

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P155625

Luminaire Tested: **TLM-F06-LED-E1-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P155625  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33672)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TLM-F06-LED-E1-T3  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3  
Light Source: (42) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

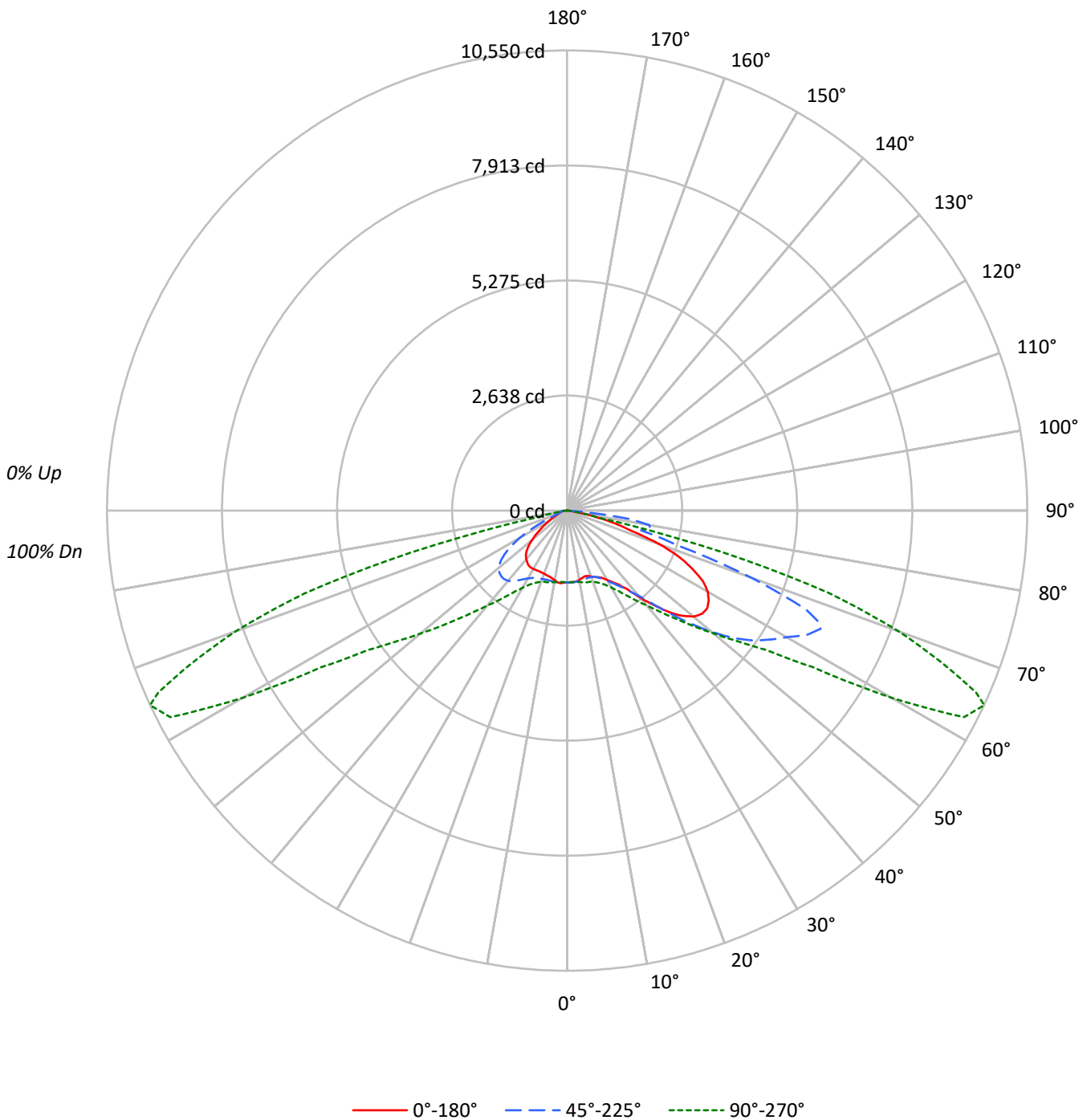
Lumens per Lamp: N/A  
Luminaire Lumens: 15275.1 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Spacing Criteria (0/90/45): 1.97 / 4.22 / 2.62  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
CIE Type: Direct

