

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: P155626

Luminaire Tested: **TLM-F06-LED-E1-T3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P155626
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-T3-7050
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15673.9 lumens
Efficiency: N/A
Efficacy: 100.2 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

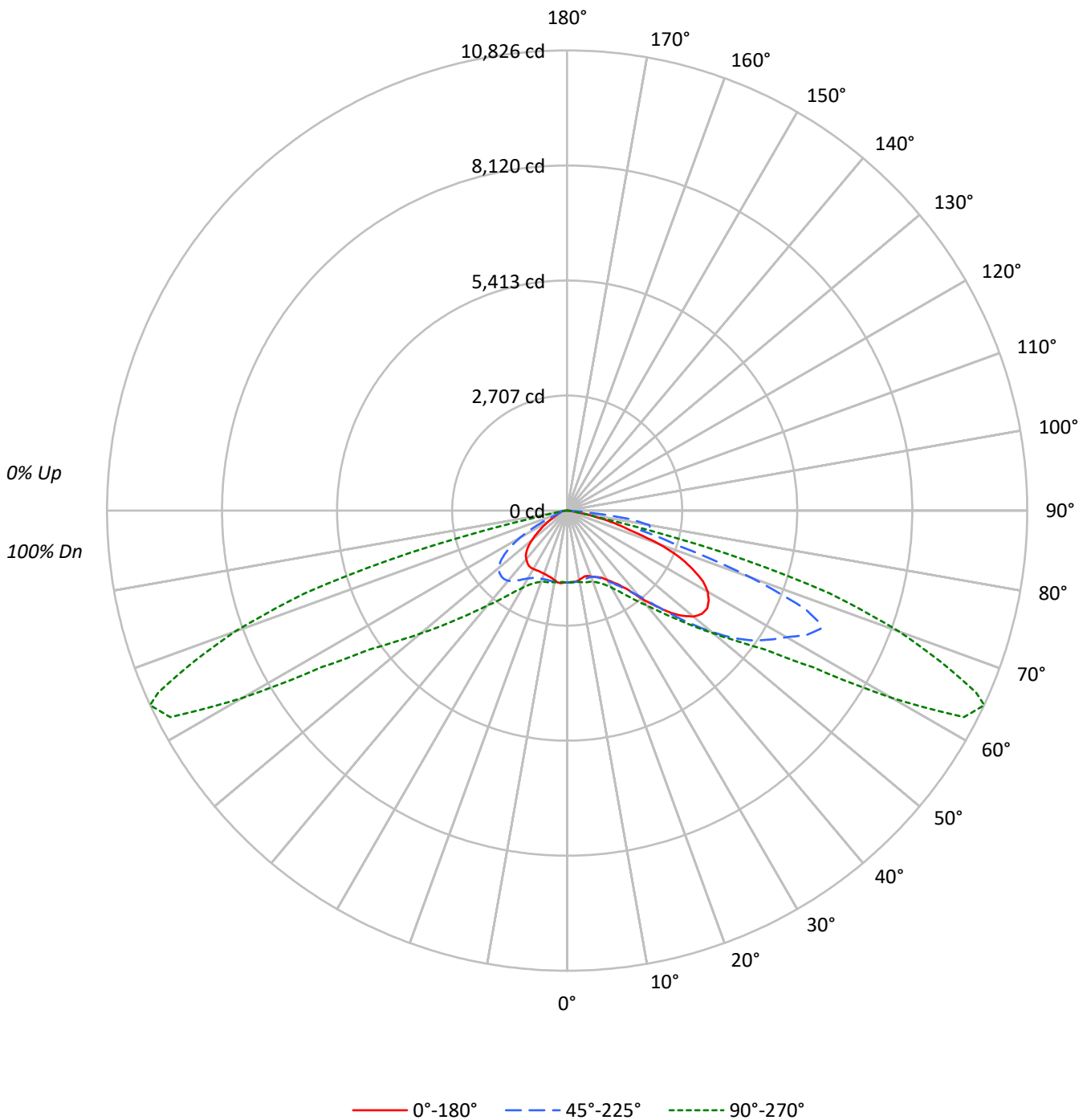
Input Watts (W): 156.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: TLM-F06-LED-E1-T3-7050

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°	18181	18181	18181
5°	18251	18232	18525
10°	18091	18647	18203
15°	17822	19465	17935
20°	18921	20434	18105
25°	20523	22415	18672
30°	23394	26069	19730
35°	28049	31968	20747
40°	37565	40920	20995
45°	51321	54492	20553
50°	64938	75237	18072
55°	75444	107111	14371
60°	82206	189432	10906
65°	82977	275724	8242
70°	72725	261151	6877
75°	48051	158037	7045
80°	17536	16067	8294
85°	2927	10671	9201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.8	1.0
10°-20°	477.4	3.0
20°-30°	820.6	5.2
30°-40°	1332.4	8.5
40°-50°	2224.4	14.2
50°-60°	3502.6	22.3
60°-70°	4776.2	30.5
70°-80°	2067.6	13.2
80°-90°	310.9	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°	1459.8	9.3
0°-40°	2792.2	17.8
0°-60°	8519.2	54.4
0°-90°	15673.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15673.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1689	1689	1689	1689	1689	
5°	1689	1692	1687	1708	1714	160
15°	1599	1665	1747	1696	1609	460
25°	1728	1738	1887	1752	1572	810
35°	2135	2182	2433	2002	1579	1383
45°	3371	3415	3580	2190	1350	2591
55°	4020	5325	5708	1804	766	3546
65°	3258	6582	10826	634	324	3163
75°	1155	1799	3800	171	169	1235
85°	24	400	86	119	74	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1
2.5°	1695.8	1702.6	1695.8	1697.5	1699.2	1697.5	1695.8	1695.8	1690.8	1694.2	1697.5
5°	1689.1	1694.2	1692.5	1694.2	1695.8	1694.2	1692.5	1694.2	1690.8	1692.5	1697.5
7.5°	1680.6	1678.9	1680.6	1684.0	1687.4	1687.4	1687.4	1689.1	1687.4	1687.4	1692.5
