



IES FLOOD REPORT
PHOTOMETRIC FILENAME : TSFL-LED-02L-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 3359
[TESTLAB] TUV SUD America
[TESTDATE] 2/26/2018 3:16:20 PM
[ISSUEDATE] 01/07/2019
[MANUFAC] LSI INDUSTRIES, INC
[LUMCAT] TSFL-LED-02L-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	2397.135
Maximum Candela Angle	0H 0V
Horizontal Beam Angle (50%)	49.2
Vertical Beam Angle (50%)	48.2
Horizontal Field Angle (10%)	92.9
Vertical Field Angle (10%)	87.5
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	979
Beam Efficiency	N.A.
Field Lumens	1772
Field Efficiency	N.A.
Spill Lumens	211
Luminaire Lumens	1983
Total Efficiency	N.A.
Total Luminaire Watts	21.29
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	0	85	0
75	4.128	75	0
65	42.144	65	0
55	115.451	55	36.825
47.5	216.268	47.5	119.417
42.5	329.055	42.5	185.438
37.5	505.268	37.5	300.908
33	714.145	33	592.216
29	929.9	29	811.767
25.5	1139.249	25.5	1006.514
22.5	1342.215	22.5	1186.851
19.5	1565.648	19.5	1392.452
17	1756.905	17	1577.325
15	1907.055	15	1729.711
13	2037.644	13	1880.741
11	2153.27	11	2018.905
9	2248.69	9	2139.838
7	2320.713	7	2239.894
5	2368.202	5	2316.148
3	2390.896	3	2357.314
1	2396.909	1	2385.323
0	2397.135	0	2397.135
-1	2396.909	-1	2396.021
-3	2390.896	-3	2391.252
-5	2368.202	-5	2378.859
-7	2320.713	-7	2346.953
-9	2248.69	-9	2292.909
-11	2153.27	-11	2215.088
-13	2037.644	-13	2113.911
-15	1907.055	-15	1991.857
-17	1756.905	-17	1843.644
-19.5	1565.648	-19.5	1657.845
-22.5	1342.215	-22.5	1431.124
-25.5	1139.249	-25.5	1223.842
-29	929.9	-29	1003.567
-33	714.145	-33	781.478
-37.5	505.268	-37.5	567.091
-42.5	329.055	-42.5	370.926
-47.5	216.268	-47.5	236.946
-55	115.451	-55	133.798
-65	42.144	-65	54.405
-75	4.128	-75	16.349
-85	0	-85	.616
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 2397.135

Beam Edge = 1198.5675 Cd (50% of Max.)

Field Edge = 239.7135 Cd (10% of Max.)

* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	-90.0	-85.0	-75.0	-65.0	-55.0	-47.5	-42.5	-37.5	-33.0	-29.0
90.0	0.000	0.000	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	0.000	0.000	0.000	0.000	0.000	0.300	0.445	1.012	1.854	2.070
55.0	0.000	0.000	0.000	0.199	4.277	11.189	16.620	24.016	31.876	36.256
47.5	0.000	0.000	0.010	2.294	15.106	33.394	50.167	64.146	72.144	82.180
42.5	0.000	0.000	0.156	5.388	26.256	56.131	74.180	90.983	105.154	121.578
37.5	0.000	0.000	0.312	9.705	40.928	77.011	101.917	126.481	154.425	196.628
33.0	0.000	0.000	0.484	14.285	55.354	99.505	130.562	171.128	230.220	293.038 *
29.0	0.000	0.000	1.015	18.546	67.023	119.568	163.171	222.545	298.746 *	377.295 *
25.5	0.000	0.000	1.482	22.403	75.708	135.776	193.133	268.098 *	359.431 *	455.385 *
22.5	0.000	0.000	1.877	25.573	82.699	152.625	218.616	305.141 *	413.866 *	530.009 *
19.5	0.000	0.000	2.264	28.840	89.697	167.423	240.115 *	343.114 *	469.060 *	604.527 *
17.0	0.000	0.000	2.574	31.334	95.649	178.292	256.153 *	373.250 *	516.316 *	665.679 *
15.0	0.000	0.000	2.813	33.172	99.831	186.188	269.934 *	395.431 *	552.182 *	711.339 *
13.0	0.000	0.000	3.041	34.868	103.502	193.211	283.145 *	419.509 *	584.928 *	756.566 *
11.0	0.000	0.000	3.256	36.416	106.665	199.338	294.853 *	440.981 *	616.113 *	797.839 *
9.0	0.000	0.000	3.457	37.813	109.330	204.547	304.980 *	459.676 *	644.213 *	834.133 *
7.0	0.000	0.000	3.642	39.056	111.504	208.823	313.448 *	475.428 *	668.062 *	866.047 *
5.0	0.000	0.000	3.883	40.141	113.202	212.150	320.186 *	488.082 *	687.374 *	892.756 *
3.0	0.000	0.000	3.981	41.252	114.920	215.607	327.271 *	497.494 *	701.883 *	912.844 *
1.0	0.000	0.000	4.079	41.847	115.274	216.047	328.459 *	503.978 *	711.358 *	925.999 *
0.0	0.000	0.000	4.128	42.144	115.451	216.268	329.055 *	505.268 *	714.145 *	929.900 *
-1.0	0.000	0.000	4.225	42.399	115.836	216.477	329.286 *	505.648 *	713.844 *	929.285 *
-3.0	0.000	0.000	4.419	42.910	116.606	216.895	329.748 *	502.460 *	709.278 *	922.618 *
-5.0	0.000	0.000	4.612	42.887	116.066	214.285	324.204 *	496.222 *	699.488 *	908.772 *
-7.0	0.000	0.000	4.640	42.878	115.584	211.793	318.917 *	486.544 *	684.591 *	887.909 *
-9.0	0.000	0.000	4.720	42.687	114.692	208.335	311.748 *	473.496 *	664.743 *	861.496 *
-11.0	0.000	0.000	4.769	42.313	113.398	203.919	302.731 *	457.169 *	640.139 *	830.451 *
-13.0	0.000	0.000	4.785	41.752	111.706	198.559	291.908 *	437.675 *	612.001 *	793.986 *
-15.0	0.000	0.000	4.766	41.003	109.627	192.270	279.330 *	415.136 *	582.083 *	752.344 *
-17.0	0.000	0.000	4.713	40.065	107.169	185.073	266.019 *	393.640 *	548.196 *	708.593 *
-19.5	0.000	0.000	4.595	38.623	103.576	176.262	250.661 *	363.509 *	502.278 *	648.784 *
-22.5	0.000	0.000	4.378	36.498	98.692	165.496	229.904	325.341 *	447.238 *	574.907 *
-25.5	0.000	0.000	4.075	34.373	93.201	153.643	209.854	290.224 *	391.471 *	499.433 *
-29.0	0.000	0.000	3.612	31.375	86.005	140.354	186.174	251.616 *	328.571 *	419.306 *
-33.0	0.000	0.000	2.936	27.856	77.802	124.341	162.583	211.959	268.144 *	330.116 *
-37.5	0.000	0.000	2.556	23.743	67.389	108.112	137.347	173.771	213.650	254.858 *
-42.5	0.000	0.000	1.983	19.526	55.337	88.811	112.667	138.363	164.773	189.807
-47.5	0.000	0.000	1.212	15.392	42.324	71.057	90.335	110.249	126.712	142.979
-55.0	0.000	0.000	0.581	9.539	26.579	44.669	59.824	72.953	82.905	92.249
-65.0	0.000	0.000	0.053	2.838	11.396	19.625	25.513	30.021	34.520	38.226
-75.0	0.000	0.000	0.000	0.150	2.040	4.531	6.658	8.462	9.957	11.350
-85.0	0.000	0.000	0.000	0.000	0.005	0.019	0.041	0.082	0.128	0.174
-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	1.625	1.702	1.963	2.349	2.471	2.446	2.292	2.027	1.672	1.246
55.0	38.029	38.232	37.944	39.684	41.016	41.816	42.120	41.968	41.403	40.468
47.5	93.357	100.374	105.783	109.440	112.585	115.262	117.454	119.127	120.249	120.791
42.5	138.740	151.994	163.821	167.797	171.214	177.746	182.797	186.385	188.538	189.296
37.5	229.539	248.844 *	264.593 *	274.089 *	279.055 *	301.231 *	318.771 *	328.659 *	331.636 *	328.561 *
33.0	334.272 *	371.678 *	419.824 *	464.994 *	501.385 *	536.451 *	555.931 *	570.690 *	583.176 *	592.261 *
29.0	447.469 *	512.228 *	582.277 *	637.602 *	678.155 *	715.899 *	748.021 *	772.250 *	792.027 *	806.127 *
25.5	548.760 *	632.548 *	716.383 *	782.317 *	833.379 *	880.491 *	921.480 *	955.952 *	981.604 *	999.214 *
22.5	640.586 *	737.473 *	834.046 *	914.349 *	975.225 *	1031.520 *	1081.374 *	1127.184 *	1158.873 *	1180.162 *
19.5	732.254 *	844.281 *	956.455 *	1049.381 *	1122.133 *	1191.486 *	1254.044 *	1312.101 *	1356.033 *	1382.983 *
17.0	806.793 *	933.354 *	1060.246 *	1165.583 *	1249.522 *	1332.268 *	1407.827 *	1477.227 *	1533.483 *	1566.876 *
15.0	865.439 *	1002.655 *	1142.439 *	1260.820 *	1354.104 *	1446.120 *	1536.106 *	1613.124 *	1678.082 *	1720.847 *
13.0	920.791 *	1068.656 *	1223.365 *	1355.741 *	1459.761 *	1564.248 *	1663.264 *	1751.656 *	1822.520 *	1870.806 *
11.0	970.940 *	1129.442 *	1299.395 *	1445.727 *	1565.046 *	1679.389 *	1787.642 *	1879.050 *	1953.791 *	2008.290 *
9.0	1018.274 *	1188.402 *	1372.184 *	1531.914 *	1660.415 *	1784.915 *	1896.396 *	1992.550 *	2066.852 *	2125.508 *
7.0	1059.153 *	1239.656 *	1435.887 *	1607.415 *	1743.553 *	1874.494 *	1989.445 *	2084.582 *	2164.582 *	2214.721 *
5.0	1092.448 *	1281.878 *	1488.701 *	1670.024 *	1812.099 *	1944.030 *	2062.804 *	2160.709 *	2231.635 *	2284.499 *
3.0	1117.628 *	1314.153 *	1530.118 *	1717.286 *	1864.087 *	1996.363 *	2113.034 *	2210.658 *	2284.668 *	2328.473 *
1.0	1134.251 *	1337.129 *	1557.539 *	1747.949 *	1900.022 *	2028.918 *	2144.756 *	2240.311 *	2312.577 *	2361.578 *
0.0	1139.249 *	1342.215 *	1565.648 *	1756.905 *	1907.055 *	2037.644 *	2153.270 *	2248.690 *	2320.713 *	2368.202 *
-1.0	1138.894 *	1343.615 *	1566.343 *	1758.456 *	1911.173 *	2040.511 *	2156.264 *	2251.370 *	2323.000 *	2371.142 *
-3.0	1131.374 *	1333.295 *	1556.229 *	1748.769 *	1897.514 *	2031.218 *	2148.123 *	2244.726 *	2316.951 *	2357.513 *
-5.0	1114.767 *	1312.830 *	1531.128 *	1721.791 *	1867.593 *	2002.360 *	2122.185 *	2217.399 *	2285.088 *	2334.786 *
-7.0	1089.197 *	1281.075 *	1492.455 *	1677.097 *	1819.050 *	1952.458 *	2069.933 *	2165.011 *	2243.425 *	2287.294 *
-9.0	1054.932 *	1238.557 *	1439.554 *	1613.046 *	1751.593 *	1879.889 *	1995.929 *	2098.176 *	2168.382 *	2223.775 *
-11.0	1013.060 *	1185.726 *	1373.527 *	1535.697 *	1666.256 *	1790.316 *	1904.644 *	1999.675 *	2076.919 *	2132.303 *
-13.0	967.705 *	1129.353 *	1302.329 *	1451.321 *	1568.785 *	1685.885 *	1793.656 *	1887.079 *	1963.564 *	2020.181 *
-15.0	916.125 *	1066.327 *	1224.216 *	1360.536 *	1467.424 *	1572.042 *	1673.106 *	1761.534 *	1833.027 *	1895.611 *
-17.0	860.454 *	999.196 *	1143.314 *	1265.888 *	1363.631 *	1458.177 *	1546.742 *	1627.694 *	1695.558 *	1757.563 *
-19.5	788.421 *	912.421 *	1039.149 *	1146.849 *	1231.262 *	1313.168 *	1388.411 *	1458.775 *	1522.159 *	1578.210 *
-22.5	697.308 *	805.893 *	916.094 *	1007.521 *	1078.245 *	1144.732 *	1204.595 *	1261.801 *	1317.745 *	1363.792 *
-25.5	604.327 *	699.218 *	795.583 *	872.913 *	932.659 *	988.092 *	1037.275 *	1085.834 *	1130.578 *	1167.837 *
-29.0	500.652 *	579.828 *	658.284 *	722.805 *	770.782 *	816.990 *	858.689 *	897.555 *	931.836 *	960.885 *
-33.0	395.981 *	454.915 *	513.766 *	563.410 *	600.607 *	634.275 *	668.972 *	700.646 *	727.535 *	749.443 *
-37.5	295.846 *	334.137 *	375.834 *	409.164 *	433.521 *	460.334 *	485.350 *	507.568 *	526.763 *	542.716 *
-42.5	214.415	235.818	259.016 *	276.749 *	292.674 *	308.934 *	323.622 *	336.615 *	347.790 *	357.029 *
-47.5	156.837	170.015	181.833	191.364	199.984	207.847	214.895	221.079	226.348	230.657
-55.0	99.886	105.858	111.409	116.091	119.573	122.710	125.487	127.892	129.913	131.537
-65.0	41.169	43.177	45.471	47.565	49.038	50.329	51.441	52.375	53.130	53.710
-75.0	12.359	13.078	13.749	14.266	14.642	14.983	15.289	15.561	15.798	16.110
-85.0	0.217	0.256	0.304	0.346	0.379	0.412	0.462	0.490	0.518	0.546
-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	0.779	0.260	0.000	0.260	0.779	1.246	1.672	2.027	2.292	2.446