Input Watts (W): 156.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P155625  
CATALOG NUMBER: TLM-F06-LED-E1-T3

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	105	99	94	89	102	97	92	87	92	88	84	88	85	82	85	82	79	77
2	92	82	73	65	89	80	71	64	76	69	63	72	66	61	69	64	60	57
3	81	68	57	49	79	66	56	49	63	55	48	60	53	47	57	51	46	43
4	73	57	46	38	70	56	46	38	53	44	37	51	43	36	48	41	36	33
5	65	49	38	30	63	48	38	30	46	37	29	44	35	29	42	34	29	26
6	59	43	32	24	57	42	32	24	40	31	24	38	30	24	36	29	23	21
7	54	38	28	20	52	37	27	20	35	27	20	34	26	20	32	25	20	17
8	50	34	24	17	48	33	24	17	32	23	17	30	23	17	29	22	17	14
9	46	31	21	15	45	30	21	15	29	20	15	28	20	15	27	20	14	12
10	43	28	19	13	42	27	19	13	26	18	13	25	18	13	24	18	13	11

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	17718	17718	17718
5°	17786	17768	18054
10°	17631	18172	17739
15°	17368	18969	17479
20°	18440	19915	17645
25°	20001	21845	18197
30°	22799	25405	19228
35°	27336	31154	20220
40°	36609	39880	20461
45°	50015	53107	20031
50°	63287	73323	17611
55°	73525	104386	14005
60°	80116	184614	10628
65°	80866	268709	8033
70°	70874	254504	6703
75°	46829	154015	6866
80°	17090	15658	8083
85°	2853	10399	8966



TEST NUMBER: P155625

CATALOG NUMBER: TLM-F06-LED-E1-T3

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.7	1.0
10°-20°	465.3	3.0
20°-30°	799.7	5.2
30°-40°	1298.5	8.5
40°-50°	2167.8	14.2
50°-60°	3413.5	22.3
60°-70°	4654.7	30.5
70°-80°	2015.0	13.2
80°-90°	303.0	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1422.7	9.3
0°-40°	2721.1	17.8
0°-60°	8302.5	54.4
0°-90°	15275.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15275.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1646	1646	1646	1646	1646	
5°	1646	1649	1644	1664	1671	156
15°	1559	1623	1702	1653	1568	448
25°	1684	1694	1839	1707	1532	789
35°	2080	2127	2371	1952	1539	1348
45°	3286	3328	3489	2135	1316	2526
55°	3918	5189	5562	1758	746	3456
65°	3175	6414	10550	618	315	3083
75°	1126	1753	3703	167	165	1204
85°	23	390	84	116	73	61
90°	0	0	0	0	0	



