

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: P154529

Luminaire Tested: **TLM-E01-LED-E1-T2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P154529
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33671)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-E01-LED-E1-T2-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

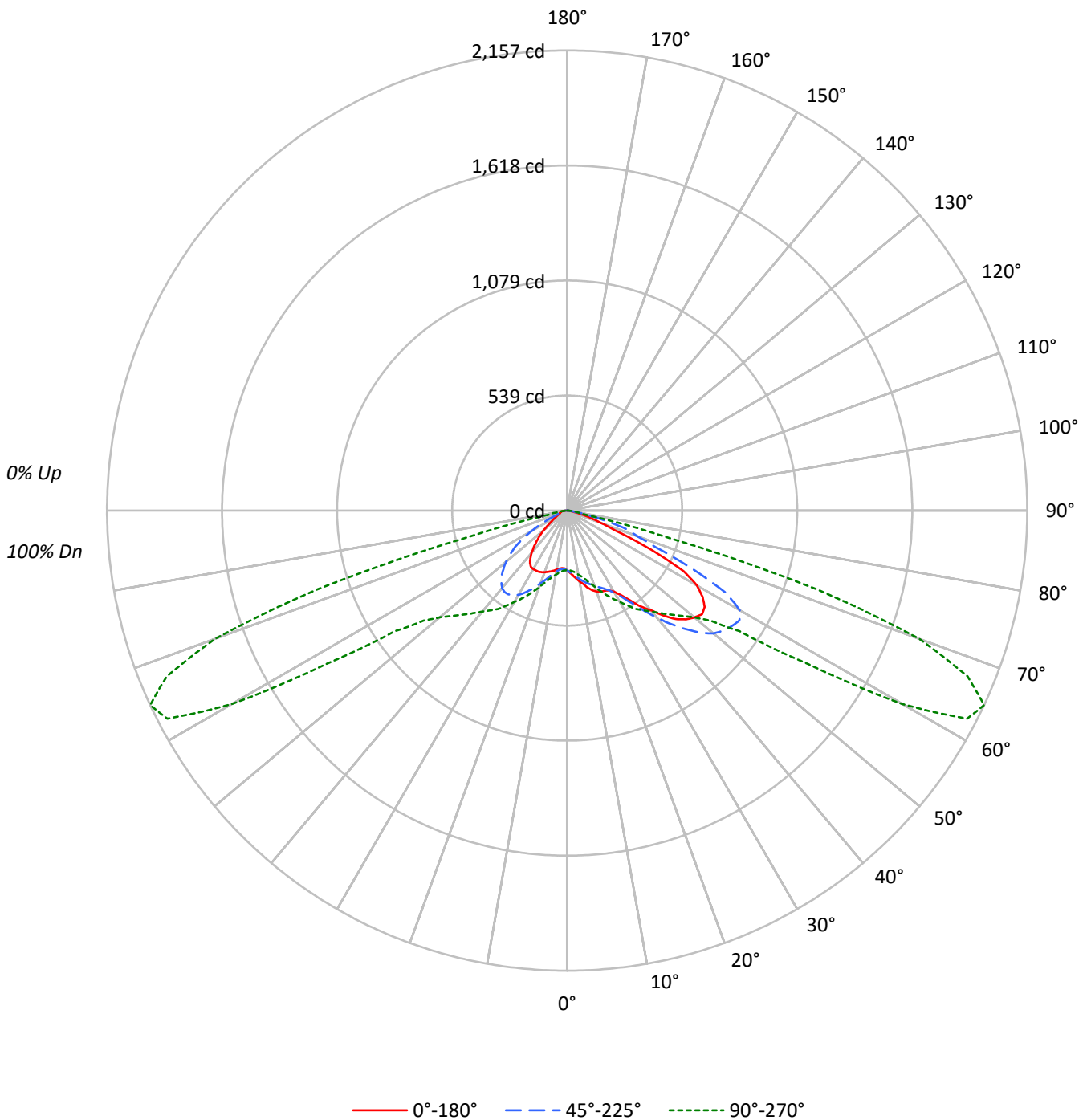
Lumens per Lamp: N/A
Luminaire Lumens: 2798.4 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 2.21 / 4.51 / 2.52
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (A_{in}): 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: P154529
CATALOG NUMBER: TLM-E01-LED-E1-T2-7030

