

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: P155623

Luminaire Tested: **TLM-F06-LED-E1-T3-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P155623  
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-T3-8030  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3  
Light Source: (42) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12892.1 lumens  
Efficiency: N/A  
Efficacy: 82.4 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

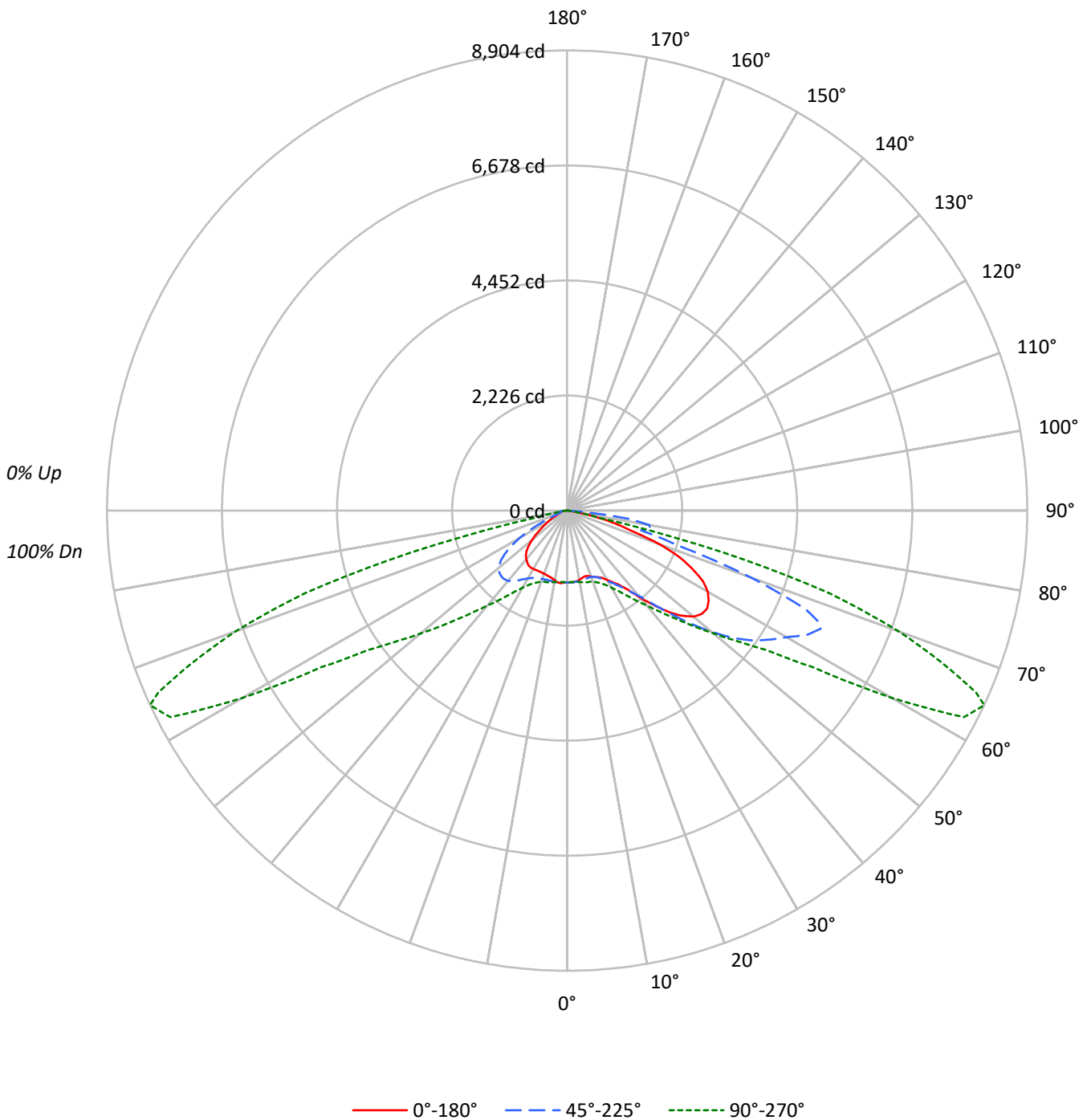
Input Watts (W): 156.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### 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°	14954	14954	14954
5°	15011	14996	15237
10°	14880	15337	14972
15°	14658	16010	14752
20°	15562	16808	14892
25°	16880	18436	15358
30°	19241	21441	16229
35°	23072	26294	17065
40°	30897	33658	17269
45°	42212	44821	16906
50°	53414	61884	14863
55°	62055	88100	11819
60°	67617	155812	8968
65°	68248	226789	6780
70°	59818	214800	5659
75°	39522	129989	5793
80°	14424	13216	6825
85°	2408	8781	7571



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.1	1.0
10°-20°	392.7	3.0
20°-30°	674.9	5.2
30°-40°	1095.9	8.5
40°-50°	1829.6	14.2
50°-60°	2881.0	22.3
60°-70°	3928.5	30.5
70°-80°	1700.6	13.2
80°-90°	255.7	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°	1200.7	9.3
0°-40°	2296.6	17.8
0°-60°	7007.2	54.4
0°-90°	12892.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12892.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1389	1389	1389	1389	1389	
5°	1389	1392	1388	1405	1410	132
15°	1315	1370	1437	1395	1324	378
25°	1421	1430	1552	1441	1293	666
35°	1756	1795	2001	1647	1299	1138
45°	2773	2809	2944	1802	1111	2132
55°	3307	4380	4695	1484	630	2917
65°	2680	5414	8904	521	266	2602
75°	950	1480	3126	141	139	1016
85°	20	329	71	98	61	51
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°	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3
2.5°	1394.9	1400.4	1394.9	1396.3	1397.7	1396.3	1394.9	1394.9	1390.7	1393.5	1396.3
5°	1389.3	1393.5	1392.1	1393.5	1394.9	1393.5	1392.1	1393.5	1390.7	1392.1	1396.3
