	1.24	0.76	0.66	0.50	0.23
-13										
	27.71 *	19.67	14.13	7.11	2.39	1.18	0.72	0.65	0.49	0.23
-15										
	24.32	17.00	11.87	5.68	1.99	1.13	0.68	0.64	0.49	0.23
-17										
	25.30	17.38	11.58	5.25	2.11	1.36	0.80	0.78	0.60	0.29
-19.5										
	22.75	15.06	9.25	4.09	2.15	1.51	0.91	0.91	0.71	0.34
-22.5										
	15.12	9.16	5.13	2.63	1.84	1.32	0.86	0.88	0.70	0.33

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL4-40L-40-8-N4-U-Y-GM.IES

LUMENS TABULATION - (Cont.)

-25.5	9.43	5.23	3.20	2.32	1.82	1.31	0.94	0.99	0.80	0.38
-29	4.29	2.71	2.38	2.09	1.65	1.31	0.99	1.08	0.88	0.42
-33	2.38	2.02	1.98	1.73	1.46	1.29	1.02	1.14	0.94	0.46
-37.5	1.82	1.59	1.53	1.42	1.35	1.24	1.03	1.18	0.98	0.49
-42.5	1.24	1.11	1.16	1.18	1.16	1.10	0.93	1.08	0.91	0.46
-47.5	1.40	1.31	1.41	1.47	1.48	1.43	1.22	1.43	1.24	0.65
-55	1.39	1.32	1.45	1.53	1.56	1.53	1.32	1.58	1.42	0.77
-65	0.99	0.95	1.06	1.13	1.16	1.15	1.01	1.23	1.14	0.62
-75	0.64	0.61	0.68	0.74	0.76	0.76	0.67	0.83	0.77	0.43
-85	0.12	0.11	0.12	0.13	0.14	0.14	0.12	0.15	0.14	0.08
-90										
Total	729.27	518.00	379.52	213.46	95.28	52.22	36.28	37.42	30.63	15.26

Vert. Angles	Horizontal Angles			Total
	75	85	90	
90	0.03	0.00		1.89
85	0.14	0.01		10.73
75	0.20	0.01		16.87
65	0.25	0.01		23.21
55	0.21	0.01		23.06
47.5	0.15	0.01		21.86
42.5	0.16	0.01		29.64
37.5	0.14	0.01		48.50
33	0.13	0.01		100.04
29	0.12	0.01		180.07
25.5	0.10	0.00		256.54
22.5	0.10	0.00		363.16
19.5	0.09	0.00		390.48
17	0.07	0.00		380.04
15	0.07	0.00		453.04

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL4-40L-40-8-N4-U-Y-GM.IES

LUMENS TABULATION - (Cont.)

