



IES FLOOD REPORT

PHOTOMETRIC FILENAME : TMFL-LED-04L-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 3358
[TESTLAB] TUV SUD America
[TESTDATE] 2/26/2018 1:14:36 PM
[ISSUEDATE] 01/07/2019
[MANUFAC] LSI INDUSTRIES, INC
[LUMCAT] TMFL-LED-04L-50
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[OTHER] SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor

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

CHARACTERISTICS

NEMA Type	5 H x 5 V
Maximum Candela	5089.388
Maximum Candela Angle	0H -5V
Horizontal Beam Angle (50%)	48.5
Vertical Beam Angle (50%)	50.5
Horizontal Field Angle (10%)	91.8
Vertical Field Angle (10%)	91.1
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	2213
Beam Efficiency	N.A.
Field Lumens	3885
Field Efficiency	N.A.
Spill Lumens	470
Luminaire Lumens	4355
Total Efficiency	N.A.
Total Luminaire Watts	41.47
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	0	85	0
75	21.9	75	0
65	90.823	65	9.674
55	232.731	55	139.465
47.5	438.947	47.5	293.761
42.5	682.785	42.5	598.824
37.5	1067.813	37.5	1028.998
33	1517.98	33	1486.847
29	1986.347	29	1979.755
25.5	2443.007	25.5	2434.251
22.5	2884.935	22.5	2882.036
19.5	3366.085	19.5	3375.955
17	3784.034	17	3804.811
15	4107.761	15	4124.221
13	4393.201	13	4393.157
11	4630.192	11	4614.283
9	4812.875	9	4784.316
7	4940.316	7	4905.058
5	5016.502	5	4983.397
3	5042.091	3	5019.105
1	5051.491	1	5043.309
0	5053.493	0	5053.493
-1	5051.491	-1	5065.111
-3	5042.091	-3	5083.907
-5	5016.502	-5	5089.388
-7	4940.316	-7	5047.348
-9	4812.875	-9	4953.772
-11	4630.192	-11	4800.759
-13	4393.201	-13	4584.051
-15	4107.761	-15	4303.033
-17	3784.034	-17	3976.995
-19.5	3366.085	-19.5	3542.54
-22.5	2884.935	-22.5	3028.743
-25.5	2443.007	-25.5	2576.676
-29	1986.347	-29	2092.273
-33	1517.98	-33	1613.635
-37.5	1067.813	-37.5	1146.552
-42.5	682.785	-42.5	746.735
-47.5	438.947	-47.5	489.489
-55	232.731	-55	279.982
-65	90.823	-65	133.927
-75	21.9	-75	39.966
-85	0	-85	.662
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 5089.388

Beam Edge = 2544.694 Cd (50% of Max.)