Luminous Intensity Polar Plot





TEST NUMBER: P154529

CATALOG NUMBER: TLM-E01-LED-E1-T2-7030

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 | 107 | 101 | 96 | 91 | 104 | 98 | 94 | 90 | 94 | 90 | 87 | 90 | 87 | 84 | 86 | 84 | 81 | 79 |
| 2 | 94 | 84 | 76 | 69 | 91 | 82 | 75 | 68 | 78 | 72 | 66 | 75 | 70 | 65 | 72 | 67 | 63 | 61 |
| 3 | 84 | 71 | 61 | 53 | 81 | 69 | 60 | 53 | 66 | 58 | 51 | 63 | 56 | 50 | 60 | 54 | 50 | 47 |
| 4 | 75 | 60 | 50 | 42 | 72 | 59 | 49 | 41 | 56 | 48 | 41 | 54 | 46 | 40 | 51 | 45 | 39 | 37 |
| 5 | 67 | 52 | 42 | 34 | 65 | 51 | 41 | 33 | 49 | 40 | 33 | 46 | 39 | 33 | 44 | 38 | 32 | 30 |
| 6 | 61 | 46 | 35 | 28 | 59 | 45 | 35 | 27 | 43 | 34 | 27 | 41 | 33 | 27 | 39 | 32 | 27 | 24 |
| 7 | 56 | 40 | 30 | 23 | 54 | 40 | 30 | 23 | 38 | 29 | 23 | 36 | 28 | 23 | 35 | 28 | 22 | 20 |
| 8 | 52 | 36 | 26 | 20 | 50 | 35 | 26 | 20 | 34 | 26 | 19 | 33 | 25 | 19 | 31 | 24 | 19 | 17 |
| 9 | 48 | 33 | 23 | 17 | 46 | 32 | 23 | 17 | 31 | 23 | 17 | 30 | 22 | 17 | 28 | 22 | 17 | 15 |
| 10 | 45 | 30 | 21 | 15 | 43 | 29 | 21 | 15 | 28 | 20 | 15 | 27 | 20 | 15 | 26 | 19 | 15 | 13 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|--------|-------|
| 0° | 17716 | 17716 | 17716 |
| 5° | 19373 | 18152 | 17224 |
| 10° | 21667 | 19635 | 17989 |
| 15° | 24549 | 21933 | 19337 |
| 20° | 27222 | 25686 | 20720 |
| 25° | 28993 | 30523 | 22077 |
| 30° | 32009 | 36081 | 23147 |
| 35° | 39630 | 43533 | 23459 |
| 40° | 50304 | 51056 | 21366 |
| 45° | 64418 | 61776 | 18016 |
| 50° | 76744 | 76538 | 14066 |
| 55° | 86877 | 108789 | 10012 |
| 60° | 88948 | 229816 | 7864 |
| 65° | 65412 | 323119 | 6607 |
| 70° | 31064 | 325101 | 6535 |
| 75° | 16905 | 120729 | 7975 |
| 80° | 7985 | 19325 | 10210 |
| 85° | 3778 | 11914 | 11914 |



TEST NUMBER: P154529

CATALOG NUMBER: TLM-E01-LED-E1-T2-7030

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 28.0 | 1.0 |
| 10°-20° | 96.2 | 3.4 |
| 20°-30° | 189.1 | 6.8 |
| 30°-40° | 314.1 | 11.2 |
| 40°-50° | 461.6 | 16.5 |
| 50°-60° | 639.1 | 22.8 |
| 60°-70° | 762.8 | 27.3 |
| 70°-80° | 269.8 | 9.6 |
| 80°-90° | 37.7 | 1.3 |
| 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° | 313.3 | 11.2 |
| 0°-40° | 627.5 | 22.4 |
| 0°-60° | 1728.1 | 61.8 |
| 0°-90° | 2798.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2798.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|------|------|------|------|
| 0° | 280 | 280 | 280 | 280 | 280 | |
| 5° | 305 | 299 | 286 | 275 | 271 | 30 |
| 15° | 374 | 351 | 335 | 321 | 295 | 107 |
| 25° | 415 | 402 | 437 | 411 | 316 | 193 |
| 35° | 513 | 530 | 563 | 480 | 304 | 328 |
| 45° | 719 | 785 | 690 | 435 | 201 | 551 |
| 55° | 787 | 944 | 986 | 297 | 91 | 690 |
| 65° | 437 | 651 | 2157 | 92 | 44 | 426 |
| 75° | 69 | 196 | 494 | 37 | 33 | 85 |
| 85° | 5 | 11 | 16 | 28 | 16 | 7 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P154529

