

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: P140904

Luminaire Tested: **ECM-F01-LED-E1-SL2-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140904
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33690)
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-SL2-7030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (7) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2169.9 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

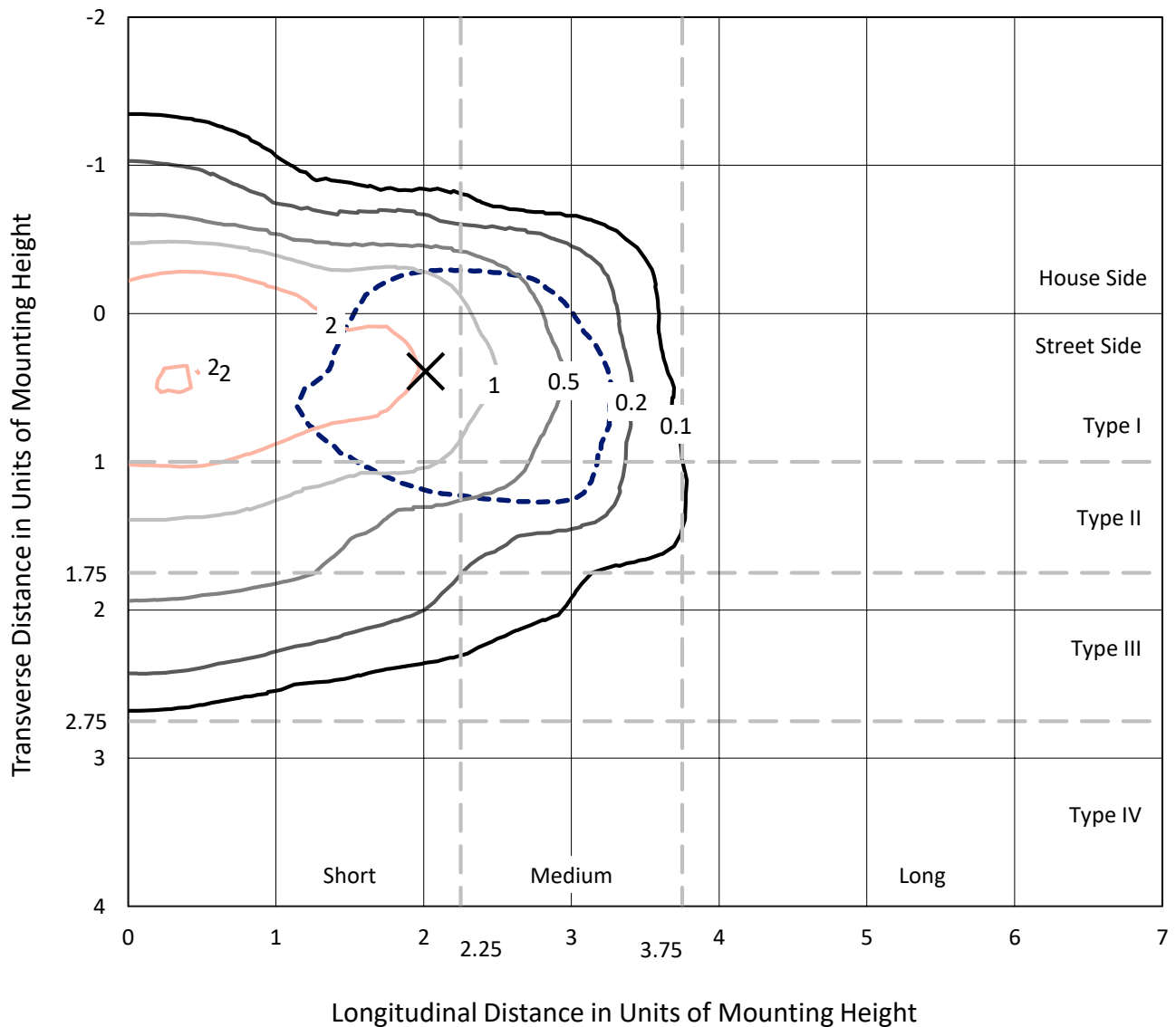
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

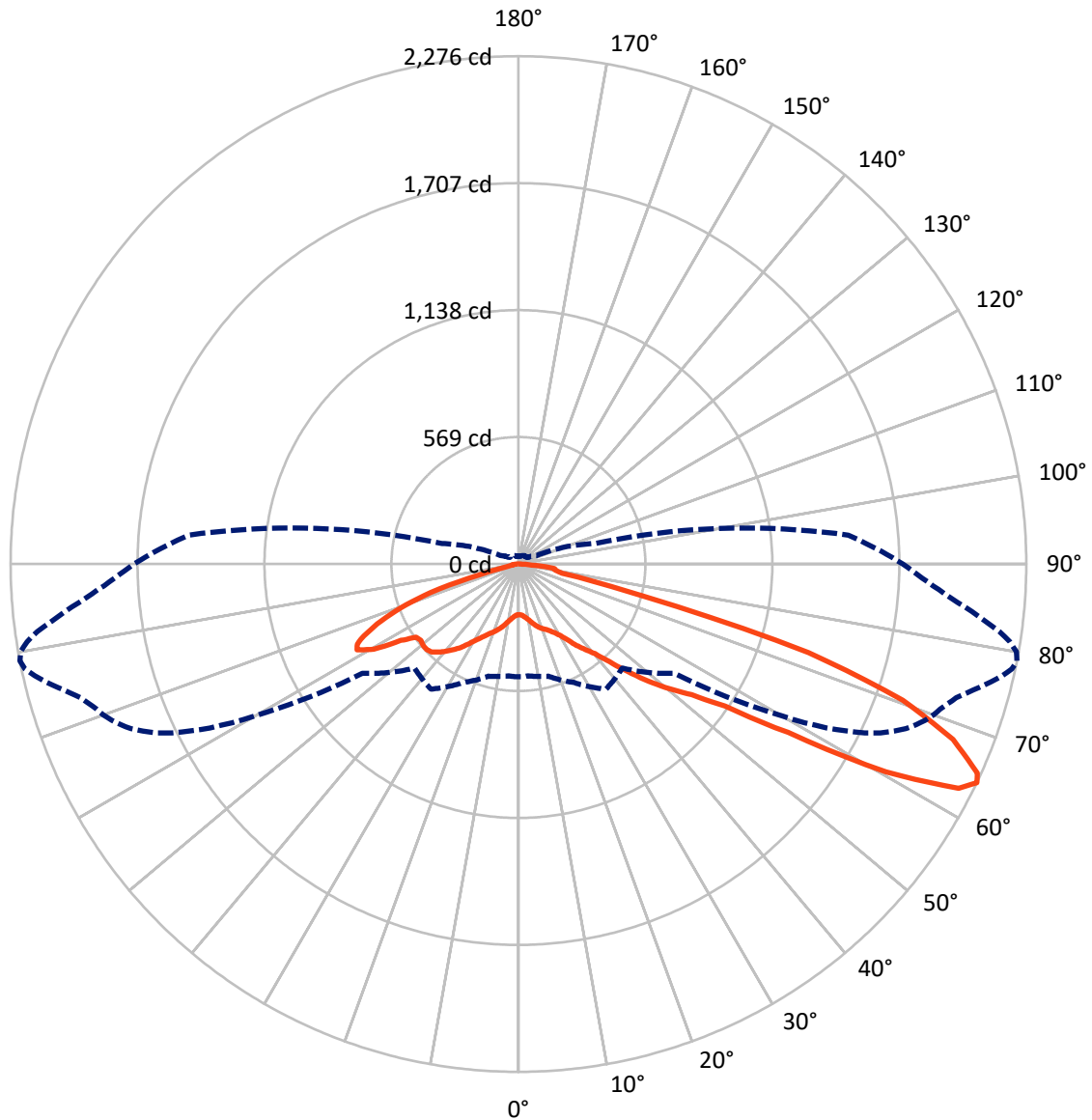
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 517.2 | 0.0 | 517.2 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 1652.7 | 0.0 | 1652.7 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 2169.9 | 0.0 | 2169.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 22.5 | 1.0 |
| 10°-20° | 72.9 | 3.4 |
| 20°-30° | 125.1 | 5.8 |
| 30°-40° | 209.2 | 9.6 |
| 40°-50° | 358.3 | 16.5 |
| 50°-60° | 483.3 | 22.3 |
| 60°-70° | 611.4 | 28.2 |
| 70°-80° | 244.0 | 11.2 |
| 80°-90° | 43.3 | 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°-90° | 2169.9 | 100.0 |
| 0°-180° | 2169.9 | 100.0 |



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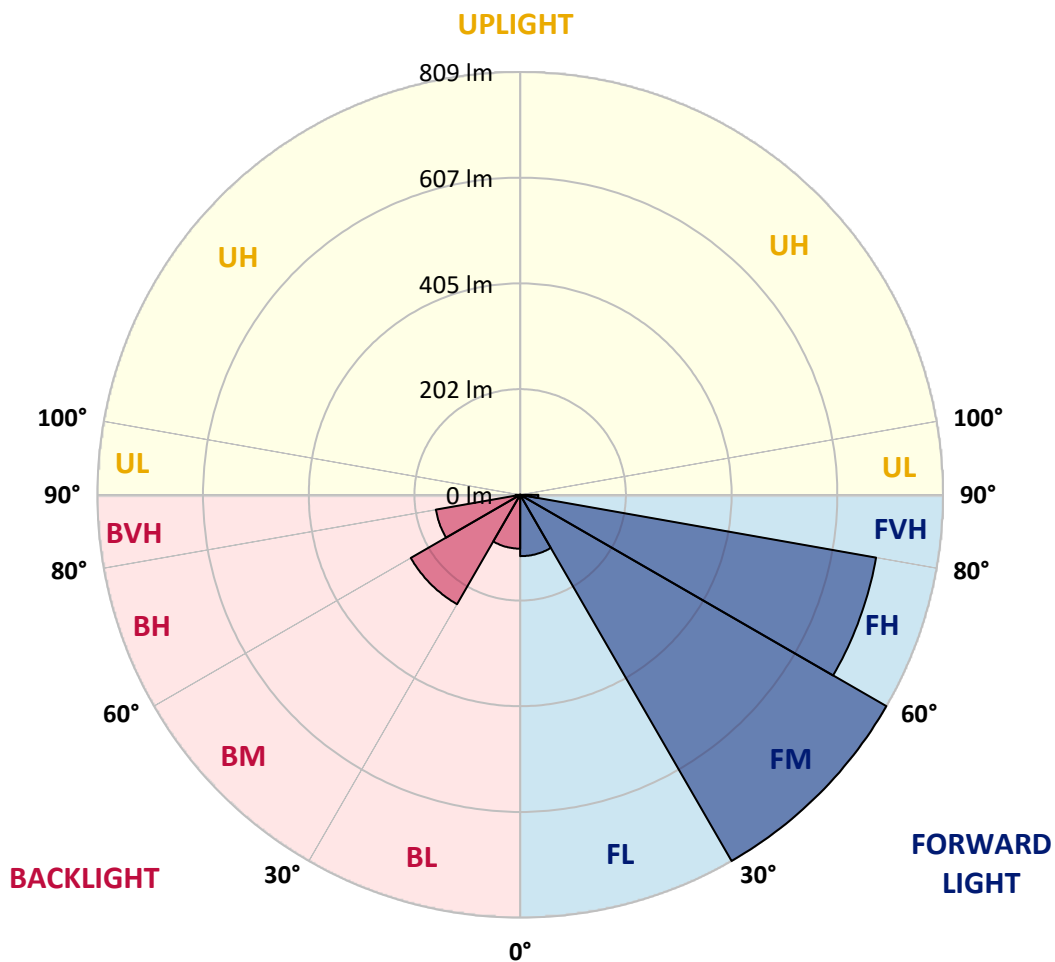
CATALOG NUMBER: ECM-F01-LED-E1-SL2-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 117.4 | 5.4 | | | |
| FM | (30°-60°) | 809.1 | 37.3 | | | |
| FH | (60°-80°) | 691.5 | 31.9 | | | G1/1800 |
| FVH | (80°-90°) | 34.7 | 1.6 | | | G1/100 |
| BL | (0°-30°) | 103.1 | 4.8 | B0/110 | | |
| BM | (30°-60°) | 241.7 | 11.1 | B1/1000 | | |
| BH | (60°-80°) | 163.8 | 7.6 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 8.6 | 0.4 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 0° | 227.0 | 227.0 | 227.0 | 227.0 | 227.0 | 227.0 | 227.0 | 227.0 | 227.0 | 227.0 | 227.0 |
| 2.5° | 225.9 | 226.2 | 225.9 | 226.7 | 227.2 | 228.0 | 228.0 | 228.0 | 228.0 | 228.0 | 228.0 |
| 5° | 225.7 | 225.9 | 225.7 | 227.0 | 228.2 | 229.7 | 231.2 | 231.7 | 231.7 | 232.0 | 232.2 |
| 7.5° | 228.0 | 228.2 | 228.0 | 229.5 | 231.2 | 233.7 | 236.5 | 238.0 | 238.3 | 238.5 | 239.0 |
| 10° | 235.0 | 234.5 | 233.5 | 235.0 | 236.8 | 240.5 | 243.8 | 246.3 | 247.1 | 247.3 | 248.3 |