Field Edge = 508.9388 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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000
65.0	0.000	0.000	0.022	0.208	3.872	5.294	5.774	9.201	11.181	12.048
55.0	0.000	0.000	0.866	7.715	24.104	41.163	58.690	77.354	89.305	98.242
47.5	0.000	0.000	2.395	18.849	54.149	96.118	121.534	151.509	187.690	225.645
42.5	0.000	0.000	4.507	27.453	81.131	132.560	173.993	234.366	308.266	345.922
37.5	0.000	0.000	6.660	36.745	110.041	179.319	240.449	333.318	420.351	498.698
33.0	0.000	0.000	8.661	46.075	132.944	219.237	306.065	416.274	535.943 *	663.687 *
29.0	0.000	0.000	11.072	54.154	151.868	256.970	359.711	502.117	663.935 *	853.509 *
25.5	0.000	0.000	13.023	60.976	170.339	285.703	411.175	586.100 *	797.863 *	1028.557 *
22.5	0.000	0.000	14.571	66.529	184.247	313.698	455.732	661.736 *	918.606 *	1193.671 *
19.5	0.000	0.000	15.996	72.197	196.311	338.269	503.401	743.420 *	1040.018 *	1355.345 *
17.0	0.000	0.000	17.087	76.367	205.014	358.284	538.667 *	808.005 *	1141.149 *	1486.411 *
15.0	0.000	0.000	17.893	79.334	211.145	375.393	568.284 *	854.680 *	1216.177 *	1582.807 *
13.0	0.000	0.000	18.638	81.968	216.524	390.629	596.155 *	905.733 *	1283.527 *	1675.117 *
11.0	0.000	0.000	19.321	84.267	221.141	403.912	620.334 *	950.319 *	1346.853 *	1756.598 *
9.0	0.000	0.000	19.940	86.228	224.991	415.167	640.699 *	988.129 *	1402.202 *	1826.576 *
7.0	0.000	0.000	20.494	87.848	228.067	424.321	657.148 *	1018.883 *	1447.111 *	1886.293 *
5.0	0.000	0.000	21.201	89.126	230.367	431.310	669.592 *	1042.337 *	1481.239 *	1933.836 *
3.0	0.000	0.000	21.480	90.446	232.756	438.681	682.626 *	1058.286 *	1504.332 *	1966.400 *
1.0	0.000	0.000	21.760	90.697	232.739	438.858	682.732 *	1067.549 *	1516.240 *	1983.591 *
0.0	0.000	0.000	21.900	90.823	232.731	438.947	682.785 *	1067.813 *	1517.980 *	1986.347 *
-1.0	0.000	0.000	22.008	91.154	233.415	439.345	682.941 *	1067.206 *	1515.352 *	1982.221 *
-3.0	0.000	0.006	22.225	91.814	234.782	440.139	683.253 *	1057.311 *	1501.725 *	1962.323 *
-5.0	0.000	0.010	22.442	91.395	233.722	433.889	670.683 *	1040.870 *	1477.079 *	1927.147 *
-7.0	0.000	0.014	22.220	91.009	232.732	428.123	658.734 *	1017.157 *	1441.669 *	1877.147 *
-9.0	0.000	0.017	22.149	90.265	230.934	420.380	642.836 *	986.463 *	1395.842 *	1815.221 *
-11.0	0.000	0.021	22.003	89.159	228.323	410.774	623.091 *	949.105 *	1340.021 *	1743.375 *
-13.0	0.000	0.024	21.784	87.691	224.896	399.419	599.615 *	905.430 *	1276.522 *	1660.372 *
-15.0	0.000	0.027	21.491	85.859	220.653	386.430	572.540 *	855.798 *	1208.890 *	1567.123 *
-17.0	0.000	0.030	21.124	83.661	215.595	371.922	544.002 *	810.024 *	1133.892 *	1471.275 *
-19.5	0.000	0.033	20.562	80.403	208.138	355.096	511.028 *	746.312 *	1033.567 *	1342.068 *
-22.5	0.000	0.036	19.735	75.745	198.396	334.398	466.684	665.377 *	913.876 *	1182.425 *
-25.5	0.000	0.039	18.744	71.131	187.566	310.736	425.169	590.519 *	794.887 *	1019.271 *
-29.0	0.000	0.040	17.383	65.966	173.165	282.295	377.752	508.792	665.002 *	843.929 *
-33.0	0.000	0.041	15.564	59.825	155.135	248.853	329.328	426.786	539.689 *	662.837 *
-37.5	0.000	0.040	13.634	52.531	133.275	216.551	277.821	351.068	428.187	510.349 *
-42.5	0.000	0.036	11.200	44.911	108.548	178.951	228.611	281.666	333.230	382.131
-47.5	0.000	0.029	8.452	37.313	83.343	142.137	183.763	226.646	260.257	292.209
-55.0	0.000	0.013	5.312	26.312	56.179	87.989	117.688	148.732	172.485	191.603
-65.0	0.000	0.000	1.815	13.017	29.289	44.436	55.264	65.206	75.205	84.178
-75.0	0.000	0.000	0.173	2.980	8.439	13.348	17.700	21.361	24.271	27.180
-85.0	0.000	0.000	0.000	0.000	0.097	0.269	0.365	0.412	0.435	0.440
-90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65.0	12.041	14.339	16.987	18.684	19.327	19.390	18.929	18.001	16.666	14.984
55.0	111.716	123.066	133.169	137.364	139.752	141.782	143.357	144.379	144.748	144.365
47.5	248.855	261.085	267.584	270.892	282.308	291.119	297.452	301.417	303.143	302.775
42.5	375.887	409.505	466.624	516.238 *	547.011 *	564.469 *	580.048 *	593.032 *	602.670 *	608.189 *
37.5	583.131 *	661.993 *	748.332 *	816.945 *	867.040 *	916.166 *	954.939 *	985.887 *	1008.979 *	1024.250 *
33.0	799.774 *	923.146 *	1047.026 *	1152.643 *	1232.196 *	1304.287 *	1360.621 *	1407.384 *	1444.193 *	1470.464 *
29.0	1027.314 *	1196.096 *	1363.135 *	1498.455 *	1599.169 *	1699.697 *	1787.597 *	1852.763 *	1906.778 *	1947.654 *
25.5	1253.519 *	1455.381 *	1660.562 *	1827.966 *	1959.004 *	2082.876 *	2195.158 *	2290.138 *	2358.456 *	2405.878 *
22.5	1455.624 *	1687.381 *	1923.073 *	2121.622 *	2279.362 *	2430.873 *	2570.009 *	2702.266 *	2785.310 *	2844.578 *
19.5	1654.633 *	1919.513 *	2187.252 *	2422.118 *	2611.889 *	2797.736 *	2969.177 *	3127.375 *	3247.237 *	3320.947 *
17.0	1812.979 *	2107.650 *	2414.361 *	2679.410 *	2896.927 *	3109.970 *	3308.077 *	3489.262 *	3645.160 *	3738.697 *
15.0	1934.729 *	2253.702 *	2591.479 *	2888.025 *	3122.220 *	3354.700 *	3576.895 *	3775.878 *	3937.388 *	4047.925 *
13.0	2047.573 *	2390.521 *	2763.638 *	3086.458 *	3342.299 *	3592.649 *	3828.627 *	4036.318 *	4207.622 *	4325.065 *
11.0	2147.433 *	2512.781 *	2919.701 *	3267.936 *	3548.646 *	3814.092 *	4058.075 *	4265.268 *	4434.605 *	4556.681 *
9.0	2239.979 *	2631.222 *	3060.828 *	3432.085 *	3730.293 *	4004.864 *	4249.902 *	4461.733 *	4611.828 *	4729.293 *
7.0	2317.286 *	2729.582 *	3178.001 *	3570.082 *	3874.094 *	4159.245 *	4405.347 *	4599.354 *	4755.757 *	4843.472 *
5.0	2376.899 *	2804.809 *	3268.110 *	3677.600 *	3986.869 *	4268.625 *	4515.400 *	4707.907 *	4836.586 *	4924.112 *
3.0	2417.882 *	2855.705 *	3331.265 *	3747.747 *	4065.005 *	4348.204 *	4585.746 *	4771.918 *	4903.012 *	4970.513 *
1.0	2439.549 *	2884.681 *	3362.784 *	3781.045 *	4109.117 *	4388.704 *	4624.700 *	4806.654 *	4933.791 *	5010.143 *
0.0	2443.007 *	2884.935 *	3366.085 *	3784.034 *	4107.761 *	4393.201 *	4630.192 *	4812.875 *	4940.316 *	5016.502 *
-1.0	2438.135 *	2881.573 *	3361.242 *	3779.885 *	4110.583 *	4392.286 *	4631.346 *	4816.778 *	4947.300 *	5026.426 *
-3.0	2413.595 *	2846.779 *	3326.656 *	3743.487 *	4068.168 *	4357.942 *	4604.001 *	4800.821 *	4942.333 *	5017.593 *
-5.0	2369.614 *	2791.101 *	3260.062 *	3669.158 *	3988.684 *	4281.745 *	4540.511 *	4748.199 *	4890.802 *	4995.102 *
-7.0	2306.803 *	2712.743 *	3163.777 *	3558.429 *	3870.222 *	4170.305 *	4430.677 *	4641.454 *	4816.719 *	4910.619 *
-9.0	2226.035 *	2613.381 *	3038.308 *	3417.046 *	3717.747 *	4007.511 *	4268.341 *	4499.332 *	4659.001 *	4785.163 *
-11.0	2129.975 *	2496.219 *	2889.428 *	3246.795 *	3530.917 *	3804.867 *	4063.566 *	4281.023 *	4461.300 *	4591.844 *
-13.0	2028.420 *	2370.617 *	2733.966 *	3056.819 *	3316.472 *	3572.456 *	3813.406 *	4027.503 *	4204.638 *	4339.979 *
-15.0	1914.330 *	2230.318 *	2564.399 *	2851.343 *	3088.361 *	3319.554 *	3542.835 *	3742.819 *	3907.629 *	4057.888 *
-17.0	1791.708 *	2081.990 *	2386.695 *	2645.454 *	2853.714 *	3063.120 *	3256.799 *	3436.844 *	3591.546 *	3747.413 *
-19.5	1632.781 *	1893.130 *	2156.198 *	2386.314 *	2567.374 *	2742.657 *	2904.688 *	3057.451 *	3198.808 *	3332.367 *
-22.5	1435.867 *	1660.876 *	1891.084 *	2082.704 *	2233.682 *	2376.562 *	2505.140 *	2627.373 *	2755.831 *	2863.146 *
-25.5	1238.462 *	1432.207 *	1630.313 *	1791.654 *	1916.782 *	2033.951 *	2138.738 *	2246.538 *	2349.832 *	2437.528 *
-29.0	1015.915 *	1180.376 *	1341.068 *	1470.284 *	1566.303 *	1661.666 *	1748.896 *	1837.865 *	1917.689 *	1986.301 *
-33.0	792.618 *	913.200 *	1034.430 *	1136.040 *	1212.165 *	1280.799 *	1354.370 *	1423.083 *	1483.076 *	1533.577 *
-37.5	591.455 *	665.628 *	747.762 *	814.489 *	863.571 *	918.542 *	970.881 *	1017.662 *	1058.392 *	1092.590 *
-42.5	430.900 *	473.226 *	518.017 *	551.441 *	581.971 *	614.675 *	644.589 *	671.431 *	694.917 *	714.768 *
-47.5	319.338 *	345.334 *	368.816 *	387.904 *	405.895 *	422.563 *	437.763 *	451.367 *	463.247 *	473.279 *
-55.0	207.495 *	219.608 *	230.776 *	240.631 *	248.063 *	254.810 *	260.841 *	266.126 *	270.638 *	274.351 *
-65.0	92.092 *	98.556 *	105.549 *	111.345 *	115.499 *	119.233 *	122.554 *	125.473 *	128.000 *	130.146 *
-75.0	29.532 *	31.385 *	33.220 *	34.627 *	35.644 *	36.561 *	37.376 *	38.088 *	38.694 *	39.539 *
-85.0	0.435 *	0.424 *	0.460 *	0.491 *	0.515 *	0.538 *	0.582 *	0.597 *	0.611 *	0.626 *
-90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65.0	13.194	10.847	9.674	10.847	13.194	14.984	16.666	18.001	18.929	19.390

