



**IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL4-40L-50-8-N3-U-Y-GM.IES**

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 1231980
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 4/5/2016
 [MANUFAC] Eye Lighting International of North America
 [LUMCAT] FL4-40L-50-8-N3-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] 25.5 C, 120.1 V, 3.25544 A, 388.717 W, 0.994212 PF, 59.9996 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	279325.703
Maximum Candela Angle	0H -3V
Horizontal Beam Angle (50%)	14.4
Vertical Beam Angle (50%)	15.3
Horizontal Field Angle (10%)	35.6
Vertical Field Angle (10%)	36.1
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	11429
Beam Efficiency	N.A.
Field Lumens	26156
Field Efficiency	N.A.
Spill Lumens	5840
Luminaire Lumens	31996
Total Efficiency	N.A.
Total Luminaire Watts	388.717
Ballast Factor	1.00



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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	.25	90	.297
85	40.375	85	45.765
75	77.418	75	80.75
65	106.131	65	108.581
55	150.328	55	149.25
47.5	181.982	47.5	177.18
42.5	238.037	42.5	230.932
37.5	319.865	37.5	309.33
33	571.522	33	542.319
29	869.239	29	806.031
25.5	3791.579	25.5	3508.366
22.5	11692.837	22.5	11699.403
19.5	22054.475	19.5	21906.841
17	31773.883	17	31540.649
15	41133.443	15	40773.011
13	53940.958	13	53169.322
11	74206.976	11	72724.363
9	109126.287	9	105755.167
7	155768.769	7	148743.806
5	217981.12	5	205932.307
3	274396.91	3	275189.221
1	277923.356	1	277446.107
0	276876.251	0	276876.251
-1	277923.356	-1	276741.504
-3	274396.91	-3	279325.703
-5	217981.12	-5	222254.799
-7	155768.769	-7	160558.405
-9	109126.287	-9	114674.915
-11	74206.976	-11	77032.15
-13	53940.958	-13	55130.06
-15	41133.443	-15	41791.007
-17	31773.883	-17	32421.16
-19.5	22054.475	-19.5	22786.076
-22.5	11692.837	-22.5	12377.4
-25.5	3791.579	-25.5	3963.173
-29	869.239	-29	841.898
-33	571.522	-33	566.819
-37.5	319.865	-37.5	318.787
-42.5	238.037	-42.5	229.021
-47.5	181.982	-47.5	181.933
-55	150.328	-55	152.582
-65	106.131	-65	108.287
-75	77.418	-75	80.75
-85	40.375	-85	46.255
-90	.25	-90	.294

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CANDELA TABULATION

Maximum Candela = 279325.703
 Beam Edge = 139662.8515 Cd (50% of Max.)
 Field Edge = 27932.5703 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	0.022	0.065	0.109	0.153	0.186	0.208	0.226	0.240	0.252
85.0	0.022	10.833	26.263	30.356	34.315	37.285	39.008	40.712	41.593	42.435
75.0	0.065	26.124	36.808	45.150	53.380	59.988	63.584	67.349	70.415	72.860
65.0	0.106	29.564	44.464	58.971	74.325	83.732	89.027	93.228	96.361	98.640
55.0	0.143	32.786	52.068	73.214	88.944	98.570	105.553	112.631	118.402	125.782
47.5	0.169	34.684	57.882	81.921	97.916	112.503	125.207	140.626	147.653	152.518
42.5	0.184	35.779	61.247	86.690	104.647	124.565	142.097	151.193	159.374	167.513
37.5	0.198	36.907	64.723	90.517	112.554	139.905	151.132	161.948	173.981	186.763
33.0	0.210	37.608	67.613	93.799	119.111	146.962	159.007	174.528	192.724	226.078
29.0	0.219	38.259	70.022	95.927	127.300	152.434	167.165	187.210	226.692	271.207
25.5	0.226	38.760	71.774	97.679	135.669	157.095	174.553	204.711	264.278	299.091
22.5	0.231	39.137	73.064	99.172	139.451	161.285	181.760	227.869	277.318	364.517
19.5	0.236	39.464	74.158	100.794	142.068	165.049	188.472	253.129	303.681	457.156
17.0	0.239	39.698	74.946	102.028	143.971	168.024	195.243	266.745	340.244	535.600
15.0	0.242	39.861	75.499	102.909	145.247	170.170	202.180	272.490	379.799	593.325
13.0	0.244	40.002	75.983	103.716	146.553	172.203	210.104	277.248	422.183	643.118
11.0	0.245	40.450	76.398	104.439	147.508	174.270	215.993	283.500	460.465	688.822
9.0	0.247	40.436	76.743	104.998	148.353	176.237	222.221	292.150	499.452	733.440
7.0	0.248	40.423	77.017	105.438	149.029	177.862	227.562	300.294	522.972	777.217
5.0	0.249	40.409	77.444	105.767	149.554	179.276	232.200	307.753	545.591	818.524
3.0	0.250	40.396	77.434	106.104	150.122	180.619	235.603	314.551	561.721	849.806
1.0	0.250	40.382	77.423	106.122	150.259	181.615	237.572	318.771	570.798	867.754
0.0	0.250	40.375	77.418	106.131	150.328	181.982	238.037	319.865	571.522	869.239
-1.0	0.250	40.375	77.413	106.094	150.259	181.794	237.790	319.481	572.065	868.037
-3.0	0.250	40.396	77.402	106.021	150.122	181.141	236.364	316.536	565.503	852.160
-5.0	0.249	40.409	77.392	105.631	149.533	180.100	233.688	311.071	551.609	829.592
-7.0	0.248	40.423	76.961	105.246	148.972	178.833	229.453	304.582	531.119	790.126
-9.0	0.247	40.436	76.684	104.753	148.367	177.359	224.027	297.817	509.196	746.976
-11.0	0.245	40.450	76.348	104.155	147.606	175.557	217.793	290.456	472.363	705.081
-13.0	0.244	40.013	75.954	103.441	146.744	173.503	211.770	284.248	435.294	660.613
-15.0	0.242	39.879	75.506	102.625	145.629	171.422	204.354	277.984	392.248	611.030
-17.0	0.239	39.724	75.005	101.787	144.487	169.273	197.831	266.766	354.218	554.752
-19.5	0.236	39.501	74.302	100.737	142.954	166.379	190.834	250.521	313.312	475.498
-22.5	0.231	39.194	73.159	99.466	141.215	162.297	184.360	228.749	284.295	384.062
-25.5	0.226	38.843	71.761	97.968	135.652	158.315	177.499	208.243	263.778	310.543
-29.0	0.219	38.379	69.933	96.079	128.020	153.876	170.178	191.336	229.323	277.178
-33.0	0.210	37.781	67.564	93.930	120.254	148.660	161.367	178.547	198.824	228.773
-37.5	0.198	37.146	64.643	90.873	113.279	141.990	153.550	165.452	178.141	192.054
-42.5	0.184	35.961	61.448	86.915	105.638	126.205	144.935	153.653	162.061	171.244
-47.5	0.169	34.793	57.892	82.243	98.671	114.116	127.756	144.105	150.299	155.487
-55.0	0.143	32.786	52.142	73.548	89.189	99.328	106.591	113.968	120.319	128.651
-65.0	0.106	29.564	44.564	59.105	74.662	84.357	89.145	93.262	96.670	99.291
-75.0	0.065	26.392	36.631	45.382	53.868	60.541	64.428	68.220	71.193	73.902
-85.0	0.022	11.004	26.320	30.516	34.490	37.635	39.580	41.543	42.459	43.279
-90.0	0.000	0.022	0.065	0.109	0.154	0.188	0.210	0.229	0.244	0.257