7.5°	1382.3	1380.9	1382.3	1385.1	1387.9	1387.9	1387.9	1389.3	1387.9	1387.9	1392.1
10°	1361.4	1362.8	1365.6	1369.8	1371.2	1375.4	1375.4	1379.5	1380.9	1383.7	1389.3
12.5°	1334.9	1336.3	1339.1	1341.9	1348.9	1355.8	1355.8	1365.6	1369.8	1376.7	1386.5
15°	1315.4	1316.8	1319.6	1322.4	1328.0	1334.9	1339.1	1350.3	1357.2	1369.8	1383.7
17.5°	1326.6	1325.2	1328.0	1329.4	1329.4	1334.9	1334.9	1343.3	1351.7	1362.8	1380.9
20°	1358.6	1358.6	1361.4	1361.4	1360.0	1362.8	1357.2	1357.2	1358.6	1364.2	1376.7
22.5°	1390.7	1389.3	1394.9	1397.7	1399.0	1403.2	1397.7	1396.3	1389.3	1385.1	1389.3
25°	1421.3	1419.9	1426.9	1431.1	1438.1	1442.2	1442.2	1442.2	1436.7	1429.7	1425.5
27.5°	1468.7	1468.7	1475.7	1479.9	1485.4	1493.8	1498.0	1498.0	1499.4	1489.6	1482.7
30°	1548.1	1549.5	1550.9	1556.5	1562.1	1564.9	1570.4	1574.6	1578.8	1573.2	1562.1
32.5°	1642.9	1634.5	1634.5	1642.9	1649.9	1658.2	1661.0	1666.6	1675.0	1670.8	1669.4
35°	1755.8	1753.0	1750.2	1753.0	1761.3	1771.1	1782.2	1792.0	1786.4	1794.8	1790.6
37.5°	1923.0	1925.8	1927.2	1927.2	1925.8	1928.6	1934.1	1943.9	1941.1	1943.9	1949.5
40°	2198.9	2189.1	2179.4	2180.8	2166.8	2169.6	2147.3	2157.1	2158.5	2148.7	2152.9
42.5°	2474.8	2480.4	2484.6	2495.7	2486.0	2480.4	2459.5	2459.5	2448.3	2438.6	2435.8
45°	2773.0	2784.2	2785.5	2807.8	2799.5	2817.6	2832.9	2828.7	2810.6	2809.2	2789.7
47.5°	3011.3	3029.4	3048.9	3075.4	3096.3	3136.7	3184.1	3207.8	3221.7	3232.9	3210.6
50°	3189.7	3198.0	3248.2	3290.0	3336.0	3402.9	3468.3	3553.4	3621.6	3653.7	3684.3
52.5°	3285.8	3306.7	3361.1	3426.5	3507.4	3607.7	3713.6	3848.8	3965.8	4043.9	4113.5
55°	3306.7	3327.6	3388.9	3472.5	3582.6	3717.8	3869.7	4053.6	4229.2	4379.7	4526.0
57.5°	3248.2	3271.9	3337.4	3433.5	3563.1	3727.5	3918.4	4159.5	4402.0	4645.8	4861.8
60°	3140.9	3170.1	3230.1	3324.8	3468.3	3653.7	3882.2	4184.6	4524.6	4898.1	5311.9
62.5°	2963.9	2994.6	3050.3	3154.8	3302.5	3507.4	3772.1	4148.4	4629.1	5217.2	5951.5
65°	2679.6	2693.6	2761.9	2867.8	2998.7	3224.5	3515.7	3970.0	4595.7	5413.6	6425.3
66°	2551.4	2575.1	2616.9	2701.9	2827.4	3039.2	3331.8	3793.0	4468.9	5345.4	6412.8