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CANDELA TABULATION - (Cont.)

55.0	144.307	141.080	139.465	141.080	144.307	144.365	144.748	144.379	143.357	141.782
47.5	302.247	296.591	293.761	296.591	302.247	302.775	303.143	301.417	297.452	291.119
42.5	616.044 *	604.570 *	598.824 *	604.570 *	616.044 *	608.189 *	602.670 *	593.032 *	580.048 *	564.469 *
37.5	1031.795	*1032.683	*1028.998	*1032.683	*1031.795	*1024.250	*1008.979	*985.887 *	*954.939 *	*916.166 *
33.0	1485.680	*1489.404	*1486.847	*1489.404	*1485.680	*1470.464	*1444.193	*1407.384	*1360.621	*1304.287 *
29.0	1972.662	*1981.472	*1979.755	*1981.472	*1972.662	*1947.654	*1906.778	*1852.763	*1787.597	*1699.697 *
25.5	2432.439	*2438.584	*2434.251	*2438.584	*2432.439	*2405.878	*2358.456	*2290.138	*2195.158	*2082.876 *
22.5	2878.871	*2890.688	*2882.036	*2890.688	*2878.871	*2844.578	*2785.310	*2702.319	*2570.009	*2430.873 *
19.5	3367.115	*3381.483	*3375.955	*3381.483	*3367.115	*3320.947	*3247.237	*3127.375	*2969.177	*2797.736 *
17.0	3793.011	*3809.901	*3804.811	*3809.901	*3793.011	*3738.697	*3645.160	*3489.262	*3308.077	*3109.970 *
15.0	4108.156	*4134.320	*4124.221	*4134.319	*4108.156	*4047.925	*3937.388	*3775.878	*3576.895	*3354.700 *
13.0	4381.415	*4399.334	*4393.157	*4399.334	*4381.415	*4325.065	*4207.622	*4036.318	*3828.627	*3592.649 *
11.0	4608.598	*4621.222	*4614.283	*4621.222	*4608.598	*4556.681	*4434.605	*4265.268	*4058.075	*3814.092 *
9.0	4786.589	*4792.031	*4784.316	*4792.031	*4786.589	*4729.293	*4611.828	*4461.733	*4249.902	*4004.864 *
7.0	4911.270	*4912.940	*4905.058	*4912.940	*4911.270	*4843.472	*4755.757	*4599.354	*4405.347	*4159.245 *
5.0	4968.150	*4988.949	*4983.397	*4988.949	*4968.150	*4924.112	*4836.586	*4707.907	*4515.400	*4268.625 *
3.0	5005.785	*5019.246	*5019.105	*5019.246	*5005.799	*4970.513	*4903.012	*4771.918	*4585.746	*4348.204 *
1.0	5030.961	*5041.203	*5043.309	*5041.204	*5030.961	*5010.143	*4933.791	*4806.654	*4624.700	*4388.704 *
0.0	5042.091	*5051.491	*5053.493	*5051.491	*5042.091	*5016.502	*4940.316	*4812.875	*4630.192	*4393.201 *
-1.0	5051.037	*5063.515	*5065.111	*5063.516	*5051.037	*5026.426	*4947.300	*4816.778	*4631.346	*4392.286 *
-3.0	5063.870	*5075.187	*5083.907	*5075.187	*5063.905	*5017.593	*4942.333	*4800.821	*4604.001	*4357.942 *
-5.0	5040.412	*5079.338	*5089.388	*5079.338	*5040.412	*4995.102	*4890.802	*4748.199	*4540.511	*4281.745 *
-7.0	4984.673	*5031.428	*5047.348	*5031.428	*4984.673	*4910.619	*4816.719	*4641.454	*4430.677	*4170.305 *
-9.0	4868.147	*4932.173	*4953.772	*4932.173	*4868.147	*4785.163	*4659.001	*4499.332	*4268.341	*4007.511 *
-11.0	4697.092	*4775.251	*4800.759	*4775.251	*4697.092	*4591.844	*4461.300	*4281.023	*4063.566	*3804.867 *
-13.0	4468.868	*4556.350	*4584.051	*4556.350	*4468.868	*4339.979	*4204.638	*4027.503	*3813.406	*3572.456 *
-15.0	4186.568	*4280.090	*4303.033	*4280.090	*4186.568	*4057.888	*3907.629	*3742.819	*3542.835	*3319.554 *
-17.0	3867.616	*3949.797	*3976.995	*3949.797	*3867.616	*3747.413	*3591.546	*3436.844	*3256.799	*3063.120 *
-19.5	3440.759	*3517.183	*3542.540	*3517.183	*3440.759	*3332.367	*3198.808	*3057.451	*2904.688	*2742.657 *
-22.5	2947.679	*3011.189	*3028.743	*3011.189	*2947.679	*2863.146	*2755.831	*2627.484	*2505.140	*2376.562 *
-25.5	2507.773	*2558.829	*2576.676	*2558.829	*2507.773	*2437.528	*2349.832	*2246.538	*2138.738	*2033.951 *
-29.0	2040.283	*2078.904	*2092.273	*2078.904	*2040.283	*1986.301	*1917.689	*1837.865	*1748.896	*1661.666 *
-33.0	1573.853	*1603.226	*1613.635	*1603.226	*1573.853	*1533.577	*1483.076	*1423.083	*1354.370	*1280.799 *
-37.5	1119.793	*1140.563	*1146.552	*1140.563	*1119.793	*1092.590	*1058.392	*1017.662	*970.881 *	*918.542 *
-42.5	735.682 *	743.047 *	746.735 *	743.047 *	735.682 *	714.768 *	694.917 *	671.431 *	644.589 *	614.675 *
-47.5	483.813	487.596	489.489	487.596	483.813	473.279	463.247	451.367	437.763	422.563
-55.0	278.216	279.393	279.982	279.393	278.216	274.351	270.638	266.126	260.841	254.810
-65.0	132.308	133.387	133.927	133.387	132.308	130.146	128.000	125.473	122.554	119.233
-75.0	39.710	39.881	39.966	39.881	39.710	39.539	38.694	38.088	37.376	36.561
-85.0	0.640	0.655	0.662	0.655	0.640	0.626	0.611	0.597	0.582	0.538
-90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.008
65.0	19.327	18.684	16.987	14.339	12.041	12.048	11.181	9.201	5.774	5.294
55.0	139.752	137.364	133.169	123.066	111.716	98.242	89.305	77.354	58.690	41.163
47.5	282.308	270.997	267.584	261.085	248.855	225.645	187.690	151.509	121.534	96.118
42.5	547.011 *	516.238 *	466.624	409.505	375.887	345.922	308.266	234.366	173.993	132.560
37.5	867.040 *	816.945 *	748.332 *	661.993 *	583.131 *	498.698	420.351	333.318	240.449	179.319
33.0	1232.196	*1152.643	*1047.026	*923.146 *	799.774 *	663.687 *	535.943 *	416.274	306.065	219.237
29.0	1599.169	*1498.455	*1363.135	*1196.096	*1027.314	*853.509 *	663.935 *	502.117	359.711	256.970
25.5	1959.004	*1827.966	*1660.562	*1455.381	*1253.519	*1028.557	*797.863 *	586.100 *	411.175	285.703