10°	1655.2	1656.9	1660.3	1665.4	1667.0	1672.1	1672.1	1677.2	1678.9	1682.3	1689.1
12.5°	1623.0	1624.7	1628.1	1631.5	1639.9	1648.4	1648.4	1660.3	1665.4	1673.8	1685.7
15°	1599.3	1601.0	1604.4	1607.7	1614.5	1623.0	1628.1	1641.6	1650.1	1665.4	1682.3
17.5°	1612.8	1611.1	1614.5	1616.2	1616.2	1623.0	1623.0	1633.2	1643.3	1656.9	1678.9
20°	1651.8	1651.8	1655.2	1655.2	1653.5	1656.9	1650.1	1650.1	1651.8	1658.6	1673.8
22.5°	1690.8	1689.1	1695.8	1699.2	1700.9	1706.0	1699.2	1697.5	1689.1	1684.0	1689.1
25°	1728.0	1726.3	1734.8	1739.9	1748.4	1753.4	1753.4	1753.4	1746.7	1738.2	1733.1
27.5°	1785.6	1785.6	1794.1	1799.2	1806.0	1816.1	1821.2	1821.2	1822.9	1811.0	1802.6
30°	1882.2	1883.9	1885.6	1892.4	1899.1	1902.5	1909.3	1914.4	1919.5	1912.7	1899.1
32.5°	1997.4	1987.2	1987.2	1997.4	2005.9	2016.0	2019.4	2026.2	2036.4	2031.3	2029.6
35°	2134.6	2131.2	2127.9	2131.2	2141.4	2153.3	2166.8	2178.7	2171.9	2182.1	2177.0
37.5°	2337.9	2341.3	2343.0	2343.0	2341.3	2344.7	2351.5	2363.3	2360.0	2363.3	2370.1
40°	2673.4	2661.5	2649.7	2651.3	2634.4	2637.8	2610.7	2622.5	2624.2	2612.4	2617.5
42.5°	3008.8	3015.6	3020.7	3034.2	3022.4	3015.6	2990.2	2990.2	2976.6	2964.8	2961.4
45°	3371.4	3384.9	3386.6	3413.7	3403.5	3425.6	3444.2	3439.1	3417.1	3415.4	3391.7
47.5°	3661.1	3683.1	3706.8	3739.0	3764.4	3813.5	3871.1	3899.9	3916.9	3930.4	3903.3
50°	3877.9	3888.1	3949.1	3999.9	4055.8	4137.1	4216.7	4320.1	4403.1	4442.1	4479.3
52.5°	3994.8	4020.2	4086.3	4165.9	4264.2	4386.2	4514.9	4679.2	4821.6	4916.4	5001.1
55°	4020.2	4045.6	4120.2	4221.8	4355.7	4520.0	4704.7	4928.3	5141.7	5324.7	5502.6
57.5°	3949.1	3977.9	4057.5	4174.4	4331.9	4531.9	4764.0	5057.0	5351.8	5648.3	5910.9
60°	3818.6	3854.2	3927.0	4042.2	4216.7	4442.1	4719.9	5087.5	5500.9	5954.9	6458.1
62.5°	3603.5	3640.7	3708.5	3835.6	4015.1	4264.2	4586.1	5043.5	5628.0	6342.9	7235.7
65°	3257.9	3274.8	3357.8	3486.6	3645.8	3920.3	4274.3	4826.6	5587.3	6581.8	7811.7
66°	3102.0	3130.8	3181.6	3285.0	3437.4	3694.9	4050.7	4611.5	5433.1	6498.8	7796.5
67.5°	2858.0	2880.1	2913.9	2983.4	3076.6	3266.3	3603.5	4133.7	4962.2	6078.6	7472.9