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CANDELA TABULATION - (Cont.)

55.0	39.462	37.704	36.825	37.704	39.462	40.468	41.403	41.968	42.120	41.816
47.5	121.465	120.100	119.417	120.100	121.465	120.791	120.249	119.127	117.454	115.262
42.5	190.076	186.985	185.438	186.985	190.076	189.296	188.538	186.385	182.797	177.746
37.5	320.394 *	308.503 *	300.908 *	308.503 *	320.394 *	328.561 *	331.636 *	328.659 *	318.771 *	301.231 *
33.0	596.754 *	595.434 *	592.216 *	595.434 *	596.754 *	592.261 *	583.176 *	570.690 *	555.931 *	536.451 *
29.0	813.464 *	814.017 *	811.767 *	814.017 *	813.464 *	806.127 *	792.027 *	772.250 *	748.021 *	715.899 *
25.5	1008.498 *	1009.301 *	1006.514 *	1009.301 *	1008.498 *	999.214 *	981.604 *	955.952 *	921.480 *	880.491 *
22.5	1190.803 *	1192.071 *	1186.851 *	1192.071 *	1190.803 *	1180.162 *	1158.873 *	1127.214 *	1081.374 *	1031.520 *
19.5	1397.514 *	1397.818 *	1392.452 *	1397.818 *	1397.514 *	1382.983 *	1356.033 *	1312.101 *	1254.044 *	1191.486 *
17.0	1584.141 *	1584.070 *	1577.325 *	1584.070 *	1584.142 *	1566.876 *	1533.483 *	1477.227 *	1407.827 *	1332.268 *
15.0	1739.906 *	1740.740 *	1729.711 *	1740.740 *	1739.906 *	1720.847 *	1678.082 *	1613.124 *	1536.106 *	1446.120 *
13.0	1891.218 *	1889.916 *	1880.741 *	1889.916 *	1891.218 *	1870.806 *	1822.520 *	1751.656 *	1663.264 *	1564.248 *
11.0	2030.545 *	2028.605 *	2018.905 *	2028.605 *	2030.545 *	2008.290 *	1953.791 *	1879.050 *	1787.642 *	1679.389 *
9.0	2152.894 *	2149.561 *	2139.838 *	2149.561 *	2152.894 *	2125.508 *	2066.852 *	1992.550 *	1896.396 *	1784.915 *
7.0	2251.065 *	2248.918 *	2239.894 *	2248.918 *	2251.065 *	2214.721 *	2164.582 *	2084.582 *	1989.445 *	1874.494 *
5.0	2313.265 *	2325.855 *	2316.148 *	2325.855 *	2313.265 *	2284.499 *	2231.635 *	2160.709 *	2062.804 *	1944.030 *
3.0	2355.795 *	2365.086 *	2357.314 *	2365.086 *	2355.812 *	2328.473 *	2284.668 *	2210.658 *	2113.034 *	1996.363 *
1.0	2381.455 *	2388.915 *	2385.323 *	2388.915 *	2381.455 *	2361.578 *	2312.577 *	2240.311 *	2144.756 *	2028.918 *
0.0	2390.896 *	2396.909 *	2397.135 *	2396.909 *	2390.896 *	2368.202 *	2320.713 *	2248.690 *	2153.270 *	2037.644 *
-1.0	2389.696 *	2396.581 *	2396.021 *	2396.581 *	2389.696 *	2371.142 *	2323.000 *	2251.370 *	2156.264 *	2040.511 *
-3.0	2381.910 *	2388.133 *	2391.252 *	2388.133 *	2381.912 *	2357.513 *	2316.951 *	2244.726 *	2148.123 *	2031.218 *
-5.0	2357.231 *	2375.481 *	2378.859 *	2375.481 *	2357.231 *	2334.786 *	2285.088 *	2217.399 *	2122.185 *	2002.360 *
-7.0	2319.591 *	2340.720 *	2346.953 *	2340.720 *	2319.591 *	2287.294 *	2243.425 *	2165.011 *	2069.933 *	1952.458 *
-9.0	2259.504 *	2285.261 *	2292.909 *	2285.261 *	2259.504 *	2223.775 *	2168.382 *	2098.176 *	1995.929 *	1879.889 *
-11.0	2175.999 *	2206.360 *	2215.088 *	2206.360 *	2175.999 *	2132.303 *	2076.919 *	1999.675 *	1904.644 *	1790.316 *
-13.0	2071.390 *	2104.407 *	2113.911 *	2104.407 *	2071.390 *	2020.181 *	1963.564 *	1887.079 *	1793.656 *	1685.885 *
-15.0	1947.461 *	1984.160 *	1991.857 *	1984.160 *	1947.461 *	1895.611 *	1833.027 *	1761.534 *	1673.106 *	1572.042 *
-17.0	1804.162 *	1834.620 *	1843.644 *	1834.620 *	1804.162 *	1757.563 *	1695.558 *	1627.694 *	1546.742 *	1458.177 *
-19.5	1620.896 *	1649.193 *	1657.845 *	1649.193 *	1620.896 *	1578.210 *	1522.159 *	1458.775 *	1388.411 *	1313.168 *
-22.5	1399.211 *	1424.860 *	1431.124 *	1424.860 *	1399.211 *	1363.792 *	1317.745 *	1261.841 *	1204.595 *	1144.732 *
-25.5	1196.912 *	1217.178 *	1223.842 *	1217.178 *	1196.912 *	1167.837 *	1130.578 *	1085.834 *	1037.275 *	988.092 *
-29.0	983.296 *	998.649 *	1003.567 *	998.649 *	983.296 *	960.885 *	931.836 *	897.555 *	858.689 *	816.990 *
-33.0	766.210 *	777.718 *	781.478 *	777.718 *	766.210 *	749.443 *	727.535 *	700.646 *	668.972 *	634.275 *
-37.5	555.218 *	564.563 *	567.091 *	564.563 *	555.218 *	542.716 *	526.763 *	507.568 *	485.350 *	460.334 *
-42.5	366.754 *	369.534 *	370.926 *	369.534 *	366.754 *	357.029 *	347.790 *	336.615 *	323.622 *	308.934 *
-47.5	235.181	236.357	236.946	236.357	235.181	230.657	226.348	221.079	214.895	207.847
-55.0	133.231	133.609	133.798	133.609	133.231	131.537	129.913	127.892	125.487	122.710
-65.0	54.306	54.372	54.405	54.372	54.306	53.710	53.130	52.375	51.441	50.329
-75.0	16.205	16.301	16.349	16.301	16.205	16.110	15.798	15.561	15.289	14.983
-85.0	0.574	0.602	0.616	0.602	0.574	0.546	0.518	0.490	0.462	0.412
-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	0.000
65.0	2.471	2.349	1.963	1.702	1.625	2.070	1.854	1.012	0.445	0.300
55.0	41.016	39.684	37.944	38.232	38.029	36.256	31.876	24.016	16.620	11.189
47.5	112.585	109.458	105.783	100.374	93.357	82.180	72.144	64.146	50.167	33.394
42.5	171.214	167.797	163.821	151.994	138.740	121.578	105.154	90.983	74.180	56.131
37.5	279.055 *	274.089 *	264.593 *	248.844 *	229.539	196.628	154.425	126.481	101.917	77.011
33.0	501.385 *	464.994 *	419.824 *	371.678 *	334.272 *	293.038 *	230.220	171.128	130.562	99.505
29.0	678.155 *	637.602 *	582.277 *	512.228 *	447.469 *	377.295 *	298.746 *	222.545	163.171	119.568
25.5	833.379 *	782.317 *	716.383 *	632.548 *	548.760 *	455.385 *	359.431 *	268.098 *	193.133	135.776