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

22.5	2279.362	*2121.622	*1923.073	*1687.381	*1455.624	*1193.671	*918.606	* 661.736	* 455.732	313.698
19.5	2611.889	*2422.118	*2187.252	*1919.513	*1654.633	*1355.345	*1040.018	*743.420	* 503.401	338.269
17.0	2896.927	*2679.410	*2414.361	*2107.650	*1812.979	*1486.411	*1141.149	*808.005	* 538.667	* 358.284
15.0	3122.220	*2888.025	*2591.479	*2253.702	*1934.729	*1582.807	*1216.177	*854.680	* 568.284	* 375.393
13.0	3342.299	*3086.458	*2763.638	*2390.521	*2047.573	*1675.117	*1283.527	*905.733	* 596.155	* 390.629
11.0	3548.646	*3267.936	*2919.701	*2512.781	*2147.433	*1756.598	*1346.853	*950.319	* 620.334	* 403.912
9.0	3730.293	*3432.085	*3060.828	*2631.222	*2239.979	*1826.576	*1402.202	*988.129	* 640.699	* 415.167
7.0	3874.094	*3570.082	*3178.001	*2729.582	*2317.286	*1886.293	*1447.111	*1018.883	*657.148	* 424.321
5.0	3986.869	*3677.600	*3268.110	*2804.809	*2376.899	*1933.836	*1481.239	*1042.337	*669.592	* 431.310
3.0	4065.005	*3747.747	*3331.265	*2855.705	*2417.882	*1966.400	*1504.332	*1058.286	*682.626	* 438.681
1.0	4109.117	*3781.045	*3362.784	*2884.681	*2439.549	*1983.591	*1516.240	*1067.549	*682.732	* 438.858
0.0	4107.761	*3784.034	*3366.085	*2884.935	*2443.007	*1986.347	*1517.980	*1067.813	*682.785	* 438.947
-1.0	4110.583	*3779.885	*3361.242	*2881.573	*2438.135	*1982.221	*1515.352	*1067.206	*682.941	* 439.345
-3.0	4068.168	*3743.487	*3326.656	*2846.779	*2413.595	*1962.323	*1501.725	*1057.311	*683.253	* 440.139
-5.0	3988.684	*3669.158	*3260.062	*2791.101	*2369.614	*1927.147	*1477.079	*1040.870	*670.683	* 433.889
-7.0	3870.222	*3558.429	*3163.777	*2712.743	*2306.803	*1877.147	*1441.669	*1017.157	*658.734	* 428.123
-9.0	3717.747	*3417.046	*3038.308	*2613.381	*2226.035	*1815.221	*1395.842	*986.463	* 642.836	* 420.380
-11.0	3530.917	*3246.795	*2889.428	*2496.219	*2129.975	*1743.375	*1340.021	*949.105	* 623.091	* 410.774
-13.0	3316.472	*3056.819	*2733.966	*2370.617	*2028.420	*1660.372	*1276.522	*905.430	* 599.615	* 399.419
-15.0	3088.361	*2851.343	*2564.399	*2230.318	*1914.330	*1567.123	*1208.890	*855.798	* 572.540	* 386.430
-17.0	2853.714	*2645.454	*2386.695	*2081.990	*1791.708	*1471.275	*1133.892	*810.024	* 544.002	* 371.922
-19.5	2567.374	*2386.314	*2156.198	*1893.130	*1632.781	*1342.068	*1033.567	*746.312	* 511.028	* 355.096
-22.5	2233.682	*2082.704	*1891.084	*1660.876	*1435.867	*1182.425	*913.876	* 665.377	* 466.684	334.398
-25.5	1916.782	*1791.654	*1630.313	*1432.207	*1238.462	*1019.271	*794.887	* 590.519	* 425.169	310.736
-29.0	1566.303	*1470.284	*1341.068	*1180.376	*1015.915	*843.929	* 665.002	* 508.792	* 377.752	282.295
-33.0	1212.165	*1136.040	*1034.430	*913.200	* 792.618	* 662.837	* 539.689	* 426.786	* 329.328	248.853
-37.5	863.571	* 814.489	* 747.762	* 665.628	* 591.455	* 510.349	* 428.187	* 351.068	* 277.821	216.551
-42.5	581.971	* 551.441	* 518.017	* 473.226	* 430.900	* 382.131	* 333.230	* 281.666	* 228.611	178.951
-47.5	405.895	* 387.908	* 368.816	* 345.334	* 319.338	* 292.209	* 260.257	* 226.646	* 183.763	142.137
-55.0	248.063	* 240.631	* 230.776	* 219.608	* 207.495	* 191.603	* 172.485	* 148.732	* 117.688	87.989
-65.0	115.499	* 111.345	* 105.549	* 98.556	* 92.092	* 84.178	* 75.205	* 65.206	* 55.264	44.436
-75.0	35.644	* 34.627	* 33.220	* 31.385	* 29.532	* 27.180	* 24.271	* 21.361	* 17.700	13.348
-85.0	0.515	* 0.491	* 0.460	* 0.423	* 0.435	* 0.440	* 0.435	* 0.412	* 0.365	0.269
-90.0	0.000	* 0.000	* 0.000	* 0.000	* 0.000	* 0.000	* 0.000	* 0.000	* 0.000	0.000