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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	0.262	0.269	0.276	0.281	0.284	0.286	0.286	0.288	0.289	0.291
85.0	43.122	43.479	43.764	44.093	44.347	44.485	44.883	44.864	44.825	44.785
75.0	74.429	75.754	77.195	77.865	78.404	78.894	79.308	79.619	79.782	80.074
65.0	100.593	102.212	103.380	104.265	104.948	105.757	106.717	107.603	107.636	107.505
55.0	133.939	138.765	141.022	142.823	144.159	145.208	146.052	146.823	147.442	147.963
47.5	156.994	160.702	164.349	166.913	168.662	170.240	171.482	172.793	173.919	174.909
42.5	175.473	181.640	187.412	193.040	198.497	204.656	209.363	214.474	218.632	223.226
37.5	203.575	225.462	248.531	262.968	271.904	279.473	286.120	290.212	294.517	299.651
33.0	262.313	281.450	299.748	331.599	364.096	402.126	437.386	470.468	491.894	511.277
29.0	297.031	361.417	446.723	519.310	572.627	620.471	661.661	698.450	733.423	761.206
25.5	394.954	507.040	611.590	695.584	768.394	875.237	1086.574	1397.231	1984.409	2484.120
22.5	509.801	634.270	766.943	998.324	1593.534	2717.676	4284.175	6070.642	7812.761	9364.759
19.5	619.151	775.603	1327.799	3123.348	5592.503	8532.049	11727.557	14841.606	17286.876	19504.016
17.0	710.200	1044.768	3179.468	6935.855	11043.962	15284.407	19217.844	22667.094	25655.528	28290.777
15.0	800.442	1745.345	5666.486	11045.001	16281.118	20691.355	25075.731	29351.957	33181.454	36495.857
13.0	965.465	3045.450	8821.399	15385.333	20737.393	25909.838	31289.911	36702.873	41797.595	46375.102
11.0	1277.360	4718.117	12143.089	19423.085	25193.995	31498.717	37886.933	45093.394	52778.060	60185.223
9.0	1690.830	6535.830	15127.516	22919.576	29606.130	36881.454	44541.290	55394.213	67848.248	81825.810
7.0	2335.818	8306.670	17658.130	26085.964	33622.346	42387.528	53574.998	68473.799	88745.103	113483.821
5.0	2914.605	9900.069	19736.821	28720.085	37159.823	47383.882	62338.761	83710.851	115111.077	150166.261
3.0	3469.233	11010.055	21172.683	30541.556	39614.308	51490.166	69213.347	98320.258	138302.742	183616.945
1.0	3752.115	11604.022	21928.963	31681.993	41084.141	53903.253	74109.044	108480.640	154766.789	216198.152
0.0	3791.579	11692.837	22054.475	31773.883	41133.443	53940.958	74206.976	109126.287	155768.769	217981.120
-1.0	3770.108	11664.188	21994.976	31786.818	41292.598	54238.782	74987.403	110266.983	158000.680	21624.058
-3.0	3520.517	11164.138	21436.485	30882.667	40045.365	52310.910	71214.152	102301.034	143864.264	194554.520
-5.0	3000.390	10186.906	20166.684	29159.115	37678.084	48364.362	64658.346	88632.576	122676.768	161108.205
-7.0	2499.960	8790.900	18291.534	26615.600	34340.007	43463.070	55635.439	73183.536	96717.019	124352.486
-9.0	1814.063	7027.870	15778.511	23558.677	30371.343	38187.787	47305.627	58822.395	73333.500	90881.038
-11.0	1362.996	5148.727	12743.572	20149.413	26132.142	32597.752	39644.061	47401.643	56257.633	65729.964
-13.0	1023.371	3369.647	9555.886	16397.888	21844.995	27139.807	32635.479	38419.116	43997.819	49308.735
-15.0	832.134	1984.105	6468.924	12266.036	17485.328	21805.004	26331.006	30788.403	34926.614	38407.271
-17.0	737.706	1151.307	3761.360	8042.768	12229.161	16485.860	20496.663	24100.657	27273.893	29792.911
-19.5	647.796	820.157	1604.496	3783.011	6507.909	9734.573	13145.863	16296.372	18927.734	20718.421
-22.5	538.628	668.895	818.863	1143.598	1982.248	3380.644	5257.805	7317.608	9204.809	10761.547
-25.5	419.393	539.773	649.947	738.969	828.973	989.864	1341.288	1829.800	2575.148	3181.158
-29.0	310.738	387.465	480.056	557.764	613.524	664.192	710.242	751.287	790.200	825.404
-33.0	263.361	285.829	315.674	356.621	396.153	438.311	477.079	514.488	536.212	556.352
-37.5	209.821	228.172	248.344	265.027	275.662	283.131	290.724	298.974	307.567	315.341
-42.5	179.566	187.420	194.604	200.662	205.538	211.172	215.432	220.133	224.406	228.279
-47.5	160.704	165.255	169.104	171.909	173.925	175.720	177.523	179.355	180.828	181.907
-55.0	137.223	142.044	144.785	146.998	148.489	149.922	150.634	151.249	151.800	152.252
-65.0	101.284	102.728	104.259	105.354	106.020	106.732	107.740	108.762	108.891	108.899
-75.0	75.645	77.138	78.167	78.989	79.578	80.089	80.535	80.853	80.949	81.159
-85.0	43.821	44.379	44.907	45.386	45.761	45.889	46.275	46.255	46.255	46.255
-90.0	0.267	0.275	0.282	0.287	0.290	0.292	0.294	0.295	0.295	0.295