CATALOG NUMBER: TLM-E01-LED-E1-T2-7030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 0° | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 |
| 2.5° | 292.0 | 292.3 | 291.7 | 291.4 | 290.4 | 288.9 | 287.7 | 286.5 | 286.5 | 286.5 | 285.6 |
| 5° | 304.8 | 305.4 | 304.1 | 303.2 | 300.5 | 299.0 | 296.8 | 295.3 | 294.7 | 294.4 | 293.5 |
| 7.5° | 320.9 | 320.0 | 318.2 | 317.5 | 315.4 | 312.1 | 308.1 | 305.1 | 305.1 | 304.8 | 305.1 |
| 10° | 337.0 | 334.6 | 333.7 | 332.8 | 329.4 | 325.2 | 320.6 | 317.2 | 316.9 | 316.6 | 315.7 |
| 12.5° | 353.2 | 352.2 | 351.3 | 348.0 | 344.6 | 337.9 | 332.8 | 329.4 | 329.1 | 329.4 | 328.2 |
| 15° | 374.5 | 372.3 | 371.4 | 365.6 | 358.3 | 351.0 | 344.6 | 341.6 | 340.7 | 341.0 | 340.1 |
| 17.5° | 390.9 | 390.9 | 388.8 | 382.4 | 373.0 | 362.9 | 356.2 | 354.4 | 354.1 | 354.1 | 354.4 |
| 20° | 404.0 | 403.7 | 401.6 | 396.4 | 385.1 | 375.1 | 371.7 | 371.1 | 370.8 | 370.8 | 371.7 |
| 22.5° | 411.3 | 410.7 | 409.8 | 404.0 | 395.2 | 388.5 | 388.8 | 390.6 | 391.2 | 391.8 | 393.0 |
| 25° | 415.0 | 414.1 | 413.7 | 409.8 | 403.4 | 402.5 | 408.0 | 412.8 | 414.1 | 415.3 | 416.8 |
| 27.5° | 421.1 | 419.5 | 420.1 | 418.6 | 417.1 | 419.8 | 431.1 | 436.3 | 437.2 | 438.7 | 439.6 |
| 30° | 437.8 | 437.2 | 439.6 | 440.2 | 441.5 | 445.4 | 455.8 | 460.6 | 462.8 | 462.8 | 467.0 |
| 32.5° | 469.8 | 470.1 | 470.7 | 477.1 | 479.2 | 481.9 | 487.4 | 491.4 | 491.7 | 492.0 | 495.9 |
| 35° | 512.7 | 514.5 | 519.7 | 525.2 | 530.4 | 530.0 | 526.7 | 528.8 | 527.3 | 529.1 | 529.4 |
| 37.5° | 566.9 | 564.5 | 572.1 | 584.5 | 592.5 | 590.3 | 575.4 | 565.7 | 568.4 | 567.2 | 566.3 |
| 40° | 608.6 | 611.3 | 625.9 | 642.4 | 648.5 | 655.2 | 635.7 | 618.9 | 616.5 | 611.9 | 609.2 |
| 42.5° | 666.1 | 666.4 | 678.3 | 690.5 | 708.2 | 722.8 | 710.3 | 686.2 | 678.9 | 673.4 | 661.6 |
| 45° | 719.4 | 718.5 | 728.2 | 743.2 | 764.2 | 785.2 | 789.7 | 763.6 | 760.8 | 751.1 | 735.6 |
| 47.5° | 755.0 | 753.8 | 760.5 | 780.0 | 814.1 | 848.5 | 867.4 | 859.5 | 854.3 | 850.3 | 826.0 |
| 50° | 779.1 | 776.7 | 784.3 | 805.0 | 843.0 | 896.0 | 945.3 | 952.0 | 949.9 | 949.9 | 934.4 |
| 52.5° | 797.1 | 797.1 | 802.5 | 819.3 | 857.9 | 924.0 | 1012.3 | 1046.1 | 1048.8 | 1051.9 | 1051.0 |
| 55° | 787.0 | 788.5 | 802.2 | 826.6 | 867.4 | 943.5 | 1067.7 | 1141.7 | 1156.9 | 1169.7 | 1184.3 |
| 57.5° | 752.6 | 757.8 | 776.0 | 815.9 | 869.8 | 958.1 | 1129.2 | 1275.6 | 1318.6 | 1355.7 | 1413.6 |
| 60° | 702.4 | 709.1 | 735.6 | 786.4 | 851.9 | 934.4 | 1150.8 | 1388.9 | 1457.1 | 1538.1 | 1689.1 |
| 62.5° | 616.2 | 622.9 | 648.8 | 699.6 | 755.6 | 843.3 | 1061.3 | 1405.6 | 1514.6 | 1629.4 | 1857.8 |
| 65° | 436.6 | 425.9 | 455.8 | 501.4 | 565.7 | 650.6 | 857.6 | 1293.3 | 1450.1 | 1605.7 | 1887.6 |
| 67.5° | 243.3 | 242.3 | 260.6 | 294.7 | 356.2 | 447.5 | 590.9 | 991.9 | 1136.2 | 1312.5 | 1658.6 |
| 70° | 167.8 | 169.6 | 181.1 | 218.0 | 268.8 | 347.7 | 421.1 | 622.9 | 726.7 | 846.4 | 1186.7 |
| 72.5° | 117.8 | 121.8 | 128.2 | 150.1 | 202.2 | 292.9 | 430.2 | 372.3 | 424.1 | 505.7 | 713.6 |
| 75° | 69.1 | 71.9 | 76.4 | 87.1 | 115.1 | 195.8 | 445.4 | 327.3 | 327.3 | 346.5 | 431.7 |
| 77.5° | 42.6 | 42.6 | 45.4 | 49.6 | 61.2 | 95.9 | 317.2 | 367.8 | 357.4 | 346.5 | 347.4 |
| 80° | 21.9 | 23.4 | 27.4 | 29.5 | 34.1 | 43.8 | 142.5 | 343.1 | 376.3 | 398.5 | 383.0 |
| 82.5° | 10.0 | 11.3 | 16.7 | 18.0 | 19.8 | 23.1 | 49.0 | 195.2 | 261.5 | 344.3 | 430.2 |
| 85° | 5.2 | 5.2 | 8.8 | 11.0 | 11.9 | 10.7 | 18.0 | 78.9 | 119.3 | 182.1 | 285.0 |
| 87.5° | 0.9 | 0.9 | 1.5 | 1.8 | 2.7 | 2.4 | 3.0 | 4.6 | 7.6 | 8.2 | 8.5 |
| 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: P154529