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

22.5	975.225	* 914.349	* 834.046	* 737.473	* 640.586	* 530.009	* 413.866	* 305.141	* 218.615	152.625
19.5	1122.133	*1049.381	*956.455	* 844.281	* 732.254	* 604.527	* 469.060	* 343.114	* 240.115	* 167.423
17.0	1249.522	*1165.583	*1060.246	*933.354	* 806.793	* 665.679	* 516.316	* 373.250	* 256.153	* 178.292
15.0	1354.104	*1260.820	*1142.439	*1002.655	*865.439	* 711.339	* 552.182	* 395.431	* 269.934	* 186.188
13.0	1459.761	*1355.741	*1223.365	*1068.656	*920.791	* 756.566	* 584.928	* 419.509	* 283.145	* 193.211
11.0	1565.046	*1445.727	*1299.395	*1129.442	*970.940	* 797.839	* 616.113	* 440.981	* 294.853	* 199.338
9.0	1660.415	*1531.914	*1372.184	*1188.402	*1018.274	*834.133	* 644.213	* 459.676	* 304.980	* 204.547
7.0	1743.553	*1607.415	*1435.887	*1239.656	*1059.153	*866.047	* 668.062	* 475.428	* 313.448	* 208.823
5.0	1812.099	*1670.024	*1488.701	*1281.878	*1092.448	*892.756	* 687.374	* 488.082	* 320.186	* 212.150
3.0	1864.088	*1717.286	*1530.118	*1314.153	*1117.628	*912.844	* 701.883	* 497.494	* 327.271	* 215.607
1.0	1900.022	*1747.949	*1557.539	*1337.129	*1134.251	*925.999	* 711.358	* 503.978	* 328.459	* 216.047
0.0	1907.055	*1756.905	*1565.648	*1342.215	*1139.249	*929.900	* 714.145	* 505.268	* 329.055	* 216.268
-1.0	1911.173	*1758.456	*1566.343	*1343.615	*1138.894	*929.285	* 713.844	* 505.648	* 329.286	* 216.477
-3.0	1897.514	*1748.769	*1556.229	*1333.295	*1131.374	*922.618	* 709.278	* 502.460	* 329.748	* 216.895
-5.0	1867.593	*1721.791	*1531.128	*1312.830	*1114.767	*908.772	* 699.488	* 496.222	* 324.204	* 214.285
-7.0	1819.050	*1677.097	*1492.455	*1281.075	*1089.197	*887.909	* 684.591	* 486.544	* 318.917	* 211.793
-9.0	1751.593	*1613.046	*1439.554	*1238.557	*1054.932	*861.496	* 664.743	* 473.496	* 311.748	* 208.335
-11.0	1666.256	*1535.697	*1373.527	*1185.726	*1013.060	*830.451	* 640.139	* 457.169	* 302.731	* 203.919
-13.0	1568.785	*1451.321	*1302.329	*1129.353	*967.705	* 793.986	* 612.001	* 437.675	* 291.908	* 198.559
-15.0	1467.424	*1360.536	*1224.216	*1066.327	*916.125	* 752.344	* 582.083	* 415.136	* 279.330	* 192.270
-17.0	1363.631	*1265.888	*1143.314	*999.196	* 860.454	* 708.593	* 548.196	* 393.640	* 266.019	* 185.073
-19.5	1231.262	*1146.849	*1039.149	*912.421	* 788.421	* 648.784	* 502.278	* 363.509	* 250.661	* 176.262
-22.5	1078.245	*1007.521	*916.094	* 805.893	* 697.308	* 574.907	* 447.238	* 325.341	* 229.904	165.496
-25.5	932.659	* 872.913	* 795.583	* 699.218	* 604.327	* 499.433	* 391.471	* 290.224	* 209.854	153.643
-29.0	770.782	* 722.805	* 658.284	* 579.828	* 500.652	* 419.306	* 328.571	* 251.616	* 186.174	140.354
-33.0	600.607	* 563.410	* 513.766	* 454.915	* 395.981	* 330.116	* 268.144	* 211.959	162.583	124.341
-37.5	433.521	* 409.164	* 375.834	* 334.137	* 295.846	* 254.858	* 213.650	173.771	137.347	108.112
-42.5	292.674	* 276.749	* 259.016	* 235.818	214.415	189.807	164.773	138.363	112.667	88.811
-47.5	199.984	191.364	181.833	170.015	156.837	142.979	126.712	110.249	90.335	71.057
-55.0	119.573	116.091	111.409	105.858	99.886	92.249	82.905	72.953	59.824	44.669
-65.0	49.038	47.565	45.471	43.177	41.169	38.226	34.520	30.021	25.513	19.625
-75.0	14.642	14.266	13.749	13.078	12.359	11.350	9.957	8.462	6.658	4.531
-85.0	0.379	0.346	0.304	0.257	0.217	0.174	0.128	0.082	0.041	0.019
-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	0.000	0.000	0.000	0.000	0.000
55.0	4.277	0.199	0.000	0.000	0.000
47.5	15.106	2.294	0.010	0.000	0.000
42.5	26.256	5.388	0.156	0.000	0.000
37.5	40.928	9.705	0.312	0.000	0.000
33.0	55.354	14.285	0.484	0.000	0.000
29.0	67.023	18.546	1.015	0.000	0.000
25.5	75.708	22.403	1.482	0.000	0.000
22.5	82.699	25.573	1.877	0.000	0.000
19.5	89.697	28.840	2.264	0.000	0.000
17.0	95.649	31.334	2.574	0.000	0.000
15.0	99.831	33.172	2.813	0.000	0.000
13.0	103.502	34.868	3.041	0.000	0.000
11.0	106.665	36.416	3.256	0.000	0.000
9.0	109.330	37.813	3.457	0.000	0.000

