



IES FLOOD REPORT

PHOTOMETRIC FILENAME : TMFL-LED-04L-30.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-30
[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	4699.159
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	2043
Beam Efficiency	N.A.
Field Lumens	3587
Field Efficiency	N.A.
Spill Lumens	434
Luminaire Lumens	4021
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	20.22	75	0
65	83.859	65	8.932
55	214.886	55	128.771
47.5	405.291	47.5	271.236
42.5	630.432	42.5	552.909
37.5	985.939	37.5	950.099
33	1401.589	33	1372.844
29	1834.044	29	1827.956
25.5	2255.689	25.5	2247.605
22.5	2663.733	22.5	2661.056
19.5	3107.991	19.5	3117.104
17	3493.893	17	3513.077
15	3792.799	15	3807.996
13	4056.352	13	4056.312
11	4275.172	11	4260.483
9	4443.848	9	4417.478
7	4561.518	7	4528.962
5	4631.861	5	4601.295
3	4655.488	3	4634.265
1	4664.168	1	4656.613
0	4666.016	0	4666.016
-1	4664.168	-1	4676.743
-3	4655.488	-3	4694.098
-5	4631.861	-5	4699.159
-7	4561.518	-7	4660.342
-9	4443.848	-9	4573.941
-11	4275.172	-11	4432.66
-13	4056.352	-13	4232.569
-15	3792.799	-15	3973.098
-17	3493.893	-17	3672.06
-19.5	3107.991	-19.5	3270.915
-22.5	2663.733	-22.5	2796.514
-25.5	2255.689	-25.5	2379.109
-29	1834.044	-29	1931.848
-33	1401.589	-33	1489.91
-37.5	985.939	-37.5	1058.64
-42.5	630.432	-42.5	689.479
-47.5	405.291	-47.5	451.957
-55	214.886	-55	258.515
-65	83.859	-65	123.658
-75	20.22	-75	36.902
-85	0	-85	.612
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 4699.159

Beam Edge = 2349.5795 Cd (50% of Max.)