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	0.294	0.296	0.297	0.296	0.294	0.291	0.289	0.288	0.286	0.286
85.0	45.175	45.568	45.765	45.568	45.175	44.785	44.825	44.864	44.883	44.485
75.0	80.324	80.608	80.750	80.608	80.324	80.074	79.782	79.619	79.308	78.894
65.0	107.997	108.386	108.581	108.386	107.997	107.505	107.636	107.603	106.717	105.757

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55.0	148.676	149.059	149.250	149.059	148.676	147.963	147.442	146.823	146.052	145.208
47.5	175.799	176.801	177.180	176.801	175.799	174.909	173.919	172.793	171.482	170.240
42.5	226.408	229.752	230.932	229.752	226.408	223.226	218.632	214.474	209.363	204.656
37.5	303.354	307.764	309.330	307.764	303.354	299.651	294.517	290.212	286.120	279.473
33.0	521.674	537.390	542.319	537.390	521.674	511.277	491.894	470.468	437.386	402.126
29.0	777.648	798.352	806.031	798.352	777.648	761.206	733.423	698.450	661.661	620.471
25.5	2945.108	3330.658	3508.366	3330.658	2945.108	2484.120	1984.409	1397.231	1086.574	875.237
22.5	10464.007	11287.766	11699.403	11287.767	10464.007	9364.759	7812.761	6070.642	4284.175	2717.676
19.5	20947.511	21707.031	21906.841	21707.031	20947.511	19504.016	17286.876	14841.607	11727.557	8532.049
17.0	30235.757	31349.602	31540.649	31349.602	30235.757	28290.777	25655.529	22667.094	19217.844	15284.408
15.0	38997.350	40453.062	40773.011	40453.062	38997.350	36495.857	33181.455	29351.957	25075.731	20691.355
13.0	50280.220	52596.154	53169.322	52596.153	50280.220	46375.102	41797.596	36702.873	31289.911	25909.838
11.0	67263.639	71682.275	72724.363	71682.275	67263.639	61085.224	52778.060	45093.394	37886.933	31498.718
9.0	94730.158	104498.923	105755.167	104498.923	94730.158	81825.810	70848.248	55394.214	45412.904	36881.454
7.0	133885.029	147122.534	148743.806	147122.534	133885.031	113483.828	9745.102	8473.800	53574.998	42387.528
5.0	179555.722	202986.442	205932.307	202986.441	179555.721	150166.261	115111.078	83710.852	62338.761	47383.881
3.0	236895.612	266803.602	275189.222	266803.602	236895.617	2036895.617	1783616.948	138302.749	8320.257	69213.345
1.0	270111.042	278655.722	277446.102	278655.722	270111.042	216198.153	154766.789	108480.640	7109.044	53903.253
0.0	274396.910	277923.352	276876.252	277923.352	274396.910	217981.120	155768.769	109126.287	4206.976	53940.958
-1.0	272706.560	278312.273	276741.502	278312.273	272706.560	21624.057	158000.681	110266.987	4987.405	54238.782
-3.0	250652.943	277263.262	279325.702	277263.262	250652.943	219454.520	13864.265	102301.035	1214.152	52310.910
-5.0	195561.852	25958.872	22254.792	25958.876	195561.858	1108.205	22676.768	8632.576	64658.346	48364.362
-7.0	147047.089	2731.530	60558.405	2731.530	147047.089	24352.489	1717.019	73183.536	5635.439	43463.070
-9.0	106081.038	16684.770	14674.915	16684.770	106081.038	10881.038	73333.500	58822.395	47305.627	38187.787
-11.0	73166.360	78448.535	77032.150	78448.535	73166.360	65729.964	56257.633	47401.643	39644.061	32597.752
-13.0	53465.690	55880.635	55130.060	55880.635	53465.690	49308.735	43997.819	38419.116	32635.479	27139.807
-15.0	40928.703	42295.618	41791.007	42295.618	40928.703	38407.271	34926.614	30788.403	26331.006	21805.004
-17.0	31709.226	32728.923	32421.160	32728.923	31709.226	29792.911	27273.893	24100.657	20496.663	16485.860
-19.5	22239.037	22866.588	22786.076	22866.588	22239.037	20718.421	18927.734	16296.372	13145.863	9734.573
-22.5	11880.447	12389.588	12377.400	12389.588	11880.447	10761.547	9204.809	7317.608	5257.805	3380.644
-25.5	3761.013	3986.754	3963.173	3986.754	3761.013	3181.158	2575.148	1829.800	1341.288	989.864
-29.0	847.184	849.334	841.898	849.334	847.184	825.404	790.200	751.287	710.242	664.192
-33.0	568.947	570.345	566.819	570.345	568.947	556.352	536.212	514.488	477.079	438.311
-37.5	321.005	320.283	318.787	320.283	321.005	315.341	307.567	298.974	290.724	283.131
-42.5	230.482	229.832	229.021	229.832	230.482	228.279	224.406	220.133	215.432	211.172
-47.5	182.399	182.170	181.933	182.170	182.399	181.907	180.828	179.355	177.523	175.720
-55.0	152.654	152.606	152.582	152.606	152.654	152.252	151.800	151.249	150.634	149.922
-65.0	108.871	108.482	108.287	108.482	108.871	108.899	108.891	108.762	107.740	106.732
-75.0	80.993	80.831	80.750	80.831	80.993	81.159	80.949	80.853	80.535	80.089
-85.0	46.255	46.255	46.255	46.255	46.255	46.255	46.255	46.255	46.275	45.889
-90.0	0.295	0.294	0.294	0.294	0.295	0.295	0.295	0.295	0.294	0.292