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

7.0	111.504	39.056	3.642	0.000	0.000
5.0	113.202	40.141	3.883	0.000	0.000
3.0	114.920	41.252	3.981	0.000	0.000
1.0	115.274	41.847	4.079	0.000	0.000
0.0	115.451	42.144	4.128	0.000	0.000
-1.0	115.836	42.399	4.225	0.000	0.000
-3.0	116.606	42.910	4.419	0.000	0.000
-5.0	116.066	42.887	4.612	0.000	0.000
-7.0	115.584	42.878	4.640	0.000	0.000
-9.0	114.692	42.687	4.720	0.000	0.000
-11.0	113.398	42.313	4.769	0.000	0.000
-13.0	111.707	41.752	4.785	0.000	0.000
-15.0	109.627	41.003	4.766	0.000	0.000
-17.0	107.169	40.065	4.713	0.000	0.000
-19.5	103.576	38.623	4.595	0.000	0.000
-22.5	98.692	36.498	4.378	0.000	0.000
-25.5	93.201	34.373	4.075	0.000	0.000
-29.0	86.005	31.375	3.612	0.000	0.000
-33.0	77.802	27.856	2.936	0.000	0.000
-37.5	67.389	23.743	2.556	0.000	0.000
-42.5	55.337	19.526	1.983	0.000	0.000
-47.5	42.324	15.392	1.212	0.000	0.000
-55.0	26.579	9.539	0.581	0.000	0.000
-65.0	11.396	2.838	0.053	0.000	0.000
-75.0	2.040	0.150	0.000	0.000	0.000
-85.0	0.005	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 : TSFL-LED-02L-30.IES

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 991.48

Total Field Lumens (one side of beam only) = 885.88

* 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	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01
55	0.06	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.15
47.5	0.18	0.36	0.37	0.37	0.37	0.36	0.35	0.34	0.33	0.40
42.5	0.23	0.47	0.47	0.47	0.46	0.45	0.44	0.43	0.41	0.49
37.5	0.37 *	0.77 *	0.78 *	0.79 *	0.78 *	0.76 *	0.73 *	0.69	0.65	0.79
33	0.62 *	1.25 *	1.26 *	1.25 *	1.23 *	1.20 *	1.15 *	1.08 *	1.00 *	1.16 *
29	0.86 *	1.72 *	1.71 *	1.68 *	1.64 *	1.59 *	1.52 *	1.44 *	1.34 *	1.52 *
25.5	0.97 *	1.94 *	1.93 *	1.90 *	1.85 *	1.78 *	1.70 *	1.61 *	1.50 *	1.72 *
22.5	1.00 *	2.01 *	2.00 *	1.96 *	1.91 *	1.84 *	1.75 *	1.65 *	1.54 *	1.76 *
19.5	1.18 *	2.36 *	2.35 *	2.31 *	2.24 *	2.15 *	2.04 *	1.92 *	1.78 *	2.04 *
17	1.13 *	2.27 *	2.25 *	2.21 *	2.14 *	2.04 *	1.93 *	1.81 *	1.68 *	1.91 *
15	1.01 *	2.02 *	2.01 *	1.97 *	1.90 *	1.81 *	1.70 *	1.59 *	1.47 *	1.67 *
13	1.10 *	2.21 *	2.19 *	2.15 *	2.07 *	1.97 *	1.85 *	1.72 *	1.59 *	1.80 *
11	1.19 *	2.39 *	2.37 *	2.32 *	2.23 *	2.12 *	1.99 *	1.85 *	1.71 *	1.93 *
9	1.27 *	2.55 *	2.53 *	2.47 *	2.38 *	2.27 *	2.13 *	1.98 *	1.82 *	2.04 *
7	1.34 *	2.68 *	2.66 *	2.60 *	2.51 *	2.39 *	2.25 *	2.09 *	1.92 *	2.15 *
5	1.39 *	2.78 *	2.75 *	2.69 *	2.61 *	2.49 *	2.35 *	2.18 *	2.00 *	2.24 *
3	1.43 *	2.85 *	2.82 *	2.77 *	2.68 *	2.56 *	2.42 *	2.25 *	2.07 *	2.32 *
1	1.45 *	2.89 *	2.86 *	2.81 *	2.73 *	2.61 *	2.47 *	2.30 *	2.12 *	2.37 *
0	0.73 *	1.45 *	1.44 *	1.42 *	1.38 *	1.32 *	1.25 *	1.16 *	1.07 *	1.20 *
-1	0.73 *	1.46 *	1.45 *	1.42 *	1.38 *	1.32 *	1.25 *	1.17 *	1.07 *	1.20 *
	1.46 *	2.91 *	2.89 *	2.84 *	2.76 *	2.64 *	2.50 *	2.33 *	2.14 *	2.40 *