Field Edge = 469.9159 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	0.007	0.000	0.000	0.000	0.000
65.0	0.000	0.000	0.020	0.192	3.575	4.888	5.331	8.495	10.324	11.124
55.0	0.000	0.000	0.799	7.123	22.256	38.006	54.190	71.423	82.457	90.709
47.5	0.000	0.000	2.211	17.403	49.997	88.748	112.215	139.892	173.299	208.344
42.5	0.000	0.000	4.161	25.348	74.910	122.396	160.653	216.396	284.630	319.399
37.5	0.000	0.000	6.149	33.927	101.603	165.570	222.013	307.761	388.121	460.461
33.0	0.000	0.000	7.997	42.542	122.750	202.428	282.597	384.357	494.849 *	612.799 *
29.0	0.000	0.000	10.223	50.002	140.223	237.267	332.130	463.617	613.028 *	788.066 *
25.5	0.000	0.000	12.025	56.300	157.278	263.796	379.648	541.160 *	736.687 *	949.692 *
22.5	0.000	0.000	13.453	61.428	170.120	289.645	420.789	610.997 *	848.172 *	1102.147 *
19.5	0.000	0.000	14.769	66.661	181.259	312.331	464.802	686.419 *	960.274 *	1251.424 *
17.0	0.000	0.000	15.776	70.511	189.295	330.812	497.364 *	746.051 *	1053.652 *	1372.441 *
15.0	0.000	0.000	16.520	73.251	194.956	346.610	524.710 *	789.147 *	1122.927 *	1461.446 *
13.0	0.000	0.000	17.208	75.683	199.922	360.678	550.445 *	836.286 *	1185.112 *	1546.678 *
11.0	0.000	0.000	17.839	77.806	204.185	372.942	572.770 *	877.453 *	1243.583 *	1621.911 *
9.0	0.000	0.000	18.411	79.616	207.739	383.334	591.574 *	912.364 *	1294.688 *	1686.523 *
7.0	0.000	0.000	18.922	81.112	210.580	391.786	606.761 *	940.760 *	1336.154 *	1741.662 *
5.0	0.000	0.000	19.574	82.292	212.704	398.240	618.250 *	962.416 *	1367.665 *	1785.559 *
3.0	0.000	0.000	19.832	83.511	214.909	405.045	630.285 *	977.143 *	1388.987 *	1815.626 *
1.0	0.000	0.000	20.091	83.743	214.894	405.209	630.383 *	985.695 *	1399.982 *	1831.498 *
0.0	0.000	0.000	20.220	83.859	214.886	405.291	630.432 *	985.939 *	1401.589 *	1834.044 *
-1.0	0.000	0.000	20.320	84.164	215.518	405.658	630.576 *	985.378 *	1399.162 *	1830.233 *
-3.0	0.000	0.005	20.520	84.774	216.780	406.392	630.865 *	976.242 *	1386.580 *	1811.862 *
-5.0	0.000	0.009	20.720	84.387	215.801	400.620	619.258 *	961.061 *	1363.823 *	1779.382 *
-7.0	0.000	0.013	20.516	84.031	214.887	395.297	608.225 *	939.167 *	1331.129 *	1733.216 *
-9.0	0.000	0.016	20.450	83.343	213.227	388.148	593.546 *	910.826 *	1288.815 *	1676.039 *
-11.0	0.000	0.020	20.316	82.323	210.816	379.278	575.315 *	876.333 *	1237.274 *	1609.702 *
-13.0	0.000	0.022	20.113	80.967	207.652	368.793	553.640 *	836.006 *	1178.645 *	1533.063 *
-15.0	0.000	0.025	19.843	79.275	203.734	356.800	528.641 *	790.180 *	1116.199 *	1446.963 *
-17.0	0.000	0.027	19.504	77.246	199.065	343.405	502.291 *	747.915 *	1046.951 *	1358.464 *
-19.5	0.000	0.030	18.985	74.237	192.179	327.869	471.844 *	689.089 *	954.319 *	1239.164 *
-22.5	0.000	0.033	18.221	69.937	183.184	308.758	430.901	614.360 *	843.805 *	1091.763 *
-25.5	0.000	0.036	17.306	65.677	173.185	286.911	392.569	545.241 *	733.939 *	941.118 *
-29.0	0.000	0.037	16.050	60.908	159.888	260.650	348.787	469.780	614.013 *	779.221 *
-33.0	0.000	0.038	14.371	55.238	143.240	229.773	304.077	394.062	498.308 *	612.014 *
-37.5	0.000	0.037	12.589	48.504	123.056	199.947	256.519	324.150	395.356	471.218 *
-42.5	0.000	0.033	10.342	41.467	100.225	165.230	211.082	260.070	307.680	352.832
-47.5	0.000	0.026	7.804	34.452	76.952	131.238	169.673	209.269	240.302	269.804
-55.0	0.000	0.012	4.905	24.294	51.872	81.242	108.665	137.327	159.259	176.912
-65.0	0.000	0.000	1.676	12.020	27.043	41.029	51.027	60.207	69.438	77.723
-75.0	0.000	0.000	0.159	2.751	7.792	12.324	16.342	19.723	22.410	25.096
-85.0	0.000	0.000	0.000	0.000	0.090	0.248	0.337	0.381	0.402	0.407
-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	11.118	13.239	15.684	17.251	17.844	17.903	17.477	16.621	15.388	13.835
55.0	103.150	113.630	122.958	126.831	129.036	130.910	132.364	133.308	133.649	133.296
47.5	229.774	241.067	247.067	250.121	260.662	268.798	274.645	278.306	279.899	279.559
42.5	347.067	378.107	430.846	476.656 *	505.069 *	521.189 *	535.573 *	547.561 *	556.460 *	561.556 *
37.5	538.420 *	611.235 *	690.954 *	754.306 *	800.560 *	845.920 *	881.719 *	910.294 *	931.616 *	945.716 *
33.0	738.452 *	852.364 *	966.746 *	1064.264 *	1137.718 *	1204.281 *	1256.295 *	1299.473 *	1333.459 *	1357.717 *
29.0	948.545 *	1104.385 *	1258.617 *	1383.561 *	1476.553 *	1569.373 *	1650.533 *	1710.703 *	1760.575 *	1798.317 *
25.5	1157.406 *	1343.790 *	1533.239 *	1687.807 *	1808.797 *	1923.171 *	2026.844 *	2114.542 *	2177.622 *	2221.408 *
22.5	1344.015 *	1558.001 *	1775.621 *	1958.947 *	2104.591 *	2244.486 *	2372.953 *	2495.070 *	2571.746 *	2626.470 *
19.5	1527.764 *	1772.334 *	2019.544 *	2236.402 *	2411.622 *	2583.219 *	2741.515 *	2887.584 *	2998.256 *	3066.314 *
17.0	1673.969 *	1946.046 *	2229.240 *	2473.966 *	2674.804 *	2871.513 *	3054.431 *	3221.723 *	3365.667 *	3452.032 *
15.0	1786.384 *	2080.899 *	2392.777 *	2666.585 *	2882.824 *	3097.478 *	3302.636 *	3486.362 *	3635.489 *	3737.550 *
13.0	1890.576 *	2207.227 *	2551.736 *	2849.804 *	3086.028 *	3317.183 *	3535.067 *	3726.833 *	3885.003 *	3993.441 *
11.0	1982.779 *	2320.113 *	2695.833 *	3017.367 *	3276.554 *	3521.647 *	3746.922 *	3938.228 *	4094.582 *	4207.298 *
9.0	2068.229 *	2429.473 *	2826.140 *	3168.930 *	3444.272 *	3697.791 *	3924.041 *	4119.629 *	4258.216 *	4366.675 *
7.0	2139.608 *	2520.291 *	2934.328 *	3296.346 *	3577.047 *	3840.335 *	4067.567 *	4246.698 *	4391.109 *	4472.099 *
5.0	2194.650 *	2589.751 *	3017.528 *	3395.620 *	3681.176 *	3941.328 *	4169.182 *	4346.927 *	4465.740 *	4546.556 *
3.0	2232.490 *	2636.744 *	3075.840 *	3460.388 *	3753.321 *	4014.806 *	4234.134 *	4406.031 *	4527.073 *	4589.399 *
1.0	2252.497 *	2663.499 *	3104.943 *	3491.134 *	3794.051 *	4052.200 *	4270.101 *	4438.104 *	4555.492 *	4625.990 *
0.0	2255.689 *	2663.733 *	3107.991 *	3493.893 *	3792.799 *	4056.352 *	4275.172 *	4443.848 *	4561.518 *	4631.861 *
-1.0	2251.190 *	2660.628 *	3103.519 *	3490.063 *	3795.404 *	4055.507 *	4276.238 *	4447.452 *	4567.966 *	4641.025 *
-3.0	2228.532 *	2628.502 *	3071.585 *	3456.456 *	3756.242 *	4023.796 *	4250.989 *	4432.718 *	4563.379 *	4632.869 *
-5.0	2187.923 *	2577.094 *	3010.097 *	3387.825 *	3682.851 *	3953.442 *	4192.367 *	4384.130 *	4515.799 *	4612.102 *
-7.0	2129.928 *	2504.744 *	2921.194 *	3285.586 *	3573.473 *	3850.546 *	4090.954 *	4285.570 *	4447.396 *	4534.096 *
-9.0	2055.353 *	2413.000 *	2805.346 *	3155.044 *	3432.688 *	3700.235 *	3941.066 *	4154.346 *	4301.772 *	4418.260 *
-11.0	1966.659 *	2304.821 *	2667.881 *	2997.847 *	3260.184 *	3513.128 *	3751.992 *	3952.776 *	4119.230 *	4239.764 *
-13.0	1872.891 *	2188.850 *	2524.339 *	2822.437 *	3062.182 *	3298.537 *	3521.012 *	3718.694 *	3882.247 *	4007.211 *
-15.0	1767.549 *	2059.308 *	2367.774 *	2632.717 *	2851.561 *	3065.027 *	3271.188 *	3455.838 *	3608.011 *	3746.749 *
-17.0	1654.329 *	1922.354 *	2203.695 *	2442.614 *	2634.905 *	2828.255 *	3007.084 *	3173.324 *	3316.164 *	3460.080 *
-19.5	1507.587 *	1747.975 *	1990.871 *	2203.343 *	2370.521 *	2532.364 *	2681.971 *	2823.021 *	2953.539 *	3076.858 *
-22.5	1325.772 *	1533.528 *	1746.085 *	1923.013 *	2062.415 *	2194.339 *	2313.058 *	2425.919 *	2544.527 *	2643.614 *
-25.5	1143.502 *	1322.392 *	1505.308 *	1654.279 *	1769.812 *	1877.998 *	1974.750 *	2074.285 *	2169.658 *	2250.630 *
-29.0	938.019 *	1089.871 *	1238.241 *	1357.550 *	1446.207 *	1534.258 *	1614.799 *	1696.946 *	1770.650 *	1834.002 *
-33.0	731.845 *	843.180 *	955.115 *	1048.934 *	1119.222 *	1182.593 *	1250.523 *	1313.968 *	1369.361 *	1415.990 *
-37.5	546.105 *	614.591 *	690.427 *	752.038 *	797.357 *	848.113 *	896.439 *	939.633 *	977.240 *	1008.815 *
-42.5	397.861 *	436.941 *	478.298 *	509.159 *	537.348 *	567.545 *	595.165 *	619.949 *	641.634 *	659.963 *
-47.5	294.853 *	318.856 *	340.538 *	358.162 *	374.773 *	390.164 *	404.198 *	416.759 *	427.728 *	436.990 *
-55.0	191.586 *	202.770 *	213.081 *	222.181 *	229.043 *	235.273 *	240.841 *	245.721 *	249.888 *	253.316 *
-65.0	85.031 *	90.999 *	97.456 *	102.807 *	106.643 *	110.090 *	113.157 *	115.852 *	118.185 *	120.167 *
-75.0	27.268 *	28.979 *	30.673 *	31.973 *	32.911 *	33.758 *	34.511 *	35.168 *	35.728 *	36.508 *
-85.0	0.402 *	0.391 *	0.425 *	0.454 *	0.476 *	0.497 *	0.538 *	0.551 *	0.565 *	0.578 *
-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	12.182	10.016	8.932	10.016	12.182	13.835	15.388	16.620	17.477	17.903