70°	2310.8	2321.0	2366.7	2390.4	2422.6	2485.3	2607.3	2912.2	3557.7	4606.4	6031.2
72.5°	1575.6	1604.4	1653.5	1721.3	1809.4	1894.1	1951.7	1990.6	2129.5	2747.9	4018.5
75°	1155.4	1185.9	1248.6	1338.4	1492.5	1668.7	1851.7	1936.4	1878.8	1799.2	2238.0
77.5°	670.9	711.5	764.1	850.5	992.8	1226.6	1540.0	1817.8	2005.9	2017.7	1916.1
80°	282.9	288.0	320.2	364.2	452.3	616.7	860.6	1260.4	1677.2	1958.4	2024.5
82.5°	64.4	79.6	101.6	120.3	147.4	203.3	301.6	501.5	906.4	1421.4	1853.4
85°	23.7	23.7	32.2	47.4	54.2	61.0	79.6	127.1	216.9	399.8	833.5
87.5°	0.0	1.7	3.4	3.4	6.8	8.5	13.6	18.6	16.9	15.2	50.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1
2.5°	1694.2	1692.5	1689.1	1689.1	1689.1	1689.1	1685.7	1687.4	1684.0	1685.7	1685.7
5°	1692.5	1692.5	1690.8	1687.4	1689.1	1689.1	1690.8	1687.4	1687.4	1689.1	1687.4
7.5°	1692.5	1690.8	1690.8	1690.8	1692.5	1690.8	1692.5	1692.5	1692.5	1694.2	1694.2
10°	1692.5	1692.5	1695.8	1697.5	1697.5	1699.2	1704.3	1704.3	1706.0	1707.7	1711.1
12.5°	1694.2	1700.9	1706.0	1711.1	1712.8	1716.2	1724.6	1724.6	1728.0	1733.1	1734.8
15°	1695.8	1706.0	1716.2	1719.6	1723.0	1729.7	1738.2	1741.6	1746.7	1751.8	1755.1
17.5°	1694.2	1707.7	1719.6	1724.6	1729.7	1738.2	1748.4	1751.8	1758.5	1765.3	1772.1
20°	1692.5	1711.1	1729.7	1736.5	1743.3	1755.1	1768.7	1777.2	1783.9	1794.1	1800.9
22.5°	1702.6	1724.6	1750.1	1760.2	1772.1	1787.3	1806.0	1816.1	1824.6	1834.8	1839.8
25°	1734.8	1751.8	1782.2	1799.2	1814.4	1839.8	1865.3	1877.1	1887.3	1895.8	1897.4
27.5°	1789.0	1794.1	1831.4	1853.4	1875.4	1916.1	1946.6	1955.1	1973.7	1980.5	1978.8
30°	1877.1	1868.6	1899.1	1933.0	1965.2	2021.1	2058.4	2080.4	2097.4	2097.4	2083.8
32.5°	2004.2	1990.6	1999.1	2038.1	2075.3	2156.7	2200.7	2229.5	2241.4	2238.0	2209.2
35°	2170.2	2161.7	2156.7	2187.1	2246.4	2341.3	2398.9	2414.2	2432.8	2429.4	2392.1
37.5°	2366.7	2360.0	2360.0	2395.5	2453.1	2593.7	2656.4	2666.6	2664.9	2637.8	2568.3
40°	2598.8	2595.4	2580.2	2600.5	2649.7	2832.6	2917.3	2930.9	2912.2	2868.2	2786.9
42.5°	2932.6	2912.2	2864.8	2876.7	2913.9	3091.8	3201.9	3239.2	3220.6	3176.5	3044.4