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-3	1.45 *	2.89 *	2.87 *	2.82 *	2.73 *	2.62 *	2.47 *	2.30 *	2.12 *	2.37 *
-5	1.44 *	2.86 *	2.83 *	2.77 *	2.69 *	2.57 *	2.43 *	2.26 *	2.07 *	2.32 *
-7	1.41 *	2.80 *	2.76 *	2.70 *	2.62 *	2.50 *	2.35 *	2.19 *	2.01 *	2.25 *
-9	1.37 *	2.72 *	2.67 *	2.61 *	2.52 *	2.40 *	2.26 *	2.09 *	1.92 *	2.16 *
-11	1.32 *	2.61 *	2.55 *	2.48 *	2.39 *	2.28 *	2.14 *	1.98 *	1.82 *	2.05 *
-13	1.25 *	2.47 *	2.41 *	2.34 *	2.25 *	2.13 *	2.00 *	1.86 *	1.71 *	1.93 *
-15	1.17 *	2.30 *	2.25 *	2.18 *	2.09 *	1.98 *	1.86 *	1.73 *	1.60 *	1.81 *
-17	1.33 *	2.63 *	2.57 *	2.48 *	2.38 *	2.26 *	2.13 *	1.98 *	1.83 *	2.08 *
-19.5	1.41 *	2.78 *	2.72 *	2.63 *	2.52 *	2.39 *	2.26 *	2.11 *	1.96 *	2.23 *
-22.5	1.21 *	2.39 *	2.34 *	2.26 *	2.17 *	2.07 *	1.96 *	1.84 *	1.71 *	1.95 *
-25.5	1.18 *	2.34 *	2.29 *	2.22 *	2.14 *	2.04 *	1.93 *	1.81 *	1.69 *	1.93 *
-29	1.08 *	2.15 *	2.10 *	2.04 *	1.97 *	1.88 *	1.78 *	1.67 *	1.56 *	1.78 *
-33	0.92 *	1.82 *	1.79 *	1.74 *	1.67 *	1.59 *	1.51 *	1.42 *	1.32 *	1.52 *
-37.5	0.71 *	1.41 *	1.38 *	1.34 *	1.30 *	1.24 *	1.18 *	1.10 *	1.03 *	1.19 *
-42.5	0.46 *	0.92 *	0.90 *	0.88 *	0.85 *	0.82 *	0.79 *	0.75 *	0.70 *	0.82
-47.5	0.42	0.84	0.83	0.82	0.80	0.78	0.75	0.72	0.69	0.81
-55	0.29	0.57	0.57	0.56	0.55	0.54	0.52	0.50	0.49	0.58
-65	0.11	0.21	0.21	0.21	0.21	0.20	0.20	0.19	0.18	0.22
-75	0.03	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.05
-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	38.25	76.24	75.30	73.64	71.24	68.15	64.45	60.28	55.81	63.30

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	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00
65	0.17	0.17	0.18	0.19	0.16	0.12	0.08	0.06	0.02	0.00
55	0.45	0.42	0.44	0.44	0.40	0.34	0.22	0.17	0.06	0.00

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

47.5										
	0.56	0.51	0.52	0.50	0.47	0.41	0.29	0.23	0.09	0.01
42.5	0.88	0.80	0.81	0.75	0.67	0.57	0.42	0.36	0.16	0.02
37.5	1.25 *	1.11 *	1.12 *	1.03	0.86	0.70	0.50	0.44	0.21	0.03
33	1.61 *	1.39 *	1.38 *	1.25 *	1.03	0.80	0.55	0.49	0.24	0.04
29	1.82 *	1.56 *	1.52 *	1.36 *	1.12 *	0.86	0.58	0.50	0.24	0.04
25.5	1.87 *	1.60 *	1.55 *	1.38 *	1.13 *	0.86 *	0.57	0.48	0.24	0.04
22.5	2.16 *	1.85 *	1.78 *	1.58 *	1.29 *	0.97 *	0.63	0.53	0.26	0.05
19.5	2.02 *	1.73 *	1.66 *	1.47 *	1.19 *	0.88 *	0.57	0.47	0.23	0.04
17	1.77 *	1.51 *	1.44 *	1.28 *	1.03 *	0.76 *	0.48	0.40	0.20	0.04
15	1.89 *	1.61 *	1.54 *	1.36 *	1.09 *	0.80 *	0.50	0.42	0.21	0.04
13	2.01 *	1.71 *	1.63 *	1.44 *	1.15 *	0.84 *	0.52 *	0.43	0.21	0.04
11	2.13 *	1.80 *	1.72 *	1.51 *	1.21 *	0.88 *	0.54 *	0.44	0.22	0.04
9	2.23 *	1.88 *	1.79 *	1.57 *	1.26 *	0.91 *	0.56 *	0.45	0.23	0.04
7	2.32 *	1.95 *	1.85 *	1.63 *	1.30 *	0.93 *	0.57 *	0.46	0.23	0.05
5	2.39 *	2.01 *	1.90 *	1.67 *	1.33 *	0.95 *	0.58 *	0.47	0.24	0.05
3	2.45 *	2.05 *	1.94 *	1.70 *	1.35 *	0.97 *	0.59 *	0.47	0.24	0.05
1	1.24 *	1.03 *	0.98 *	0.86 *	0.68 *	0.49 *	0.29 *	0.24	0.12	0.02
0	1.24 *	1.04 *	0.98 *	0.86 *	0.68 *	0.49 *	0.29 *	0.24	0.12	0.02
-1	2.47 *	2.06 *	1.95 *	1.71 *	1.36 *	0.97 *	0.59 *	0.48	0.24	0.05
-3	2.45 *	2.04 *	1.93 *	1.69 *	1.35 *	0.96 *	0.58 *	0.47	0.24	0.05
-5	2.40 *	2.00 *	1.90 *	1.66 *	1.32 *	0.95 *	0.58 *	0.47	0.24	0.05
-7	2.33 *	1.95 *	1.84 *	1.62 *	1.29 *	0.93 *	0.57 *	0.46	0.24	0.05
-9	2.23 *	1.87 *	1.78 *	1.56 *	1.25 *	0.90 *	0.55 *	0.46	0.24	0.05
-11	2.13 *	1.79 *	1.71 *	1.50 *	1.20 *	0.87 *	0.54 *	0.45	0.24	0.05
-13	2.01 *	1.70 *	1.63 *	1.43 *	1.15 *	0.83 *	0.52 *	0.44	0.23	0.05
-15	1.89 *	1.60 *	1.53 *	1.35 *	1.09 *	0.79 *	0.50	0.42	0.23	0.05
-17	2.18 *	1.86 *	1.78 *	1.57 *	1.26 *	0.93 *	0.59	0.51	0.28	0.06
-19.5	2.35 *	2.01 *	1.93 *	1.70 *	1.38 *	1.02 *	0.66	0.58	0.32	0.07