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CANDELA TABULATION - (Cont.)

55.0	133.242	130.262	128.771	130.262	133.242	133.296	133.649	133.308	132.364	130.910
47.5	279.071	273.850	271.236	273.850	279.071	279.559	279.899	278.306	274.645	268.798
42.5	568.809 *	558.214 *	552.909 *	558.214 *	568.809 *	561.556 *	556.460 *	547.561 *	535.573 *	521.189 *
37.5	952.682 *	953.501 *	950.099 *	953.501 *	952.682 *	945.716 *	931.616 *	910.294 *	881.719 *	845.920 *
33.0	1371.766	*1375.204	*1372.844	*1375.204	*1371.766	*1357.717	*1333.459	*1299.473	*1256.295	*1204.281 *
29.0	1821.408	*1829.542	*1827.956	*1829.542	*1821.408	*1798.317	*1760.575	*1710.703	*1650.533	*1569.373 *
25.5	2245.932	*2251.606	*2247.605	*2251.606	*2245.932	*2221.408	*2177.622	*2114.542	*2026.844	*1923.171 *
22.5	2658.134	*2669.044	*2661.056	*2669.044	*2658.134	*2626.470	*2571.746	*2495.119	*2372.953	*2244.486 *
19.5	3108.942	*3122.208	*3117.104	*3122.208	*3108.942	*3066.314	*2998.256	*2887.584	*2741.515	*2583.219 *
17.0	3502.181	*3517.777	*3513.077	*3517.777	*3502.181	*3452.032	*3365.667	*3221.723	*3054.431	*2871.513 *
15.0	3793.163	*3817.320	*3807.996	*3817.320	*3793.163	*3737.550	*3635.489	*3486.362	*3302.636	*3097.478 *
13.0	4045.471	*4062.015	*4056.312	*4062.015	*4045.471	*3993.441	*3885.003	*3726.833	*3535.067	*3317.183 *
11.0	4255.234	*4266.889	*4260.483	*4266.890	*4255.234	*4207.298	*4094.582	*3938.228	*3746.922	*3521.647 *
9.0	4419.577	*4424.602	*4417.478	*4424.602	*4419.577	*4366.675	*4258.216	*4119.629	*3924.041	*3697.791 *
7.0	4534.699	*4536.240	*4528.962	*4536.240	*4534.699	*4472.099	*4391.109	*4246.698	*4067.567	*3840.335 *
5.0	4587.217	*4606.421	*4601.295	*4606.421	*4587.217	*4546.556	*4465.740	*4346.927	*4169.182	*3941.328 *
3.0	4621.966	*4634.396	*4634.265	*4634.396	*4621.979	*4589.399	*4527.073	*4406.031	*4234.134	*4014.806 *
1.0	4645.213	*4654.669	*4656.613	*4654.669	*4645.213	*4625.990	*4555.492	*4438.104	*4270.101	*4052.200 *
0.0	4655.488	*4664.168	*4666.016	*4664.168	*4655.488	*4631.861	*4561.518	*4443.848	*4275.172	*4056.352 *
-1.0	4663.749	*4675.270	*4676.743	*4675.271	*4663.749	*4641.024	*4567.966	*4447.452	*4276.238	*4055.507 *
-3.0	4675.597	*4686.047	*4694.098	*4686.047	*4675.630	*4632.869	*4563.379	*4432.718	*4250.989	*4023.796 *
-5.0	4653.938	*4689.880	*4699.159	*4689.880	*4653.938	*4612.102	*4515.799	*4384.130	*4192.367	*3953.442 *
-7.0	4602.472	*4645.643	*4660.342	*4645.643	*4602.472	*4534.096	*4447.396	*4285.570	*4090.954	*3850.546 *
-9.0	4494.882	*4553.998	*4573.941	*4553.998	*4494.882	*4418.260	*4301.772	*4154.346	*3941.066	*3700.235 *
-11.0	4336.942	*4409.108	*4432.660	*4409.108	*4336.942	*4239.764	*4119.230	*3952.776	*3751.992	*3513.128 *
-13.0	4126.217	*4206.991	*4232.569	*4206.991	*4126.217	*4007.211	*3882.247	*3718.694	*3521.012	*3298.537 *
-15.0	3865.563	*3951.914	*3973.098	*3951.914	*3865.563	*3746.749	*3608.011	*3455.838	*3271.188	*3065.027 *
-17.0	3571.067	*3646.946	*3672.060	*3646.946	*3571.067	*3460.080	*3316.164	*3173.324	*3007.084	*2828.255 *
-19.5	3176.939	*3247.503	*3270.915	*3247.503	*3176.939	*3076.858	*2953.539	*2823.021	*2681.971	*2532.364 *
-22.5	2721.665	*2780.306	*2796.514	*2780.306	*2721.665	*2643.614	*2544.527	*2426.021	*2313.058	*2194.339 *
-25.5	2315.489	*2362.631	*2379.109	*2362.631	*2315.489	*2250.630	*2169.658	*2074.285	*1974.750	*1877.998 *
-29.0	1883.844	*1919.504	*1931.848	*1919.504	*1883.844	*1834.002	*1770.650	*1696.946	*1614.799	*1534.258 *
-33.0	1453.178	*1480.299	*1489.910	*1480.299	*1453.178	*1415.990	*1369.361	*1313.968	*1250.523	*1182.593 *
-37.5	1033.932	*1053.110	*1058.640	*1053.110	*1033.932	*1008.815	*977.240	*939.633	*896.439	*848.113 *
-42.5	679.273 *	686.074 *	689.479 *	686.074 *	679.273 *	659.963 *	641.634 *	619.949 *	595.165 *	567.545 *
-47.5	446.716	450.209	451.957	450.209	446.716	436.990	427.728	416.759	404.198	390.164
-55.0	256.884	257.971	258.515	257.971	256.884	253.316	249.888	245.721	240.841	235.273
-65.0	122.163	123.160	123.658	123.160	122.163	120.167	118.185	115.852	113.157	110.090
-75.0	36.665	36.823	36.902	36.823	36.665	36.508	35.728	35.168	34.511	33.758
-85.0	0.592	0.605	0.612	0.605	0.592	0.578	0.565	0.551	0.538	0.497
-90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	0.000	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	0.007
65.0	17.844	17.251	15.684	13.239	11.118	11.124	10.324	8.495	5.331	4.888
55.0	129.036	126.831	122.958	113.630	103.150	90.709	82.457	71.423	54.190	38.006
47.5	260.662	250.218	247.067	241.067	229.774	208.344	173.299	139.892	112.215	88.748
42.5	505.069 *	476.656 *	430.846	378.107	347.067	319.399	284.630	216.396	160.653	122.396
37.5	800.560 *	754.306 *	690.954 *	611.235 *	538.420 *	460.461	388.121	307.761	222.013	165.570
33.0	1137.718	*1064.264	*966.746 *	852.364 *	738.452 *	612.799 *	494.849 *	384.357	282.597	202.428
29.0	1476.553	*1383.561	*1258.617	*1104.385	*948.545 *	788.066 *	613.028 *	463.617	332.130	237.267
25.5	1808.797	*1687.807	*1533.239	*1343.790	*1157.406	*949.692 *	736.687 *	541.160 *	379.648	263.796