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CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 71° | 72° | 73° | 74° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 |
| 2.5° | 285.3 | 285.6 | 285.3 | 285.0 | 284.4 | 284.4 | 284.4 | 284.1 | 284.1 | 284.1 | 283.7 |
| 5° | 293.5 | 292.3 | 292.6 | 292.0 | 291.7 | 291.4 | 291.7 | 291.1 | 290.4 | 290.7 | 290.4 |
| 7.5° | 303.8 | 303.2 | 302.0 | 302.0 | 301.7 | 301.1 | 301.1 | 300.2 | 299.9 | 299.3 | 299.0 |
| 10° | 315.4 | 313.9 | 314.5 | 313.9 | 314.2 | 313.0 | 312.4 | 311.8 | 311.1 | 311.1 | 311.5 |
| 12.5° | 327.3 | 327.0 | 326.1 | 325.5 | 325.5 | 324.5 | 324.8 | 324.5 | 323.6 | 323.3 | 322.4 |
| 15° | 339.5 | 339.5 | 338.5 | 338.9 | 338.5 | 337.9 | 337.3 | 337.3 | 336.7 | 336.1 | 336.4 |
| 17.5° | 353.8 | 353.8 | 353.8 | 353.8 | 354.1 | 353.2 | 353.5 | 352.9 | 352.2 | 353.5 | 353.5 |
| 20° | 372.3 | 373.6 | 373.6 | 373.3 | 374.8 | 373.9 | 373.6 | 375.1 | 373.6 | 375.7 | 375.4 |
| 22.5° | 393.7 | 394.9 | 394.9 | 396.1 | 396.4 | 397.3 | 397.9 | 397.3 | 398.5 | 399.7 | 399.7 |
| 25° | 417.4 | 418.6 | 419.5 | 421.4 | 422.3 | 421.7 | 422.0 | 423.5 | 424.1 | 425.3 | 426.5 |
| 27.5° | 442.4 | 442.7 | 443.9 | 446.0 | 447.5 | 448.2 | 448.5 | 450.9 | 451.2 | 451.8 | 453.0 |
| 30° | 466.7 | 469.8 | 469.2 | 471.9 | 472.8 | 473.7 | 475.6 | 476.5 | 478.6 | 479.8 | 479.8 |
| 32.5° | 495.3 | 494.7 | 497.2 | 499.3 | 500.8 | 502.3 | 503.9 | 505.1 | 506.3 | 506.9 | 510.0 |
| 35° | 531.0 | 532.2 | 532.2 | 532.5 | 536.1 | 536.4 | 537.7 | 540.4 | 541.3 | 543.1 | 544.4 |
| 37.5° | 566.3 | 564.1 | 563.8 | 563.8 | 562.6 | 563.5 | 563.8 | 564.1 | 565.4 | 565.7 | 566.9 |
| 40° | 605.9 | 603.1 | 600.7 | 599.2 | 596.7 | 593.4 | 592.8 | 591.2 | 592.2 | 591.9 | 592.2 |
| 42.5° | 660.0 | 652.4 | 646.7 | 642.4 | 637.5 | 633.9 | 631.1 | 627.2 | 624.4 | 621.1 | 620.5 |
| 45° | 729.2 | 714.8 | 705.1 | 698.1 | 691.1 | 681.1 | 675.3 | 669.2 | 663.7 | 658.2 | 653.7 |
| 47.5° | 819.9 | 804.7 | 789.1 | 776.3 | 765.4 | 749.3 | 732.8 | 723.7 | 713.0 | 703.6 | 696.9 |
| 50° | 926.7 | 908.5 | 901.2 | 883.2 | 869.5 | 845.2 | 824.8 | 809.8 | 788.5 | 774.2 | 761.7 |
| 52.5° | 1036.0 | 1031.5 | 1027.5 | 1012.3 | 996.2 | 982.2 | 964.2 | 938.0 | 916.4 | 900.0 | 874.4 |
| 55° | 1184.9 | 1187.1 | 1185.5 | 1177.3 | 1171.5 | 1158.1 | 1150.8 | 1128.0 | 1118.2 | 1094.5 | 1067.7 |
| 57.5° | 1435.5 | 1452.5 | 1474.1 | 1482.7 | 1494.2 | 1483.3 | 1496.1 | 1511.6 | 1472.9 | 1486.3 | 1462.3 |
| 60° | 1755.5 | 1833.7 | 1880.3 | 1937.5 | 1975.0 | 2027.3 | 2036.8 | 2050.5 | 2046.5 | 2054.1 | 2069.7 |
| 62.5° | 1950.9 | 2043.8 | 2133.0 | 2197.8 | 2267.2 | 2305.6 | 2351.9 | 2384.1 | 2417.6 | 2440.2 | 2433.8 |
| 65° | 2008.5 | 2104.1 | 2185.0 | 2256.0 | 2318.1 | 2365.0 | 2407.9 | 2448.4 | 2479.1 | 2500.8 | 2513.5 |
| 67.5° | 1797.2 | 1922.0 | 2007.2 | 2090.4 | 2170.4 | 2219.7 | 2255.7 | 2294.9 | 2340.0 | 2377.5 | 2384.8 |
| 70° | 1352.4 | 1539.6 | 1660.5 | 1760.0 | 1854.1 | 1920.5 | 1970.7 | 2007.2 | 2042.3 | 2069.0 | 2098.3 |
| 72.5° | 845.8 | 1009.6 | 1147.8 | 1276.9 | 1376.7 | 1468.1 | 1510.4 | 1591.4 | 1580.7 | 1601.1 | 1623.0 |
| 75° | 506.9 | 586.7 | 662.8 | 753.8 | 806.2 | 882.3 | 896.0 | 909.4 | 902.4 | 879.6 | 896.6 |
| 77.5° | 352.2 | 365.3 | 364.7 | 359.6 | 354.1 | 340.7 | 323.3 | 313.9 | 307.5 | 298.4 | 302.0 |
| 80° | 354.4 | 326.1 | 282.8 | 237.8 | 196.4 | 169.0 | 158.0 | 158.0 | 169.3 | 185.4 | 201.5 |
| 82.5° | 423.5 | 393.3 | 350.7 | 293.5 | 232.6 | 189.4 | 160.4 | 148.9 | 151.0 | 167.4 | 188.2 |
| 85° | 285.6 | 292.3 | 256.3 | 234.4 | 185.7 | 144.6 | 121.2 | 98.3 | 87.1 | 89.8 | 101.7 |
| 87.5° | 10.4 | 12.5 | 4.6 | 6.1 | 4.3 | 3.7 | 3.7 | 4.0 | 2.7 | 3.3 | 3.0 |
| 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: P154529

