

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: P152964

Luminaire Tested: **TLM-F05-LED-E1-SLL-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P152964  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33681)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TLM-F05-LED-E1-SLL-7030  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT  
Light Source: (35) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

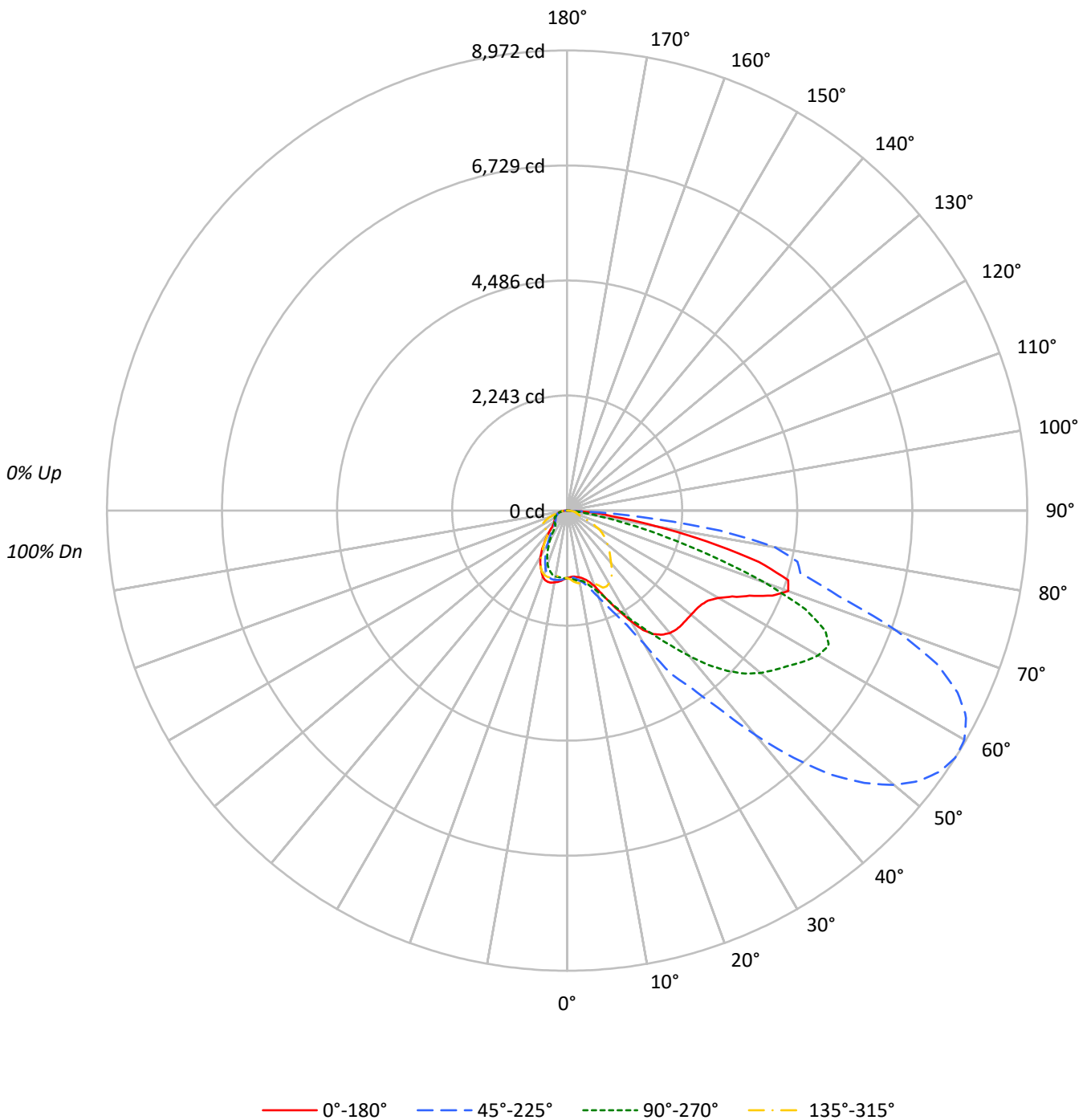
Lumens per Lamp: N/A  
Luminaire Lumens: 10489.8 lumens  
Efficiency: N/A  
Efficacy: 78.7 lumens/watt  
Spacing Criteria (0/90/45): 1.93 / 2.48 / 2.44  
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 133.3  
Input Voltage (V): NR  
Input Current (Ain): 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-F05-LED-E1-SLL-7030

### 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	93	88	102	97	91	87	92	88	84	88	85	81	84	82	79	77
2	93	82	73	66	90	80	72	65	76	70	64	73	67	62	70	65	61	58
3	82	69	59	51	80	68	58	50	64	56	49	61	54	48	59	53	47	45
4	74	59	48	40	71	58	48	40	55	46	39	52	45	39	50	44	38	35
5	67	51	41	33	64	50	40	32	48	39	32	46	38	32	44	37	31	29
6	61	45	35	27	59	44	34	27	42	33	27	40	32	26	39	32	26	24
7	56	40	30	23	54	39	30	23	38	29	23	36	28	22	35	27	22	20
8	52	36	26	20	50	35	26	20	34	25	19	33	25	19	31	24	19	17
9	48	33	23	17	46	32	23	17	31	23	17	30	22	17	29	22	17	15
10	45	30	21	15	43	29	21	15	28	20	15	27	20	15	26	20	15	13