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

22.5	2104.591	*1958.947	*1775.621	*1558.001	*1344.015	*1102.147	*848.172	* 610.997	* 420.789	289.645
19.5	2411.622	*2236.402	*2019.544	*1772.334	*1527.764	*1251.424	*960.274	* 686.419	* 464.802	312.331
17.0	2674.804	*2473.966	*2229.240	*1946.046	*1673.969	*1372.441	*1053.652	*746.051	* 497.364	* 330.812
15.0	2882.824	*2666.585	*2392.777	*2080.899	*1786.384	*1461.446	*1122.927	*789.147	* 524.710	* 346.610
13.0	3086.028	*2849.804	*2551.736	*2207.227	*1890.576	*1546.678	*1185.112	*836.286	* 550.445	* 360.678
11.0	3276.554	*3017.367	*2695.833	*2320.113	*1982.779	*1621.911	*1243.583	*877.453	* 572.770	* 372.942
9.0	3444.272	*3168.930	*2826.140	*2429.473	*2068.229	*1686.523	*1294.688	*912.364	* 591.574	* 383.334
7.0	3577.047	*3296.346	*2934.328	*2520.291	*2139.608	*1741.662	*1336.154	*940.760	* 606.761	* 391.786
5.0	3681.176	*3395.620	*3017.529	*2589.751	*2194.650	*1785.559	*1367.665	*962.416	* 618.250	* 398.240
3.0	3753.321	*3460.388	*3075.840	*2636.744	*2232.490	*1815.626	*1388.987	*977.143	* 630.285	* 405.045
1.0	3794.051	*3491.134	*3104.943	*2663.499	*2252.497	*1831.498	*1399.982	*985.695	* 630.383	* 405.209
0.0	3792.799	*3493.893	*3107.991	*2663.733	*2255.689	*1834.044	*1401.589	*985.939	* 630.432	* 405.291
-1.0	3795.404	*3490.063	*3103.519	*2660.629	*2251.190	*1830.233	*1399.162	*985.378	* 630.576	* 405.658
-3.0	3756.242	*3456.456	*3071.585	*2628.502	*2228.532	*1811.862	*1386.580	*976.242	* 630.865	* 406.392
-5.0	3682.851	*3387.825	*3010.097	*2577.094	*2187.923	*1779.382	*1363.823	*961.061	* 619.258	* 400.620
-7.0	3573.473	*3285.586	*2921.194	*2504.744	*2129.929	*1733.216	*1331.129	*939.167	* 608.225	* 395.297
-9.0	3432.688	*3155.044	*2805.346	*2413.000	*2055.353	*1676.039	*1288.816	*910.826	* 593.546	* 388.148
-11.0	3260.184	*2997.847	*2667.881	*2304.821	*1966.659	*1609.702	*1237.274	*876.333	* 575.315	* 379.278
-13.0	3062.182	*2822.437	*2524.339	*2188.850	*1872.891	*1533.063	*1178.645	*836.006	* 553.640	* 368.793
-15.0	2851.561	*2632.717	*2367.774	*2059.308	*1767.549	*1446.963	*1116.199	*790.180	* 528.641	* 356.800
-17.0	2634.905	*2442.614	*2203.695	*1922.354	*1654.329	*1358.464	*1046.951	*747.915	* 502.291	* 343.405
-19.5	2370.521	*2203.343	*1990.871	*1747.975	*1507.587	*1239.164	*954.319	* 689.089	* 471.844	* 327.869
-22.5	2062.415	*1923.013	*1746.085	*1533.528	*1325.772	*1091.763	*843.805	* 614.360	* 430.901	308.758
-25.5	1769.812	*1654.279	*1505.308	*1322.392	*1143.502	*941.118	* 733.939	* 545.241	* 392.569	286.911
-29.0	1446.207	*1357.550	*1238.241	*1089.871	*938.019	* 779.221	* 614.013	* 469.780	* 348.787	260.650
-33.0	1119.222	*1048.934	*955.115	* 843.180	* 731.845	* 612.014	* 498.308	* 394.062	* 304.077	229.773
-37.5	797.357	* 752.038	* 690.427	* 614.591	* 546.105	* 471.218	* 395.356	* 324.150	* 256.519	199.947
-42.5	537.348	* 509.159	* 478.298	* 436.941	* 397.861	* 352.832	* 307.680	* 260.070	* 211.082	165.230
-47.5	374.773	* 358.166	* 340.538	* 318.856	* 294.853	* 269.804	* 240.302	* 209.269	* 169.673	131.238
-55.0	229.043	* 222.181	* 213.081	* 202.770	* 191.586	* 176.912	* 159.259	* 137.327	* 108.665	81.242
-65.0	106.643	* 102.807	* 97.456	* 90.999	* 85.031	* 77.723	* 69.438	* 60.207	* 51.027	41.029
-75.0	32.911	* 31.973	* 30.673	* 28.979	* 27.268	* 25.096	* 22.410	* 19.723	* 16.342	12.324
-85.0	0.476	* 0.454	* 0.425	* 0.391	* 0.402	* 0.407	* 0.402	* 0.381	* 0.337	0.248
-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>55.0</u>	<u>65.0</u>	<u>75.0</u>	<u>85.0</u>	<u>90.0</u>
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	3.575	0.192	0.020	0.000	0.000
55.0	22.256	7.123	0.799	0.000	0.000
47.5	49.997	17.403	2.211	0.000	0.000
42.5	74.910	25.348	4.161	0.000	0.000
37.5	101.603	33.927	6.149	0.000	0.000
33.0	122.750	42.542	7.997	0.000	0.000
29.0	140.223	50.002	10.223	0.000	0.000
25.5	157.278	56.300	12.025	0.000	0.000
22.5	170.120	61.428	13.453	0.000	0.000
19.5	181.259	66.661	14.769	0.000	0.000
17.0	189.295	70.511	15.776	0.000	0.000
15.0	194.956	73.251	16.520	0.000	0.000
13.0	199.922	75.683	17.208	0.000	0.000
11.0	204.185	77.806	17.839	0.000	0.000
9.0	207.739	79.616	18.411	0.000	0.000