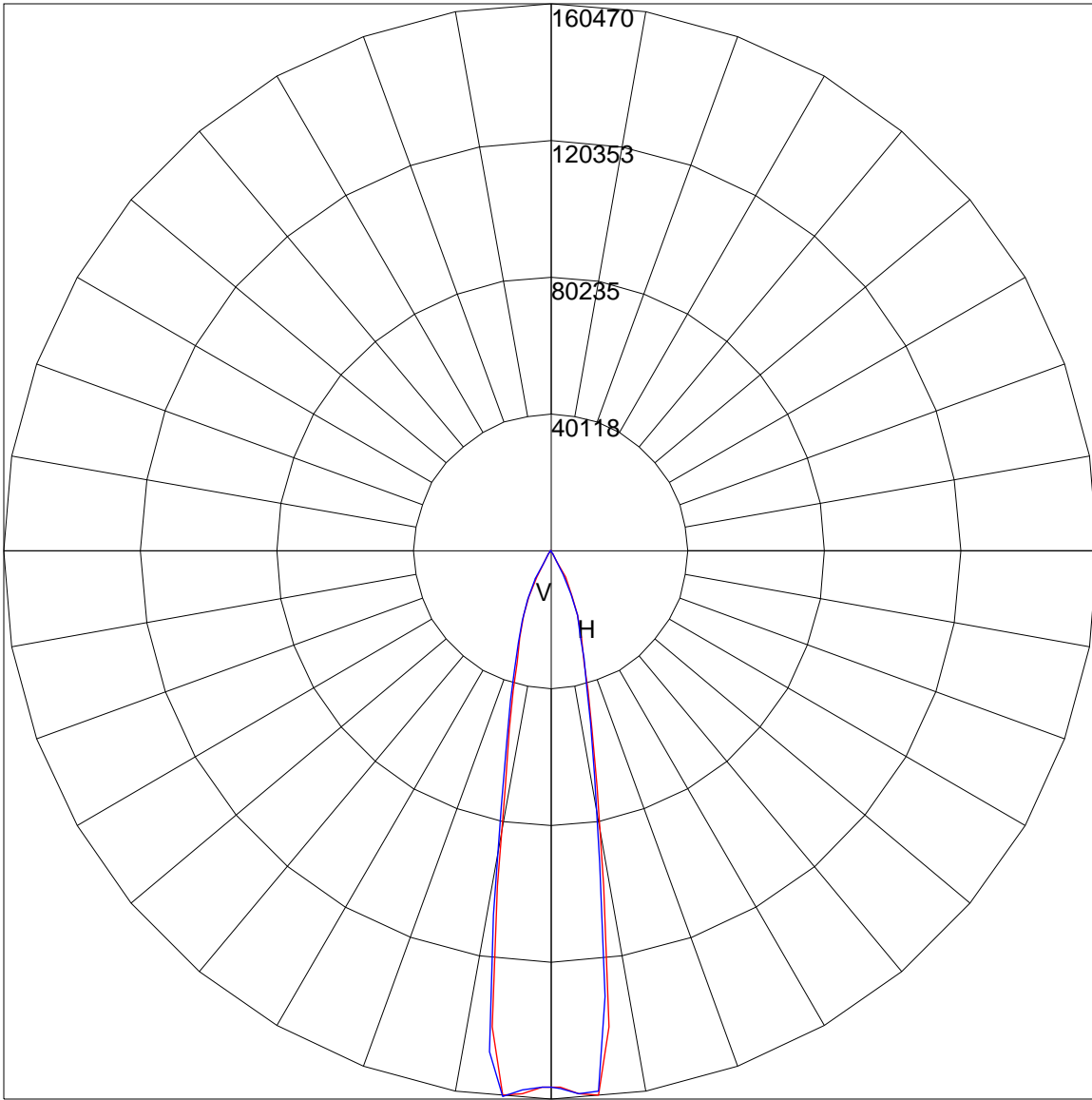
13	0.07	0.00	543.20
11	0.07	0.00	659.42
9	0.07	0.00	815.66
7	0.07	0.00	997.42
5	0.07	0.00	1138.02
3	0.07	0.00	1211.49
1	0.04	0.00	619.29
0	0.04	0.00	621.60
-1	0.07	0.00	1230.43
-3	0.07	0.00	1184.3
-5	0.07	0.00	1081.01
-7	0.07	0.00	912.83
-9	0.07	0.00	737.96
-11	0.07	0.00	601.95
-13	0.07	0.00	499.49
-15	0.07	0.00	417.96
-17	0.09	0.00	430.10
-19.5	0.11	0.00	403.17
-22.5	0.10	0.00	291.77
-25.5	0.12	0.01	214.26
-29	0.13	0.01	126.20
-33	0.15	0.01	61.05
-37.5	0.16	0.01	32.19
-42.5	0.15	0.01	23.03
-47.5	0.21	0.01	24.38
-55	0.25	0.01	24.45
-65	0.21	0.01	17.86
-75	0.14	0.01	11.58

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL4-40L-40-8-N4-U-Y-GM.IES

LUMENS TABULATION - (Cont.)