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

	0°	90°	180°	270°
0°	17095	17095	17095	17095
5°	16801	17537	17913	17095
10°	17376	18236	18717	17161
15°	18744	19707	19352	16703
20°	21662	22875	19077	15400
25°	28357	28016	17406	13001
30°	37373	36357	15524	10068
35°	46555	47052	12434	6884
40°	52760	62567	9105	6020
45°	57849	81035	6845	6315
50°	63688	99336	6541	6464
55°	72198	119193	6677	6620
60°	88298	146576	7268	7268
65°	120428	170560	7675	7558
70°	173920	155242	8099	8004
75°	194003	100494	8939	8438
80°	132615	48805	10232	9104
85°	86020	23748	12335	11219



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.3	1.2
10°-20°	399.7	3.8
20°-30°	710.0	6.8
30°-40°	1118.1	10.7
40°-50°	1645.5	15.7
50°-60°	2185.6	20.8
60°-70°	2407.5	23.0
70°-80°	1510.4	14.4
80°-90°	384.7	3.7
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°	1238.0	11.8
0°-40°	2356.0	22.5
0°-60°	6187.1	59.0
0°-90°	10489.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10489.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1318	1318	1318	1318	1318	
5°	1291	1347	1376	1313	1291	124
15°	1396	1468	1441	1244	1396	404
25°	1982	1958	1216	909	1982	935
35°	2941	2972	785	435	2941	1822
45°	3154	4418	373	344	3154	2439
55°	3193	5272	295	293	3193	2896
65°	3924	5558	250	246	3924	3951
75°	3872	2006	178	168	3872	3786
85°	578	160	83	75	578	668
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°	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2
2.5°	1300.6	1303.2	1303.2	1301.9	1301.9	1304.4	1303.2	1301.9	1298.1	1303.2	1303.2
5°	1290.6	1293.1	1293.1	1295.6	1298.1	1300.6	1300.6	1303.2	1301.9	1306.9	1310.7
7.5°	1303.2	1305.7	1310.7	1317.0	1320.7	1329.5	1329.5	1335.8	1338.3	1342.1	1340.9
10°	1319.5	1325.8	1337.1	1347.1	1354.7	1364.7	1372.3	1381.1	1381.1	1384.8	1387.3
12.5°	1348.4	1354.7	1367.2	1379.8	1391.1	1403.7	1415.0	1423.8	1432.6	1435.1	1440.1
15°	1396.1	1403.7	1422.5	1440.1	1454.0	1470.3	1485.4	1503.0	1519.3	1523.1	1525.6
17.5°	1467.8	1482.9	1496.7	1528.1	1548.2	1569.6	1593.4	1618.6	1623.6	1650.0	1656.3
20°	1569.6	1588.4	1601.0	1639.9	1673.9	1701.5	1736.7	1765.6	1776.9	1802.0	1827.2
22.5°	1745.5	1741.7	1760.6	1799.5	1824.7	1880.0	1910.1	1940.3	1955.4	1993.1	2013.2
25°	1981.7	2001.9	2043.3	2047.1	2071.0	2135.1	2174.0	2204.2	2205.4	2216.7	2238.1
27.5°	2214.2	2297.2	2362.5	2397.7	2461.8	2520.9	2518.3	2561.1	2494.5	2508.3	2528.4
30°	2495.7	2634.0	2757.1	2840.0	2905.4	2974.5	3008.4	3032.3	3003.4	2990.8	2967.0
32.5°	2759.6	2953.1	3142.9	3289.9	3411.8	3526.2	3601.6	3635.5	3675.7	3777.5	3814.0
35°	2940.6	3214.5	3450.8	3663.2	3866.7	4048.9	4180.9	4256.3	4227.4	4213.6	4206.0
37.5°	3048.6	3382.9	3678.2	3978.6	4212.3	4485.0	4689.8	4888.4	4933.6	4854.5	4815.5
40°	3116.5	3512.4	3891.9	4246.2	4549.1	4901.0	5154.8	5452.6	5678.8	5709.0	5616.0
42.5°	3149.2	3599.1	4041.4	4442.3	4851.9	5283.0	5604.7	5965.3	6303.4	6535.9	6478.1
45°	3154.2	3655.6	4150.7	4619.5	5107.0	5618.5	6033.2	6432.8	6885.2	7283.6	7294.9
47.5°	3154.2	3698.3	4226.1	4747.6	5335.8	5910.1	6362.4	6835.0	7389.1	7860.4	8004.9
50°	3156.7	3727.2	4296.5	4848.2	5510.4	6156.4	6667.8	7225.8	7808.9	8321.6	8600.6
52.5°	3168.0	3748.6	4351.8	4919.8	5623.5	6329.8	6905.3	7548.7	8129.3	8655.8	9016.5
55°	3193.2	3778.8	4392.0	4963.8	5698.9	6442.9	7077.5	7769.9	8336.7	8870.7	9374.7
57.5°	3263.5	3831.5	4441.0	5002.7	5740.4	6517.0	7198.1	7865.4	8415.8	8972.5	9564.4
60°	3404.3	3943.4	4525.2	5080.7	5809.5	6654.0	7255.9	7801.3	8358.0	8942.4	9607.1