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

7.0	210.580	81.112	18.922	0.000	0.000
5.0	212.704	82.292	19.574	0.000	0.000
3.0	214.909	83.511	19.832	0.000	0.000
1.0	214.894	83.743	20.091	0.000	0.000
0.0	214.886	83.859	20.220	0.000	0.000
-1.0	215.518	84.164	20.320	0.002	0.000
-3.0	216.780	84.774	20.520	0.005	0.000
-5.0	215.801	84.387	20.720	0.009	0.000
-7.0	214.887	84.031	20.516	0.013	0.000
-9.0	213.227	83.343	20.450	0.016	0.000
-11.0	210.816	82.323	20.316	0.020	0.000
-13.0	207.652	80.967	20.113	0.022	0.000
-15.0	203.734	79.275	19.843	0.025	0.000
-17.0	199.065	77.246	19.504	0.027	0.000
-19.5	192.179	74.237	18.985	0.030	0.000
-22.5	183.184	69.937	18.221	0.033	0.000
-25.5	173.185	65.677	17.306	0.036	0.000
-29.0	159.888	60.908	16.050	0.037	0.000
-33.0	143.240	55.238	14.371	0.038	0.000
-37.5	123.056	48.504	12.589	0.037	0.000
-42.5	100.225	41.467	10.342	0.033	0.000
-47.5	76.952	34.452	7.804	0.026	0.000
-55.0	51.872	24.294	4.905	0.012	0.000
-65.0	27.043	12.020	1.676	0.000	0.000
-75.0	7.792	2.751	0.159	0.000	0.000
-85.0	0.090	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-30.IES

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 2010.53

Total Field Lumens (one side of beam only) = 1793.44

* 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	0.01	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.06
55	0.21	0.43	0.44	0.45	0.45	0.45	0.44	0.44	0.43	0.51
47.5	0.46	0.93	0.94	0.94	0.93	0.92	0.90	0.87	0.84	1.01
42.5	0.63	1.28	1.28	1.27	1.25	1.23	1.19	1.15	1.09	1.27
37.5	1.15 *	2.31 *	2.30 *	2.27 *	2.22 *	2.16 *	2.07 *	1.97 *	1.86 *	2.13 *
33	1.59 *	3.19 *	3.16 *	3.11 *	3.04 *	2.93 *	2.81 *	2.65 *	2.48 *	2.83 *
29	1.95 *	3.90 *	3.86 *	3.79 *	3.68 *	3.55 *	3.38 *	3.18 *	2.96 *	3.38 *
25.5	2.17 *	4.34 *	4.30 *	4.22 *	4.10 *	3.94 *	3.74 *	3.51 *	3.26 *	3.71 *
22.5	2.25 *	4.49 *	4.44 *	4.36 *	4.23 *	4.05 *	3.83 *	3.58 *	3.32 *	3.77 *
19.5	2.64 *	5.28 *	5.22 *	5.12 *	4.96 *	4.72 *	4.44 *	4.14 *	3.83 *	4.33 *
17	2.53 *	5.04 *	4.99 *	4.88 *	4.70 *	4.46 *	4.19 *	3.89 *	3.59 *	4.05 *
15	2.23 *	4.45 *	4.40 *	4.30 *	4.14 *	3.92 *	3.67 *	3.41 *	3.13 *	3.53 *
13	2.40 *	4.78 *	4.73 *	4.62 *	4.44 *	4.21 *	3.95 *	3.66 *	3.36 *	3.78 *
11	2.54 *	5.06 *	5.01 *	4.90 *	4.72 *	4.48 *	4.21 *	3.90 *	3.58 *	4.02 *
9	2.65 *	5.29 *	5.24 *	5.13 *	4.95 *	4.72 *	4.44 *	4.12 *	3.78 *	4.23 *
7	2.73 *	5.45 *	5.41 *	5.30 *	5.13 *	4.91 *	4.63 *	4.30 *	3.95 *	4.42 *
5	2.78 *	5.56 *	5.51 *	5.42 *	5.26 *	5.05 *	4.77 *	4.45 *	4.08 *	4.57 *
3	2.81 *	5.62 *	5.57 *	5.49 *	5.35 *	5.15 *	4.87 *	4.55 *	4.18 *	4.68 *
1	2.83 *	5.65 *	5.62 *	5.54 *	5.41 *	5.20 *	4.94 *	4.61 *	4.25 *	4.75 *
0	1.42 *	2.83 *	2.82 *	2.78 *	2.71 *	2.61 *	2.48 *	2.32 *	2.13 *	2.39 *
-1	1.42 *	2.84 *	2.82 *	2.79 *	2.72 *	2.62 *	2.48 *	2.32 *	2.13 *	2.39 *
	2.85 *	5.69 *	5.66 *	5.58 *	5.43 *	5.22 *	4.95 *	4.62 *	4.25 *	4.74 *