45°	3368.0	3345.9	3266.3	3256.2	3276.5	3432.4	3574.7	3583.1	3579.7	3523.8	3368.0
47.5°	3879.6	3845.7	3761.0	3733.9	3727.1	3871.1	4008.4	4021.9	4013.4	3930.4	3722.1
50°	4433.6	4384.5	4328.6	4309.9	4282.8	4386.2	4525.1	4526.8	4492.9	4377.7	4182.9
52.5°	5024.9	5007.9	4997.7	4979.1	4967.3	5057.0	5141.7	5090.9	5040.1	4919.8	4750.4
55°	5621.2	5690.7	5761.8	5768.6	5788.9	5885.5	5883.8	5744.9	5707.6	5641.5	5473.8
57.5°	6254.8	6512.3	6735.9	6805.4	6873.2	7052.8	7035.8	6898.6	6851.1	6769.8	6630.9
60°	7117.1	7811.7	8457.2	8611.4	8718.1	8933.3	8912.9	8701.2	8799.4	8792.6	8613.1
62.5°	8325.1	9480.5	10447.8	10685.0	10759.6	10783.3	10654.5	10425.8	10522.4	10630.8	10078.5
65°	9143.3	10502.0	11494.8	11677.8	11687.9	11405.0	11118.7	10849.3	10825.6	10732.4	9943.0
66°	9162.0	10552.9	11549.0	11726.9	11664.2	11278.0	10915.4	10644.4	10527.5	10322.5	9504.2
67.5°	8833.3	10236.1	11308.5	11496.5	11359.3	10812.1	10312.3	9963.3	9734.6	9402.5	8680.8
70°	7418.7	8809.6	10131.0	10481.7	10525.8	9709.2	9016.3	8606.3	8298.0	7842.2	7220.5
72.5°	5516.2	6773.2	7938.8	8274.2	8445.3	7793.1	7208.6	6896.9	6475.0	5995.6	5553.4
75°	3457.8	4345.5	5126.5	5362.0	5201.0	4696.2	4345.5	4215.0	3800.0	3513.7	3312.1
77.5°	1977.1	2254.9	2317.6	2227.8	2038.1	1560.3	1109.7	821.7	713.2	789.5	870.8
80°	1929.6	1768.7	1409.5	1240.1	1123.2	772.5	454.0	311.7	259.2	266.0	288.0
82.5°	2090.6	2243.1	1846.6	1506.1	1263.8	853.9	471.0	250.7	169.4	199.9	225.3
85°	1358.7	1890.7	1702.6	1434.9	1162.2	730.2	388.0	130.4	86.4	113.5	155.9
87.5°	137.2	150.8	128.8	174.5	130.4	61.0	30.5	18.6	16.9	20.3	30.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1
2.5°	1687.4	1687.4	1689.1	1690.8	1692.5	1694.2	1694.2	1694.2	1694.2	1697.5	1695.8
5°	1690.8	1694.2	1697.5	1699.2	1702.6	1702.6	1707.7	1706.0	1706.0	1711.1	1712.8
7.5°	1697.5	1702.6	1709.4	1707.7	1714.5	1712.8	1716.2	1716.2	1711.1	1712.8	1709.4
10°	1712.8	1719.6	1723.0	1717.9	1719.6	1712.8	1711.1	1702.6	1692.5	1687.4	1680.6
12.5°	1738.2	1745.0	1745.0	1736.5	1726.3	1711.1	1699.2	1680.6	1665.4	1656.9	1648.4