67.5°	2350.8	2368.9	2396.8	2453.9	2530.5	2686.6	2963.9	3400.1	4081.5	4999.8	6146.6
70°	1900.7	1909.1	1946.7	1966.2	1992.7	2044.2	2144.6	2395.4	2926.3	3788.8	4960.8
72.5°	1295.9	1319.6	1360.0	1415.8	1488.2	1557.9	1605.3	1637.3	1751.6	2260.2	3305.3
75°	950.3	975.4	1027.0	1100.8	1227.6	1372.6	1523.1	1592.7	1545.4	1479.9	1840.8
77.5°	551.8	585.3	628.5	699.5	816.6	1008.9	1266.7	1495.2	1649.9	1659.6	1576.0
80°	232.7	236.9	263.4	299.6	372.1	507.2	707.9	1036.7	1379.5	1610.9	1665.2
82.5°	53.0	65.5	83.6	98.9	121.2	167.2	248.0	412.5	745.5	1169.1	1524.5
85°	19.5	19.5	26.5	39.0	44.6	50.2	65.5	104.5	178.4	328.9	685.6
87.5°	0.0	1.4	2.8	2.8	5.6	7.0	11.1	15.3	13.9	12.5	41.8
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°	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3
2.5°	1393.5	1392.1	1389.3	1389.3	1389.3	1389.3	1386.5	1387.9	1385.1	1386.5	1386.5
5°	1392.1	1392.1	1390.7	1387.9	1389.3	1389.3	1390.7	1387.9	1387.9	1389.3	1387.9
7.5°	1392.1	1390.7	1390.7	1390.7	1392.1	1390.7	1392.1	1392.1	1392.1	1393.5	1393.5
10°	1392.1	1392.1	1394.9	1396.3	1396.3	1397.7	1401.8	1401.8	1403.2	1404.6	1407.4
12.5°	1393.5	1399.0	1403.2	1407.4	1408.8	1411.6	1418.6	1418.6	1421.3	1425.5	1426.9
15°	1394.9	1403.2	1411.6	1414.4	1417.2	1422.7	1429.7	1432.5	1436.7	1440.8	1443.6
17.5°	1393.5	1404.6	1414.4	1418.6	1422.7	1429.7	1438.1	1440.8	1446.4	1452.0	1457.6
20°	1392.1	1407.4	1422.7	1428.3	1433.9	1443.6	1454.8	1461.8	1467.3	1475.7	1481.3
22.5°	1400.4	1418.6	1439.5	1447.8	1457.6	1470.1	1485.4	1493.8	1500.8	1509.1	1513.3
25°	1426.9	1440.8	1465.9	1479.9	1492.4	1513.3	1534.2	1544.0	1552.3	1559.3	1560.7
27.5°	1471.5	1475.7	1506.3	1524.5	1542.6	1576.0	1601.1	1608.1	1623.4	1629.0	1627.6
30°	1544.0	1537.0	1562.1	1590.0	1616.4	1662.4	1693.1	1711.2	1725.1	1725.1	1714.0
32.5°	1648.5	1637.3	1644.3	1676.3	1707.0	1773.9	1810.1	1833.8	1843.6	1840.8	1817.1
35°	1785.0	1778.1	1773.9	1799.0	1847.7	1925.8	1973.2	1985.7	2001.0	1998.2	1967.6
37.5°	1946.7	1941.1	1941.1	1970.4	2017.7	2133.4	2185.0	2193.3	2191.9	2169.6	2112.5
40°	2137.6	2134.8	2122.3	2139.0	2179.4	2329.9	2399.6	2410.7	2395.4	2359.1	2292.3