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-3	2.86 *	5.69 *	5.64 *	5.55 *	5.40 *	5.18 *	4.89 *	4.56 *	4.18 *	4.67 *
-5	2.85 *	5.66 *	5.59 *	5.49 *	5.32 *	5.09 *	4.79 *	4.45 *	4.08 *	4.56 *
-7	2.81 *	5.57 *	5.48 *	5.36 *	5.18 *	4.94 *	4.64 *	4.30 *	3.94 *	4.40 *
-9	2.74 *	5.42 *	5.31 *	5.17 *	4.99 *	4.74 *	4.44 *	4.11 *	3.76 *	4.20 *
-11	2.63 *	5.20 *	5.08 *	4.92 *	4.73 *	4.48 *	4.20 *	3.88 *	3.56 *	3.98 *
-13	2.49 *	4.92 *	4.78 *	4.62 *	4.42 *	4.19 *	3.92 *	3.63 *	3.33 *	3.74 *
-15	2.32 *	4.58 *	4.45 *	4.28 *	4.09 *	3.87 *	3.63 *	3.36 *	3.09 *	3.49 *
-17	2.63 *	5.19 *	5.05 *	4.85 *	4.62 *	4.38 *	4.12 *	3.83 *	3.53 *	4.00 *
-19.5	2.76 *	5.45 *	5.30 *	5.10 *	4.86 *	4.61 *	4.34 *	4.06 *	3.76 *	4.26 *
-22.5	2.36 *	4.65 *	4.53 *	4.37 *	4.17 *	3.95 *	3.74 *	3.50 *	3.25 *	3.70 *
-25.5	2.29 *	4.52 *	4.41 *	4.25 *	4.07 *	3.86 *	3.65 *	3.43 *	3.19 *	3.64 *
-29	2.08 *	4.10 *	4.00 *	3.87 *	3.71 *	3.53 *	3.33 *	3.12 *	2.91 *	3.33 *
-33	1.74 *	3.44 *	3.36 *	3.25 *	3.12 *	2.97 *	2.80 *	2.62 *	2.45 *	2.80 *
-37.5	1.33 *	2.63 *	2.57 *	2.49 *	2.40 *	2.29 *	2.17 *	2.03 *	1.90 *	2.20 *
-42.5	0.87 *	1.72 *	1.69 *	1.64 *	1.59 *	1.53 *	1.46 *	1.38	1.30	1.52
-47.5	0.81	1.61	1.59	1.55	1.52	1.47	1.42	1.36	1.30	1.54
-55	0.58	1.16	1.14	1.12	1.10	1.07	1.04	1.01	0.97	1.15
-65	0.24	0.49	0.48	0.47	0.46	0.45	0.43	0.42	0.40	0.48
-75	0.06	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.11
-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	78.71	156.55	154.35	150.76	145.75	139.27	131.55	122.88	113.53	128.34

Vert. Angles	Horizontal Angles									
	<u>19.5</u>	<u>22.5</u>	<u>25.5</u>	<u>29</u>	<u>33</u>	<u>37.5</u>	<u>42.5</u>	<u>47.5</u>	<u>55</u>	<u>65</u>
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	0.06	0.05	0.05	0.06	0.05	0.04	0.03	0.03	0.01	0.00
65	0.57	0.50	0.51	0.51	0.48	0.41	0.28	0.25	0.13	0.02
55	1.16	1.08	1.12	1.09	0.98	0.83	0.59	0.53	0.28	0.05

IES FLOOD REPORT
PHOTOMETRIC FILENAME : TMFL-LED-04L-30.IES

LUMENS TABULATION - (Cont.)

47.5										
	1.38	1.25	1.31	1.29	1.14	0.92	0.65	0.60	0.32	0.06
42.5	2.25 *	1.96	1.97	1.90	1.67	1.32	0.90	0.83	0.45	0.09
37.5	3.00 *	2.57 *	2.51 *	2.30 *	1.98	1.57	1.06	0.95	0.51	0.11
33	3.57 *	3.04 *	2.93 *	2.62 *	2.19 *	1.71	1.14	1.00	0.54	0.12
29	3.91 *	3.33 *	3.19 *	2.82 *	2.31 *	1.75	1.14	1.00	0.54	0.12
25.5	3.97 *	3.38 *	3.24 *	2.85 *	2.30 *	1.71 *	1.09	0.94	0.51	0.11
22.5	4.56 *	3.88 *	3.71 *	3.26 *	2.61 *	1.91 *	1.20	1.02	0.55	0.12
19.5	4.25 *	3.61 *	3.45 *	3.03 *	2.41 *	1.75 *	1.08	0.91	0.48	0.11
17	3.69 *	3.13 *	2.98 *	2.62 *	2.08 *	1.49 *	0.91	0.76	0.40	0.09
15	3.94 *	3.32 *	3.17 *	2.78 *	2.20 *	1.57 *	0.96	0.79	0.41	0.10
13	4.17 *	3.51 *	3.34 *	2.92 *	2.32 *	1.65 *	1.00	0.81	0.42	0.10
11	4.38 *	3.67 *	3.49 *	3.05 *	2.42 *	1.72 *	1.03 *	0.83	0.43	0.10
9	4.57 *	3.82 *	3.62 *	3.16 *	2.51 *	1.78 *	1.06 *	0.85	0.44	0.10
7	4.72 *	3.94 *	3.73 *	3.25 *	2.58 *	1.82 *	1.08 *	0.87	0.45	0.11
5	4.83 *	4.03 *	3.80 *	3.32 *	2.63 *	1.86 *	1.10 *	0.88	0.45	0.11
3	4.90 *	4.08 *	3.85 *	3.36 *	2.66 *	1.88 *	1.11 *	0.89	0.45	0.11
1	2.46 *	2.05 *	1.94 *	1.69 *	1.34 *	0.94 *	0.56 *	0.44	0.23	0.05
0	2.46 *	2.05 *	1.94 *	1.69 *	1.34 *	0.94 *	0.56 *	0.44	0.23	0.05
-1	4.89 *	4.08 *	3.85 *	3.36 *	2.66 *	1.88 *	1.12 *	0.89	0.46	0.11
-3	4.81 *	4.02 *	3.79 *	3.31 *	2.62 *	1.86 *	1.11 *	0.89	0.46	0.11
-5	4.70 *	3.92 *	3.71 *	3.24 *	2.57 *	1.82 *	1.09 *	0.88	0.46	0.11
-7	4.54 *	3.80 *	3.60 *	3.15 *	2.50 *	1.78 *	1.07 *	0.87	0.45	0.11
-9	4.35 *	3.65 *	3.46 *	3.03 *	2.41 *	1.72 *	1.04 *	0.85	0.45	0.11
-11	4.13 *	3.48 *	3.31 *	2.90 *	2.31 *	1.66 *	1.01	0.83	0.44	0.11
-13	3.90 *	3.29 *	3.14 *	2.75 *	2.19 *	1.58 *	0.97	0.81	0.43	0.10
-15	3.65 *	3.09 *	2.95 *	2.59 *	2.07 *	1.50 *	0.93	0.79	0.43	0.10
-17	4.19 *	3.56 *	3.41 *	3.00 *	2.40 *	1.76 *	1.11	0.95	0.52	0.12
-19.5	4.49 *	3.83 *	3.67 *	3.23 *	2.60 *	1.93 *	1.24	1.08	0.59	0.14