15°	1760.2	1767.0	1765.3	1751.8	1736.5	1712.8	1695.8	1673.8	1651.8	1638.2	1629.8
17.5°	1777.2	1780.6	1775.5	1756.8	1739.9	1717.9	1700.9	1677.2	1651.8	1634.9	1619.6
20°	1802.6	1799.2	1787.3	1763.6	1745.0	1724.6	1711.1	1690.8	1662.0	1639.9	1617.9
22.5°	1839.8	1826.3	1804.3	1778.9	1760.2	1741.6	1728.0	1706.0	1677.2	1650.1	1624.7
25°	1889.0	1861.9	1831.4	1804.3	1787.3	1767.0	1751.8	1728.0	1697.5	1667.0	1636.6
27.5°	1960.1	1912.7	1873.7	1850.0	1831.4	1806.0	1787.3	1756.8	1724.6	1689.1	1655.2
30°	2039.8	1975.4	1938.1	1919.5	1899.1	1872.0	1843.2	1804.3	1767.0	1728.0	1687.4
32.5°	2143.1	2065.2	2029.6	2011.0	1983.9	1950.0	1916.1	1872.0	1819.5	1768.7	1719.6
35°	2278.6	2199.0	2161.7	2132.9	2095.7	2051.6	2002.5	1943.2	1872.0	1804.3	1741.6
37.5°	2424.3	2337.9	2302.4	2271.9	2215.9	2158.3	2088.9	2002.5	1905.9	1816.1	1738.2
40°	2609.0	2529.4	2483.6	2431.1	2365.0	2265.1	2156.7	2031.3	1907.6	1797.5	1706.0
42.5°	2842.8	2763.2	2695.4	2612.4	2497.2	2343.0	2188.8	2026.2	1877.1	1751.8	1653.5
45°	3152.8	3056.2	2939.4	2793.7	2607.3	2392.1	2190.5	1994.0	1819.5	1680.6	1575.6
47.5°	3532.3	3384.9	3193.5	2947.8	2680.1	2405.7	2163.4	1929.6	1729.7	1578.9	1462.1
50°	3982.9	3750.9	3435.7	3074.9	2717.4	2385.4	2095.7	1833.1	1602.7	1441.7	1302.8
52.5°	4498.0	4118.5	3654.3	3166.4	2715.7	2317.6	1980.5	1687.4	1436.6	1257.1	1124.9
55°	5102.8	4538.6	3879.6	3234.1	2668.3	2192.2	1804.3	1482.4	1231.6	1065.6	943.6
57.5°	5988.8	5219.7	4272.6	3339.2	2573.4	1999.1	1565.4	1236.7	1016.5	858.9	755.6
60°	7608.4	6356.5	4980.8	3550.9	2427.7	1716.2	1285.9	974.1	789.5	662.4	593.0
62.5°	8828.2	7235.7	5363.7	3503.5	2134.6	1367.2	953.8	709.8	581.1	494.7	450.6
65°	8653.7	6963.0	4955.4	3017.3	1673.8	964.0	633.6	482.8	399.8	359.2	333.7
66°	8259.0	6607.2	4601.3	2715.7	1446.8	801.3	521.8	404.9	343.9	315.1	298.2
67.5°	7510.2	5946.5	3967.7	2226.1	1111.4	581.1	393.0	320.2	279.5	267.7	255.8
70°	6242.9	4741.9	2785.2	1296.0	567.5	323.6	249.0	223.6	213.5	211.8	208.4
72.5°	4784.3	3356.1	1639.9	613.3	294.8	215.2	193.1	184.7	181.3	181.3	183.0