42.5°	2412.1	2395.4	2356.4	2366.1	2396.8	2543.1	2633.7	2664.3	2649.0	2612.8	2504.1
45°	2770.2	2752.1	2686.6	2678.3	2695.0	2823.2	2940.2	2947.2	2944.4	2898.4	2770.2
47.5°	3191.0	3163.2	3093.5	3071.2	3065.6	3184.1	3297.0	3308.1	3301.1	3232.9	3061.5
50°	3646.7	3606.3	3560.3	3545.0	3522.7	3607.7	3722.0	3723.4	3695.5	3600.7	3440.5
52.5°	4133.0	4119.1	4110.7	4095.4	4085.7	4159.5	4229.2	4187.4	4145.6	4046.6	3907.3
55°	4623.5	4680.7	4739.2	4744.8	4761.5	4840.9	4839.5	4725.3	4694.6	4640.3	4502.3
57.5°	5144.7	5356.5	5540.4	5597.6	5653.3	5801.0	5787.1	5674.2	5635.2	5568.3	5454.0
60°	5854.0	6425.3	6956.2	7083.0	7170.8	7347.8	7331.1	7156.9	7237.7	7232.1	7084.4
62.5°	6847.5	7797.9	8593.5	8788.6	8849.9	8869.4	8763.5	8575.4	8654.8	8744.0	8289.8
65°	7520.6	8638.1	9454.7	9605.2	9613.6	9380.8	9145.4	8923.8	8904.3	8827.6	8178.3
66°	7535.9	8679.9	9499.3	9645.6	9594.0	9276.3	8978.1	8755.2	8659.0	8490.4	7817.4
67.5°	7265.6	8419.4	9301.4	9456.1	9343.2	8893.1	8482.1	8195.0	8006.9	7733.8	7140.1
70°	6102.0	7246.0	8333.0	8621.4	8657.6	7986.0	7416.1	7078.8	6825.2	6450.4	5939.0
72.5°	4537.1	5571.1	6529.8	6805.7	6946.5	6410.0	5929.2	5672.8	5325.8	4931.5	4567.8
75°	2844.1	3574.3	4216.6	4410.3	4278.0	3862.7	3574.3	3467.0	3125.6	2890.1	2724.2
77.5°	1626.2	1854.7	1906.3	1832.4	1676.3	1283.4	912.7	675.8	586.7	649.4	716.2
80°	1587.2	1454.8	1159.4	1020.0	923.9	635.4	373.5	256.4	213.2	218.8	236.9
82.5°	1719.5	1845.0	1518.9	1238.8	1039.5	702.3	387.4	206.2	139.3	164.4	185.3
85°	1117.6	1555.1	1400.4	1180.3	955.9	600.6	319.1	107.3	71.1	93.4	128.2
87.5°	112.9	124.0	105.9	143.5	107.3	50.2	25.1	15.3	13.9	16.7	25.1
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°	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3
2.5°	1387.9	1387.9	1389.3	1390.7	1392.1	1393.5	1393.5	1393.5	1393.5	1396.3	1394.9
5°	1390.7	1393.5	1396.3	1397.7	1400.4	1400.4	1404.6	1403.2	1403.2	1407.4	1408.8
7.5°	1396.3	1400.4	1406.0	1404.6	1410.2	1408.8	1411.6	1411.6	1407.4	1408.8	1406.0
10°	1408.8	1414.4	1417.2	1413.0	1414.4	1408.8	1407.4	1400.4	1392.1	1387.9	1382.3