TEST NUMBER: P155625

CATALOG NUMBER: TLM-F06-LED-E1-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1
2.5°	1652.7	1659.3	1652.7	1654.4	1656.0	1654.4	1652.7	1652.7	1647.7	1651.0	1654.4
5°	1646.1	1651.0	1649.4	1651.0	1652.7	1651.0	1649.4	1651.0	1647.7	1649.4	1654.4
7.5°	1637.8	1636.2	1637.8	1641.1	1644.4	1644.4	1644.4	1646.1	1644.4	1644.4	1649.4
10°	1613.1	1614.7	1618.0	1623.0	1624.6	1629.6	1629.6	1634.5	1636.2	1639.5	1646.1
12.5°	1581.7	1583.4	1586.7	1590.0	1598.2	1606.5	1606.5	1618.0	1623.0	1631.2	1642.8
15°	1558.6	1560.2	1563.5	1566.8	1573.5	1581.7	1586.7	1599.9	1608.1	1623.0	1639.5
17.5°	1571.8	1570.1	1573.5	1575.1	1575.1	1581.7	1581.7	1591.6	1601.5	1614.7	1636.2
20°	1609.8	1609.8	1613.1	1613.1	1611.4	1614.7	1608.1	1608.1	1609.8	1616.4	1631.2
22.5°	1647.7	1646.1	1652.7	1656.0	1657.7	1662.6	1656.0	1654.4	1646.1	1641.1	1646.1
25°	1684.1	1682.4	1690.7	1695.6	1703.9	1708.8	1708.8	1708.8	1702.2	1694.0	1689.0
27.5°	1740.2	1740.2	1748.5	1753.4	1760.0	1769.9	1774.9	1774.9	1776.5	1765.0	1756.7
30°	1834.3	1836.0	1837.6	1844.2	1850.8	1854.1	1860.7	1865.7	1870.6	1864.0	1850.8
32.5°	1946.6	1936.7	1936.7	1946.6	1954.8	1964.7	1968.1	1974.7	1984.6	1979.6	1978.0
35°	2080.3	2077.0	2073.7	2077.0	2086.9	2098.5	2111.7	2123.3	2116.6	2126.6	2121.6
37.5°	2278.4	2281.8	2283.4	2283.4	2281.8	2285.1	2291.7	2303.2	2299.9	2303.2	2309.8
40°	2605.4	2593.8	2582.2	2583.9	2567.4	2570.7	2544.3	2555.8	2557.5	2545.9	2550.9
42.5°	2932.3	2938.9	2943.8	2957.0	2945.5	2938.9	2914.1	2914.1	2900.9	2889.3	2886.0
45°	3285.6	3298.8	3300.4	3326.9	3317.0	3338.4	3356.6	3351.6	3330.2	3328.5	3305.4
47.5°	3567.9	3589.4	3612.5	3643.9	3668.6	3716.5	3772.6	3800.7	3817.2	3830.4	3804.0
50°	3779.3	3789.2	3848.6	3898.1	3952.6	4031.9	4109.5	4210.2	4291.1	4329.1	4365.4
52.5°	3893.2	3917.9	3982.3	4059.9	4155.7	4274.6	4400.0	4560.2	4698.9	4791.3	4873.9
55°	3917.9	3942.7	4015.4	4114.4	4244.8	4405.0	4585.0	4802.9	5010.9	5189.2	5362.6
57.5°	3848.6	3876.7	3954.3	4068.2	4221.7	4416.6	4642.8	4928.4	5215.7	5504.6	5760.5
60°	3721.5	3756.1	3827.1	3939.4	4109.5	4329.1	4599.8	4958.1	5361.0	5803.4	6293.8
62.5°	3511.8	3548.1	3614.1	3738.0	3913.0	4155.7	4469.4	4915.2	5484.8	6181.5	7051.6
65°	3175.0	3191.5	3272.4	3397.9	3553.1	3820.5	4165.6	4703.8	5445.2	6414.3	7613.0
66°	3023.1	3051.1	3100.7	3201.4	3350.0	3600.9	3947.7	4494.2	5294.9	6333.4	7598.1
67.5°	2785.3	2806.8	2839.8	2907.5	2998.3	3183.2	3511.8	4028.6	4835.9	5924.0	7282.8
70°	2252.0	2261.9	2306.5	2329.6	2361.0	2422.1	2541.0	2838.2	3467.2	4489.2	5877.7
72.5°	1535.5	1563.5	1611.4	1677.5	1763.3	1845.9	1902.0	1940.0	2075.4	2678.0	3916.3
75°	1126.0	1155.7	1216.8	1304.3	1454.6	1626.3	1804.6	1887.1	1831.0	1753.4	2181.0
77.5°	653.8	693.4	744.6	828.8	967.5	1195.4	1500.8	1771.6	1954.8	1966.4	1867.3
80°	275.7	280.7	312.0	355.0	440.8	601.0	838.7	1228.4	1634.5	1908.6	1973.0
82.5°	62.7	77.6	99.1	117.2	143.6	198.1	293.9	488.7	883.3	1385.2	1806.2
85°	23.1	23.1	31.4	46.2	52.8	59.4	77.6	123.8	211.3	389.6	812.3
87.5°	0.0	1.7	3.3	3.3	6.6	8.3	13.2	18.2	16.5	14.9	49.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P155625