Vert. Angles	Horizontal Angles				
	55.0	65.0	75.0	85.0	90.0
90.0	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000
65.0	3.872	0.208	0.022	0.000	0.000
55.0	24.104	7.715	0.866	0.000	0.000
47.5	54.149	18.849	2.395	0.000	0.000
42.5	81.131	27.453	4.507	0.000	0.000
37.5	110.041	36.745	6.659	0.000	0.000
33.0	132.944	46.075	8.661	0.000	0.000
29.0	151.868	54.154	11.072	0.000	0.000
25.5	170.339	60.976	13.023	0.000	0.000
22.5	184.247	66.529	14.571	0.000	0.000
19.5	196.311	72.197	15.996	0.000	0.000
17.0	205.014	76.367	17.087	0.000	0.000
15.0	211.145	79.334	17.893	0.000	0.000
13.0	216.524	81.968	18.638	0.000	0.000
11.0	221.141	84.267	19.321	0.000	0.000
9.0	224.991	86.228	19.940	0.000	0.000

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

7.0	228.067	87.848	20.494	0.000	0.000
5.0	230.367	89.126	21.201	0.000	0.000
3.0	232.756	90.446	21.480	0.000	0.000
1.0	232.739	90.697	21.760	0.000	0.000
0.0	232.731	90.823	21.900	0.000	0.000
-1.0	233.415	91.154	22.008	0.002	0.000
-3.0	234.782	91.814	22.225	0.006	0.000
-5.0	233.722	91.395	22.442	0.010	0.000
-7.0	232.732	91.009	22.220	0.014	0.000
-9.0	230.934	90.265	22.149	0.017	0.000
-11.0	228.323	89.159	22.003	0.021	0.000
-13.0	224.896	87.691	21.784	0.024	0.000
-15.0	220.653	85.859	21.491	0.027	0.000
-17.0	215.595	83.661	21.124	0.030	0.000
-19.5	208.138	80.403	20.562	0.033	0.000
-22.5	198.396	75.745	19.735	0.036	0.000
-25.5	187.566	71.131	18.744	0.039	0.000
-29.0	173.165	65.966	17.383	0.040	0.000
-33.0	155.135	59.825	15.564	0.041	0.000
-37.5	133.275	52.531	13.634	0.040	0.000
-42.5	108.548	44.911	11.200	0.036	0.000
-47.5	83.343	37.313	8.452	0.029	0.000
-55.0	56.179	26.312	5.312	0.013	0.000
-65.0	29.289	13.017	1.815	0.000	0.000
-75.0	8.439	2.980	0.173	0.000	0.000
-85.0	0.097	0.000	0.000	0.000	0.000
-90.0	0.000	0.000	0.000	0.000	0.000

IES FLOOD REPORT
PHOTOMETRIC FILENAME : TMFL-LED-04L-50.IES

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 2177.49

Total Field Lumens (one side of beam only) = 1942.37

* 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	0.02	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.06	0.06
55	0.23	0.47	0.48	0.49	0.49	0.49	0.48	0.47	0.46	0.55
47.5	0.50	1.01	1.02	1.02	1.01	1.00	0.98	0.95	0.91	1.10
42.5	0.68	1.38	1.39	1.38	1.36	1.33	1.29	1.24	1.18	1.38
37.5	1.24 *	2.50 *	2.49 *	2.46 *	2.41 *	2.34 *	2.25 *	2.14 *	2.01 *	2.30 *
33	1.73 *	3.45 *	3.43 *	3.37 *	3.29 *	3.18 *	3.04 *	2.87 *	2.68 *	3.06 *
29	2.11 *	4.22 *	4.18 *	4.10 *	3.99 *	3.84 *	3.67 *	3.45 *	3.21 *	3.66 *
25.5	2.35 *	4.70 *	4.66 *	4.57 *	4.44 *	4.27 *	4.05 *	3.80 *	3.53 *	4.02 *
22.5	2.43 *	4.86 *	4.81 *	4.72 *	4.59 *	4.39 *	4.15 *	3.88 *	3.60 *	4.09 *
19.5	2.86 *	5.72 *	5.66 *	5.54 *	5.37 *	5.12 *	4.81 *	4.49 *	4.14 *	4.69 *
17	2.74 *	5.46 *	5.40 *	5.28 *	5.09 *	4.83 *	4.54 *	4.22 *	3.88 *	4.39 *
15	2.42 *	4.82 *	4.77 *	4.66 *	4.48 *	4.24 *	3.98 *	3.69 *	3.39 *	3.82 *
13	2.60 *	5.18 *	5.12 *	5.00 *	4.81 *	4.56 *	4.28 *	3.96 *	3.64 *	4.10 *
11	2.75 *	5.48 *	5.43 *	5.31 *	5.11 *	4.86 *	4.56 *	4.23 *	3.88 *	4.35 *
9	2.87 *	5.73 *	5.68 *	5.55 *	5.36 *	5.11 *	4.80 *	4.46 *	4.09 *	4.59 *
7	2.95 *	5.91 *	5.86 *	5.74 *	5.56 *	5.31 *	5.01 *	4.66 *	4.28 *	4.79 *
5	3.01 *	6.02 *	5.97 *	5.86 *	5.70 *	5.47 *	5.17 *	4.81 *	4.42 *	4.95 *
3	3.05 *	6.08 *	6.04 *	5.95 *	5.80 *	5.57 *	5.28 *	4.93 *	4.53 *	5.07 *
1	3.06 *	6.12 *	6.08 *	6.00 *	5.86 *	5.64 *	5.35 *	5.00 *	4.60 *	5.14 *
0	1.54 *	3.07 *	3.05 *	3.01 *	2.94 *	2.83 *	2.69 *	2.51 *	2.31 *	2.58 *
-1	1.54 *	3.08 *	3.06 *	3.02 *	2.94 *	2.83 *	2.69 *	2.51 *	2.31 *	2.58 *
	3.09 *	6.17 *	6.13 *	6.04 *	5.88 *	5.66 *	5.36 *	5.00 *	4.60 *	5.14 *