Vert. 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	0.284	0.281	0.276	0.269	0.262	0.252	0.240	0.226	0.208	0.186
85.0	44.347	44.093	43.764	43.479	43.122	42.435	41.593	40.712	39.008	37.285
75.0	78.404	77.865	77.195	75.754	74.429	72.860	70.415	67.349	63.584	59.988
65.0	104.948	104.265	103.380	102.212	100.593	98.640	96.361	93.228	89.027	83.732
55.0	144.159	142.823	141.022	138.765	133.939	125.782	118.402	112.631	105.553	98.570
47.5	168.662	166.913	164.349	160.702	156.994	152.518	147.653	140.626	125.207	112.503
42.5	198.497	193.040	187.412	181.640	175.473	167.513	159.374	151.193	142.097	124.565
37.5	271.904	262.968	248.531	225.462	203.575	186.763	173.981	161.948	151.132	139.905
33.0	364.096	331.599	299.748	281.450	262.313	226.078	192.724	174.528	159.007	146.962
29.0	572.627	519.310	446.723	361.417	297.031	271.207	226.692	187.210	167.165	152.434
25.5	768.394	695.584	611.590	507.040	394.954	299.091	264.278	204.711	174.553	157.095

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL4-40L-50-8-N3-U-Y-GM.IES

CANDELA TABULATION - (Cont.)

22.5	1593.534	998.324	766.943	634.270	509.801	364.517	277.318	227.869	181.760	161.285
19.5	5592.503	3123.348	1327.799	775.603	619.151	457.156	303.681	253.129	188.472	165.049
17.0	11043.962	6935.855	3179.468	1044.768	710.200	535.600	340.244	266.745	195.243	168.024
15.0	16281.118	11045.001	5666.486	1745.346	800.442	593.325	379.799	272.490	202.180	170.170
13.0	20737.393	15385.333	8821.399	3045.450	965.465	643.118	422.183	277.248	210.104	172.203
11.0	25193.995	19423.085	12143.089	4718.117	1277.360	688.822	460.465	283.500	215.993	174.270
9.0	29606.131	22919.576	15127.516	6535.830	1690.830	733.440	499.452	292.150	222.221	176.237
7.0	33622.345	26085.965	17658.130	8306.670	2335.819	777.217	522.972	300.294	227.562	177.862
5.0	37159.823	28720.085	19736.821	9900.069	2914.605	818.524	545.591	307.753	232.200	179.276
3.0	39614.308	30541.556	21172.683	11010.055	3469.233	849.806	561.721	314.551	235.603	180.619
1.0	41084.141	31681.993	21928.963	11604.022	3752.115	867.754	570.798	318.771	237.572	181.615
0.0	41133.443	31773.883	22054.475	11692.837	3791.579	869.239	571.522	319.865	238.037	181.982
-1.0	41292.598	31786.818	21994.976	11664.187	3770.108	868.037	572.065	319.481	237.790	181.794
-3.0	40045.364	30882.667	21436.485	11164.138	3520.517	852.160	565.503	316.536	236.364	181.141
-5.0	37678.084	29159.115	20166.684	10186.906	3000.390	829.592	551.609	311.071	233.688	180.100
-7.0	34340.008	26615.600	18291.534	8790.900	2499.960	790.126	531.119	304.582	229.453	178.833
-9.0	30371.343	23558.677	15778.511	7027.870	1814.063	746.976	509.196	297.817	224.027	177.359
-11.0	26132.142	20149.413	12743.572	5148.727	1362.996	705.081	472.363	290.456	217.793	175.557
-13.0	21844.995	16397.888	9555.886	3369.647	1023.371	660.613	435.294	284.248	211.770	173.503
-15.0	17485.328	12266.036	6468.924	1984.105	832.134	611.030	392.248	277.984	204.354	171.422
-17.0	12229.161	8042.768	3761.360	1151.307	737.706	554.752	354.218	266.766	197.831	169.273
-19.5	6507.909	3783.011	1604.496	820.157	647.796	475.498	313.312	250.521	190.834	166.379
-22.5	1982.248	1143.598	818.863	668.895	538.628	384.062	284.295	228.749	184.360	162.297
-25.5	828.973	738.969	649.947	539.773	419.393	310.543	263.778	208.243	177.499	158.315
-29.0	613.524	557.764	480.056	387.465	310.738	277.178	229.323	191.336	170.178	153.876
-33.0	396.153	356.621	315.674	285.829	263.361	228.773	198.824	178.547	161.367	148.660
-37.5	275.662	265.027	248.344	228.172	209.821	192.054	178.141	165.452	153.550	141.990
-42.5	205.538	200.662	194.604	187.420	179.566	171.244	162.061	153.653	144.935	126.205
-47.5	173.925	171.909	169.104	165.255	160.704	155.487	150.299	144.105	127.756	114.116
-55.0	148.489	146.998	144.785	142.044	137.223	128.651	120.319	113.968	106.591	99.328
-65.0	106.020	105.354	104.259	102.728	101.284	99.291	96.670	93.262	89.145	84.357
-75.0	79.578	78.989	78.167	77.138	75.645	73.902	71.193	68.220	64.428	60.541
-85.0	45.761	45.386	44.907	44.379	43.821	43.279	42.459	41.543	39.580	37.635
-90.0	0.290	0.287	0.282	0.275	0.267	0.257	0.244	0.229	0.210	0.188