| 12.5° | 244.3 | 244.0 | 242.3 | 241.5 | 242.5 | 246.8 | 252.8 | 256.4 | 257.1 | 257.4 | 258.4 |
| 15° | 251.3 | 250.6 | 249.1 | 248.1 | 249.8 | 254.3 | 262.4 | 266.9 | 268.4 | 268.7 | 270.4 |
| 17.5° | 255.9 | 255.4 | 252.8 | 252.1 | 254.8 | 261.9 | 271.9 | 277.5 | 278.5 | 279.2 | 281.2 |
| 20° | 263.4 | 261.9 | 258.1 | 254.8 | 257.1 | 267.9 | 279.7 | 285.5 | 287.0 | 287.8 | 289.5 |
| 22.5° | 273.4 | 272.2 | 267.7 | 259.4 | 259.4 | 271.4 | 286.8 | 293.3 | 294.6 | 296.1 | 298.1 |
| 25° | 290.8 | 289.8 | 281.0 | 266.9 | 263.4 | 275.0 | 293.3 | 302.1 | 303.4 | 305.1 | 308.1 |
| 27.5° | 308.6 | 307.4 | 297.6 | 278.7 | 270.4 | 281.5 | 302.9 | 313.4 | 315.2 | 317.2 | 320.7 |
| 30° | 331.5 | 329.2 | 319.4 | 297.6 | 284.3 | 292.0 | 317.9 | 331.3 | 333.3 | 335.8 | 340.6 |
| 32.5° | 382.8 | 383.8 | 365.9 | 342.8 | 319.4 | 316.2 | 341.3 | 357.6 | 360.7 | 363.9 | 370.5 |
| 35° | 466.2 | 462.2 | 455.7 | 432.0 | 406.2 | 380.5 | 386.8 | 404.4 | 407.7 | 408.7 | 411.4 |
| 37.5° | 519.5 | 521.8 | 527.0 | 527.0 | 507.7 | 496.9 | 479.0 | 470.5 | 471.2 | 472.3 | 470.0 |
| 40° | 549.2 | 553.9 | 572.0 | 596.4 | 614.0 | 623.8 | 620.8 | 580.8 | 576.1 | 569.8 | 549.7 |
| 42.5° | 570.5 | 575.3 | 606.2 | 653.0 | 696.7 | 731.4 | 750.5 | 719.1 | 715.5 | 700.5 | 676.3 |
| 45° | 583.6 | 587.4 | 624.6 | 690.9 | 757.0 | 816.1 | 868.3 | 857.3 | 856.3 | 843.5 | 811.8 |
| 47.5° | 581.1 | 584.3 | 623.0 | 703.0 | 789.7 | 869.9 | 950.8 | 970.9 | 971.9 | 968.6 | 949.3 |
| 50° | 543.9 | 551.7 | 590.1 | 676.3 | 771.6 | 890.7 | 1004.1 | 1056.6 | 1058.1 | 1061.1 | 1053.6 |
| 52.5° | 510.7 | 516.7 | 551.2 | 628.3 | 719.8 | 870.1 | 1036.0 | 1119.4 | 1132.2 | 1139.5 | 1153.6 |
| 55° | 497.1 | 500.7 | 527.0 | 592.6 | 677.1 | 815.1 | 1046.8 | 1164.9 | 1187.8 | 1201.6 | 1233.8 |
| 57.5° | 494.6 | 497.4 | 517.7 | 567.8 | 648.7 | 758.3 | 1043.3 | 1226.0 | 1262.2 | 1288.3 | 1350.7 |
| 60° | 511.5 | 514.0 | 528.3 | 570.3 | 629.1 | 716.8 | 1011.1 | 1306.4 | 1357.2 | 1427.6 | 1528.1 |
| 62.5° | 524.0 | 525.3 | 542.9 | 601.7 | 650.7 | 676.3 | 929.2 | 1362.7 | 1452.9 | 1542.4 | 1692.0 |
| 64° | 505.7 | 503.2 | 520.5 | 585.4 | 684.1 | 659.0 | 853.3 | 1360.0 | 1465.8 | 1565.0 | 1726.9 |
| 65° | 478.8 | 480.5 | 496.1 | 553.4 | 678.3 | 658.2 | 803.5 | 1329.8 | 1439.6 | 1544.9 | 1710.6 |