CATALOG NUMBER: TLM-F06-LED-E1-T3

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1
2.5°	1651.0	1649.4	1646.1	1646.1	1646.1	1646.1	1642.8	1644.4	1641.1	1642.8	1642.8
5°	1649.4	1649.4	1647.7	1644.4	1646.1	1646.1	1647.7	1644.4	1644.4	1646.1	1644.4
7.5°	1649.4	1647.7	1647.7	1647.7	1649.4	1647.7	1649.4	1649.4	1649.4	1651.0	1651.0
10°	1649.4	1649.4	1652.7	1654.4	1654.4	1656.0	1661.0	1661.0	1662.6	1664.3	1667.6
12.5°	1651.0	1657.7	1662.6	1667.6	1669.2	1672.5	1680.8	1680.8	1684.1	1689.0	1690.7
15°	1652.7	1662.6	1672.5	1675.8	1679.1	1685.7	1694.0	1697.3	1702.2	1707.2	1710.5
17.5°	1651.0	1664.3	1675.8	1680.8	1685.7	1694.0	1703.9	1707.2	1713.8	1720.4	1727.0
20°	1649.4	1667.6	1685.7	1692.3	1698.9	1710.5	1723.7	1732.0	1738.6	1748.5	1755.1
22.5°	1659.3	1680.8	1705.5	1715.4	1727.0	1741.9	1760.0	1769.9	1778.2	1788.1	1793.0
25°	1690.7	1707.2	1736.9	1753.4	1768.3	1793.0	1817.8	1829.4	1839.3	1847.5	1849.2
27.5°	1743.5	1748.5	1784.8	1806.2	1827.7	1867.3	1897.1	1905.3	1923.5	1930.1	1928.4
30°	1829.4	1821.1	1850.8	1883.8	1915.2	1969.7	2006.0	2027.5	2044.0	2044.0	2030.8
32.5°	1953.2	1940.0	1948.2	1986.2	2022.5	2101.8	2144.7	2172.8	2184.3	2181.0	2153.0
35°	2115.0	2106.7	2101.8	2131.5	2189.3	2281.8	2337.9	2352.7	2370.9	2367.6	2331.3
37.5°	2306.5	2299.9	2299.9	2334.6	2390.7	2527.8	2588.8	2598.8	2597.1	2570.7	2503.0
40°	2532.7	2529.4	2514.5	2534.4	2582.2	2760.6	2843.1	2856.3	2838.2	2795.2	2716.0
42.5°	2858.0	2838.2	2791.9	2803.5	2839.8	3013.2	3120.5	3156.8	3138.6	3095.7	2966.9
45°	3282.3	3260.8	3183.2	3173.3	3193.1	3345.0	3483.7	3492.0	3488.7	3434.2	3282.3
47.5°	3780.9	3747.9	3665.3	3638.9	3632.3	3772.6	3906.4	3919.6	3911.3	3830.4	3627.4
50°	4320.8	4272.9	4218.4	4200.3	4173.9	4274.6	4410.0	4411.6	4378.6	4266.3	4076.4
52.5°	4897.0	4880.5	4870.6	4852.4	4840.9	4928.4	5010.9	4961.4	4911.9	4794.6	4629.5
55°	5478.2	5545.9	5615.2	5621.8	5641.6	5735.7	5734.1	5598.7	5562.4	5498.0	5334.5
57.5°	6095.7	6346.6	6564.6	6632.3	6698.3	6873.3	6856.8	6723.1	6676.8	6597.6	6462.2
60°	6936.1	7613.0	8242.0	8392.3	8496.3	8706.0	8686.2	8479.8	8575.6	8568.9	8393.9
62.5°	8113.3	9239.3	10182.0	10413.2	10485.8	10508.9	10383.5	10160.6	10254.7	10360.3	9822.1
65°	8910.7	10234.9	11202.4	11380.7	11390.6	11114.9	10835.8	10573.3	10550.2	10459.4	9690.0
66°	8928.9	10284.4	11255.2	11428.6	11367.5	10991.0	10637.7	10373.5	10259.6	10059.8	9262.4
67.5°	8608.6	9975.6	11020.8	11204.0	11070.3	10537.0	10049.9	9709.8	9486.9	9163.3	8460.0
70°	7229.9	8585.5	9873.3	10215.0	10258.0	9462.2	8786.9	8387.3	8086.8	7642.7	7036.8
72.5°	5375.8	6600.9	7736.8	8063.7	8230.5	7594.8	7025.2	6721.4	6310.3	5843.1	5412.1
75°	3369.8	4234.9	4996.1	5225.6	5068.7	4576.7	4234.9	4107.8	3703.3	3424.3	3227.8
77.5°	1926.8	2197.5	2258.6	2171.1	1986.2	1520.6	1081.4	800.8	695.1	769.4	848.6
80°	1880.5	1723.7	1373.7	1208.6	1094.6	752.9	442.5	303.8	252.6	259.2	280.7
82.5°	2037.4	2186.0	1799.6	1467.8	1231.7	832.1	459.0	244.4	165.1	194.8	219.6
85°	1324.1	1842.6	1659.3	1398.4	1132.6	711.6	378.1	127.1	84.2	110.6	151.9
87.5°	133.7	146.9	125.5	170.1	127.1	59.4	29.7	18.2	16.5	19.8	29.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P155625

