

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P140746

Luminaire Tested: **ECM-F01-LED-E1-RW-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140746
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33689)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-F01-LED-E1-RW-7050
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (7) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2505.1 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

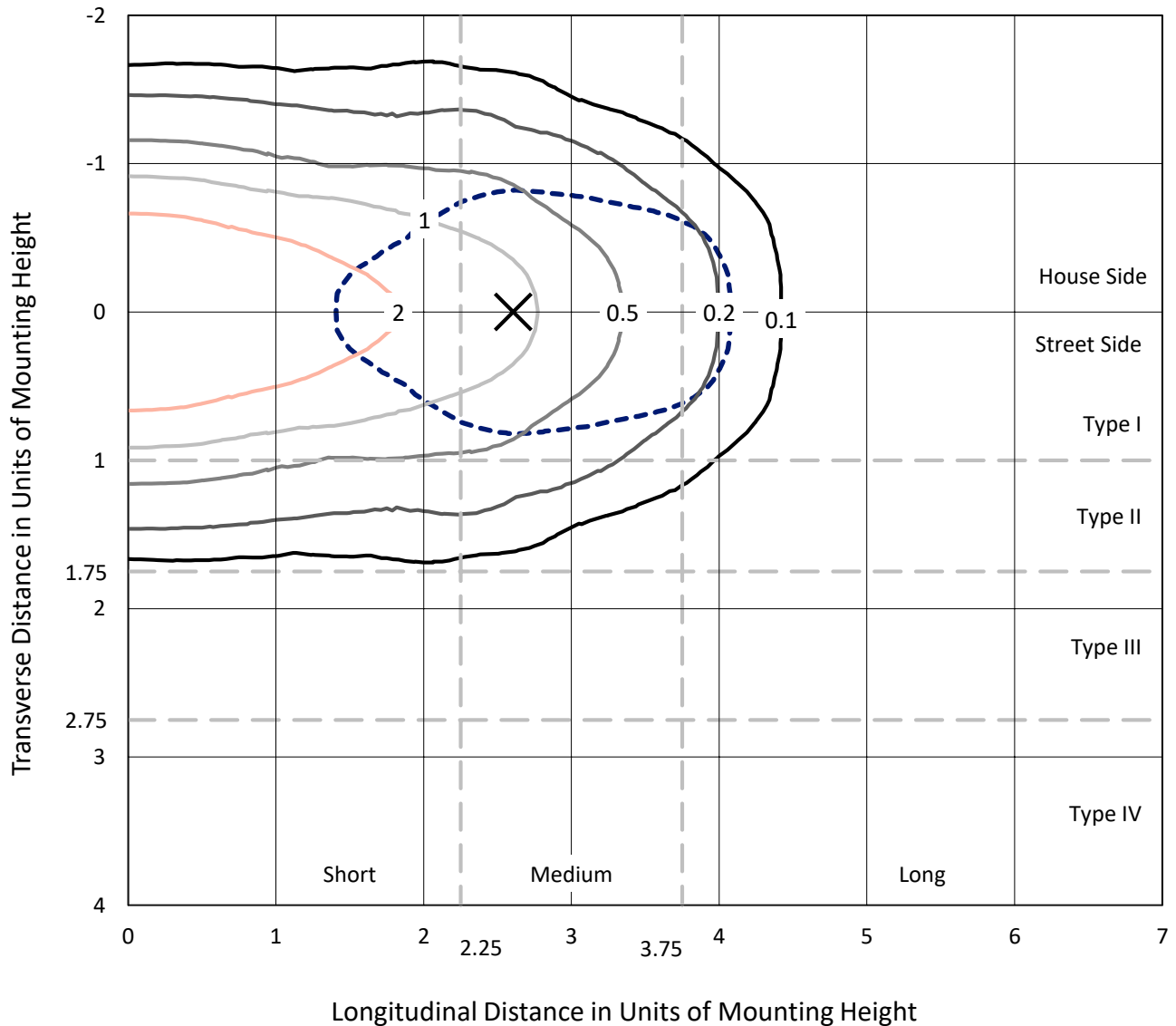
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P140746
 CATALOG NUMBER: ECM-F01-LED-E1-RW-7050