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CANDELA DISTRIBUTION (continued):

| | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° | 84° | 85° | 86° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 |
| 2.5° | 283.4 | 283.1 | 283.1 | 282.5 | 282.5 | 282.2 | 282.2 | 281.9 | 281.6 | 281.6 | 281.3 |
| 5° | 290.1 | 289.8 | 289.2 | 288.9 | 288.3 | 288.3 | 288.0 | 287.4 | 287.4 | 286.8 | 286.5 |
| 7.5° | 299.6 | 299.0 | 298.4 | 298.1 | 297.8 | 296.8 | 296.8 | 296.2 | 296.2 | 295.6 | 295.3 |
| 10° | 310.8 | 310.2 | 309.6 | 309.9 | 309.0 | 308.7 | 308.1 | 308.1 | 307.2 | 306.9 | 306.9 |
| 12.5° | 323.0 | 322.7 | 322.7 | 321.8 | 321.5 | 321.2 | 320.0 | 320.0 | 320.0 | 319.4 | 319.7 |
| 15° | 336.1 | 336.4 | 335.5 | 336.4 | 336.1 | 335.2 | 335.2 | 335.2 | 334.0 | 335.5 | 334.3 |
| 17.5° | 353.8 | 354.7 | 354.1 | 354.4 | 353.8 | 353.8 | 354.1 | 353.8 | 354.4 | 354.4 | 356.2 |
| 20° | 375.7 | 376.0 | 377.5 | 376.9 | 376.9 | 376.6 | 377.2 | 377.5 | 378.7 | 378.1 | 379.3 |
| 22.5° | 399.7 | 401.3 | 401.6 | 402.8 | 402.8 | 402.5 | 403.1 | 404.3 | 404.9 | 405.8 | 405.5 |
| 25° | 427.1 | 428.1 | 429.3 | 427.8 | 430.2 | 430.2 | 430.8 | 432.3 | 432.6 | 432.6 | 434.8 |
| 27.5° | 452.7 | 455.2 | 455.5 | 457.0 | 456.1 | 456.7 | 458.8 | 459.7 | 460.9 | 460.9 | 461.5 |
| 30° | 481.6 | 482.6 | 483.2 | 485.0 | 484.7 | 485.0 | 485.3 | 486.8 | 486.8 | 488.3 | 489.9 |
| 32.5° | 511.5 | 512.1 | 512.7 | 514.5 | 515.1 | 516.3 | 515.7 | 517.0 | 518.5 | 518.8 | 519.7 |
| 35° | 547.1 | 547.7 | 548.3 | 551.1 | 551.4 | 553.5 | 554.1 | 553.5 | 555.9 | 554.4 | 555.9 |
| 37.5° | 567.8 | 570.5 | 571.1 | 573.0 | 572.4 | 573.9 | 574.8 | 576.0 | 576.6 | 577.8 | 580.3 |
| 40° | 593.1 | 594.0 | 595.8 | 596.7 | 597.9 | 598.2 | 599.5 | 600.4 | 601.3 | 604.0 | 606.8 |
| 42.5° | 618.9 | 620.2 | 621.1 | 622.3 | 623.8 | 625.0 | 625.9 | 628.7 | 629.3 | 631.1 | 636.3 |