| 67.5° | 372.0 | 378.8 | 383.0 | 435.6 | 555.7 | 679.6 | 672.8 | 1137.8 | 1248.1 | 1348.6 | 1544.4 |
| 70° | 200.1 | 199.3 | 208.9 | 250.3 | 386.5 | 576.8 | 577.3 | 802.0 | 924.1 | 1049.1 | 1243.8 |
| 72.5° | 73.6 | 77.4 | 84.9 | 114.4 | 200.8 | 416.2 | 529.1 | 556.2 | 610.7 | 710.0 | 918.9 |
| 75° | 42.2 | 42.7 | 44.2 | 53.8 | 96.8 | 229.7 | 491.6 | 492.1 | 496.1 | 512.5 | 626.1 |
| 77.5° | 32.9 | 31.9 | 32.7 | 34.9 | 52.8 | 120.9 | 394.3 | 467.5 | 467.0 | 464.5 | 481.0 |
| 80° | 24.6 | 25.6 | 27.1 | 27.1 | 32.7 | 64.8 | 224.2 | 416.0 | 430.0 | 440.6 | 446.6 |
| 82.5° | 19.9 | 20.6 | 24.4 | 24.4 | 23.9 | 36.7 | 105.8 | 308.1 | 352.4 | 381.0 | 425.5 |
| 85° | 12.8 | 13.6 | 20.6 | 20.4 | 19.4 | 21.6 | 55.3 | 103.3 | 111.3 | 135.7 | 193.0 |
| 87.5° | 3.5 | 4.3 | 9.6 | 8.3 | 10.1 | 8.0 | 20.6 | 31.4 | 38.7 | 43.7 | 55.0 |
| 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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CATALOG NUMBER: ECM-F01-LED-E1-SL2-7030

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 71° | 72° | 73° | 74° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 227.0 | 227.0 | 227.0 | 227.0 | 227.0 | 227.0 | 227.0 | 227.0 | 227.0 | 227.0 | 227.0 |
| 2.5° | 228.0 | 228.0 | 228.0 | 228.2 | 228.2 | 228.2 | 228.2 | 228.2 | 228.5 | 228.0 | 228.0 |
| 5° | 232.5 | 232.2 | 232.5 | 232.5 | 233.2 | 233.0 | 233.2 | 233.2 | 233.0 | 233.5 | 233.5 |
| 7.5° | 239.8 | 239.3 | 239.8 | 240.0 | 240.3 | 241.3 | 241.3 | 241.8 | 242.0 | 242.3 | 241.8 |
| 10° | 248.6 | 249.3 | 249.6 | 249.6 | 250.8 | 251.3 | 251.3 | 252.1 | 252.8 | 253.3 | 253.1 |
| 12.5° | 259.4 | 259.9 | 260.1 | 261.6 | 261.9 | 262.6 | 263.9 | 264.7 | 264.7 | 265.9 | 266.7 |
| 15° | 271.4 | 271.9 | 273.4 | 274.0 | 275.0 | 276.2 | 277.0 | 277.7 | 277.7 | 280.0 | 280.7 |
| 17.5° | 281.7 | 282.7 | 283.8 | 284.5 | 286.3 | 287.5 | 288.8 | 289.5 | 290.8 | 291.8 | 293.6 |
| 20° | 290.5 | 291.8 | 293.1 | 294.6 | 295.8 | 297.1 | 298.6 | 299.6 | 301.1 | 302.6 | 304.4 |
| 22.5° | 299.1 | 300.6 | 302.1 | 303.4 | 305.1 | 306.4 | 307.6 | 309.4 | 310.4 | 311.9 | 313.9 |
| 25° | 308.4 | 310.9 | 312.4 | 314.2 | 315.9 | 317.7 | 319.2 | 320.7 | 322.2 | 324.2 | 326.2 |
| 27.5° | 323.2 | 324.5 | 326.5 | 327.5 | 330.5 | 332.5 | 334.5 | 334.8 | 336.8 | 340.6 | 341.1 |
| 30° | 342.6 | 344.8 | 346.1 | 349.6 | 350.1 | 350.9 | 354.1 | 356.4 | 358.9 | 361.9 | 363.2 |