62.5°	3629.2	4118.1	4642.1	5212.6	6006.8	6866.4	7211.9	7610.3	8130.6	8767.7	9455.1
63°	3707.1	4155.8	4668.5	5241.5	6060.9	6905.3	7193.1	7553.8	8084.1	8712.4	9401.0
65°	3924.5	4322.9	4794.1	5387.3	6283.3	6944.3	7046.1	7259.7	7762.4	8397.0	9081.9
67.5°	4330.4	4728.8	5064.3	5633.6	6470.5	6791.0	6589.9	6616.3	7141.6	7798.8	8414.6
70°	4586.8	5061.8	5236.5	5665.0	6436.6	6563.5	5999.3	5649.9	6070.9	6819.9	7359.0
72.5°	4520.2	5065.6	5046.7	5246.5	5758.0	5876.1	5291.8	4741.4	4991.4	5550.6	5900.0
75°	3871.8	4524.0	4385.7	4345.5	4525.2	4603.1	4164.6	4080.4	4395.8	4706.2	4711.2
77.5°	2787.3	3504.8	3342.7	3110.2	3097.7	3277.4	3336.4	3888.1	4354.3	4599.4	4491.3
80°	1775.7	2553.5	2385.1	1979.2	1972.9	2206.7	2725.7	3475.9	3969.8	4106.8	3825.3
82.5°	927.4	1671.4	1735.4	1485.4	1700.3	2087.3	2593.7	2801.1	2988.3	3007.2	2675.4
85°	578.1	1027.9	1208.9	1247.9	1535.6	1851.1	1847.3	1774.4	1691.5	1447.7	1309.4
87.5°	65.3	129.4	196.0	186.0	250.1	350.6	437.3	256.4	179.7	65.3	90.5
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2
2.5°	1305.7	1306.9	1308.2	1308.2	1314.5	1313.2	1314.5	1317.0	1320.7	1323.3	1325.8
5°	1315.7	1315.7	1320.7	1324.5	1332.1	1337.1	1339.6	1347.1	1355.9	1353.4	1361.0
7.5°	1348.4	1347.1	1352.2	1354.7	1361.0	1369.8	1368.5	1374.8	1382.3	1384.8	1391.1
10°	1392.4	1388.6	1388.6	1386.1	1387.3	1384.8	1384.8	1384.8	1389.9	1388.6	1393.6
12.5°	1437.6	1436.4	1433.8	1426.3	1426.3	1416.3	1411.2	1404.9	1403.7	1394.9	1396.1
15°	1530.6	1530.6	1525.6	1510.5	1497.9	1489.1	1476.6	1467.8	1455.2	1438.9	1430.1
17.5°	1666.3	1648.7	1642.4	1639.9	1619.8	1612.3	1584.6	1555.7	1541.9	1519.3	1506.7
20°	1832.2	1828.4	1803.3	1790.7	1765.6	1730.4	1695.2	1657.5	1634.9	1607.3	1592.2
22.5°	2019.4	1991.8	1979.2	1960.4	1921.4	1881.2	1828.4	1778.2	1743.0	1724.1	1712.8
25°	2238.1	2210.5	2197.9	2172.8	2125.0	2082.3	2016.9	1957.9	1926.5	1895.0	1877.4
27.5°	2528.4	2502.0	2486.9	2421.6	2405.2	2334.9	2254.4	2174.0	2132.5	2086.0	2055.9
30°	2961.9	2963.2	2885.3	2806.1	2724.4	2602.5	2518.3	2427.9	2360.0	2293.4	2226.8
32.5°	3694.6	3507.3	3362.8	3193.2	3016.0	2886.5	2782.2	2674.2	2579.9	2483.2	2372.6
35°	4141.9	4051.5	3864.2	3553.8	3375.4	3218.3	3102.7	2972.0	2856.4	2685.5	2517.1
37.5°	4647.1	4437.3	4209.8	4037.6	3835.3	3653.1	3459.6	3311.3	3111.5	2881.5	2642.7
40°	5384.8	5084.4	4810.5	4579.3	4317.9	4126.9	3910.7	3695.8	3430.7	3097.7	2769.7
42.5°	6155.1	5844.7	5482.8	5182.4	4874.6	4650.9	4383.2	4081.6	3692.1	3279.9	2879.0
45°	6963.1	6548.4	6114.9	5747.9	5427.5	5149.8	4818.0	4418.4	3943.4	3443.2	2980.8
47.5°	7759.8	7283.6	6767.1	6372.5	5955.3	5616.0	5208.8	4703.7	4139.4	3597.8	3082.6
50°	8462.3	8003.6	7381.6	6880.2	6458.0	6039.5	5531.8	4923.6	4294.0	3731.0	3174.3
52.5°	9068.0	8673.4	8018.7	7385.4	6899.0	6429.1	5791.9	5100.8	4449.8	3854.2	3249.7
55°	9512.9	9250.2	8647.0	7861.6	7287.3	6726.9	6011.8	5271.7	4596.8	3952.2	3298.7
57.5°	9848.4	9702.6	9184.9	8310.3	7644.2	7015.9	6239.3	5476.5	4742.6	4036.4	3321.3
60°	10031.9	10072.1	9592.1	8702.3	7959.7	7257.2	6466.8	5651.2	4850.7	4085.4	3308.8
62.5°	10014.3	10260.6	9897.4	8943.6	8143.1	7400.4	6620.1	5732.9	4835.6	4007.5	3194.4
63°	9980.4	10266.9	9931.4	8960.0	8154.4	7405.5	6623.8	5721.6	4804.2	3969.8	3149.2
65°	9687.6	10122.4	9902.4	8885.8	8053.9	7311.2	6544.7	5558.2	4583.0	3767.5	2916.7
67.5°	8903.4	9447.5	9384.7	8361.8	7577.6	6921.7	6140.0	5031.6	4036.4	3269.8	2471.8
70°	7607.8	8119.3	8130.6	7272.3	6617.5	5974.1	5324.5	4094.2	3199.4	2534.7	1843.5