Vert. Angles **Horizontal Angles**

	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>	<u>85.0</u>	<u>90.0</u>
90.0	0.153	0.109	0.065	0.022	0.000
85.0	34.315	30.356	26.263	10.833	0.022
75.0	53.380	45.150	36.808	26.124	0.065
65.0	74.325	58.971	44.464	29.564	0.106
55.0	88.944	73.214	52.068	32.786	0.143
47.5	97.916	81.921	57.882	34.684	0.169
42.5	104.647	86.690	61.247	35.779	0.184
37.5	112.554	90.517	64.723	36.907	0.198
33.0	119.111	93.799	67.613	37.608	0.210
29.0	127.300	95.927	70.022	38.259	0.219
25.5	135.669	97.679	71.774	38.760	0.226
22.5	139.451	99.172	73.064	39.137	0.231
19.5	142.068	100.794	74.158	39.464	0.236
17.0	143.971	102.028	74.946	39.698	0.239
15.0	145.247	102.909	75.499	39.861	0.242
13.0	146.553	103.716	75.983	40.002	0.244
11.0	147.508	104.439	76.398	40.450	0.245
9.0	148.353	104.998	76.743	40.436	0.247

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL4-40L-50-8-N3-U-Y-GM.IES

CANDELA TABULATION - (Cont.)

7.0	149.029	105.438	77.017	40.423	0.248
5.0	149.554	105.767	77.444	40.409	0.249
3.0	150.122	106.104	77.434	40.396	0.250
1.0	150.259	106.122	77.423	40.382	0.250
0.0	150.328	106.131	77.418	40.375	0.250
-1.0	150.259	106.094	77.413	40.375	0.250
-3.0	150.122	106.021	77.402	40.396	0.250
-5.0	149.533	105.631	77.392	40.409	0.249
-7.0	148.972	105.246	76.961	40.423	0.248
-9.0	148.367	104.753	76.684	40.436	0.247
-11.0	147.606	104.155	76.348	40.450	0.245
-13.0	146.744	103.441	75.954	40.013	0.244
-15.0	145.629	102.625	75.506	39.879	0.242
-17.0	144.487	101.787	75.005	39.724	0.239
-19.5	142.954	100.737	74.302	39.501	0.236
-22.5	141.215	99.466	73.159	39.194	0.231
-25.5	135.652	97.968	71.761	38.843	0.226
-29.0	128.020	96.079	69.933	38.379	0.219
-33.0	120.254	93.930	67.564	37.781	0.210
-37.5	113.279	90.873	64.643	37.146	0.198
-42.5	105.638	86.915	61.448	35.961	0.184
-47.5	98.671	82.243	57.892	34.793	0.169
-55.0	89.189	73.548	52.142	32.786	0.143
-65.0	74.662	59.105	44.564	29.564	0.106
-75.0	53.868	45.382	36.631	26.392	0.065
-85.0	34.490	30.516	26.320	11.004	0.022
-90.0	0.154	0.109	0.065	0.022	0.000

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL4-40L-50-8-N3-U-Y-GM.IES

LUMEN TABULATION

Average Of Right And Left Sides
 Total Luminaire Lumens (one side of beam only) = 15997.93
 Total Field Lumens (one side of beam only) = 13078.08
 * 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	0.04	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08
85	0.19	0.38	0.38	0.38	0.38	0.37	0.37	0.36	0.36	0.44
75	0.29	0.57	0.57	0.57	0.57	0.56	0.55	0.54	0.54	0.66
65	0.39	0.78	0.78	0.77	0.77	0.76	0.75	0.74	0.73	0.89
55	0.37	0.74	0.74	0.73	0.73	0.72	0.71	0.70	0.68	0.83
47.5	0.31	0.62	0.61	0.60	0.59	0.58	0.56	0.55	0.53	0.64
42.5	0.41	0.81	0.80	0.78	0.77	0.75	0.73	0.71	0.68	0.81
37.5	0.58	1.14	1.12	1.09	1.05	1.00	0.94	0.88	0.81	0.93
33	0.82	1.60	1.56	1.51	1.44	1.36	1.26	1.16	1.05	1.16
29	2.25	4.18	3.71	3.16	2.54	2.02	1.69	1.47	1.31	1.44
25.5	6.81	12.80	11.51	9.84	7.81	5.78	4.01	2.64	1.78	1.67
22.5	15.22	29.41	27.48	24.52	20.82	16.61	12.18	8.17	4.97	3.37
19.5	20.28	39.67	37.59	34.36	30.33	25.67	20.40	14.95	9.77	6.58
17	21.95 *	42.93 *	40.72 *	37.45 *	33.44	28.89	23.92	18.71	13.27	9.70
15	28.48 *	55.50 *	52.31 *	47.82 *	42.54 *	36.72 *	30.68	24.71	18.58	14.80
13	38.10 *	73.61 *	68.37 *	61.20 *	53.20 *	45.29 *	37.72 *	30.54	23.64	20.17
11	54.02 *	102.95 *	92.65 *	79.83 *	66.70 *	55.13 *	45.19 *	36.41 *	28.44	25.17
9	77.08 *	146.19 *	128.81 *	106.60 *	84.60 *	66.85 *	53.11 *	42.12 *	32.86 *	29.57
7	107.34 *	202.00 *	175.35 *	141.62 *	107.40 *	80.42 *	61.28 *	47.45 *	36.77 *	33.34
5	144.82 *	269.79 *	227.97 *	177.88 *	131.35 *	94.07 *	68.65 *	51.91 *	39.83 *	36.22
3	167.24 *	320.39 *	275.55 *	209.90 *	150.78 *	105.03 *	74.10 *	55.00 *	41.85 *	38.08
1	84.60 *	167.59 *	148.69 *	112.80 *	79.65 *	54.88 *	38.16 *	28.09 *	21.33 *	19.42
0	84.52 *	167.94 *	149.91 *	114.11 *	80.41 *	55.28 *	38.34 *	28.17 *	21.37 *	19.46
-1	169.30 *	328.45 *	285.49 *	217.52 *	155.17 *	107.62 *	75.31 *	55.53 *	42.17 *	38.37
-3	153.03 *	289.02 *	243.66 *	188.49 *	137.99 *	98.03 *	70.48 *	52.73 *	40.34 *	36.75

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL4-40L-50-8-N3-U-Y-GM.IES

LUMENS TABULATION - (Cont.)