| 32.5° | 371.7 | 373.7 | 375.5 | 376.5 | 379.3 | 383.8 | 384.3 | 386.3 | 390.6 | 391.3 | 395.8 |
| 35° | 414.4 | 414.9 | 417.7 | 419.2 | 422.7 | 425.3 | 426.5 | 428.3 | 430.5 | 435.8 | 437.1 |
| 37.5° | 465.7 | 470.0 | 466.5 | 463.0 | 469.2 | 468.5 | 470.0 | 468.0 | 474.0 | 474.3 | 476.5 |
| 40° | 545.4 | 543.6 | 536.1 | 528.0 | 524.3 | 522.0 | 517.5 | 516.5 | 519.8 | 518.2 | 519.0 |
| 42.5° | 662.8 | 646.2 | 633.4 | 623.8 | 612.0 | 599.2 | 591.9 | 580.8 | 580.8 | 577.6 | 580.6 |
| 45° | 800.7 | 782.1 | 758.3 | 735.6 | 721.1 | 704.2 | 686.9 | 675.3 | 663.5 | 654.7 | 662.5 |
| 47.5° | 936.7 | 924.1 | 897.5 | 876.6 | 847.5 | 822.4 | 795.0 | 771.1 | 757.0 | 746.7 | 748.2 |
| 50° | 1054.8 | 1043.3 | 1029.5 | 1001.3 | 979.2 | 953.6 | 924.6 | 893.2 | 862.8 | 850.5 | 839.9 |
| 52.5° | 1154.4 | 1150.3 | 1138.5 | 1125.5 | 1107.4 | 1080.0 | 1061.6 | 1031.7 | 995.8 | 969.9 | 958.8 |
| 55° | 1242.3 | 1249.4 | 1255.7 | 1252.9 | 1246.4 | 1242.8 | 1220.2 | 1199.9 | 1175.5 | 1167.9 | 1145.1 |
| 57.5° | 1380.8 | 1401.2 | 1425.3 | 1438.6 | 1451.7 | 1481.6 | 1488.9 | 1481.1 | 1484.1 | 1482.1 | 1470.0 |
| 60° | 1576.9 | 1626.1 | 1668.3 | 1702.0 | 1738.0 | 1772.9 | 1814.1 | 1841.3 | 1852.6 | 1896.3 | 1895.5 |
| 62.5° | 1745.0 | 1810.6 | 1864.6 | 1905.1 | 1947.1 | 1978.7 | 2005.4 | 2032.5 | 2065.7 | 2097.4 | 2137.3 |
| 64° | 1790.7 | 1842.3 | 1886.2 | 1922.4 | 1952.6 | 1978.5 | 1998.8 | 2023.7 | 2051.1 | 2092.1 | 2136.3 |
| 65° | 1767.1 | 1825.2 | 1857.1 | 1889.8 | 1916.9 | 1937.0 | 1957.9 | 1980.5 | 2015.2 | 2047.6 | 2094.8 |
| 67.5° | 1606.5 | 1650.5 | 1696.7 | 1727.1 | 1753.3 | 1765.1 | 1784.7 | 1803.6 | 1822.9 | 1855.6 | 1914.6 |
| 70° | 1354.7 | 1403.9 | 1470.5 | 1499.2 | 1526.3 | 1530.6 | 1549.0 | 1563.0 | 1575.8 | 1619.3 | 1648.5 |
| 72.5° | 1016.4 | 1111.9 | 1177.2 | 1227.5 | 1233.0 | 1254.4 | 1261.9 | 1267.7 | 1282.3 | 1290.3 | 1299.1 |
| 75° | 700.5 | 786.4 | 842.0 | 861.1 | 884.4 | 873.1 | 860.1 | 814.1 | 814.3 | 775.4 | 731.1 |
| 77.5° | 492.9 | 506.2 | 506.7 | 506.9 | 476.0 | 457.9 | 437.3 | 410.9 | 400.6 | 380.0 | 351.9 |
| 80° | 446.9 | 445.4 | 436.1 | 424.7 | 407.9 | 383.8 | 358.9 | 341.6 | 328.0 | 312.7 | 292.5 |
| 82.5° | 431.3 | 434.8 | 428.0 | 418.5 | 408.7 | 384.8 | 356.1 | 329.0 | 306.6 | 282.2 | 257.6 |