72.5°	5830.9	6160.1	6274.5	5709.0	5270.4	4818.0	4234.9	2972.0	2280.8	1724.1	1200.1
75°	4515.2	4424.7	4423.4	4184.7	4006.2	3785.0	3144.2	2005.6	1497.9	1120.9	733.9
77.5°	4059.0	3656.9	3267.3	2980.8	2837.5	2763.4	2062.2	1208.9	883.4	644.7	422.2
80°	3347.7	2754.6	2225.5	1916.4	1793.2	1878.7	1149.8	653.5	483.8	366.9	274.0
82.5°	2308.5	1916.4	1456.5	1206.4	1035.5	1083.2	588.1	334.3	223.7	204.8	169.6
85°	1202.6	1054.3	889.7	764.0	674.8	593.1	305.4	159.6	93.0	81.7	74.1
87.5°	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2
2.5°	1329.5	1328.3	1330.8	1332.1	1335.8	1338.3	1339.6	1337.1	1340.9	1344.6	1342.1
5°	1364.7	1373.5	1374.8	1378.6	1378.6	1386.1	1386.1	1386.1	1384.8	1386.1	1383.6
7.5°	1394.9	1406.2	1407.5	1412.5	1413.7	1422.5	1418.8	1421.3	1421.3	1415.0	1412.5
10°	1398.7	1410.0	1416.3	1422.5	1431.3	1442.6	1442.6	1448.9	1448.9	1443.9	1442.6
12.5°	1399.9	1408.7	1415.0	1423.8	1436.4	1452.7	1461.5	1470.3	1474.1	1472.8	1469.0
15°	1426.3	1426.3	1427.6	1435.1	1443.9	1464.0	1476.6	1486.6	1492.9	1490.4	1484.1
17.5°	1495.4	1485.4	1477.8	1465.3	1467.8	1477.8	1485.4	1494.2	1495.4	1492.9	1482.9
20°	1575.8	1563.3	1544.4	1524.3	1514.3	1506.7	1501.7	1501.7	1497.9	1485.4	1469.0
22.5°	1690.2	1673.9	1647.5	1617.3	1597.2	1573.3	1544.4	1516.8	1486.6	1456.5	1421.3
25°	1848.5	1825.9	1798.3	1751.8	1709.1	1658.8	1599.7	1538.1	1466.5	1403.7	1352.2
27.5°	2008.1	1957.9	1886.2	1822.2	1743.0	1667.6	1583.4	1508.0	1416.3	1340.9	1284.3
30°	2140.1	2044.6	1941.5	1839.7	1735.4	1633.7	1533.1	1442.6	1342.1	1265.5	1210.2
32.5°	2241.9	2109.9	1966.7	1833.5	1705.3	1580.9	1465.3	1364.7	1262.9	1183.8	1124.7
35°	2336.1	2152.7	1970.4	1805.8	1647.5	1518.0	1387.3	1278.0	1169.9	1087.0	1022.9
37.5°	2406.5	2172.8	1947.8	1754.3	1572.1	1427.6	1294.4	1182.5	1071.9	981.4	908.6
40°	2451.7	2160.2	1898.8	1680.1	1482.9	1330.8	1195.1	1079.5	972.7	873.4	785.4
42.5°	2488.2	2143.9	1849.8	1612.3	1412.5	1246.6	1107.1	982.7	874.6	766.6	669.8
45°	2542.2	2156.4	1828.4	1564.5	1349.6	1175.0	1021.7	892.2	779.1	673.6	580.6
47.5°	2595.0	2162.7	1797.0	1505.5	1270.5	1100.8	945.0	819.3	703.7	607.0	521.5
50°	2642.7	2158.9	1748.0	1430.1	1193.8	1026.7	875.9	750.2	635.9	546.6	466.2
52.5°	2665.4	2137.6	1687.7	1357.2	1132.2	961.3	808.0	686.1	573.0	488.8	414.7
55°	2662.9	2082.3	1608.5	1288.1	1064.4	892.2	741.4	620.8	519.0	441.1	377.0
57.5°	2625.2	1996.8	1524.3	1211.4	975.2	806.8	663.5	546.6	461.2	395.8	341.8
60°	2546.0	1887.5	1413.7	1099.6	863.3	701.2	566.8	466.2	397.1	346.8	311.7
62.5°	2397.7	1730.4	1275.5	943.7	712.5	564.2	447.4	382.0	330.5	300.3	284.0
63°	2353.7	1687.7	1216.4	906.0	677.3	532.8	422.2	354.4	316.7	290.3	275.2
65°	2135.1	1477.8	1017.9	731.4	526.5	410.9	339.3	287.8	265.2	253.8	252.6
67.5°	1729.2	1162.4	720.1	501.4	358.1	296.6	260.1	238.8	228.7	226.2	228.7
70°	1213.9	733.9	457.4	333.0	265.2	238.8	222.4	213.6	207.3	208.6	211.1
72.5°	774.1	439.8	314.2	252.6	223.7	209.9	202.3	199.8	198.6	197.3	197.3
75°	441.1	292.8	241.3	218.7	203.6	192.3	186.0	183.5	184.7	186.0	183.5
77.5°	291.5	241.3	214.9	199.8	186.0	173.4	169.6	168.4	170.9	173.4	173.4
80°	230.0	214.9	199.8	184.7	162.1	153.3	155.8	157.1	155.8	157.1	153.3
82.5°	162.1	159.6	163.4	157.1	134.5	126.9	124.4	125.7	123.2	123.2	120.6
85°	75.4	75.4	79.2	79.2	76.7	77.9	84.2	91.7	95.5	91.7	86.7
87.5°	0.0	0.0	0.0	0.0	0.0	11.3	22.6	32.7	35.2	44.0	42.7
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: P152964