Iso-Footcandle Lines of Horizontal Illumination

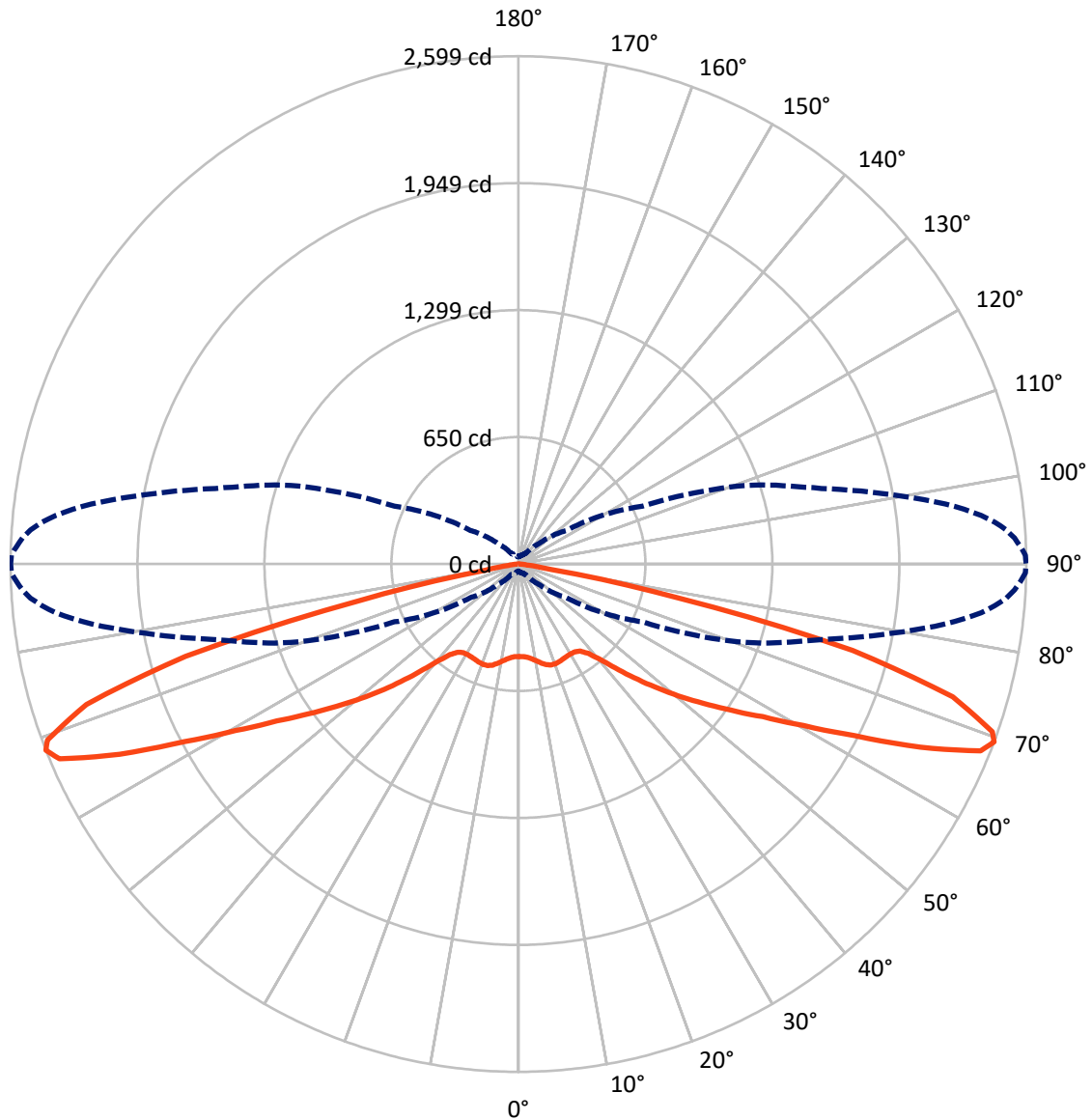
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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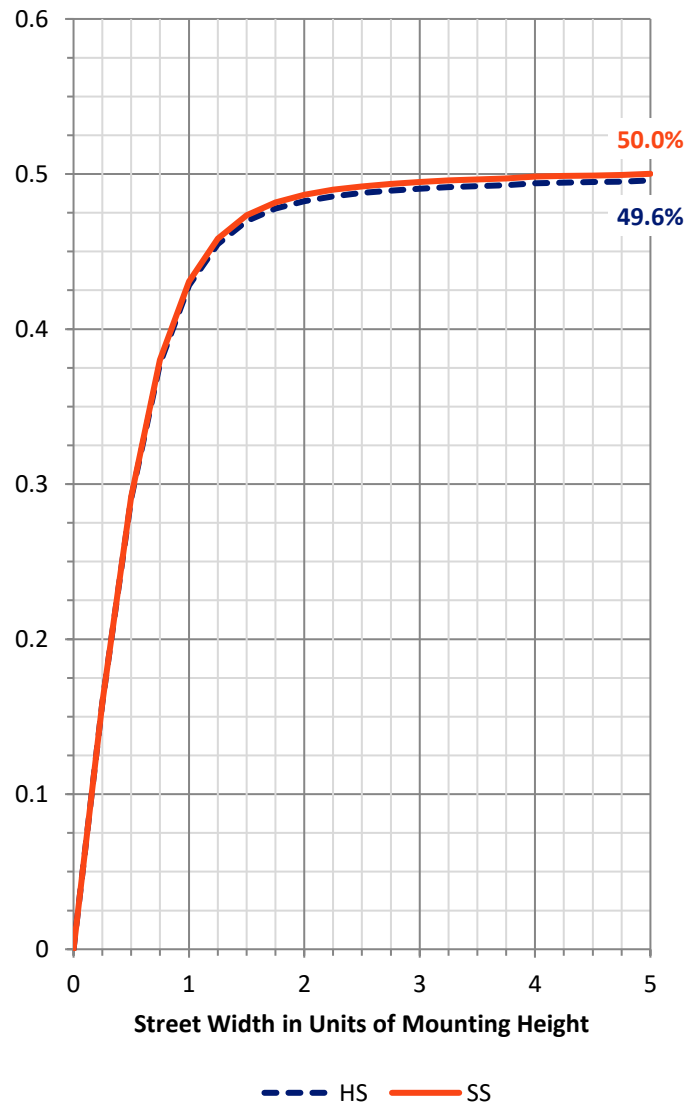
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1252.5 | 0.0 | 1252.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1252.5 | 0.0 | 1252.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 2505.1 | 0.0 | 2505.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 46.3 | 1.8 |
| 10°-20° | 145.6 | 5.8 |
| 20°-30° | 235.4 | 9.4 |
| 30°-40° | 294.1 | 11.7 |
| 40°-50° | 367.8 | 14.7 |
| 50°-60° | 453.2 | 18.1 |
| 60°-70° | 561.1 | 22.4 |
| 70°-80° | 366.7 | 14.6 |
| 80°-90° | 34.8 | 1.4 |
| 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°-90° | 2505.1 | 100.0 |
| 0°-180° | 2505.1 | 100.0 |