CATALOG NUMBER: TLM-F06-LED-E1-T3

**CANDELA DISTRIBUTION (continued):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1
2.5°	1644.4	1644.4	1646.1	1647.7	1649.4	1651.0	1651.0	1651.0	1651.0	1654.4	1652.7
5°	1647.7	1651.0	1654.4	1656.0	1659.3	1659.3	1664.3	1662.6	1662.6	1667.6	1669.2
7.5°	1654.4	1659.3	1665.9	1664.3	1670.9	1669.2	1672.5	1672.5	1667.6	1669.2	1665.9
10°	1669.2	1675.8	1679.1	1674.2	1675.8	1669.2	1667.6	1659.3	1649.4	1644.4	1637.8
12.5°	1694.0	1700.6	1700.6	1692.3	1682.4	1667.6	1656.0	1637.8	1623.0	1614.7	1606.5
15°	1715.4	1722.0	1720.4	1707.2	1692.3	1669.2	1652.7	1631.2	1609.8	1596.6	1588.3
17.5°	1732.0	1735.3	1730.3	1712.1	1695.6	1674.2	1657.7	1634.5	1609.8	1593.3	1578.4
20°	1756.7	1753.4	1741.9	1718.7	1700.6	1680.8	1667.6	1647.7	1619.7	1598.2	1576.8
22.5°	1793.0	1779.8	1758.4	1733.6	1715.4	1697.3	1684.1	1662.6	1634.5	1608.1	1583.4
25°	1840.9	1814.5	1784.8	1758.4	1741.9	1722.0	1707.2	1684.1	1654.4	1624.6	1594.9
27.5°	1910.3	1864.0	1826.1	1802.9	1784.8	1760.0	1741.9	1712.1	1680.8	1646.1	1613.1
30°	1987.9	1925.1	1888.8	1870.6	1850.8	1824.4	1796.3	1758.4	1722.0	1684.1	1644.4
32.5°	2088.6	2012.6	1978.0	1959.8	1933.4	1900.4	1867.3	1824.4	1773.2	1723.7	1675.8
35°	2220.7	2143.1	2106.7	2078.7	2042.3	1999.4	1951.5	1893.8	1824.4	1758.4	1697.3
37.5°	2362.7	2278.4	2243.8	2214.1	2159.6	2103.4	2035.7	1951.5	1857.4	1769.9	1694.0
40°	2542.6	2465.0	2420.4	2369.3	2304.9	2207.5	2101.8	1979.6	1859.1	1751.8	1662.6
42.5°	2770.5	2692.9	2626.8	2545.9	2433.6	2283.4	2133.2	1974.7	1829.4	1707.2	1611.4
45°	3072.6	2978.5	2864.6	2722.6	2541.0	2331.3	2134.8	1943.3	1773.2	1637.8	1535.5
47.5°	3442.4	3298.8	3112.2	2872.8	2612.0	2344.5	2108.4	1880.5	1685.7	1538.8	1424.9
50°	3881.6	3655.4	3348.3	2996.7	2648.3	2324.7	2042.3	1786.4	1561.9	1405.0	1269.7
52.5°	4383.5	4013.7	3561.3	3085.8	2646.6	2258.6	1930.1	1644.4	1400.1	1225.1	1096.3
55°	4973.0	4423.2	3780.9	3151.9	2600.4	2136.5	1758.4	1444.7	1200.3	1038.5	919.6
57.5°	5836.5	5086.9	4163.9	3254.2	2507.9	1948.2	1525.6	1205.3	990.6	837.1	736.4
60°	7414.9	6194.7	4854.1	3460.6	2366.0	1672.5	1253.1	949.4	769.4	645.6	577.9
62.5°	8603.6	7051.6	5227.2	3414.4	2080.3	1332.4	929.5	691.8	566.3	482.1	439.2
65°	8433.6	6785.8	4829.3	2940.5	1631.2	939.4	617.5	470.5	389.6	350.0	325.3
66°	8048.9	6439.1	4484.3	2646.6	1410.0	780.9	508.5	394.6	335.2	307.1	290.6
67.5°	7319.1	5795.2	3866.8	2169.5	1083.1	566.3	383.0	312.0	272.4	260.9	249.3
70°	6084.1	4621.3	2714.3	1263.1	553.1	315.4	242.7	217.9	208.0	206.4	203.1
72.5°	4662.6	3270.7	1598.2	597.7	287.3	209.7	188.2	180.0	176.7	176.7	178.3
75°	2858.0	1837.6	706.6	292.2	201.4	176.7	166.8	163.5	161.8	163.5	161.8
77.5°	954.3	584.5	302.1	221.2	183.3	163.5	156.8	153.5	153.5	153.5	153.5
80°	292.2	254.3	231.1	204.7	173.4	155.2	145.3	143.6	145.3	146.9	142.0
82.5°	219.6	208.0	194.8	181.6	156.8	138.7	135.4	135.4	135.4	130.4	123.8
85°	161.8	160.2	132.1	123.8	115.6	115.6	115.6	115.6	110.6	102.4	95.8
87.5°	29.7	28.1	29.7	31.4	46.2	49.5	49.5	52.8	57.8	54.5	54.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