CATALOG NUMBER: TLM-F05-LED-E1-SLL-7030

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2
2.5°	1338.3	1340.9	1339.6	1338.3	1340.9	1338.3	1339.6	1338.3	1338.3	1337.1	1337.1
5°	1381.1	1384.8	1377.3	1376.0	1373.5	1367.2	1367.2	1364.7	1364.7	1359.7	1355.9
7.5°	1408.7	1410.0	1403.7	1402.4	1396.1	1389.9	1384.8	1379.8	1378.6	1374.8	1367.2
10°	1435.1	1432.6	1427.6	1421.3	1415.0	1406.2	1399.9	1393.6	1392.4	1386.1	1377.3
12.5°	1457.7	1456.5	1446.4	1440.1	1430.1	1421.3	1413.7	1406.2	1402.4	1394.9	1382.3
15°	1472.8	1465.3	1452.7	1441.4	1430.1	1420.0	1411.2	1402.4	1398.7	1389.9	1377.3
17.5°	1466.5	1452.7	1436.4	1422.5	1407.5	1394.9	1387.3	1378.6	1372.3	1367.2	1349.6
20°	1443.9	1423.8	1398.7	1382.3	1362.2	1345.9	1340.9	1332.1	1327.0	1308.2	1285.6
22.5°	1384.8	1355.9	1324.5	1300.6	1278.0	1261.7	1249.1	1240.3	1227.8	1216.4	1181.3
25°	1310.7	1278.0	1245.3	1216.4	1186.3	1161.1	1138.5	1117.2	1110.9	1087.0	1053.1
27.5°	1239.1	1202.6	1169.9	1136.0	1097.1	1065.6	1026.7	996.5	976.4	951.3	919.9
30°	1162.4	1126.0	1082.0	1036.7	991.5	957.6	913.6	877.1	852.0	825.6	796.7
32.5°	1065.6	1021.7	968.9	918.6	877.1	836.9	792.9	757.8	732.6	708.8	681.1
35°	955.1	897.3	840.7	785.4	741.4	707.5	668.5	642.2	624.6	603.2	574.3
37.5°	828.1	762.8	702.5	659.7	620.8	588.1	560.5	544.1	525.3	514.0	496.4
40°	700.0	635.9	576.8	537.8	505.2	486.3	471.2	467.5	454.9	439.8	428.5
42.5°	586.9	525.3	467.5	436.1	414.7	409.7	402.1	402.1	395.8	384.5	377.0
45°	510.2	446.1	395.8	373.2	361.9	360.7	356.9	356.9	355.6	350.6	341.8
47.5°	454.9	397.1	358.1	344.3	341.8	339.3	335.5	334.3	333.0	329.2	324.2
50°	404.6	355.6	330.5	324.2	325.5	321.7	317.9	314.2	312.9	309.1	304.1
52.5°	358.1	323.0	306.6	302.9	302.9	302.9	300.3	300.3	297.8	296.6	291.5
55°	331.8	305.4	296.6	295.3	294.1	292.8	290.3	290.3	287.8	286.5	280.2
57.5°	309.1	292.8	287.8	285.3	284.0	281.5	280.2	280.2	280.2	280.2	272.7
60°	291.5	284.0	282.7	280.2	279.0	274.0	271.4	270.2	271.4	272.7	265.2
62.5°	272.7	271.4	270.2	267.7	266.4	261.4	257.6	255.1	257.6	260.1	258.9
63°	267.7	266.4	266.4	265.2	263.9	257.6	253.8	251.3	253.8	256.4	256.4
65°	250.1	251.3	251.3	250.1	248.8	245.0	240.0	237.5	238.8	242.5	243.8
67.5°	231.2	232.5	231.2	232.5	231.2	228.7	224.9	222.4	221.2	222.4	223.7
70°	213.6	216.1	214.9	213.6	212.4	212.4	209.9	206.1	204.8	203.6	203.6
72.5°	198.6	198.6	196.0	196.0	194.8	194.8	192.3	188.5	187.2	187.2	184.7
75°	182.2	182.2	178.4	178.4	175.9	177.2	174.7	170.9	169.6	169.6	168.4
77.5°	172.2	168.4	162.1	160.9	159.6	159.6	158.3	154.6	153.3	153.3	152.1
80°	152.1	144.5	138.2	137.0	138.2	140.7	140.7	138.2	138.2	138.2	138.2
82.5°	118.1	115.6	111.8	109.3	109.3	113.1	118.1	120.6	123.2	125.7	125.7
85°	86.7	88.0	86.7	82.9	81.7	85.5	90.5	95.5	96.8	101.8	100.5
87.5°	46.5	47.8	44.0	42.7	46.5	49.0	54.0	55.3	57.8	59.1	60.3
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: P152964