REPORT NUMBER: P140746

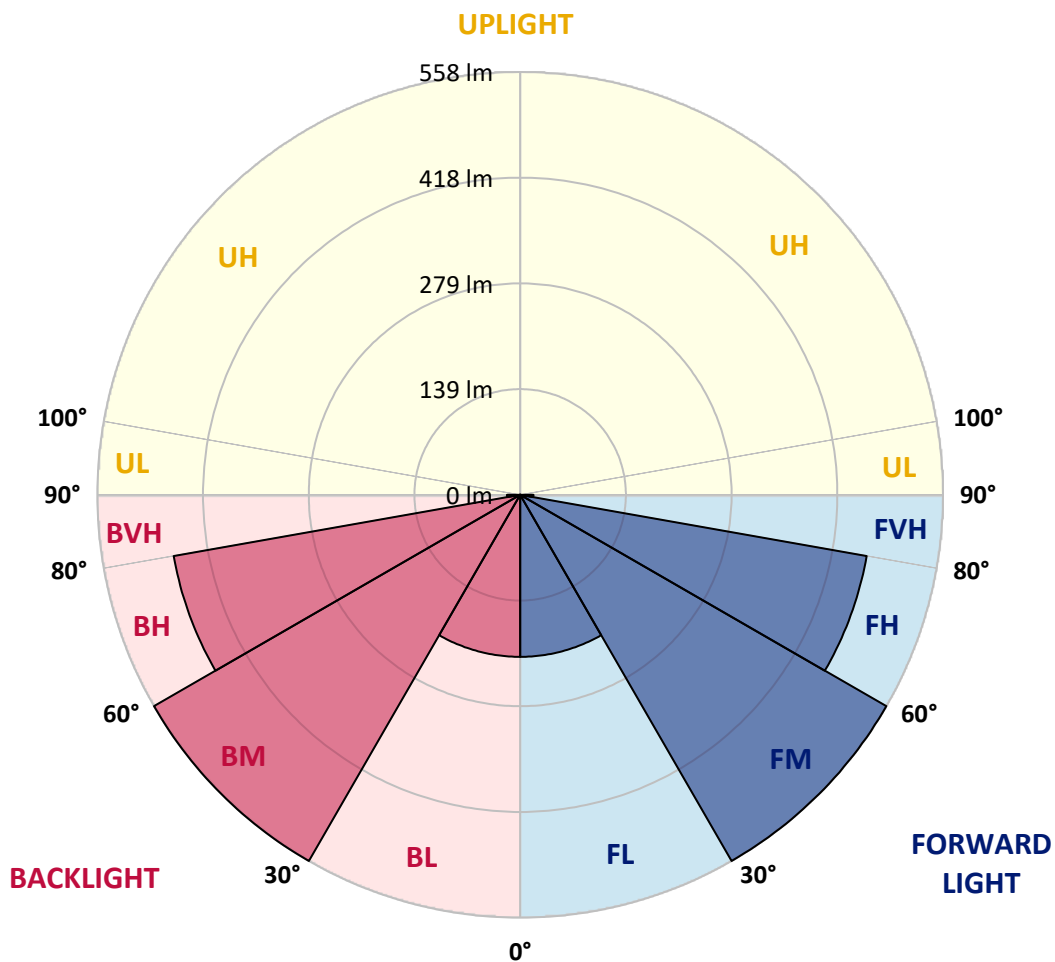
CATALOG NUMBER: ECM-F01-LED-E1-RW-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 213.7 | 8.5 | | | |
| FM | (30°-60°) | 557.5 | 22.3 | | | |
| FH | (60°-80°) | 463.9 | 18.5 | | | G0/660 |
| FVH | (80°-90°) | 17.4 | 0.7 | | | G1/100 |
| BL | (0°-30°) | 213.7 | 8.5 | B1/500 | | |
| BM | (30°-60°) | 557.5 | 22.3 | B1/1000 | | |
| BH | (60°-80°) | 463.9 | 18.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 17.4 | 0.7 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type I Short