-5	117.50 *	222.62 *	190.85 *	152.94 *	114.99 *	84.63 *	63.20 *	48.43 *	37.42 *	34.07
-7	84.47 *	162.12 *	142.32 *	116.72 *	91.11 *	70.48 *	55.00 *	43.26 *	33.64 *	30.46
-9	58.92 *	113.97 *	102.05 *	86.70 *	71.13 *	57.95 *	47.00 *	37.62 *	29.34	26.12
-11	40.59 *	79.44 *	73.43 *	65.22 *	56.13 *	47.43 *	39.33 *	31.84	24.75	21.28
-13	29.71 *	58.62 *	55.34 *	50.48 *	44.68 *	38.45 *	32.15	26.09	19.91	16.16
-15	22.73 *	44.95 *	42.80 *	39.50 *	35.32 *	30.51	25.36	20.10	14.65	11.04
-17	21.09	41.68	39.68	36.62	32.65	27.76	22.29	16.61	11.19	7.77
-19.5	16.09	31.68	29.90	27.09	23.41	18.91	14.09	9.58	5.89	3.99
-22.5	7.47	14.62	13.48	11.69	9.47	7.09	4.90	3.18	2.06	1.82
-25.5	2.57	5.03	4.58	3.91	3.14	2.43	1.93	1.60	1.40	1.54
-29	0.86	1.73	1.70	1.64	1.56	1.47	1.36	1.25	1.13	1.24
-33	0.61	1.22	1.20	1.17	1.12	1.07	1.00	0.93	0.85	0.96
-37.5	0.42	0.84	0.83	0.81	0.79	0.77	0.75	0.72	0.69	0.82
-42.5	0.31	0.63	0.63	0.62	0.61	0.59	0.58	0.57	0.55	0.67
-47.5	0.38	0.76	0.76	0.76	0.75	0.74	0.73	0.72	0.70	0.86
-55	0.40	0.80	0.79	0.79	0.79	0.78	0.77	0.76	0.74	0.91
-65	0.29	0.58	0.58	0.58	0.57	0.57	0.56	0.55	0.54	0.66
-75	0.19	0.39	0.39	0.39	0.38	0.38	0.38	0.37	0.37	0.45
-85	0.04	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08
-90										
Total	1583.08	3040.88	2677.77	2171.3	1679.76	1276.53	972.61	748.51	569.60	501.43

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.09	0.09	0.10	0.11	0.12	0.12	0.10	0.13	0.12	0.07
85	0.51	0.49	0.55	0.59	0.62	0.61	0.54	0.66	0.62	0.36
75	0.76	0.74	0.82	0.88	0.92	0.91	0.80	0.97	0.88	0.48
65	1.04	0.99	1.09	1.15	1.18	1.17	1.01	1.23	1.12	0.59
55	0.97	0.92	1.01	1.07	1.09	1.06	0.89	1.07	0.98	0.52
47.5	0.74	0.70	0.77	0.82	0.84	0.82	0.68	0.79	0.71	0.37

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL4-40L-50-8-N3-U-Y-GM.IES

LUMENS TABULATION - (Cont.)

42.5	0.90	0.82	0.87	0.90	0.90	0.88	0.75	0.86	0.75	0.39
37.5	1.01	0.91	0.94	0.92	0.89	0.85	0.72	0.83	0.71	0.37
33	1.19	1.00	1.00	0.96	0.87	0.80	0.67	0.78	0.66	0.34
29	1.44	1.14	1.05	0.97	0.86	0.75	0.61	0.72	0.61	0.31
25.5	1.61	1.28	1.11	0.94	0.82	0.69	0.54	0.64	0.54	0.27
22.5	2.24	1.59	1.39	1.10	0.89	0.74	0.56	0.65	0.55	0.27
19.5	3.37	1.64	1.38	1.07	0.81	0.66	0.48	0.55	0.46	0.23
17	4.96	1.80	1.25	0.97	0.70	0.55	0.40	0.45	0.38	0.18
15	8.22	2.74	1.42	1.06	0.76	0.56	0.41	0.45	0.38	0.19
13	12.25	4.18	1.69	1.16	0.81	0.58	0.42	0.46	0.38	0.19
11	16.43	5.94	2.08	1.24	0.86	0.59	0.42	0.46	0.38	0.19
9	20.31	7.88	2.62	1.32	0.90	0.61	0.43	0.47	0.39	0.19
7	23.72	9.79	3.24	1.39	0.94	0.62	0.44	0.47	0.39	0.19
5	26.37	11.39	3.82	1.45	0.97	0.64	0.45	0.47	0.39	0.19
3	28.03	12.45	4.24	1.49	0.99	0.65	0.45	0.47	0.39	0.19
1	14.35	6.44	2.20	0.75	0.50	0.32	0.23	0.24	0.20	0.10
0	14.38	6.45	2.20	0.75	0.50	0.33	0.23	0.24	0.20	0.10
-1	28.26	12.57	4.27	1.49	0.99	0.65	0.45	0.47	0.39	0.19
-3	26.85	11.63	3.89	1.46	0.98	0.64	0.45	0.47	0.39	0.19
-5	24.50	10.22	3.37	1.41	0.95	0.63	0.44	0.47	0.39	0.19
-7	21.28	8.40	2.77	1.35	0.92	0.62	0.44	0.47	0.39	0.19
-9	17.36	6.41	2.19	1.27	0.88	0.60	0.43	0.46	0.38	0.19
-11	13.14	4.55	1.78	1.19	0.83	0.59	0.42	0.46	0.38	0.19
-13	9.12	3.01	1.48	1.10	0.78	0.57	0.41	0.46	0.38	0.19
-15	5.70	1.96	1.30	1.00	0.72	0.55	0.40	0.45	0.38	0.18
-17	3.91	1.75	1.43	1.11	0.83	0.66	0.49	0.56	0.47	0.23
-19.5	2.50	1.68	1.45	1.14	0.90	0.75	0.57	0.66	0.55	0.27
-22.5	1.71	1.36	1.17	0.97	0.83	0.70	0.55	0.64	0.54	0.27

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL4-40L-50-8-N3-U-Y-GM.IES

LUMENS TABULATION - (Cont.)