| 45° | 650.3 | 649.7 | 650.0 | 650.3 | 650.9 | 652.4 | 655.2 | 657.9 | 659.7 | 664.0 | 668.3 |
| 47.5° | 689.3 | 685.3 | 683.8 | 681.4 | 682.0 | 685.3 | 685.9 | 690.5 | 694.1 | 698.1 | 703.3 |
| 50° | 748.3 | 737.7 | 731.3 | 724.9 | 724.3 | 726.1 | 728.5 | 733.4 | 737.7 | 742.9 | 750.2 |
| 52.5° | 847.6 | 827.2 | 814.4 | 796.7 | 791.9 | 791.0 | 789.1 | 791.9 | 793.1 | 800.1 | 813.8 |
| 55° | 1048.5 | 1010.8 | 986.4 | 959.0 | 933.4 | 925.8 | 911.2 | 914.3 | 911.2 | 915.5 | 935.9 |
| 57.5° | 1468.1 | 1437.9 | 1414.2 | 1379.2 | 1335.3 | 1288.7 | 1277.2 | 1229.4 | 1238.8 | 1266.2 | 1248.5 |
| 60° | 2077.3 | 2066.3 | 2049.3 | 2032.5 | 1972.5 | 1938.7 | 1883.6 | 1877.5 | 1838.9 | 1839.2 | 1813.9 |
| 62.5° | 2418.2 | 2432.3 | 2421.9 | 2417.0 | 2413.7 | 2403.0 | 2375.6 | 2342.7 | 2293.4 | 2257.8 | 2205.4 |
| 65° | 2515.7 | 2503.8 | 2492.5 | 2491.0 | 2490.1 | 2507.5 | 2511.4 | 2488.3 | 2443.5 | 2388.1 | 2327.8 |
| 67.5° | 2402.1 | 2395.4 | 2396.0 | 2383.2 | 2391.2 | 2421.3 | 2442.3 | 2435.9 | 2394.8 | 2327.8 | 2251.1 |
| 70° | 2131.8 | 2118.7 | 2132.1 | 2148.8 | 2160.7 | 2178.0 | 2199.0 | 2204.2 | 2166.8 | 2098.0 | 2019.7 |
| 72.5° | 1596.2 | 1598.4 | 1611.2 | 1615.7 | 1663.5 | 1658.6 | 1677.5 | 1616.0 | 1588.9 | 1523.5 | 1483.3 |
| 75° | 840.0 | 826.3 | 861.9 | 786.4 | 755.3 | 777.0 | 716.4 | 658.2 | 670.4 | 680.4 | 608.0 |
| 77.5° | 296.8 | 277.7 | 245.1 | 232.0 | 193.0 | 163.5 | 133.7 | 120.6 | 113.6 | 109.9 | 105.3 |
| 80° | 213.1 | 219.2 | 212.5 | 196.7 | 167.1 | 134.0 | 105.6 | 83.4 | 71.5 | 65.2 | 60.9 |
| 82.5° | 215.6 | 239.6 | 250.3 | 245.7 | 218.9 | 165.6 | 109.3 | 69.7 | 51.8 | 43.2 | 40.2 |
| 85° | 115.7 | 126.7 | 121.8 | 102.6 | 92.2 | 55.1 | 37.8 | 25.3 | 21.3 | 19.5 | 18.0 |
| 87.5° | 4.6 | 3.7 | 3.0 | 3.0 | 3.3 | 3.7 | 3.0 | 3.3 | 3.0 | 3.0 | 3.0 |
| 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: P154529