12.5°	1429.7	1435.3	1435.3	1428.3	1419.9	1407.4	1397.7	1382.3	1369.8	1362.8	1355.8
15°	1447.8	1453.4	1452.0	1440.8	1428.3	1408.8	1394.9	1376.7	1358.6	1347.5	1340.5
17.5°	1461.8	1464.5	1460.4	1445.0	1431.1	1413.0	1399.0	1379.5	1358.6	1344.7	1332.2
20°	1482.7	1479.9	1470.1	1450.6	1435.3	1418.6	1407.4	1390.7	1367.0	1348.9	1330.8
22.5°	1513.3	1502.2	1484.0	1463.1	1447.8	1432.5	1421.3	1403.2	1379.5	1357.2	1336.3
25°	1553.7	1531.4	1506.3	1484.0	1470.1	1453.4	1440.8	1421.3	1396.3	1371.2	1346.1
27.5°	1612.2	1573.2	1541.2	1521.7	1506.3	1485.4	1470.1	1445.0	1418.6	1389.3	1361.4
30°	1677.7	1624.8	1594.1	1578.8	1562.1	1539.8	1516.1	1484.0	1453.4	1421.3	1387.9
32.5°	1762.7	1698.6	1669.4	1654.1	1631.8	1603.9	1576.0	1539.8	1496.6	1454.8	1414.4
35°	1874.2	1808.7	1778.1	1754.4	1723.7	1687.5	1647.1	1598.3	1539.8	1484.0	1432.5
37.5°	1994.1	1923.0	1893.7	1868.6	1822.7	1775.3	1718.1	1647.1	1567.7	1493.8	1429.7
40°	2145.9	2080.5	2042.8	1999.6	1945.3	1863.1	1773.9	1670.8	1569.0	1478.5	1403.2
42.5°	2338.2	2272.8	2217.0	2148.7	2054.0	1927.2	1800.4	1666.6	1544.0	1440.8	1360.0
45°	2593.2	2513.8	2417.7	2297.8	2144.6	1967.6	1801.8	1640.1	1496.6	1382.3	1295.9
47.5°	2905.4	2784.2	2626.7	2424.6	2204.5	1978.7	1779.5	1587.2	1422.7	1298.7	1202.6
50°	3276.1	3085.1	2826.0	2529.2	2235.1	1962.0	1723.7	1507.7	1318.2	1185.8	1071.6
52.5°	3699.7	3387.5	3005.7	2604.4	2233.7	1906.3	1629.0	1387.9	1181.7	1034.0	925.3
55°	4197.1	3733.1	3191.0	2660.1	2194.7	1803.2	1484.0	1219.3	1013.1	876.5	776.2
57.5°	4925.9	4293.3	3514.3	2746.5	2116.7	1644.3	1287.6	1017.2	836.1	706.5	621.5
60°	6258.1	5228.3	4096.8	2920.7	1996.8	1411.6	1057.6	801.2	649.4	544.8	487.7
62.5°	7261.4	5951.5	4411.7	2881.7	1755.8	1124.5	784.5	583.9	478.0	406.9	370.7
65°	7117.9	5727.2	4075.9	2481.8	1376.7	792.9	521.2	397.1	328.9	295.4	274.5
66°	6793.2	5434.5	3784.7	2233.7	1190.0	659.1	429.2	333.0	282.9	259.2	245.3
67.5°	6177.3	4891.1	3263.5	1831.0	914.1	478.0	323.3	263.4	229.9	220.2	210.4
70°	5134.9	3900.3	2290.9	1066.0	466.8	266.2	204.8	183.9	175.6	174.2	171.4