REPORT NUMBER: P140746

CATALOG NUMBER: ECM-F01-LED-E1-RW-7050

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 67° | 68° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0° | 473.0 | 473.0 | 473.0 | 473.0 | 473.0 | 473.0 | 473.0 | 473.0 | 473.0 | 473.0 | 473.0 |
| 2.5° | 476.0 | 476.3 | 475.5 | 475.8 | 476.0 | 475.8 | 475.4 | 475.4 | 475.2 | 475.1 | 475.0 |
| 5° | 479.2 | 479.3 | 478.9 | 479.6 | 479.7 | 480.2 | 480.2 | 480.3 | 480.2 | 480.1 | 480.0 |
| 7.5° | 483.6 | 484.1 | 483.7 | 484.7 | 485.7 | 487.0 | 487.8 | 489.4 | 489.4 | 489.4 | 489.4 |
| 10° | 487.6 | 488.2 | 488.2 | 490.5 | 492.8 | 495.6 | 498.4 | 501.0 | 501.2 | 501.4 | 501.6 |
| 12.5° | 490.8 | 491.2 | 491.8 | 496.0 | 501.3 | 505.8 | 510.8 | 515.0 | 515.2 | 515.3 | 515.5 |
| 15° | 489.4 | 490.4 | 493.7 | 500.2 | 509.6 | 517.2 | 523.2 | 528.3 | 528.6 | 529.0 | 529.3 |
| 17.5° | 485.1 | 486.6 | 491.3 | 502.4 | 516.8 | 528.9 | 536.0 | 537.4 | 537.7 | 537.9 | 538.1 |
| 20° | 475.6 | 477.9 | 485.2 | 500.9 | 522.4 | 538.6 | 545.8 | 543.2 | 543.0 | 542.8 | 542.6 |
| 22.5° | 459.8 | 462.8 | 472.0 | 494.2 | 522.8 | 545.6 | 552.7 | 545.7 | 544.9 | 544.1 | 543.3 |
| 25° | 438.6 | 441.0 | 451.5 | 477.9 | 516.3 | 546.9 | 557.1 | 547.2 | 545.9 | 544.7 | 543.4 |
| 27.5° | 413.0 | 414.9 | 427.9 | 456.0 | 500.2 | 540.4 | 559.9 | 549.9 | 548.3 | 546.6 | 545.0 |
| 30° | 384.0 | 385.7 | 400.0 | 429.9 | 477.6 | 526.2 | 559.6 | 556.0 | 554.0 | 552.0 | 550.1 |
| 32.5° | 355.2 | 355.9 | 368.6 | 401.5 | 452.5 | 505.2 | 555.0 | 565.3 | 563.4 | 561.5 | 559.6 |
| 35° | 323.6 | 325.8 | 339.4 | 375.2 | 424.1 | 482.0 | 548.8 | 578.3 | 577.2 | 576.1 | 575.1 |
| 37.5° | 298.2 | 298.9 | 313.4 | 350.7 | 401.1 | 461.0 | 540.8 | 594.9 | 595.7 | 596.4 | 597.2 |
| 40° | 272.8 | 272.8 | 287.2 | 325.8 | 378.0 | 442.0 | 534.2 | 615.4 | 619.3 | 623.1 | 627.0 |
| 42.5° | 245.0 | 246.9 | 261.0 | 299.5 | 355.8 | 426.0 | 530.8 | 640.0 | 647.2 | 654.5 | 661.8 |
| 45° | 219.0 | 220.2 | 234.6 | 272.4 | 328.0 | 407.6 | 529.8 | 667.4 | 678.5 | 689.5 | 700.6 |
| 47.5° | 193.4 | 195.2 | 209.0 | 243.6 | 297.6 | 383.2 | 528.6 | 698.6 | 712.7 | 726.8 | 741.0 |
| 50° | 169.7 | 170.8 | 186.1 | 217.6 | 267.7 | 351.6 | 520.2 | 733.4 | 750.7 | 768.0 | 785.2 |
| 52.5° | 144.6 | 146.8 | 159.4 | 191.9 | 237.4 | 317.5 | 498.4 | 771.4 | 792.3 | 813.2 | 834.1 |
| 55° | 118.3 | 117.8 | 132.8 | 163.4 | 211.0 | 284.9 | 458.0 | 804.3 | 829.5 | 854.7 | 879.9 |
| 57.5° | 86.7 | 88.6 | 102.4 | 133.3 | 180.4 | 257.5 | 410.4 | 821.4 | 852.8 | 884.3 | 915.8 |
| 60° | 62.1 | 64.6 | 76.6 | 101.1 | 149.9 | 230.7 | 361.8 | 809.5 | 851.2 | 892.9 | 934.5 |
| 62.5° | 48.6 | 49.7 | 60.0 | 75.8 | 116.9 | 202.6 | 329.2 | 778.7 | 836.2 | 893.6 | 951.1 |
| 65° | 42.4 | 43.7 | 52.8 | 61.0 | 88.8 | 175.9 | 309.6 | 754.2 | 830.0 | 905.9 | 981.7 |
| 67.5° | 38.6 | 40.1 | 48.0 | 53.6 | 72.8 | 153.2 | 305.0 | 734.1 | 823.1 | 912.0 | 1001.0 |
| 69° | 36.7 | 38.3 | 45.6 | 50.8 | 67.6 | 146.0 | 299.6 | 700.4 | 790.7 | 881.0 | 971.3 |
| 70° | 35.8 | 37.1 | 44.2 | 49.1 | 66.0 | 141.8 | 287.4 | 661.8 | 749.1 | 836.4 | 923.7 |
| 72.5° | 33.0 | 33.7 | 40.2 | 45.1 | 62.4 | 118.6 | 227.8 | 495.4 | 568.3 | 641.3 | 714.2 |
| 75° | 29.2 | 30.4 | 36.2 | 41.2 | 50.1 | 76.0 | 149.4 | 299.5 | 353.5 | 407.5 | 461.5 |
| 77.5° | 25.1 | 26.1 | 31.2 | 39.4 | 38.5 | 46.0 | 85.8 | 167.3 | 196.5 | 225.7 | 254.9 |
| 80° | 21.8 | 22.8 | 27.4 | 36.6 | 31.4 | 34.0 | 57.9 | 109.1 | 120.2 | 131.3 | 142.4 |
| 82.5° | 17.0 | 17.8 | 23.0 | 29.8 | 24.2 | 25.2 | 43.4 | 95.3 | 102.0 | 108.7 | 115.4 |
| 85° | 10.9 | 11.3 | 16.8 | 20.4 | 16.9 | 15.0 | 27.2 | 69.8 | 75.1 | 80.4 | 85.7 |
| 87.5° | 3.8 | 5.4 | 7.5 | 7.0 | 7.0 | 5.4 | 9.6 | 25.8 | 27.9 | 30.0 | 32.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P140746