| 85° | 210.1 | 216.1 | 235.7 | 248.6 | 251.6 | 236.8 | 216.4 | 191.8 | 168.1 | 141.5 | 129.2 |
| 87.5° | 63.1 | 67.6 | 69.1 | 73.4 | 78.7 | 71.6 | 63.1 | 56.5 | 45.5 | 39.5 | 30.9 |
| 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):

| | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° | 84° | 85° | 86° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 227.0 | 227.0 | 227.0 | 227.0 | 227.0 | 227.0 | 227.0 | 227.0 | 227.0 | 227.0 | 227.0 |
| 2.5° | 228.0 | 228.2 | 228.2 | 228.0 | 228.2 | 228.2 | 228.5 | 228.2 | 228.2 | 228.2 | 228.0 |
| 5° | 233.0 | 234.0 | 233.7 | 233.7 | 234.2 | 234.2 | 234.0 | 234.5 | 234.2 | 234.2 | 234.0 |
| 7.5° | 242.5 | 242.5 | 243.3 | 243.5 | 243.0 | 243.0 | 243.5 | 243.8 | 244.3 | 244.5 | 244.5 |
| 10° | 253.6 | 254.8 | 254.8 | 255.1 | 255.4 | 256.1 | 256.4 | 256.4 | 256.9 | 256.9 | 257.4 |
| 12.5° | 267.2 | 267.7 | 268.2 | 269.4 | 269.7 | 269.7 | 270.9 | 270.7 | 270.7 | 271.9 | 272.2 |
| 15° | 281.7 | 282.5 | 283.8 | 284.3 | 284.8 | 286.0 | 286.8 | 287.5 | 287.3 | 289.0 | 289.5 |
| 17.5° | 294.6 | 295.3 | 296.8 | 298.1 | 298.8 | 299.6 | 300.1 | 301.1 | 302.6 | 303.9 | 304.1 |
| 20° | 304.9 | 305.9 | 307.6 | 309.1 | 310.4 | 311.1 | 313.2 | 314.2 | 314.7 | 315.7 | 316.9 |
| 22.5° | 314.9 | 316.7 | 318.4 | 318.9 | 321.7 | 322.5 | 324.0 | 325.5 | 326.5 | 328.7 | 329.5 |
| 25° | 327.5 | 329.0 | 331.3 | 332.8 | 334.5 | 336.0 | 337.5 | 338.8 | 341.1 | 343.1 | 344.1 |
| 27.5° | 344.1 | 345.3 | 347.1 | 349.9 | 351.4 | 352.4 | 355.1 | 357.6 | 358.6 | 360.7 | 362.4 |
| 30° | 365.9 | 367.2 | 369.7 | 372.5 | 373.7 | 377.0 | 379.0 | 380.8 | 382.8 | 385.5 | 388.1 |
| 32.5° | 397.9 | 399.4 | 401.6 | 405.1 | 405.1 | 407.4 | 411.7 | 415.5 | 417.0 | 420.2 | 422.0 |
| 35° | 439.8 | 440.1 | 442.6 | 447.9 | 449.4 | 448.9 | 452.9 | 456.4 | 457.4 | 462.4 | 465.7 |
| 37.5° | 480.5 | 481.3 | 484.3 | 486.3 | 489.1 | 491.1 | 493.9 | 499.1 | 499.1 | 506.4 | 509.4 |
| 40° | 522.8 | 526.5 | 527.0 | 527.5 | 532.1 | 540.1 | 542.9 | 548.2 | 552.9 | 560.0 | 563.2 |
| 42.5° | 584.1 | 588.1 | 592.9 | 598.4 | 605.2 | 609.7 | 615.0 | 622.5 | 624.6 | 633.4 | 635.6 |
| 45° | 668.0 | 672.8 | 685.6 | 686.9 | 699.0 | 705.0 | 713.8 | 723.8 | 726.3 | 732.1 | 729.1 |
| 47.5° | 751.7 | 757.3 | 771.3 | 785.9 | 797.0 | 807.5 | 810.0 | 814.3 | 818.1 | 814.6 | 815.6 |