CATALOG NUMBER: TLM-F05-LED-E1-SLL-7030

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2
2.5°	1335.8	1334.6	1335.8	1333.3	1333.3	1330.8	1328.3	1327.0	1324.5	1323.3	1320.7
5°	1358.4	1354.7	1350.9	1349.6	1344.6	1339.6	1335.8	1329.5	1324.5	1315.7	1313.2
7.5°	1373.5	1364.7	1359.7	1358.4	1350.9	1347.1	1338.3	1330.8	1323.3	1311.9	1308.2
10°	1379.8	1371.0	1362.2	1358.4	1349.6	1343.4	1334.6	1323.3	1317.0	1305.7	1303.2
12.5°	1387.3	1371.0	1357.2	1347.1	1334.6	1320.7	1311.9	1305.7	1296.9	1290.6	1288.1
15°	1373.5	1352.2	1330.8	1311.9	1291.8	1276.8	1268.0	1257.9	1247.9	1244.1	1244.1
17.5°	1335.8	1308.2	1271.7	1247.9	1226.5	1210.2	1198.8	1188.8	1187.5	1182.5	1185.0
20°	1257.9	1221.5	1186.3	1168.7	1156.1	1146.1	1134.8	1129.7	1126.0	1118.4	1115.9
22.5°	1149.8	1119.7	1094.5	1082.0	1071.9	1059.4	1049.3	1034.2	1030.5	1022.9	1019.1
25°	1030.5	1006.6	985.2	976.4	970.1	952.5	946.3	926.2	912.3	903.5	908.6
27.5°	911.1	893.5	873.4	862.1	858.3	842.0	835.7	813.1	801.7	801.7	789.2
30°	787.9	771.6	759.0	746.5	743.9	723.8	707.5	698.7	686.1	681.1	672.3
32.5°	672.3	656.0	645.9	639.6	629.6	613.2	596.9	581.8	561.7	554.2	550.4
35°	565.5	552.9	540.4	535.3	521.5	503.9	483.8	471.2	447.4	438.6	434.8
37.5°	483.8	468.7	459.9	446.1	432.3	413.4	398.4	387.0	378.3	374.5	374.5
40°	418.5	407.2	397.1	385.8	374.5	364.4	356.9	354.4	353.1	353.1	355.6
42.5°	369.5	359.4	354.4	348.1	344.3	344.3	343.1	344.3	345.6	346.8	350.6
45°	336.8	330.5	328.0	326.7	329.2	331.8	333.0	335.5	340.6	343.1	344.3
47.5°	319.2	314.2	312.9	314.2	317.9	323.0	328.0	331.8	335.5	336.8	338.0
50°	301.6	295.3	292.8	295.3	300.3	307.9	311.7	317.9	320.4	323.0	320.4
52.5°	286.5	281.5	280.2	280.2	285.3	290.3	295.3	300.3	301.6	301.6	300.3
55°	274.0	270.2	266.4	268.9	272.7	277.7	285.3	289.0	291.5	292.8	292.8
57.5°	263.9	260.1	256.4	258.9	262.6	267.7	275.2	279.0	281.5	285.3	286.5
60°	256.4	251.3	247.6	251.3	255.1	262.6	268.9	272.7	279.0	280.2	280.2
62.5°	248.8	243.8	237.5	241.3	241.3	245.0	251.3	256.4	262.6	265.2	265.2
63°	247.6	242.5	236.3	238.8	238.8	241.3	246.3	251.3	258.9	261.4	260.1
65°	237.5	236.3	230.0	230.0	227.5	230.0	233.7	238.8	242.5	246.3	246.3
67.5°	221.2	219.9	218.7	218.7	218.7	221.2	223.7	227.5	231.2	233.7	232.5
70°	202.3	202.3	202.3	203.6	203.6	206.1	207.3	206.1	209.9	212.4	211.1
72.5°	186.0	184.7	183.5	186.0	184.7	184.7	187.2	186.0	189.8	189.8	191.0
75°	168.4	167.1	167.1	168.4	165.9	163.4	164.6	164.6	165.9	165.9	168.4
77.5°	153.3	153.3	153.3	152.1	149.5	148.3	147.0	147.0	147.0	147.0	148.3
80°	139.5	139.5	139.5	138.2	135.7	133.2	130.7	129.4	128.2	121.9	121.9
82.5°	125.7	125.7	125.7	125.7	124.4	121.9	118.1	108.1	103.0	98.0	99.3
85°	99.3	101.8	104.3	108.1	106.8	106.8	99.3	86.7	79.2	74.1	75.4
87.5°	64.1	56.5	56.5	55.3	52.8	50.3	50.3	42.7	35.2	31.4	32.7
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: P152964