-25.5	1.54	1.21	1.09	0.99	0.87	0.76	0.62	0.72	0.61	0.31
-29	1.25	1.04	1.02	0.98	0.89	0.82	0.68	0.79	0.67	0.34
-33	1.03	0.93	0.95	0.94	0.91	0.86	0.73	0.84	0.72	0.37
-37.5	0.92	0.84	0.89	0.92	0.92	0.90	0.76	0.87	0.75	0.40
-42.5	0.76	0.72	0.79	0.83	0.85	0.83	0.69	0.79	0.71	0.38
-47.5	0.99	0.95	1.03	1.09	1.11	1.08	0.90	1.08	0.98	0.52
-55	1.05	1.01	1.11	1.16	1.19	1.18	1.02	1.24	1.13	0.60
-65	0.77	0.74	0.83	0.89	0.92	0.92	0.80	0.98	0.89	0.48
-75	0.52	0.50	0.56	0.60	0.63	0.62	0.54	0.67	0.62	0.36
-85	0.10	0.09	0.10	0.11	0.12	0.12	0.10	0.13	0.12	0.07
-90										
Total	348.18	152.95	70.34	45.04	36.74	30.54	24.14	27.72	24.01	12.38

Vert. Angles	Horizontal Angles			Total
	75	85	90	
90	0.02	0.00		1.74
85	0.13	0.01		9.31
75	0.18	0.01		13.77
65	0.21	0.01		18.15
55	0.18	0.01		16.70
47.5	0.13	0.01		12.95
42.5	0.13	0.01		15.41
37.5	0.12	0.01		17.82
33	0.11	0.01		21.33
29	0.10	0.00		32.32
25.5	0.09	0.00		73.18
22.5	0.09	0.00		172.83
19.5	0.08	0.00		250.33
17	0.06	0.00		282.67
15	0.06	0.00		368.39

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL4-40L-50-8-N3-U-Y-GM.IES

LUMENS TABULATION - (Cont.)

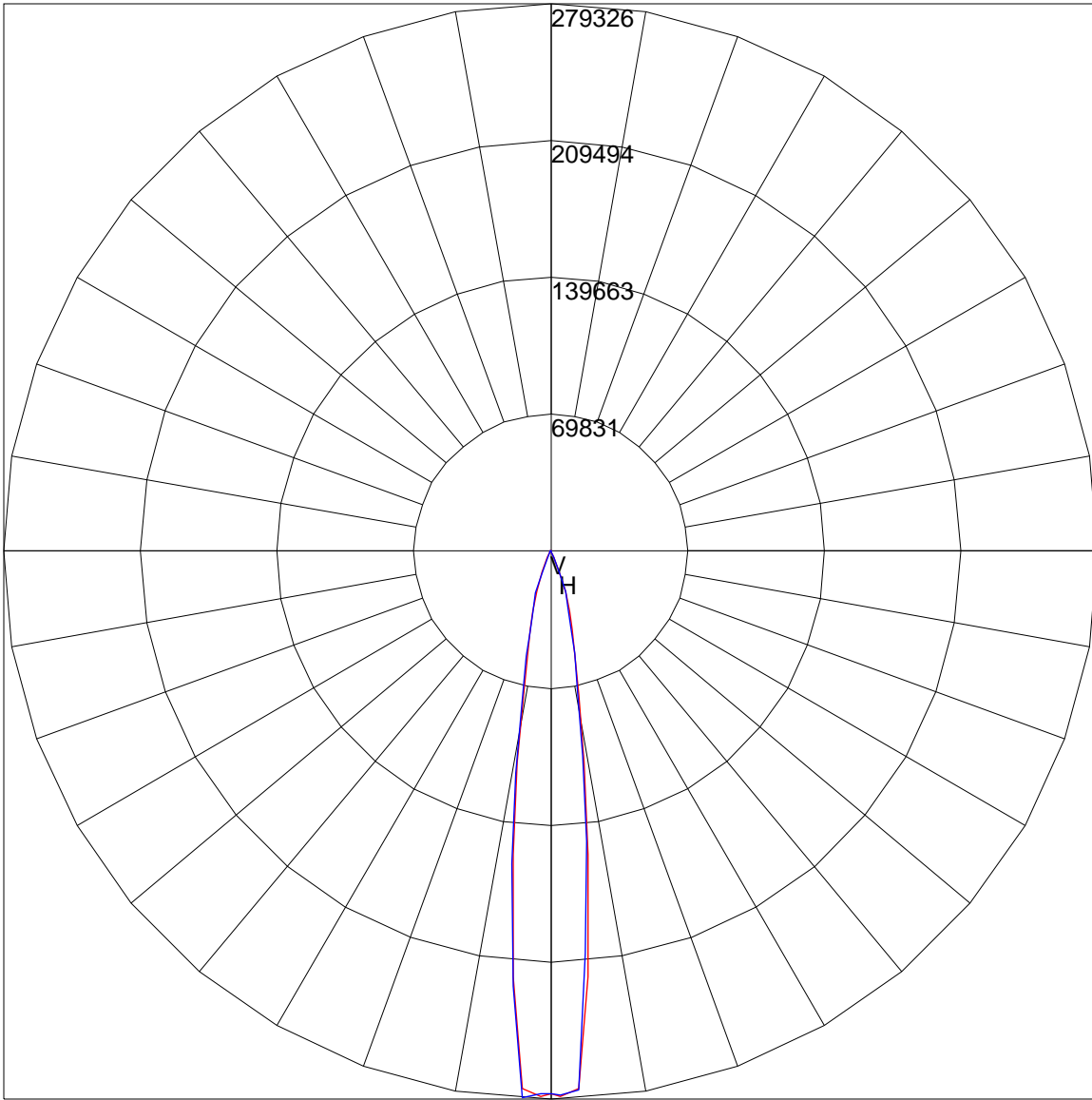
13			
	0.06	0.00	474.01
11			
	0.06	0.00	615.15
9			
	0.06	0.00	802.99
7			
	0.06	0.00	1034.23
5			
	0.06	0.00	1288.68
3			
	0.06	0.00	1487.33
1			
	0.03	0.00	780.56
0			
	0.03	0.00	784.90
-1			
	0.06	0.00	1524.72
-3			
	0.06	0.00	1357.54
-5			
	0.06	0.00	1109.27
-7			
	0.06	0.00	866.44
-9			
	0.06	0.00	661.03
-11			
	0.06	0.00	503.02
-13			
	0.06	0.00	389.14
-15			
	0.06	0.00	299.67
-17			
	0.08	0.00	268.86
-19.5			
	0.09	0.00	191.18
-22.5			
	0.09	0.00	84.62
-25.5			
	0.10	0.00	36.96
-29			
	0.11	0.01	22.54
-33			
	0.12	0.01	18.55
-37.5			
	0.13	0.01	15.75
-42.5			
	0.13	0.01	13.25
-47.5			
	0.18	0.01	17.08
-55			
	0.21	0.01	18.41
-65			
	0.18	0.01	13.89
-75			
	0.13	0.01	9.45