IES FLOOD REPORT
PHOTOMETRIC FILENAME : TSFL-LED-02L-30.IES

LUMENS TABULATION - (Cont.)

-22.5	2.06 *	1.76 *	1.69 *	1.50 *	1.22 *	0.92 *	0.61	0.55	0.30	0.06
-25.5	2.04 *	1.74 *	1.68 *	1.50 *	1.24 *	0.96	0.65	0.59	0.33	0.07
-29	1.88 *	1.61 *	1.56 *	1.41 *	1.19 *	0.95	0.66	0.61	0.34	0.07
-33	1.61 *	1.39 *	1.36 *	1.25 *	1.09	0.90	0.64	0.61	0.34	0.07
-37.5	1.28 *	1.13 *	1.13	1.07	0.97	0.82	0.60	0.57	0.32	0.06
-42.5	0.90	0.81	0.83	0.81	0.76	0.66	0.49	0.46	0.25	0.05
-47.5	0.91	0.83	0.87	0.87	0.82	0.73	0.54	0.49	0.27	0.05
-55	0.65	0.61	0.64	0.65	0.62	0.55	0.40	0.37	0.19	0.03
-65	0.25	0.23	0.24	0.25	0.23	0.21	0.15	0.13	0.06	0.01
-75	0.06	0.05	0.06	0.06	0.05	0.04	0.03	0.02	0.01	0.00
-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	66.57	56.78	54.81	48.99	40.24	30.41	19.76	16.90	8.64	1.64

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	0.10	
65	0.00	0.00	2.38	
55	0.00	0.00	6.39	
47.5	0.00	0.00	7.91	
42.5	0.00	0.00	12.55	
37.5	0.00	0.00	18.42	
33	0.00	0.00	23.78	
29	0.00	0.00	26.52	
25.5	0.00	0.00	27.13	
22.5	0.00	0.00	31.45	
19.5	0.00	0.00	29.66	
17	0.00	0.00	26.06	

IES FLOOD REPORT
PHOTOMETRIC FILENAME : TSFL-LED-02L-30.IES

LUMENS TABULATION - (Cont.)

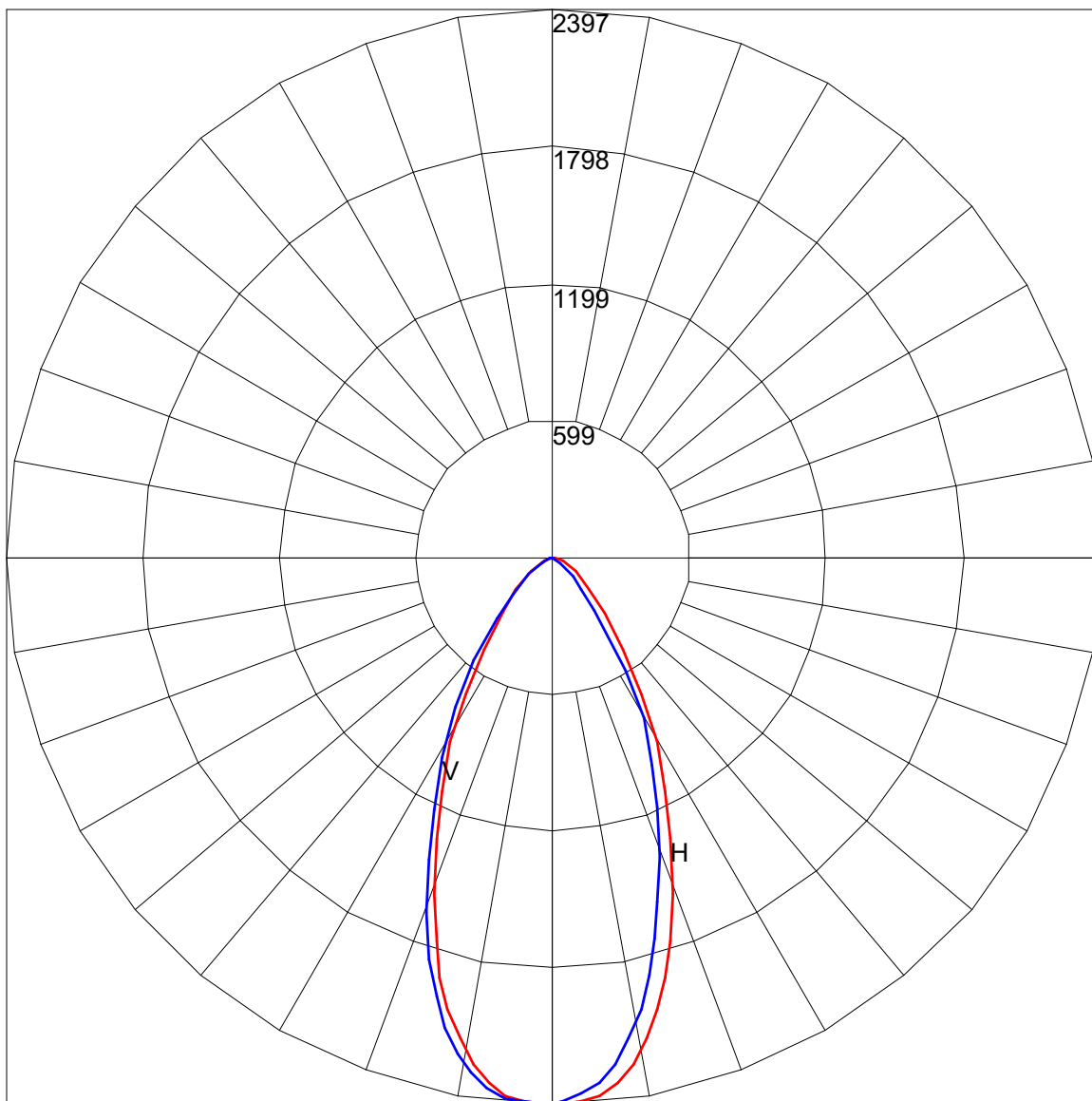
15	0.00	0.00	28.12
13	0.00	0.00	30.10
11	0.00	0.00	31.91
9	0.00	0.00	33.49
7	0.00	0.00	34.77
5	0.00	0.00	35.74
3	0.00	0.00	36.41
1	0.00	0.00	18.37
0	0.00	0.00	18.41
-1	0.00	0.00	36.74
-3	0.00	0.00	36.42
-5	0.00	0.00	35.80
-7	0.00	0.00	34.87
-9	0.00	0.00	33.62
-11	0.00	0.00	32.09
-13	0.00	0.00	30.34
-15	0.00	0.00	28.42
-17	0.00	0.00	32.68
-19.5	0.00	0.00	35.02
-22.5	0.00	0.00	30.56
-25.5	0.00	0.00	30.36
-29	0.00	0.00	28.27
-33	0.00	0.00	24.56
-37.5	0.00	0.00	19.85
-42.5	0.00	0.00	13.93
-47.5	0.00	0.00	13.86
-55	0.00	0.00	9.87
-65	0.00	0.00	3.70