CATALOG NUMBER: TLM-F05-LED-E1-SLL-7030

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2
2.5°	1320.7	1318.2	1315.7	1315.7	1311.9	1311.9	1309.4	1314.5	1309.4	1305.7	1305.7
5°	1310.7	1308.2	1300.6	1299.4	1294.4	1294.4	1294.4	1291.8	1291.8	1289.3	1288.1
7.5°	1304.4	1298.1	1291.8	1288.1	1288.1	1285.6	1290.6	1288.1	1289.3	1289.3	1290.6
10°	1299.4	1294.4	1291.8	1290.6	1290.6	1294.4	1298.1	1299.4	1298.1	1299.4	1299.4
12.5°	1286.8	1289.3	1290.6	1295.6	1301.9	1309.4	1318.2	1319.5	1322.0	1322.0	1324.5
15°	1246.6	1252.9	1260.4	1273.0	1289.3	1305.7	1322.0	1335.8	1348.4	1354.7	1359.7
17.5°	1190.1	1196.3	1210.2	1224.0	1245.3	1269.2	1296.9	1320.7	1347.1	1371.0	1394.9
20°	1113.4	1123.5	1127.2	1152.4	1177.5	1210.2	1242.8	1280.5	1325.8	1371.0	1417.5
22.5°	1014.1	1025.4	1043.0	1063.1	1089.5	1129.7	1168.7	1227.8	1288.1	1352.2	1425.0
25°	903.5	916.1	931.2	952.5	978.9	1021.7	1078.2	1141.0	1215.2	1299.4	1389.9
27.5°	789.2	801.7	814.3	829.4	859.6	904.8	971.4	1036.7	1118.4	1210.2	1315.7
30°	674.8	676.1	683.6	702.5	733.9	792.9	842.0	923.6	1009.1	1105.9	1227.8
32.5°	549.2	547.9	556.7	573.0	603.2	659.7	720.1	799.2	883.4	1005.3	1131.0
35°	437.3	437.3	453.7	470.0	503.9	544.1	596.9	667.3	766.6	879.7	1005.3
37.5°	378.3	387.0	397.1	413.4	439.8	471.2	517.7	579.3	657.2	765.3	880.9
40°	359.4	364.4	373.2	388.3	410.9	439.8	473.8	520.3	580.6	667.3	772.8
42.5°	351.9	353.1	358.1	369.5	389.6	418.5	453.7	495.1	540.4	601.9	693.7
45°	344.3	343.1	345.6	354.4	370.7	403.4	443.6	488.8	534.1	585.6	661.0
47.5°	338.0	338.0	338.0	341.8	356.9	389.6	436.1	488.8	542.9	600.7	674.8
50°	320.4	319.2	319.2	321.7	333.0	368.2	423.5	487.6	558.0	633.4	717.6
52.5°	300.3	300.3	301.6	302.9	312.9	348.1	409.7	487.6	575.5	676.1	781.6
55°	294.1	295.3	296.6	295.3	302.9	333.0	394.6	480.0	583.1	710.0	850.8
57.5°	289.0	291.5	291.5	290.3	295.3	320.4	379.5	465.0	576.8	722.6	899.8
60°	281.5	281.5	281.5	277.7	280.2	302.9	356.9	441.1	556.7	711.3	907.3
62.5°	265.2	265.2	262.6	261.4	260.1	277.7	326.7	405.9	520.3	681.1	888.5
63°	261.4	260.1	260.1	256.4	256.4	272.7	320.4	400.9	510.2	673.6	880.9
65°	247.6	247.6	247.6	245.0	243.8	256.4	295.3	365.7	471.2	638.4	843.2
67.5°	232.5	233.7	231.2	230.0	228.7	236.3	266.4	321.7	410.9	564.2	772.8
70°	211.1	212.4	212.4	211.1	209.9	214.9	233.7	276.5	340.6	470.0	658.5
72.5°	192.3	194.8	194.8	197.3	197.3	201.1	208.6	230.0	272.7	366.9	517.7
75°	172.2	173.4	175.9	178.4	175.9	174.7	175.9	192.3	213.6	271.4	369.5
77.5°	154.6	158.3	158.3	157.1	153.3	150.8	150.8	158.3	175.9	206.1	263.9
80°	128.2	134.5	135.7	131.9	128.2	128.2	130.7	135.7	147.0	169.6	199.8
82.5°	103.0	109.3	110.6	111.8	110.6	114.4	114.4	115.6	121.9	139.5	163.4
85°	79.2	84.2	88.0	89.2	90.5	91.7	90.5	84.2	88.0	99.3	110.6
87.5°	35.2	36.4	33.9	35.2	33.9	35.2	36.4	30.2	28.9	39.0	40.2
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: P152964