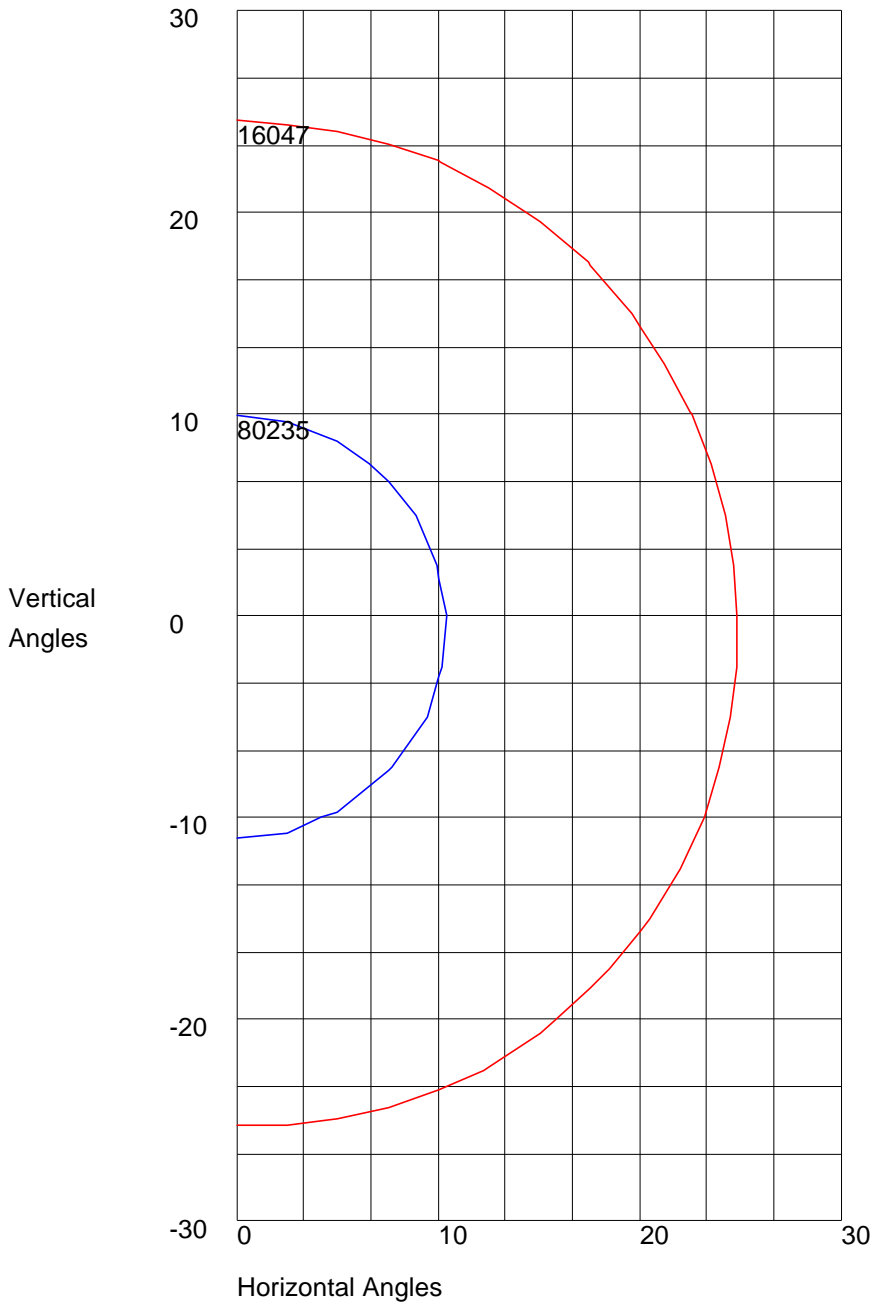
-85	0.03	0.00	2.10
-90			
Total	4.89	0.21	17233.34

AXIAL CANDELA DISPLAY



Maximum Candela = 160470 Located At Horizontal Angle = 0, Vertical Angle = -5
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 160470 Located At Horizontal Angle = 0, Vertical Angle = -5
50% Maximum Candela = 80235
10% Maximum Candela = 16047