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-3	3.10 *	6.17 *	6.11 *	6.01 *	5.85 *	5.61 *	5.30 *	4.93 *	4.53 *	5.06 *
-5	3.08 *	6.13 *	6.06 *	5.94 *	5.76 *	5.51 *	5.19 *	4.82 *	4.42 *	4.94 *
-7	3.04 *	6.03 *	5.94 *	5.81 *	5.62 *	5.35 *	5.03 *	4.66 *	4.26 *	4.76 *
-9	2.96 *	5.87 *	5.76 *	5.60 *	5.40 *	5.13 *	4.81 *	4.45 *	4.07 *	4.55 *
-11	2.85 *	5.63 *	5.50 *	5.33 *	5.12 *	4.86 *	4.54 *	4.20 *	3.85 *	4.31 *
-13	2.70 *	5.32 *	5.18 *	5.00 *	4.79 *	4.54 *	4.25 *	3.93 *	3.61 *	4.05 *
-15	2.51 *	4.96 *	4.82 *	4.64 *	4.43 *	4.19 *	3.93 *	3.64 *	3.35 *	3.78 *
-17	2.85 *	5.62 *	5.46 *	5.25 *	5.01 *	4.75 *	4.46 *	4.15 *	3.83 *	4.33 *
-19.5	2.99 *	5.90 *	5.74 *	5.52 *	5.27 *	4.99 *	4.71 *	4.40 *	4.07 *	4.62 *
-22.5	2.55 *	5.03 *	4.90 *	4.73 *	4.52 *	4.28 *	4.05 *	3.80 *	3.52 *	4.01 *
-25.5	2.48 *	4.89 *	4.77 *	4.61 *	4.41 *	4.18 *	3.95 *	3.71 *	3.46 *	3.94 *
-29	2.25 *	4.44 *	4.34 *	4.19 *	4.02 *	3.82 *	3.60 *	3.38 *	3.15 *	3.60 *
-33	1.89 *	3.72 *	3.64 *	3.52 *	3.38 *	3.22 *	3.03 *	2.84 *	2.65 *	3.04 *
-37.5	1.44 *	2.85 *	2.78 *	2.70 *	2.60 *	2.48 *	2.35 *	2.20 *	2.06 *	2.38 *
-42.5	0.94 *	1.86 *	1.83 *	1.78 *	1.72 *	1.65 *	1.58 *	1.50	1.41	1.65
-47.5	0.88	1.75	1.72	1.68	1.64	1.59	1.54	1.48	1.41	1.67
-55	0.63	1.25	1.24	1.22	1.19	1.16	1.13	1.09	1.05	1.24
-65	0.26	0.53	0.52	0.51	0.50	0.49	0.47	0.45	0.43	0.51
-75	0.06	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.10	0.12
-85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	85.24	169.55	167.16	163.28	157.85	150.84	142.48	133.08	122.96	139.00

Vert. Angles	Horizontal Angles									
	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	0.07	0.06	0.06	0.06	0.06	0.04	0.03	0.03	0.02	0.00
65	0.61	0.55	0.55	0.55	0.52	0.44	0.30	0.27	0.14	0.02
55	1.26	1.17	1.22	1.18	1.06	0.89	0.64	0.58	0.30	0.06

IES FLOOD REPORT
PHOTOMETRIC FILENAME : TMFL-LED-04L-50.IES

LUMENS TABULATION - (Cont.)

47.5	1.50	1.35	1.42	1.39	1.23	0.99	0.71	0.65	0.35	0.07
42.5	2.44 *	2.12	2.14	2.05	1.81	1.43	0.98	0.90	0.49	0.10
37.5	3.24 *	2.79 *	2.71 *	2.49 *	2.15	1.70	1.14	1.03	0.56	0.11
33	3.86 *	3.29 *	3.17 *	2.84 *	2.37 *	1.85	1.23	1.09	0.59	0.12
29	4.24 *	3.60 *	3.45 *	3.06 *	2.50 *	1.90	1.24	1.08	0.58	0.13
25.5	4.30 *	3.66 *	3.51 *	3.08 *	2.49 *	1.85 *	1.18	1.02	0.55	0.12
22.5	4.94 *	4.21 *	4.02 *	3.53 *	2.82 *	2.07 *	1.30	1.11	0.59	0.13
19.5	4.60 *	3.91 *	3.74 *	3.28 *	2.61 *	1.89 *	1.17	0.98	0.52	0.12
17	4.00 *	3.38 *	3.23 *	2.83 *	2.25 *	1.62 *	0.99	0.82	0.43	0.10
15	4.27 *	3.60 *	3.43 *	3.01 *	2.38 *	1.71 *	1.04	0.85	0.45	0.10
13	4.52 *	3.80 *	3.61 *	3.17 *	2.51 *	1.79 *	1.08	0.88	0.46	0.11
11	4.74 *	3.98 *	3.78 *	3.31 *	2.62 *	1.87 *	1.12 *	0.90	0.47	0.11
9	4.95 *	4.14 *	3.92 *	3.43 *	2.72 *	1.93 *	1.15 *	0.92	0.48	0.11
7	5.11 *	4.27 *	4.03 *	3.52 *	2.79 *	1.98 *	1.17 *	0.94	0.48	0.11
5	5.23 *	4.36 *	4.12 *	3.60 *	2.85 *	2.01 *	1.20 *	0.95	0.49	0.12
3	5.30 *	4.42 *	4.17 *	3.64 *	2.88 *	2.04 *	1.21 *	0.96	0.49	0.12
1	2.67 *	2.22 *	2.10 *	1.83 *	1.45 *	1.02 *	0.60 *	0.48	0.25	0.06
0	2.66 *	2.22 *	2.10 *	1.83 *	1.45 *	1.02 *	0.60 *	0.48	0.25	0.06
-1	5.30 *	4.42 *	4.17 *	3.63 *	2.88 *	2.04 *	1.21 *	0.96	0.50	0.12
-3	5.21 *	4.35 *	4.11 *	3.59 *	2.84 *	2.01 *	1.20 *	0.96	0.50	0.12
-5	5.09 *	4.25 *	4.02 *	3.51 *	2.78 *	1.98 *	1.18 *	0.95	0.49	0.12
-7	4.92 *	4.11 *	3.90 *	3.41 *	2.71 *	1.93 *	1.16 *	0.94	0.49	0.12
-9	4.71 *	3.95 *	3.75 *	3.29 *	2.61 *	1.87 *	1.13 *	0.92	0.49	0.12
-11	4.47 *	3.77 *	3.58 *	3.14 *	2.50 *	1.79 *	1.09	0.90	0.48	0.11
-13	4.22 *	3.57 *	3.40 *	2.98 *	2.38 *	1.71 *	1.05	0.88	0.47	0.11
-15	3.95 *	3.35 *	3.20 *	2.81 *	2.24 *	1.62 *	1.01	0.85	0.46	0.11
-17	4.54 *	3.86 *	3.69 *	3.25 *	2.60 *	1.90 *	1.20	1.03	0.56	0.13
-19.5	4.86 *	4.15 *	3.98 *	3.50 *	2.82 *	2.09 *	1.35	1.17	0.64	0.15