TEST NUMBER: P155625

CATALOG NUMBER: TLM-F06-LED-E1-T3

**CANDELA DISTRIBUTION (continued):**

	160°	165°	170°	175°	180°
0°	1646.1	1646.1	1646.1	1646.1	1646.1
2.5°	1652.7	1651.0	1656.0	1652.7	1654.4
5°	1667.6	1665.9	1669.2	1665.9	1670.9
7.5°	1662.6	1659.3	1657.7	1659.3	1661.0
10°	1627.9	1624.6	1623.0	1621.3	1623.0
12.5°	1598.2	1591.6	1591.6	1588.3	1590.0
15°	1576.8	1571.8	1570.1	1566.8	1568.5
17.5°	1566.8	1558.6	1555.3	1552.0	1552.0
20°	1560.2	1550.3	1545.4	1542.1	1540.4
22.5°	1560.2	1545.4	1538.8	1535.5	1533.8
25°	1566.8	1548.7	1538.8	1533.8	1532.2
27.5°	1580.1	1556.9	1545.4	1538.8	1538.8
30°	1603.2	1573.5	1556.9	1548.7	1547.0
32.5°	1626.3	1586.7	1563.5	1553.6	1550.3
35°	1637.8	1586.7	1558.6	1542.1	1538.8
37.5°	1624.6	1565.2	1530.5	1505.8	1500.8
40°	1583.4	1520.6	1482.6	1459.5	1456.2
42.5°	1528.9	1467.8	1423.2	1406.7	1401.7
45°	1454.6	1381.9	1337.4	1314.2	1315.9
47.5°	1327.4	1253.1	1213.5	1192.1	1195.4
50°	1177.2	1104.6	1069.9	1046.8	1051.7
52.5°	1012.1	946.1	913.0	901.5	898.2
55°	838.7	787.6	764.4	751.2	746.3
57.5°	680.2	643.9	627.4	610.9	612.5
60°	536.6	518.4	513.5	495.3	493.7
62.5°	422.7	411.1	406.2	392.9	394.6
65°	320.3	317.0	320.3	312.0	315.4
66°	288.9	290.6	290.6	285.6	288.9
67.5°	249.3	252.6	257.6	252.6	255.9
70°	206.4	209.7	213.0	213.0	213.0
72.5°	180.0	183.3	184.9	184.9	184.9
75°	165.1	166.8	168.4	165.1	165.1
77.5°	155.2	155.2	151.9	150.2	148.6
80°	140.3	138.7	133.7	130.4	130.4
82.5°	117.2	113.9	110.6	105.7	105.7
85°	89.2	85.9	82.6	75.9	72.6
87.5°	46.2	47.9	46.2	38.0	33.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)