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-22.5	3.91 *	3.33 *	3.20 *	2.83 *	2.30 *	1.73 *	1.15	1.02	0.56	0.13
-25.5	3.85 *	3.28 *	3.15 *	2.80 *	2.31 *	1.79	1.21	1.10	0.61	0.15
-29	3.52 *	3.01 *	2.90 *	2.61 *	2.21 *	1.77	1.23	1.13	0.64	0.15
-33	2.98 *	2.57 *	2.52 *	2.32 *	2.03	1.68	1.20	1.12	0.63	0.15
-37.5	2.37 *	2.08 *	2.09	1.99	1.80	1.53	1.12	1.05	0.60	0.15
-42.5	1.68	1.51	1.56	1.53	1.42	1.24	0.91	0.85	0.48	0.12
-47.5	1.72	1.58	1.66	1.66	1.57	1.37	0.99	0.91	0.53	0.14
-55	1.29	1.19	1.26	1.26	1.19	1.04	0.76	0.72	0.44	0.11
-65	0.53	0.48	0.51	0.51	0.48	0.43	0.32	0.32	0.19	0.04
-75	0.13	0.12	0.13	0.13	0.12	0.11	0.08	0.07	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	134.40	114.14	109.71	97.76	79.97	59.76	38.21	32.76	17.64	4.10

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		0.83
65				
	0.00	0.00		7.91
55				
	0.00	0.00		16.46
47.5				
	0.00	0.00		20.57
42.5				
	0.01	0.00		33.79
37.5				
	0.01	0.00		44.36
33				
	0.01	0.00		52.49
29				
	0.01	0.00		57.39
25.5				
	0.01	0.00		58.44
22.5				
	0.01	0.00		67.52
19.5				
	0.01	0.00		63.40
17				
	0.01	0.00		55.34

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

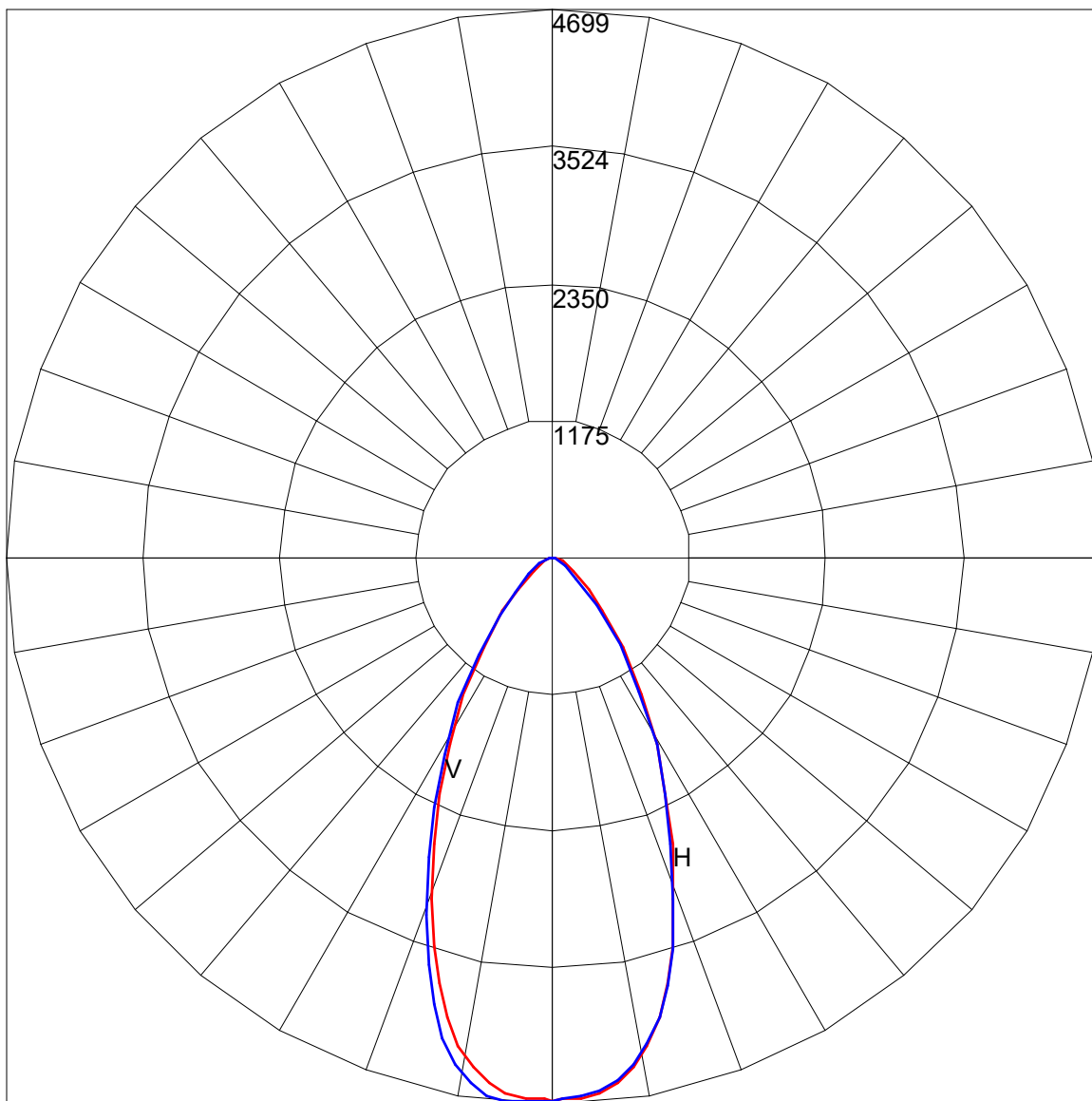
15			
	0.01	0.00	59.19
13			
	0.01	0.00	62.68
11			
	0.01	0.00	65.69
9			
	0.01	0.00	68.15
7			
	0.01	0.00	70.01
5			
	0.01	0.00	71.31
3			
	0.01	0.00	72.10
1			
	0.01	0.00	36.21
0			
	0.01	0.00	36.23
-1			
	0.01	0.00	72.28
-3			
	0.01	0.00	71.62
-5			
	0.01	0.00	70.38
-7			
	0.01	0.00	68.51
-9			
	0.01	0.00	65.97
-11			
	0.01	0.00	62.85
-13			
	0.01	0.00	59.23
-15			
	0.01	0.00	55.27
-17			
	0.01	0.00	63.24
-19.5			
	0.01	0.00	67.34
-22.5			
	0.01	0.00	58.40
-25.5			
	0.02	0.00	57.60
-29			
	0.02	0.00	53.17
-33			
	0.02	0.00	45.78
-37.5			
	0.02	0.00	36.79
-42.5			
	0.01	0.00	26.01
-47.5			
	0.01	0.00	26.31
-55			
	0.01	0.00	19.61
-65			
	0.00	0.00	8.13