IES FLOOD REPORT
PHOTOMETRIC FILENAME : TMFL-LED-04L-50.IES

LUMENS TABULATION - (Cont.)

-22.5	4.23 *	3.61 *	3.47 *	3.06 *	2.49 *	1.88 *	1.24	1.11	0.61	0.14
-25.5	4.17 *	3.55 *	3.41 *	3.04 *	2.51 *	1.94	1.32	1.19	0.66	0.16
-29	3.81 *	3.26 *	3.14 *	2.83 *	2.40 *	1.92	1.33	1.23	0.69	0.17
-33	3.23 *	2.78 *	2.73 *	2.52 *	2.20	1.82	1.30	1.21	0.69	0.17
-37.5	2.56 *	2.26 *	2.27	2.16	1.95	1.66	1.21	1.14	0.65	0.16
-42.5	1.82	1.64	1.69	1.65	1.54	1.34	0.99	0.92	0.52	0.13
-47.5	1.86	1.71	1.80	1.79	1.70	1.48	1.07	0.99	0.58	0.15
-55	1.40	1.29	1.36	1.37	1.29	1.13	0.82	0.78	0.47	0.12
-65	0.57	0.52	0.55	0.55	0.52	0.47	0.35	0.34	0.20	0.05
-75	0.14	0.13	0.14	0.14	0.13	0.12	0.09	0.08	0.04	0.01
-85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	145.57	123.62	118.82	105.88	86.61	64.72	41.39	35.48	19.11	4.44

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90	0.00	0.00	0.00	
85	0.00	0.00	0.00	
75	0.00	0.00	0.90	
65	0.00	0.00	8.56	
55	0.00	0.00	17.83	
47.5	0.00	0.00	22.28	
42.5	0.01	0.00	36.59	
37.5	0.01	0.00	48.04	
33	0.01	0.00	56.85	
29	0.01	0.00	62.16	
25.5	0.01	0.00	63.30	
22.5	0.01	0.00	73.13	
19.5	0.01	0.00	68.66	
17	0.01	0.00	59.93	

IES FLOOD REPORT
PHOTOMETRIC FILENAME : TMFL-LED-04L-50.IES

LUMENS TABULATION - (Cont.)

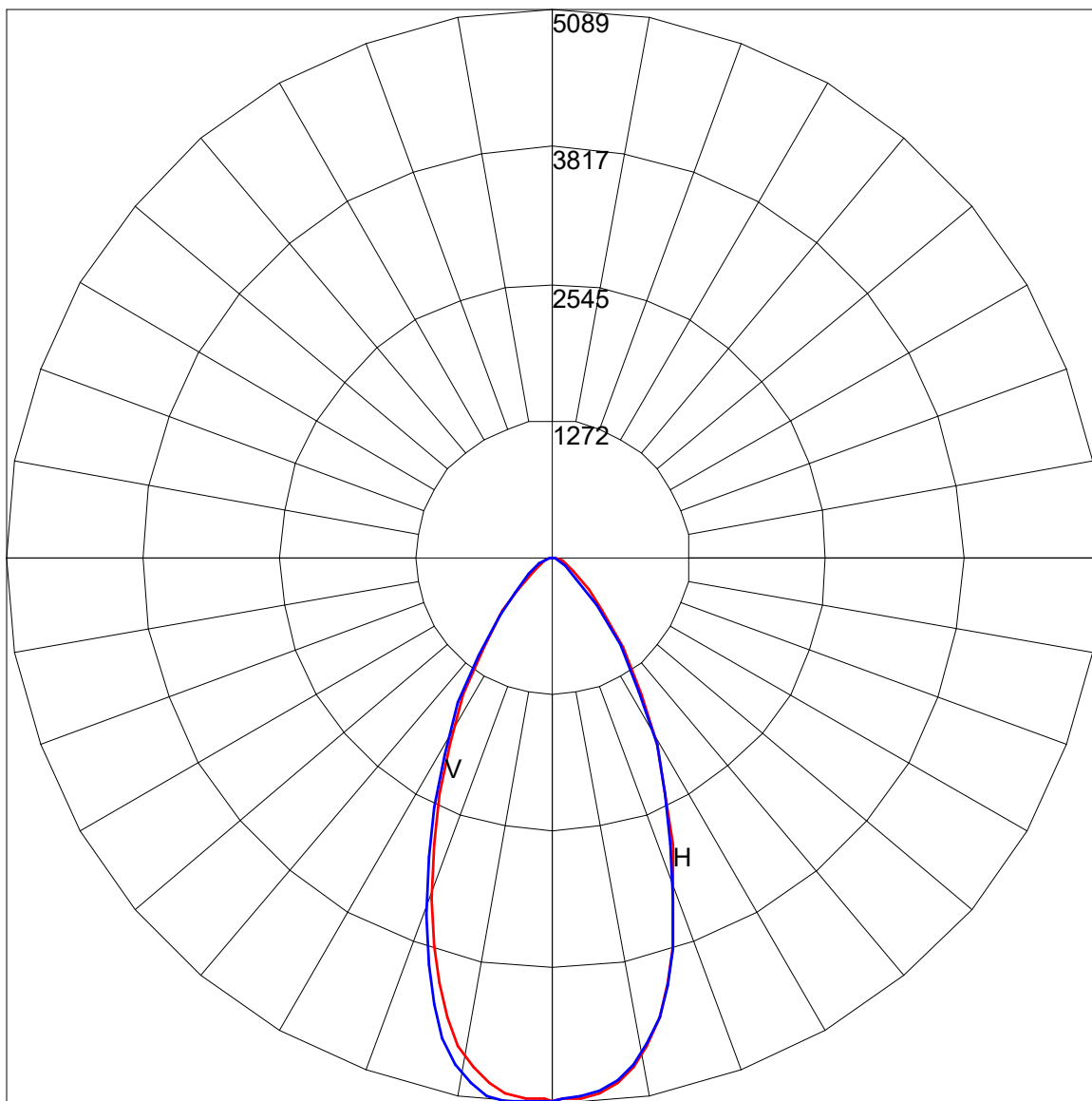
15			
	0.01	0.00	64.11
13			
	0.01	0.00	67.88
11			
	0.01	0.00	71.14
9			
	0.01	0.00	73.81
7			
	0.01	0.00	75.82
5			
	0.01	0.00	77.23
3			
	0.01	0.00	78.09
1			
	0.01	0.00	39.22
0			
	0.01	0.00	39.24
-1			
	0.01	0.00	78.28
-3			
	0.01	0.00	77.56
-5			
	0.01	0.00	76.22
-7			
	0.01	0.00	74.19
-9			
	0.01	0.00	71.45
-11			
	0.01	0.00	68.07
-13			
	0.01	0.00	64.15
-15			
	0.01	0.00	59.86
-17			
	0.01	0.00	68.49
-19.5			
	0.02	0.00	72.93
-22.5			
	0.02	0.00	63.25
-25.5			
	0.02	0.00	62.38
-29			
	0.02	0.00	57.59
-33			
	0.02	0.00	49.58
-37.5			
	0.02	0.00	39.85
-42.5			
	0.01	0.00	28.17
-47.5			
	0.01	0.00	28.49
-55			
	0.01	0.00	21.24
-65			
	0.00	0.00	8.81