| 50° | 844.5 | 852.5 | 865.8 | 878.7 | 886.9 | 899.0 | 899.0 | 900.0 | 896.5 | 890.7 | 881.4 |
| 52.5° | 953.0 | 954.3 | 962.8 | 972.9 | 980.4 | 983.0 | 983.0 | 977.2 | 968.6 | 959.3 | 941.2 |
| 55° | 1134.3 | 1120.4 | 1122.9 | 1122.9 | 1117.4 | 1112.9 | 1109.4 | 1095.3 | 1078.5 | 1061.6 | 1045.0 |
| 57.5° | 1460.7 | 1473.8 | 1434.8 | 1424.3 | 1424.8 | 1390.4 | 1376.3 | 1352.2 | 1334.1 | 1303.9 | 1278.5 |
| 60° | 1926.5 | 1917.4 | 1904.6 | 1892.5 | 1893.5 | 1848.0 | 1816.1 | 1780.2 | 1748.8 | 1682.4 | 1654.3 |
| 62.5° | 2173.0 | 2205.2 | 2223.5 | 2214.2 | 2192.9 | 2164.5 | 2112.2 | 2057.6 | 2002.4 | 1946.1 | 1895.5 |
| 64° | 2182.1 | 2224.5 | 2260.7 | 2275.8 | 2265.8 | 2229.8 | 2176.5 | 2108.7 | 2042.8 | 1976.5 | 1915.4 |
| 65° | 2138.3 | 2192.1 | 2238.9 | 2260.0 | 2260.5 | 2228.8 | 2175.5 | 2107.2 | 2036.8 | 1959.9 | 1896.3 |
| 67.5° | 1956.9 | 2018.7 | 2064.7 | 2100.1 | 2130.5 | 2114.4 | 2077.5 | 2004.9 | 1938.3 | 1851.1 | 1781.4 |
| 70° | 1684.7 | 1722.9 | 1774.6 | 1826.4 | 1850.8 | 1854.6 | 1840.7 | 1804.1 | 1726.1 | 1655.3 | 1565.5 |
| 72.5° | 1298.4 | 1357.7 | 1327.3 | 1359.2 | 1379.6 | 1359.7 | 1362.2 | 1299.6 | 1274.5 | 1212.2 | 1149.1 |
| 75° | 687.6 | 689.7 | 676.6 | 581.6 | 569.8 | 526.3 | 574.5 | 488.3 | 458.9 | 431.8 | 396.9 |
| 77.5° | 318.9 | 277.7 | 239.3 | 199.8 | 163.4 | 143.0 | 111.6 | 98.3 | 88.5 | 77.9 | 80.2 |
| 80° | 266.7 | 235.0 | 201.3 | 166.9 | 140.2 | 113.4 | 91.0 | 70.6 | 56.5 | 47.5 | 43.2 |
| 82.5° | 236.0 | 208.1 | 184.7 | 163.6 | 144.5 | 118.1 | 97.0 | 74.9 | 57.6 | 43.5 | 33.7 |
| 85° | 106.6 | 83.4 | 75.9 | 59.8 | 50.8 | 43.2 | 34.4 | 28.4 | 23.4 | 19.9 | 15.6 |
| 87.5° | 24.9 | 17.1 | 14.6 | 13.8 | 12.1 | 11.3 | 9.6 | 10.1 | 8.3 | 6.5 | 6.8 |
| 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: P140904

CATALOG NUMBER: ECM-F01-LED-E1-SL2-7030

CANDELA DISTRIBUTION (continued):

| | 87° | 88° | 89° | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° |
|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 0° | 227.0 | 227.0 | 227.0 | 227.0 | 227.0 | 227.0 | 227.0 | 227.0 | 227.0 | 227.0 | 227.0 |
| 2.5° | 228.0 | 228.0 | 228.2 | 228.2 | 228.5 | 229.0 | 229.7 | 229.0 | 229.0 | 229.0 | 229.2 |
| 5° | 234.5 | 234.7 | 234.5 | 234.5 | 235.0 | 235.7 | 236.0 | 234.5 | 233.7 | 233.0 | 232.0 |