CATALOG NUMBER: TLM-E01-LED-E1-T2-7030

CANDELA DISTRIBUTION (continued):

| | 87° | 88° | 89° | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 0° | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 |
| 2.5° | 280.7 | 280.7 | 280.7 | 280.4 | 279.8 | 278.3 | 276.7 | 275.5 | 274.6 | 273.7 | 272.5 |
| 5° | 286.2 | 285.6 | 285.6 | 285.6 | 283.1 | 280.7 | 278.6 | 276.4 | 274.6 | 273.1 | 271.9 |
| 7.5° | 295.3 | 295.0 | 293.8 | 293.5 | 291.7 | 287.7 | 285.3 | 281.6 | 279.5 | 277.4 | 276.7 |
| 10° | 306.3 | 306.0 | 305.7 | 305.4 | 302.9 | 299.0 | 295.9 | 292.6 | 289.5 | 286.5 | 283.4 |
| 12.5° | 319.1 | 318.8 | 318.5 | 317.5 | 316.6 | 314.5 | 311.1 | 307.5 | 303.8 | 297.4 | 294.1 |
| 15° | 334.9 | 335.5 | 334.9 | 334.6 | 334.0 | 334.3 | 332.2 | 327.0 | 321.2 | 313.0 | 306.0 |
| 17.5° | 355.9 | 355.3 | 355.0 | 356.2 | 355.9 | 357.4 | 356.8 | 350.1 | 341.3 | 328.2 | 316.0 |
| 20° | 379.0 | 379.0 | 380.3 | 381.2 | 383.9 | 387.9 | 386.0 | 377.8 | 361.7 | 343.4 | 327.6 |
| 22.5° | 406.7 | 407.4 | 408.6 | 408.0 | 412.2 | 418.6 | 419.2 | 407.7 | 386.7 | 361.4 | 339.2 |
| 25° | 435.7 | 436.3 | 435.1 | 436.9 | 443.9 | 453.0 | 454.8 | 438.4 | 410.7 | 377.8 | 348.9 |
| 27.5° | 463.1 | 463.7 | 463.7 | 466.1 | 472.8 | 488.3 | 490.2 | 471.9 | 435.1 | 392.1 | 355.9 |
| 30° | 489.9 | 492.3 | 492.9 | 493.5 | 503.6 | 525.2 | 529.1 | 502.6 | 456.4 | 402.8 | 360.8 |
| 32.5° | 523.7 | 524.6 | 525.8 | 527.3 | 538.9 | 565.4 | 565.4 | 529.1 | 470.1 | 409.5 | 361.7 |
| 35° | 559.9 | 560.2 | 562.9 | 563.2 | 579.7 | 606.2 | 601.0 | 551.1 | 479.8 | 408.0 | 355.0 |
| 37.5° | 581.8 | 583.0 | 585.8 | 589.4 | 606.8 | 644.2 | 632.3 | 569.9 | 481.6 | 397.9 | 339.8 |
| 40° | 608.9 | 611.3 | 614.1 | 617.7 | 643.6 | 682.9 | 658.8 | 581.8 | 474.0 | 378.1 | 316.9 |
| 42.5° | 638.1 | 641.5 | 645.7 | 652.4 | 683.2 | 717.0 | 678.9 | 583.6 | 456.7 | 355.9 | 289.8 |
| 45° | 671.0 | 677.1 | 682.0 | 689.9 | 724.6 | 746.5 | 691.1 | 573.0 | 434.8 | 326.7 | 260.9 |
| 47.5° | 709.1 | 713.9 | 722.5 | 731.0 | 765.7 | 766.6 | 692.3 | 552.3 | 404.9 | 297.4 | 230.2 |
| 50° | 755.9 | 759.0 | 771.8 | 777.0 | 809.5 | 787.6 | 683.5 | 524.3 | 373.6 | 264.6 | 196.1 |
| 52.5° | 818.4 | 822.6 | 839.1 | 847.0 | 870.1 | 816.2 | 671.0 | 493.8 | 337.6 | 227.7 | 161.1 |
| 55° | 941.7 | 960.2 | 971.8 | 985.5 | 1000.4 | 881.1 | 665.5 | 461.2 | 297.1 | 185.1 | 127.6 |
| 57.5° | 1287.8 | 1281.7 | 1307.3 | 1338.4 | 1338.1 | 1029.3 | 698.4 | 433.2 | 249.3 | 141.6 | 98.0 |
| 60° | 1803.6 | 1809.3 | 1796.3 | 1814.8 | 1755.8 | 1213.2 | 743.5 | 403.7 | 195.5 | 105.3 | 74.9 |
| 62.5° | 2186.9 | 2153.4 | 2134.8 | 2112.9 | 1982.9 | 1233.3 | 710.6 | 343.1 | 142.2 | 74.0 | 57.5 |
| 65° | 2277.6 | 2238.3 | 2198.4 | 2156.7 | 1960.7 | 1111.9 | 583.0 | 251.8 | 91.9 | 50.8 | 45.7 |
| 67.5° | 2188.1 | 2125.1 | 2074.2 | 2031.3 | 1796.6 | 921.6 | 426.2 | 154.7 | 52.7 | 41.1 | 39.0 |
| 70° | 1956.1 | 1886.4 | 1804.2 | 1756.1 | 1512.8 | 679.2 | 273.1 | 83.4 | 40.5 | 36.5 | 35.6 |
| 72.5° | 1431.8 | 1374.6 | 1284.8 | 1229.7 | 1086.3 | 412.8 | 152.5 | 46.9 | 37.8 | 35.0 | 33.8 |
| 75° | 557.8 | 527.9 | 490.5 | 493.5 | 440.5 | 182.7 | 69.1 | 40.5 | 36.8 | 34.4 | 33.2 |
| 77.5° | 95.9 | 93.5 | 86.5 | 86.5 | 98.3 | 66.7 | 46.0 | 40.8 | 36.5 | 33.8 | 31.7 |
| 80° | 57.5 | 56.3 | 53.6 | 53.0 | 51.1 | 46.9 | 44.1 | 41.4 | 35.9 | 32.0 | 29.2 |
| 82.5° | 37.8 | 36.2 | 35.3 | 35.0 | 38.1 | 41.1 | 41.4 | 41.1 | 34.1 | 27.7 | 23.7 |
| 85° | 16.1 | 16.1 | 16.1 | 16.4 | 21.9 | 33.2 | 34.1 | 36.5 | 28.0 | 21.6 | 17.0 |
| 87.5° | 2.7 | 3.3 | 3.3 | 3.7 | 4.0 | 7.3 | 9.1 | 11.9 | 9.4 | 9.1 | 8.2 |
| 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: P154529