IES FLOOD REPORT
PHOTOMETRIC FILENAME : TMFL-LED-04L-50.IES

LUMENS TABULATION - (Cont.)

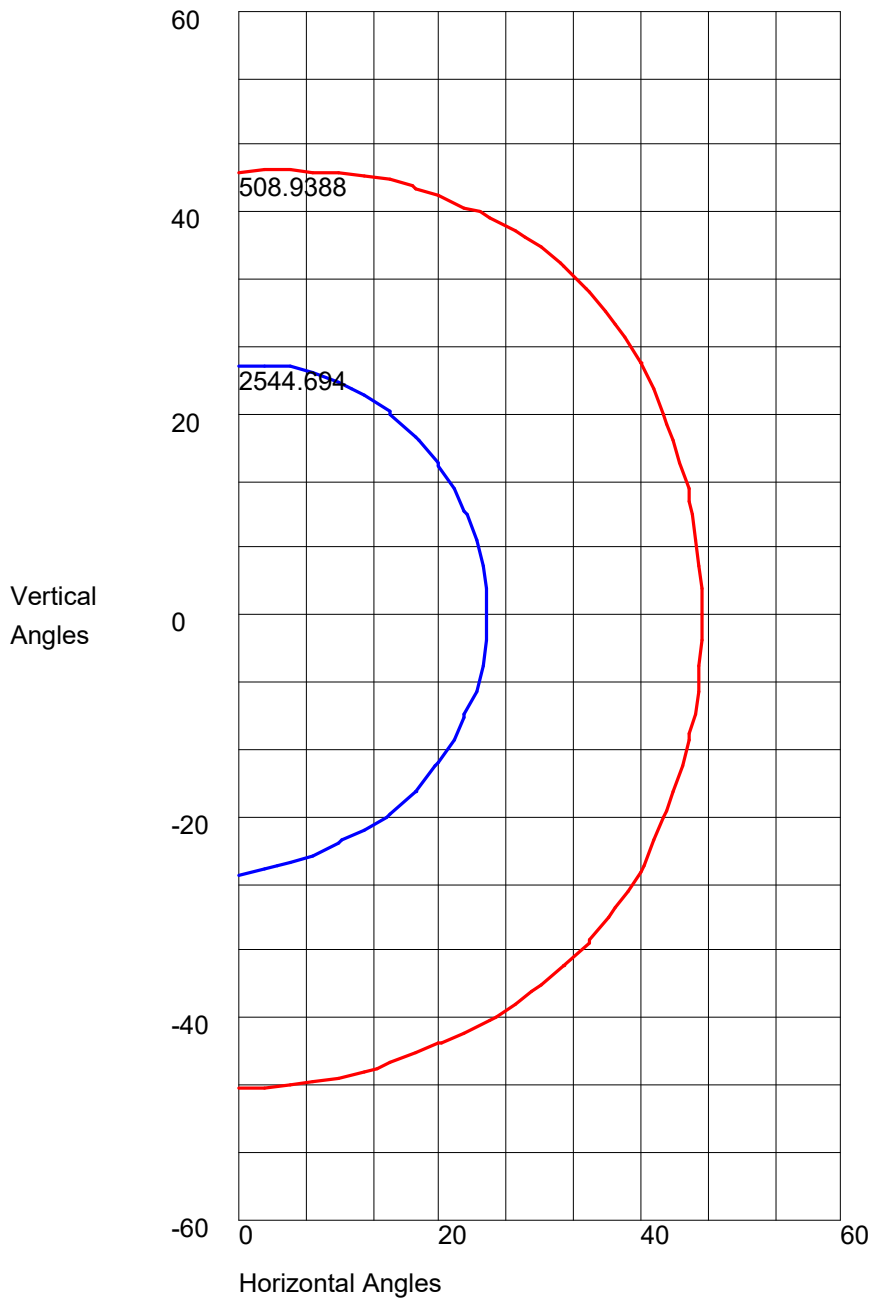
-75	0.00	0.00	2.11
-85	0.00	0.00	0.02
-90			
Total	0.42	0.00	2177.49

AXIAL CANDELA DISPLAY



Maximum Candela = 5089.388 Located At Horizontal Angle = 0, Vertical Angle = -5
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 5089.388 Located At Horizontal Angle = 0, Vertical Angle = -5
50% Maximum Candela = 2544.694
10% Maximum Candela = 508.9388