CATALOG NUMBER: ECM-F01-LED-E1-RW-7050

CANDELA DISTRIBUTION (continued):

| | 69° | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 473.0 | 473.0 | 473.0 | 473.0 | 473.0 | 473.0 | 473.0 | 473.0 | 473.0 | 473.0 | 473.0 |
| 2.5° | 474.8 | 474.6 | 474.8 | 474.8 | 474.6 | 474.5 | 474.5 | 474.4 | 474.1 | 474.1 | 474.0 |
| 5° | 479.9 | 479.8 | 480.2 | 480.0 | 480.2 | 480.0 | 480.0 | 479.8 | 480.0 | 479.4 | 479.3 |
| 7.5° | 489.4 | 489.4 | 489.4 | 489.8 | 489.4 | 489.3 | 489.6 | 489.6 | 489.6 | 489.3 | 489.3 |
| 10° | 501.7 | 501.9 | 502.2 | 502.4 | 502.4 | 502.4 | 503.0 | 502.6 | 503.4 | 502.6 | 503.0 |
| 12.5° | 515.7 | 515.8 | 516.6 | 516.8 | 517.2 | 517.2 | 517.2 | 518.0 | 518.6 | 518.4 | 518.6 |
| 15° | 529.6 | 530.0 | 530.2 | 530.6 | 530.6 | 530.7 | 531.2 | 532.2 | 532.0 | 532.5 | 532.6 |
| 17.5° | 538.4 | 538.6 | 538.4 | 538.4 | 538.8 | 539.2 | 539.8 | 540.3 | 540.2 | 540.6 | 540.8 |
| 20° | 542.4 | 542.2 | 541.7 | 541.4 | 541.2 | 541.6 | 541.6 | 541.8 | 542.0 | 542.0 | 542.0 |
| 22.5° | 542.5 | 541.7 | 540.7 | 540.2 | 539.4 | 539.0 | 539.3 | 539.0 | 539.0 | 539.0 | 538.8 |
| 25° | 542.1 | 540.8 | 539.3 | 538.2 | 537.0 | 536.4 | 535.7 | 535.3 | 534.8 | 534.8 | 534.8 |
| 27.5° | 543.3 | 541.7 | 540.2 | 538.0 | 536.5 | 535.6 | 534.6 | 533.7 | 533.1 | 532.6 | 532.6 |
| 30° | 548.2 | 546.2 | 544.2 | 541.7 | 539.6 | 538.9 | 537.0 | 536.0 | 534.7 | 533.9 | 533.6 |
| 32.5° | 557.7 | 555.8 | 553.2 | 550.3 | 548.6 | 546.5 | 545.0 | 542.8 | 541.3 | 540.3 | 539.0 |
| 35° | 574.0 | 572.9 | 570.6 | 568.8 | 566.2 | 563.9 | 560.8 | 559.6 | 556.4 | 555.8 | 554.2 |
| 37.5° | 598.0 | 598.8 | 598.3 | 597.0 | 595.2 | 593.1 | 591.8 | 589.4 | 588.2 | 586.9 | 585.4 |
| 40° | 630.9 | 634.8 | 636.0 | 637.6 | 638.0 | 639.8 | 637.7 | 637.4 | 635.8 | 637.2 | 636.3 |
| 42.5° | 669.1 | 676.4 | 680.3 | 685.0 | 690.1 | 694.7 | 698.4 | 704.6 | 703.9 | 708.7 | 712.2 |
| 45° | 711.6 | 722.7 | 732.8 | 740.6 | 750.3 | 761.1 | 770.6 | 779.3 | 789.2 | 794.8 | 803.2 |
| 47.5° | 755.2 | 769.3 | 783.8 | 798.2 | 812.1 | 825.9 | 842.8 | 858.2 | 873.2 | 883.4 | 896.2 |
| 50° | 802.5 | 819.8 | 837.4 | 855.0 | 874.6 | 896.4 | 915.2 | 935.3 | 955.9 | 976.8 | 991.5 |
| 52.5° | 855.0 | 875.8 | 895.0 | 913.6 | 937.8 | 960.8 | 985.4 | 1010.6 | 1041.8 | 1064.5 | 1084.6 |
| 55° | 905.1 | 930.4 | 951.2 | 973.6 | 999.0 | 1024.5 | 1054.6 | 1086.1 | 1119.2 | 1151.9 | 1181.5 |
| 57.5° | 947.2 | 978.6 | 1003.5 | 1025.6 | 1052.9 | 1082.4 | 1114.8 | 1153.8 | 1191.4 | 1232.1 | 1270.4 |
| 60° | 976.2 | 1017.9 | 1047.8 | 1074.6 | 1106.2 | 1138.9 | 1181.1 | 1227.2 | 1276.7 | 1327.2 | 1376.4 |
| 62.5° | 1008.6 | 1066.1 | 1107.0 | 1145.1 | 1182.5 | 1218.9 | 1266.5 | 1323.7 | 1390.9 | 1452.1 | 1517.1 |
| 65° | 1057.6 | 1133.4 | 1193.8 | 1242.4 | 1295.4 | 1348.6 | 1404.0 | 1470.8 | 1547.2 | 1636.4 | 1712.2 |
| 67.5° | 1090.0 | 1179.0 | 1255.8 | 1325.4 | 1387.4 | 1451.9 | 1521.9 | 1601.8 | 1694.0 | 1785.0 | 1879.4 |
| 69° | 1061.6 | 1151.9 | 1233.1 | 1309.7 | 1377.6 | 1447.1 | 1518.2 | 1598.8 | 1692.9 | 1793.6 | 1893.0 |
| 70° | 1010.9 | 1098.2 | 1182.1 | 1262.8 | 1329.2 | 1401.8 | 1471.8 | 1548.4 | 1643.9 | 1744.6 | 1852.8 |
| 72.5° | 787.1 | 860.0 | 946.2 | 1024.1 | 1103.4 | 1169.5 | 1232.8 | 1309.7 | 1406.0 | 1501.9 | 1607.4 |
| 75° | 515.5 | 569.5 | 648.3 | 712.4 | 780.8 | 843.0 | 888.9 | 965.2 | 1023.7 | 1113.9 | 1211.9 |
| 77.5° | 284.1 | 313.2 | 354.2 | 406.5 | 436.0 | 471.0 | 516.8 | 544.7 | 586.2 | 649.3 | 678.7 |
| 80° | 153.5 | 164.6 | 181.8 | 192.7 | 201.5 | 192.9 | 188.2 | 196.5 | 193.0 | 192.0 | 182.5 |
| 82.5° | 122.1 | 128.8 | 137.6 | 144.0 | 139.9 | 121.4 | 101.8 | 87.5 | 78.4 | 65.9 | 56.4 |
| 85° | 91.0 | 96.2 | 99.6 | 103.9 | 103.2 | 93.4 | 74.7 | 57.7 | 45.3 | 36.2 | 31.5 |
| 87.5° | 34.1 | 36.2 | 37.1 | 45.2 | 41.5 | 39.4 | 30.6 | 22.3 | 17.1 | 12.4 | 10.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P140746