| 7.5° | 244.0 | 245.0 | 244.8 | 244.8 | 245.3 | 245.3 | 244.8 | 242.5 | 240.3 | 236.8 | 233.7 |
| 10° | 257.4 | 257.9 | 257.9 | 257.9 | 258.6 | 259.1 | 256.9 | 251.8 | 245.8 | 239.5 | 234.0 |
| 12.5° | 273.2 | 272.9 | 273.7 | 274.5 | 274.0 | 274.0 | 269.7 | 261.9 | 252.1 | 241.8 | 232.2 |
| 15° | 289.8 | 290.0 | 290.0 | 291.3 | 291.5 | 290.5 | 283.8 | 271.7 | 256.6 | 241.0 | 225.7 |
| 17.5° | 305.4 | 305.9 | 306.1 | 307.1 | 308.4 | 305.6 | 295.8 | 279.5 | 257.4 | 234.0 | 213.4 |
| 20° | 318.4 | 319.2 | 319.9 | 320.7 | 322.0 | 319.9 | 306.9 | 283.3 | 253.3 | 222.7 | 199.1 |
| 22.5° | 330.2 | 331.5 | 332.0 | 333.3 | 335.3 | 332.8 | 316.9 | 283.3 | 244.3 | 210.4 | 183.0 |
| 25° | 344.6 | 346.1 | 348.6 | 349.1 | 352.6 | 349.9 | 325.0 | 281.2 | 234.0 | 194.8 | 165.6 |
| 27.5° | 363.4 | 364.9 | 367.2 | 368.5 | 372.7 | 369.0 | 331.0 | 276.0 | 221.2 | 177.9 | 148.8 |
| 30° | 388.3 | 389.8 | 392.6 | 393.8 | 401.6 | 389.1 | 335.0 | 267.9 | 206.3 | 158.3 | 129.4 |
| 32.5° | 423.0 | 427.0 | 426.8 | 430.0 | 437.1 | 411.4 | 336.8 | 256.6 | 187.7 | 138.5 | 111.3 |
| 35° | 468.5 | 471.2 | 473.8 | 478.3 | 481.6 | 435.3 | 335.5 | 241.8 | 164.6 | 117.9 | 95.5 |
| 37.5° | 512.2 | 517.0 | 518.7 | 521.8 | 521.0 | 451.4 | 330.5 | 218.7 | 139.5 | 99.5 | 84.7 |
| 40° | 566.8 | 569.5 | 575.0 | 577.8 | 564.5 | 466.7 | 318.7 | 187.7 | 114.4 | 87.5 | 77.7 |
| 42.5° | 639.4 | 642.9 | 640.1 | 639.4 | 613.8 | 475.3 | 296.1 | 156.8 | 95.8 | 78.7 | 71.9 |
| 45° | 727.6 | 729.1 | 720.8 | 715.3 | 670.6 | 474.5 | 263.1 | 127.7 | 82.9 | 72.1 | 66.9 |
| 47.5° | 807.3 | 804.3 | 793.5 | 785.2 | 719.8 | 456.9 | 221.9 | 105.3 | 76.2 | 66.9 | 62.8 |
| 50° | 873.1 | 859.8 | 848.2 | 837.7 | 759.3 | 430.0 | 182.5 | 88.7 | 69.6 | 62.6 | 58.8 |
| 52.5° | 932.7 | 914.6 | 901.0 | 883.2 | 795.2 | 394.6 | 151.1 | 77.4 | 63.1 | 58.3 | 54.5 |
| 55° | 1020.9 | 999.8 | 982.5 | 964.9 | 858.8 | 366.9 | 130.7 | 68.9 | 56.5 | 53.8 | 50.3 |
| 57.5° | 1274.0 | 1217.4 | 1202.1 | 1186.3 | 1029.2 | 360.9 | 118.9 | 62.1 | 51.5 | 49.5 | 47.3 |
| 60° | 1620.1 | 1583.4 | 1558.8 | 1520.1 | 1312.2 | 380.3 | 110.1 | 57.1 | 48.0 | 46.7 | 44.7 |
| 62.5° | 1845.8 | 1801.5 | 1760.8 | 1721.4 | 1478.3 | 379.8 | 99.3 | 53.8 | 46.0 | 45.7 | 42.7 |
| 64° | 1860.1 | 1810.6 | 1765.1 | 1722.6 | 1483.6 | 354.9 | 89.5 | 51.5 | 46.0 | 46.0 | 41.5 |