CATALOG NUMBER: TLM-E01-LED-E1-T2-7030

CANDELA DISTRIBUTION (continued):

| | 165° | 175° | 180° |
|-------|-------|-------|-------|
| 0° | 279.8 | 279.8 | 279.8 |
| 2.5° | 272.2 | 271.6 | 271.6 |
| 5° | 271.3 | 270.7 | 271.0 |
| 7.5° | 274.9 | 273.7 | 274.0 |
| 10° | 281.6 | 280.4 | 279.8 |
| 12.5° | 290.1 | 288.6 | 288.6 |
| 15° | 299.0 | 295.3 | 295.0 |
| 17.5° | 306.3 | 301.7 | 301.1 |
| 20° | 314.5 | 308.4 | 307.5 |
| 22.5° | 322.1 | 313.9 | 312.7 |
| 25° | 327.6 | 317.5 | 316.0 |
| 27.5° | 330.0 | 318.2 | 316.9 |
| 30° | 331.9 | 318.5 | 316.6 |
| 32.5° | 330.0 | 315.7 | 314.2 |
| 35° | 320.0 | 304.5 | 303.5 |
| 37.5° | 302.6 | 285.3 | 284.1 |
| 40° | 279.8 | 261.5 | 258.5 |
| 42.5° | 250.6 | 233.5 | 230.2 |
| 45° | 222.2 | 202.8 | 201.2 |
| 47.5° | 191.8 | 173.2 | 174.1 |
| 50° | 159.8 | 143.1 | 142.8 |
| 52.5° | 129.4 | 114.8 | 113.9 |
| 55° | 102.0 | 91.6 | 90.7 |
| 57.5° | 80.7 | 75.2 | 74.3 |
| 60° | 65.8 | 63.0 | 62.1 |
| 62.5° | 53.0 | 52.1 | 51.8 |
| 65° | 44.1 | 44.1 | 44.1 |
| 67.5° | 38.4 | 38.7 | 38.7 |
| 70° | 35.3 | 35.6 | 35.3 |
| 72.5° | 34.1 | 35.0 | 35.0 |
| 75° | 33.2 | 33.8 | 32.6 |
| 77.5° | 32.6 | 32.9 | 30.7 |
| 80° | 32.3 | 32.0 | 28.0 |
| 82.5° | 28.0 | 27.1 | 23.7 |
| 85° | 25.6 | 19.5 | 16.4 |
| 87.5° | 13.1 | 9.1 | 7.0 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)