CATALOG NUMBER: ECM-F01-LED-E1-RW-7050

CANDELA DISTRIBUTION (continued):

| | 80° | 81° | 82° | 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 473.0 | 473.0 | 473.0 | 473.0 | 473.0 | 473.0 | 473.0 | 473.0 | 473.0 | 473.0 | 473.0 |
| 2.5° | 474.2 | 474.1 | 474.0 | 474.0 | 474.2 | 473.9 | 473.6 | 474.0 | 473.8 | 473.8 | 473.8 |
| 5° | 479.9 | 479.8 | 479.7 | 479.8 | 479.7 | 479.8 | 479.8 | 479.2 | 479.4 | 479.6 | 479.7 |
| 7.5° | 489.6 | 489.4 | 489.4 | 490.2 | 490.0 | 489.9 | 489.8 | 490.0 | 489.6 | 489.6 | 489.9 |
| 10° | 503.0 | 503.6 | 503.4 | 503.8 | 503.8 | 503.4 | 503.2 | 503.4 | 503.9 | 504.0 | 503.4 |
| 12.5° | 519.4 | 519.5 | 519.2 | 520.0 | 519.6 | 520.6 | 519.4 | 520.0 | 520.6 | 519.6 | 520.1 |
| 15° | 532.7 | 532.6 | 533.2 | 533.4 | 533.2 | 533.5 | 534.4 | 534.0 | 533.5 | 534.2 | 534.5 |
| 17.5° | 540.8 | 541.1 | 541.3 | 541.4 | 541.7 | 542.0 | 542.1 | 542.0 | 542.1 | 542.4 | 543.0 |
| 20° | 542.6 | 542.4 | 542.7 | 542.8 | 543.2 | 543.3 | 543.6 | 543.4 | 543.8 | 544.0 | 544.1 |
| 22.5° | 539.3 | 539.4 | 539.6 | 540.0 | 539.8 | 540.2 | 540.3 | 540.7 | 540.6 | 540.9 | 541.0 |
| 25° | 534.9 | 535.2 | 535.3 | 535.2 | 535.2 | 535.4 | 535.5 | 535.4 | 536.0 | 536.2 | 536.2 |
| 27.5° | 532.1 | 532.1 | 532.6 | 532.4 | 532.1 | 532.4 | 532.2 | 532.2 | 532.2 | 532.4 | 532.8 |
| 30° | 533.2 | 532.8 | 532.5 | 532.6 | 532.4 | 532.1 | 531.8 | 531.4 | 531.4 | 531.6 | 531.4 |
| 32.5° | 539.3 | 538.4 | 538.0 | 537.6 | 537.3 | 536.6 | 535.8 | 535.5 | 534.8 | 534.8 | 534.5 |
| 35° | 554.8 | 553.8 | 553.8 | 552.3 | 551.4 | 551.0 | 550.3 | 548.2 | 548.4 | 547.5 | 547.2 |
| 37.5° | 585.8 | 584.1 | 583.3 | 584.8 | 582.0 | 583.2 | 580.8 | 579.8 | 580.4 | 578.8 | 579.7 |
| 40° | 637.7 | 640.3 | 639.2 | 640.8 | 641.5 | 641.8 | 641.8 | 639.4 | 641.8 | 638.0 | 639.3 |
| 42.5° | 712.6 | 719.8 | 722.3 | 723.1 | 727.5 | 726.4 | 725.1 | 725.0 | 724.8 | 726.6 | 725.7 |