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

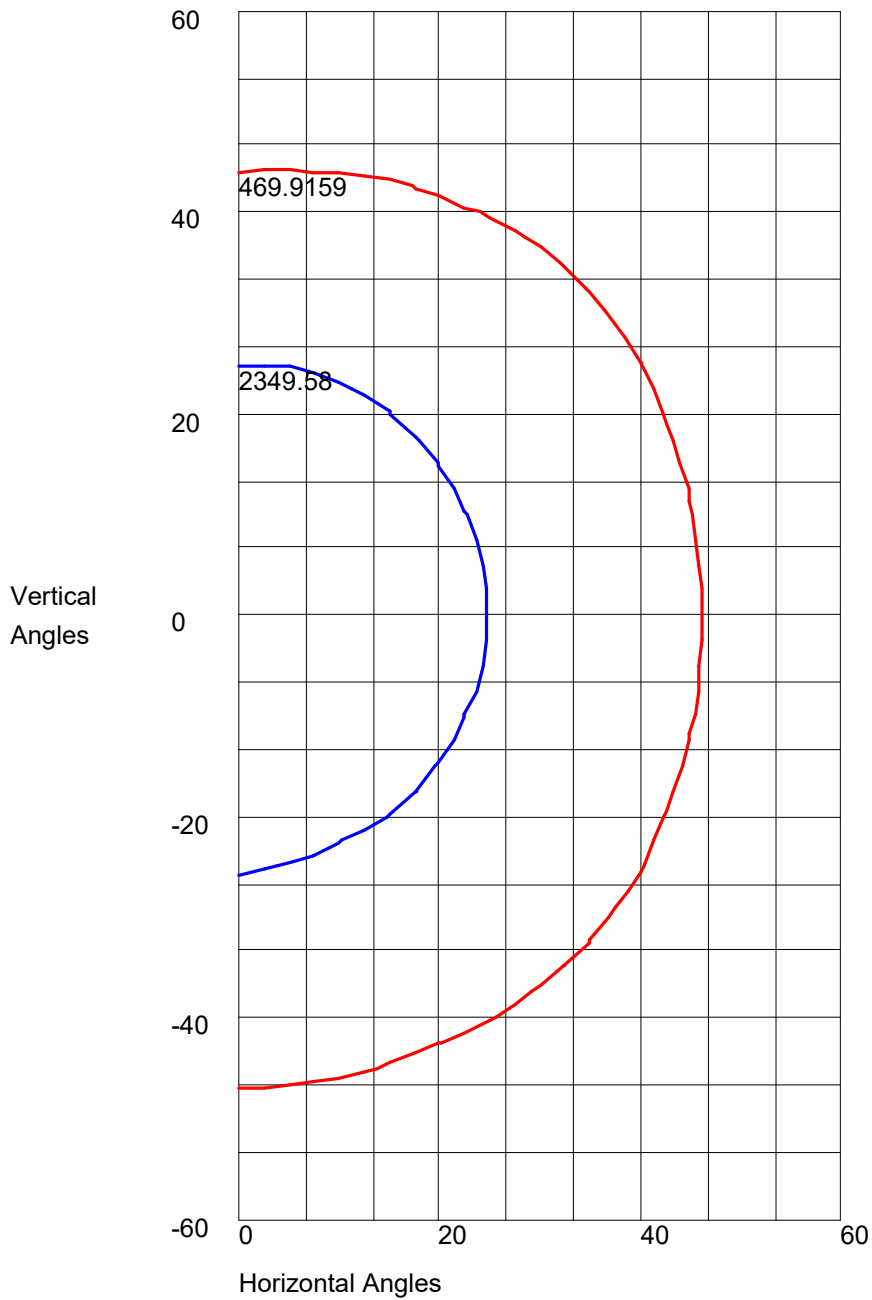
-75	0.00	0.00	1.95
-85	0.00	0.00	0.02
-90			
Total	0.39	0.00	2010.53

AXIAL CANDELA DISPLAY



Maximum Candela = 4699.159 Located At Horizontal Angle = 0, Vertical Angle = -5
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 4699.159 Located At Horizontal Angle = 0, Vertical Angle = -5
50% Maximum Candela = 2349.5795
10% Maximum Candela = 469.9159