CATALOG NUMBER: TLM-F05-LED-E1-SLL-7030

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2
2.5°	1304.4	1304.4	1305.7	1303.2	1303.2	1304.4	1300.6
5°	1284.3	1289.3	1289.3	1289.3	1286.8	1289.3	1290.6
7.5°	1289.3	1293.1	1295.6	1295.6	1294.4	1299.4	1303.2
10°	1295.6	1301.9	1304.4	1304.4	1304.4	1310.7	1319.5
12.5°	1319.5	1324.5	1328.3	1328.3	1330.8	1338.3	1348.4
15°	1363.5	1369.8	1369.8	1368.5	1376.0	1384.8	1396.1
17.5°	1412.5	1430.1	1438.9	1437.6	1443.9	1455.2	1467.8
20°	1459.0	1508.0	1529.4	1544.4	1550.7	1565.8	1569.6
22.5°	1497.9	1579.6	1638.7	1688.9	1712.8	1727.9	1745.5
25°	1484.1	1594.7	1700.3	1803.3	1876.2	1950.3	1981.7
27.5°	1427.6	1565.8	1704.0	1854.8	1986.8	2118.7	2214.2
30°	1358.4	1524.3	1710.3	1923.9	2132.5	2334.9	2495.7
32.5°	1279.3	1485.4	1724.1	1988.0	2262.0	2527.1	2759.6
35°	1180.0	1411.2	1690.2	1994.3	2317.3	2639.0	2940.6
37.5°	1054.3	1310.7	1611.0	1949.1	2319.8	2688.0	3048.6
40°	928.7	1183.8	1510.5	1883.7	2287.1	2699.3	3116.5
42.5°	840.7	1070.7	1408.7	1800.8	2234.3	2681.7	3149.2
45°	780.4	989.0	1318.2	1725.4	2177.8	2650.3	3154.2
47.5°	775.4	953.8	1259.2	1670.1	2132.5	2622.6	3154.2
50°	818.1	972.7	1239.1	1642.4	2113.7	2613.8	3156.7
52.5°	898.5	1048.1	1275.5	1663.8	2128.8	2625.2	3168.0
55°	995.3	1162.4	1373.5	1738.0	2192.9	2662.9	3193.2
57.5°	1083.2	1294.4	1540.7	1881.2	2309.7	2758.4	3263.5
60°	1134.8	1407.5	1717.8	2082.3	2509.5	2948.1	3404.3
62.5°	1141.0	1470.3	1874.9	2300.9	2752.1	3165.5	3629.2
63°	1136.0	1475.3	1895.0	2342.4	2803.6	3219.6	3707.1
65°	1108.4	1476.6	1951.6	2488.2	2982.0	3447.0	3924.5
67.5°	1038.0	1436.4	1971.7	2602.5	3207.0	3746.1	4330.4
70°	916.1	1322.0	1912.6	2605.0	3293.7	3913.2	4586.8
72.5°	736.4	1104.6	1657.5	2370.1	3065.0	3748.6	4520.2
75°	539.1	811.8	1252.9	1836.0	2500.7	3120.3	3871.8
77.5°	358.1	525.3	844.5	1308.2	1793.2	2245.6	2787.3
80°	246.3	325.5	493.9	786.7	1097.1	1317.0	1775.7
82.5°	181.0	214.9	274.0	402.1	527.8	649.7	927.4
85°	113.1	123.2	137.0	198.6	284.0	383.3	578.1
87.5°	30.2	31.4	28.9	39.0	61.6	59.1	65.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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