| 45° | 807.0 | 807.9 | 820.0 | 822.2 | 824.6 | 827.4 | 826.6 | 829.7 | 832.0 | 828.9 | 829.3 |
| 47.5° | 903.4 | 913.4 | 922.2 | 927.0 | 932.2 | 929.5 | 931.6 | 932.9 | 941.0 | 940.1 | 939.4 |
| 50° | 1009.6 | 1026.4 | 1031.1 | 1036.3 | 1040.4 | 1048.6 | 1047.8 | 1052.8 | 1052.0 | 1058.6 | 1059.4 |
| 52.5° | 1110.2 | 1128.8 | 1147.5 | 1155.7 | 1161.9 | 1171.4 | 1175.0 | 1180.4 | 1178.4 | 1177.8 | 1182.8 |
| 55° | 1210.4 | 1241.2 | 1262.7 | 1283.8 | 1295.5 | 1308.0 | 1313.4 | 1321.1 | 1324.4 | 1326.0 | 1319.7 |
| 57.5° | 1309.6 | 1346.7 | 1383.0 | 1408.9 | 1427.1 | 1446.0 | 1456.0 | 1464.3 | 1474.1 | 1477.3 | 1474.2 |
| 60° | 1425.6 | 1480.0 | 1527.6 | 1562.3 | 1595.6 | 1616.2 | 1637.8 | 1653.6 | 1656.6 | 1670.0 | 1678.6 |
| 62.5° | 1580.2 | 1646.4 | 1706.8 | 1757.2 | 1808.9 | 1847.4 | 1886.4 | 1902.0 | 1917.4 | 1927.8 | 1934.2 |
| 65° | 1791.0 | 1878.2 | 1961.6 | 2033.4 | 2096.8 | 2160.9 | 2206.4 | 2230.2 | 2260.9 | 2266.9 | 2260.3 |
| 67.5° | 1975.8 | 2078.8 | 2182.2 | 2273.7 | 2342.2 | 2408.7 | 2462.6 | 2502.1 | 2530.8 | 2544.9 | 2550.8 |
| 69° | 1996.2 | 2100.8 | 2206.5 | 2297.7 | 2380.6 | 2447.0 | 2502.1 | 2541.4 | 2569.8 | 2594.3 | 2598.5 |
| 70° | 1954.5 | 2072.0 | 2174.7 | 2266.8 | 2352.2 | 2419.9 | 2469.2 | 2514.1 | 2546.6 | 2565.4 | 2572.0 |
| 72.5° | 1715.8 | 1821.4 | 1925.2 | 2031.2 | 2104.4 | 2185.6 | 2226.2 | 2262.2 | 2305.4 | 2330.0 | 2324.7 |
| 75° | 1300.2 | 1391.6 | 1482.1 | 1561.4 | 1617.9 | 1647.8 | 1695.4 | 1730.3 | 1724.0 | 1765.3 | 1766.4 |
| 77.5° | 733.4 | 745.2 | 806.6 | 798.5 | 825.6 | 826.3 | 833.4 | 845.6 | 822.1 | 870.6 | 835.8 |
| 80° | 177.8 | 175.5 | 188.2 | 173.2 | 172.0 | 170.7 | 166.4 | 174.8 | 175.9 | 167.3 | 168.9 |
| 82.5° | 52.2 | 50.0 | 49.0 | 47.7 | 49.8 | 49.2 | 49.6 | 49.8 | 51.2 | 49.4 | 51.4 |
| 85° | 28.6 | 27.0 | 26.8 | 26.2 | 26.0 | 24.4 | 24.2 | 24.3 | 23.3 | 23.6 | 23.4 |
| 87.5° | 11.0 | 10.4 | 9.8 | 9.4 | 9.2 | 8.8 | 8.4 | 7.6 | 6.8 | 6.0 | 5.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)