75°	2932.6	1885.6	725.1	299.9	206.7	181.3	171.1	167.7	166.0	167.7	166.0
77.5°	979.2	599.7	310.0	227.0	188.1	167.7	160.9	157.6	157.6	157.6	157.6
80°	299.9	260.9	237.2	210.1	177.9	159.3	149.1	147.4	149.1	150.8	145.7
82.5°	225.3	213.5	199.9	186.4	160.9	142.3	138.9	138.9	138.9	133.8	127.1
85°	166.0	164.3	135.5	127.1	118.6	118.6	118.6	118.6	113.5	105.0	98.3
87.5°	30.5	28.8	30.5	32.2	47.4	50.8	50.8	54.2	59.3	55.9	55.9
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: P155626

CATALOG NUMBER: TLM-F06-LED-E1-T3-7050

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	1689.1	1689.1	1689.1	1689.1	1689.1
2.5°	1695.8	1694.2	1699.2	1695.8	1697.5
5°	1711.1	1709.4	1712.8	1709.4	1714.5
7.5°	1706.0	1702.6	1700.9	1702.6	1704.3
10°	1670.4	1667.0	1665.4	1663.7	1665.4
12.5°	1639.9	1633.2	1633.2	1629.8	1631.5
15°	1617.9	1612.8	1611.1	1607.7	1609.4
17.5°	1607.7	1599.3	1595.9	1592.5	1592.5
20°	1601.0	1590.8	1585.7	1582.3	1580.6
22.5°	1601.0	1585.7	1578.9	1575.6	1573.9
25°	1607.7	1589.1	1578.9	1573.9	1572.2
27.5°	1621.3	1597.6	1585.7	1578.9	1578.9
30°	1645.0	1614.5	1597.6	1589.1	1587.4
32.5°	1668.7	1628.1	1604.4	1594.2	1590.8
35°	1680.6	1628.1	1599.3	1582.3	1578.9
37.5°	1667.0	1606.1	1570.5	1545.1	1540.0
40°	1624.7	1560.3	1521.3	1497.6	1494.2
42.5°	1568.8	1506.1	1460.4	1443.4	1438.3
45°	1492.5	1418.0	1372.3	1348.5	1350.2
47.5°	1362.1	1285.9	1245.2	1223.2	1226.6
50°	1207.9	1133.4	1097.8	1074.1	1079.2
52.5°	1038.5	970.7	936.9	925.0	921.6
55°	860.6	808.1	784.4	770.8	765.8
57.5°	698.0	660.7	643.8	626.8	628.5
60°	550.6	532.0	526.9	508.2	506.6
62.5°	433.7	421.8	416.8	403.2	404.9
65°	328.7	325.3	328.7	320.2	323.6
66°	296.5	298.2	298.2	293.1	296.5
67.5°	255.8	259.2	264.3	259.2	262.6
70°	211.8	215.2	218.5	218.5	218.5
72.5°	184.7	188.1	189.7	189.7	189.7
75°	169.4	171.1	172.8	169.4	169.4
77.5°	159.3	159.3	155.9	154.2	152.5
80°	144.0	142.3	137.2	133.8	133.8
82.5°	120.3	116.9	113.5	108.4	108.4
85°	91.5	88.1	84.7	77.9	74.5
87.5°	47.4	49.1	47.4	39.0	33.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)