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FL4-40L-50-8-N3-U-Y-GM.IES

LUMENS TABULATION - (Cont.)

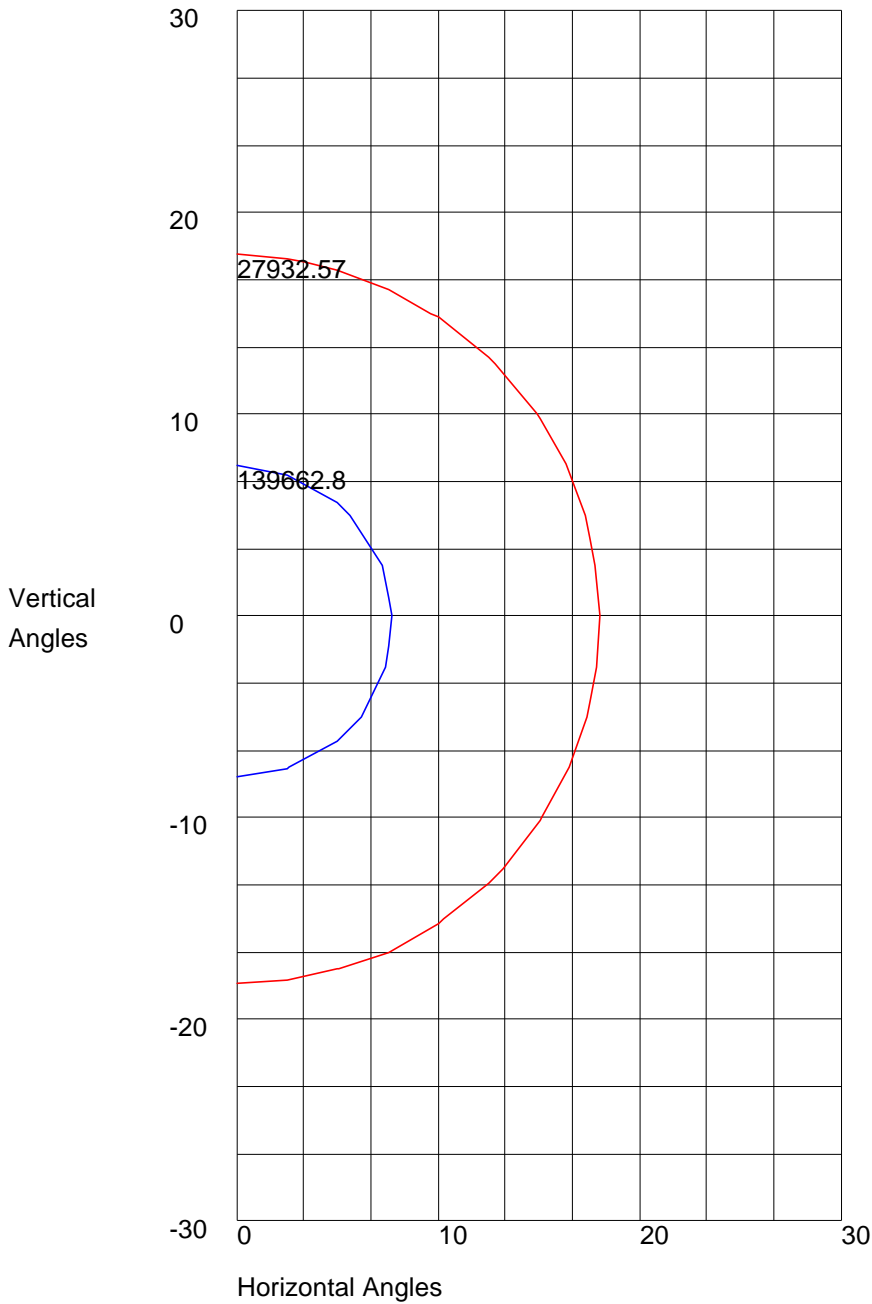
-85	0.02	0.00	1.77
-90			
Total	4.19	0.19	15997.91

AXIAL CANDELA DISPLAY



Maximum Candela = 279325.703 Located At Horizontal Angle = 0, Vertical Angle = -3
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 279325.703 Located At Horizontal Angle = 0, Vertical Angle = -3
50% Maximum Candela = 139662.8515
10% Maximum Candela = 27932.5703