IES FLOOD REPORT
PHOTOMETRIC FILENAME : TSFL-LED-02L-30.IES

LUMENS TABULATION - (Cont.)

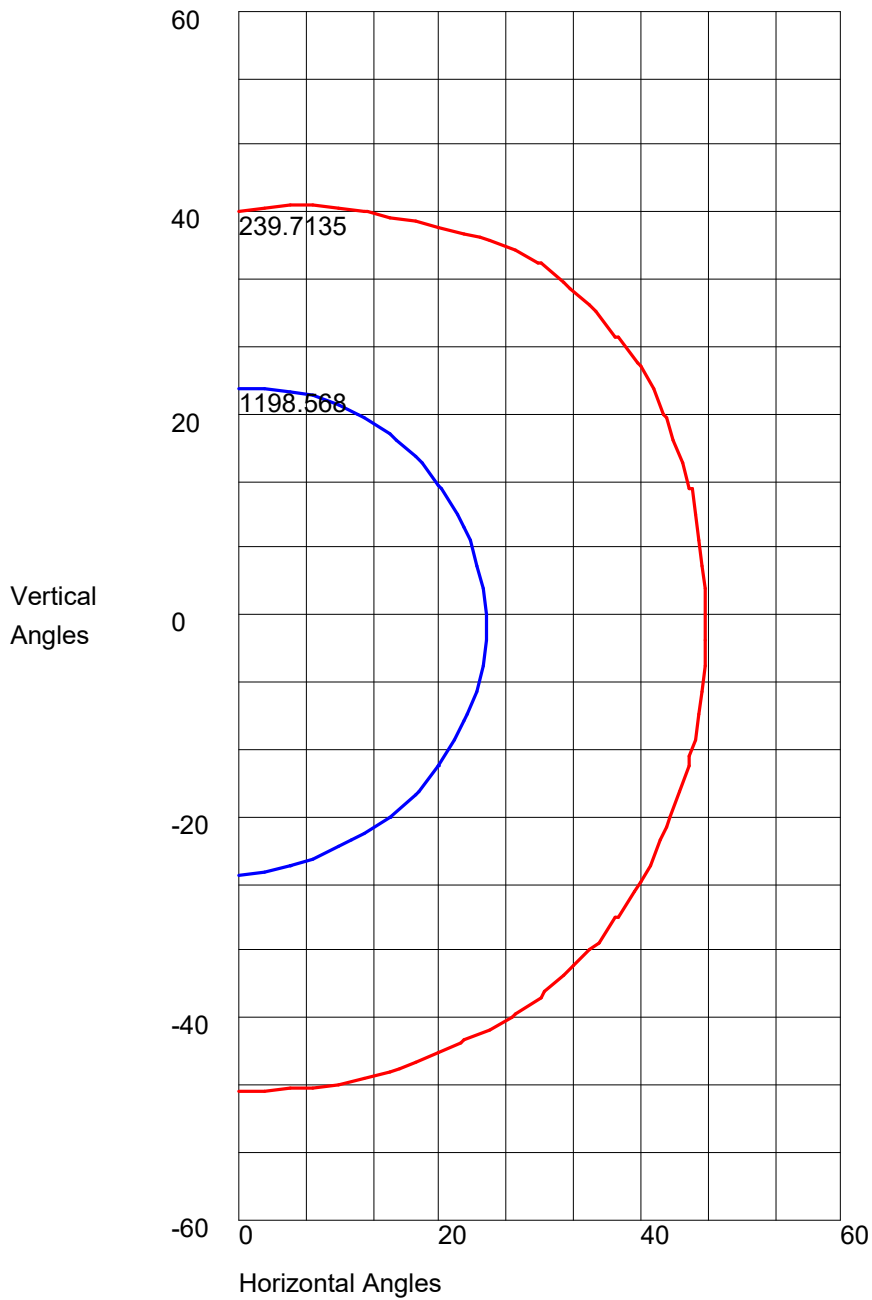
-75	0.00	0.00	0.85
-85	0.00	0.00	0.01
-90			
Total	0.07	0.00	991.48

AXIAL CANDELA DISPLAY



Maximum Candela = 2397.135 Located At Horizontal Angle = 0, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 2397.135 Located At Horizontal Angle = 0, Vertical Angle = 0
50% Maximum Candela = 1198.5675
10% Maximum Candela = 239.7135