72.5°	3935.2	2760.5	1348.9	504.4	242.5	177.0	158.9	151.9	149.1	149.1	150.5
75°	2412.1	1550.9	596.4	246.6	170.0	149.1	140.7	138.0	136.6	138.0	136.6
77.5°	805.4	493.3	255.0	186.7	154.7	138.0	132.4	129.6	129.6	129.6	129.6
80°	246.6	214.6	195.1	172.8	146.3	131.0	122.6	121.2	122.6	124.0	119.8
82.5°	185.3	175.6	164.4	153.3	132.4	117.1	114.3	114.3	114.3	110.1	104.5
85°	136.6	135.2	111.5	104.5	97.5	97.5	97.5	97.5	93.4	86.4	80.8
87.5°	25.1	23.7	25.1	26.5	39.0	41.8	41.8	44.6	48.8	46.0	46.0
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: P155623

CATALOG NUMBER: TLM-F06-LED-E1-T3-8030

**CANDELA DISTRIBUTION (continued):**

	160°	165°	170°	175°	180°
0°	1389.3	1389.3	1389.3	1389.3	1389.3
2.5°	1394.9	1393.5	1397.7	1394.9	1396.3
5°	1407.4	1406.0	1408.8	1406.0	1410.2
7.5°	1403.2	1400.4	1399.0	1400.4	1401.8
10°	1374.0	1371.2	1369.8	1368.4	1369.8
12.5°	1348.9	1343.3	1343.3	1340.5	1341.9
15°	1330.8	1326.6	1325.2	1322.4	1323.8
17.5°	1322.4	1315.4	1312.6	1309.9	1309.9
20°	1316.8	1308.5	1304.3	1301.5	1300.1
22.5°	1316.8	1304.3	1298.7	1295.9	1294.5
25°	1322.4	1307.1	1298.7	1294.5	1293.1
27.5°	1333.6	1314.0	1304.3	1298.7	1298.7
30°	1353.1	1328.0	1314.0	1307.1	1305.7
32.5°	1372.6	1339.1	1319.6	1311.3	1308.5
35°	1382.3	1339.1	1315.4	1301.5	1298.7
37.5°	1371.2	1321.0	1291.7	1270.8	1266.7
40°	1336.3	1283.4	1251.3	1231.8	1229.0
42.5°	1290.4	1238.8	1201.2	1187.2	1183.1
45°	1227.6	1166.3	1128.7	1109.2	1110.6
47.5°	1120.4	1057.6	1024.2	1006.1	1008.9
50°	993.5	932.2	903.0	883.5	887.6
52.5°	854.2	798.5	770.6	760.8	758.0
55°	707.9	664.7	645.2	634.0	629.8
57.5°	574.1	543.5	529.5	515.6	517.0
60°	452.9	437.5	433.4	418.0	416.6
62.5°	356.7	347.0	342.8	331.6	333.0
65°	270.3	267.5	270.3	263.4	266.2
66°	243.9	245.3	245.3	241.1	243.9
67.5°	210.4	213.2	217.4	213.2	216.0
70°	174.2	177.0	179.8	179.8	179.8
72.5°	151.9	154.7	156.1	156.1	156.1
75°	139.3	140.7	142.1	139.3	139.3
77.5°	131.0	131.0	128.2	126.8	125.4
80°	118.4	117.1	112.9	110.1	110.1
82.5°	98.9	96.1	93.4	89.2	89.2
85°	75.2	72.5	69.7	64.1	61.3
87.5°	39.0	40.4	39.0	32.0	27.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)