| 65° | 1836.5 | 1786.7 | 1739.7 | 1695.5 | 1453.4 | 335.8 | 82.9 | 50.5 | 46.7 | 46.5 | 40.7 |
| 67.5° | 1716.1 | 1666.1 | 1613.3 | 1565.8 | 1325.8 | 263.1 | 65.6 | 48.8 | 50.8 | 49.0 | 40.0 |
| 70° | 1503.2 | 1446.4 | 1406.7 | 1372.5 | 1138.0 | 183.7 | 52.0 | 49.8 | 55.5 | 52.0 | 42.0 |
| 72.5° | 1089.5 | 1043.3 | 1042.8 | 1004.1 | 861.6 | 116.6 | 42.0 | 49.5 | 55.3 | 51.5 | 43.5 |
| 75° | 423.2 | 362.9 | 360.9 | 374.5 | 366.4 | 63.1 | 36.2 | 43.7 | 45.2 | 43.0 | 38.5 |
| 77.5° | 72.4 | 71.1 | 70.4 | 74.1 | 81.7 | 34.9 | 33.2 | 37.2 | 33.7 | 30.4 | 31.9 |
| 80° | 40.2 | 38.5 | 38.0 | 38.0 | 35.7 | 28.7 | 29.4 | 29.7 | 24.4 | 22.6 | 26.4 |
| 82.5° | 27.9 | 25.9 | 24.9 | 24.1 | 23.4 | 25.6 | 26.1 | 23.4 | 17.6 | 17.3 | 24.6 |
| 85° | 13.6 | 12.8 | 12.6 | 12.6 | 14.3 | 24.1 | 21.6 | 18.1 | 11.8 | 11.8 | 26.6 |
| 87.5° | 5.8 | 5.8 | 5.0 | 5.0 | 7.8 | 15.3 | 9.8 | 7.5 | 4.8 | 5.5 | 10.8 |
| 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: P140904

CATALOG NUMBER: ECM-F01-LED-E1-SL2-7030

CANDELA DISTRIBUTION (continued):

| | 165° | 175° | 180° |
|-------|-------|-------|-------|
| 0° | 227.0 | 227.0 | 227.0 |
| 2.5° | 229.0 | 229.5 | 229.2 |
| 5° | 230.7 | 230.7 | 230.2 |
| 7.5° | 230.5 | 229.5 | 229.0 |
| 10° | 229.0 | 226.2 | 225.9 |
| 12.5° | 224.9 | 220.4 | 219.2 |
| 15° | 213.4 | 207.3 | 205.8 |
| 17.5° | 198.8 | 191.8 | 189.8 |
| 20° | 182.2 | 174.2 | 171.4 |
| 22.5° | 166.1 | 156.8 | 154.1 |
| 25° | 148.5 | 139.2 | 137.7 |
| 27.5° | 129.2 | 120.4 | 118.1 |
| 30° | 111.3 | 103.8 | 102.0 |
| 32.5° | 95.3 | 90.0 | 90.0 |
| 35° | 84.7 | 80.2 | 80.2 |
| 37.5° | 76.4 | 74.4 | 74.1 |
| 40° | 70.9 | 69.1 | 68.9 |
| 42.5° | 66.6 | 64.6 | 64.3 |
| 45° | 62.1 | 60.1 | 60.1 |
| 47.5° | 57.8 | 55.5 | 55.8 |
| 50° | 53.5 | 51.8 | 51.8 |
| 52.5° | 50.0 | 48.3 | 48.0 |
| 55° | 46.7 | 45.0 | 44.7 |
| 57.5° | 43.7 | 41.7 | 41.5 |
| 60° | 40.7 | 38.7 | 38.2 |
| 62.5° | 38.2 | 35.9 | 35.4 |
| 64° | 36.7 | 34.4 | 33.9 |
| 65° | 35.9 | 33.4 | 33.2 |
| 67.5° | 35.2 | 31.9 | 31.7 |
| 70° | 38.0 | 31.4 | 30.2 |
| 72.5° | 38.2 | 30.7 | 29.2 |
| 75° | 36.2 | 29.2 | 27.9 |
| 77.5° | 31.9 | 26.6 | 25.1 |
| 80° | 30.7 | 20.9 | 18.3 |
| 82.5° | 28.1 | 17.1 | 14.3 |
| 85° | 23.1 | 11.1 | 10.3 |
| 87.5° | 13.3 | 7.3 | 5.3 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)