

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: P162433

Luminaire Tested: **ECM-F01-LED-E1-SL3-HSS-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P162433
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
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-SL3-HSS-7050
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (7) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1396.4 lumens
Efficiency: N/A
Efficacy: 53.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

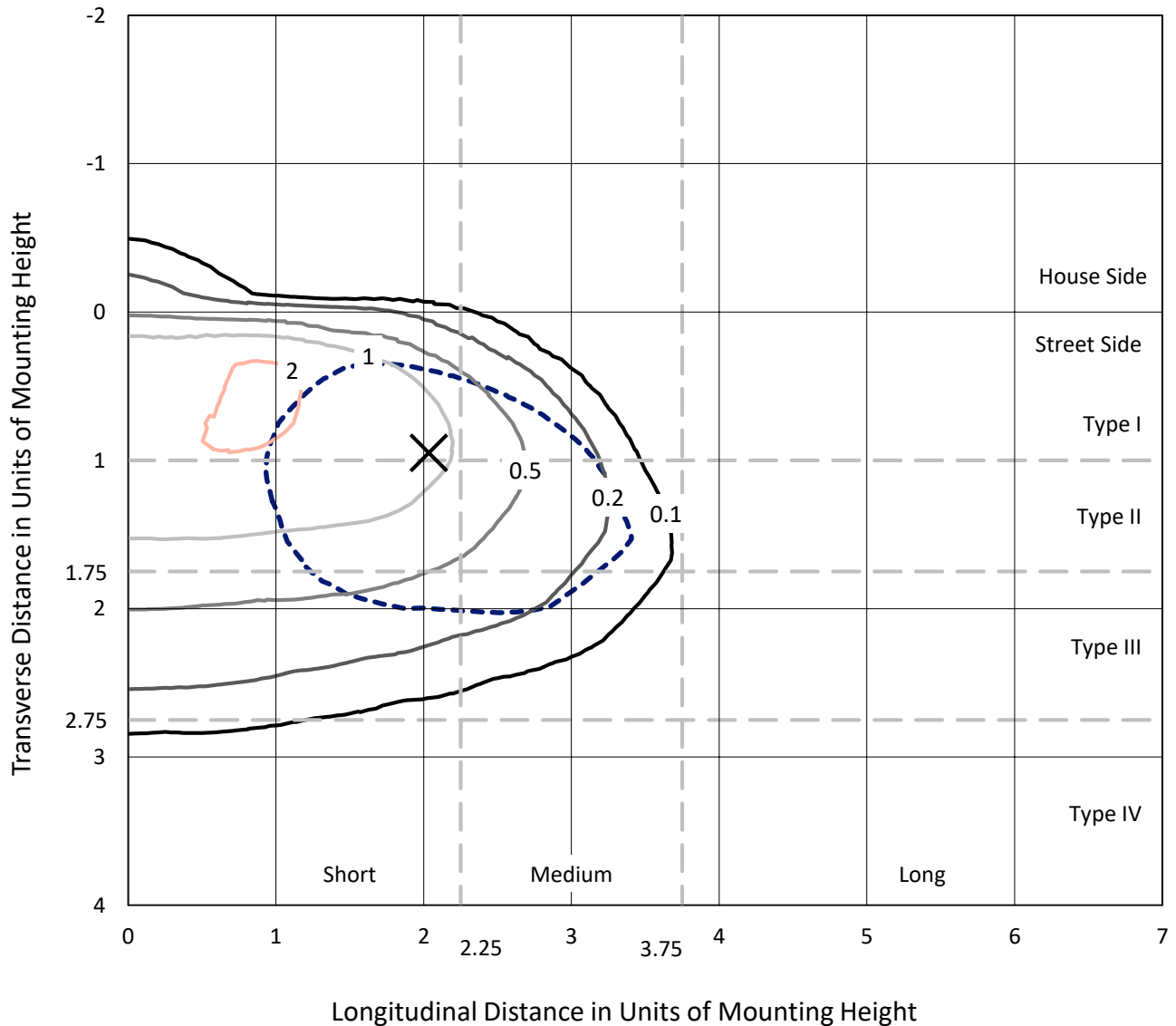
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P162433
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Iso-Footcandle Lines of Horizontal Illumination

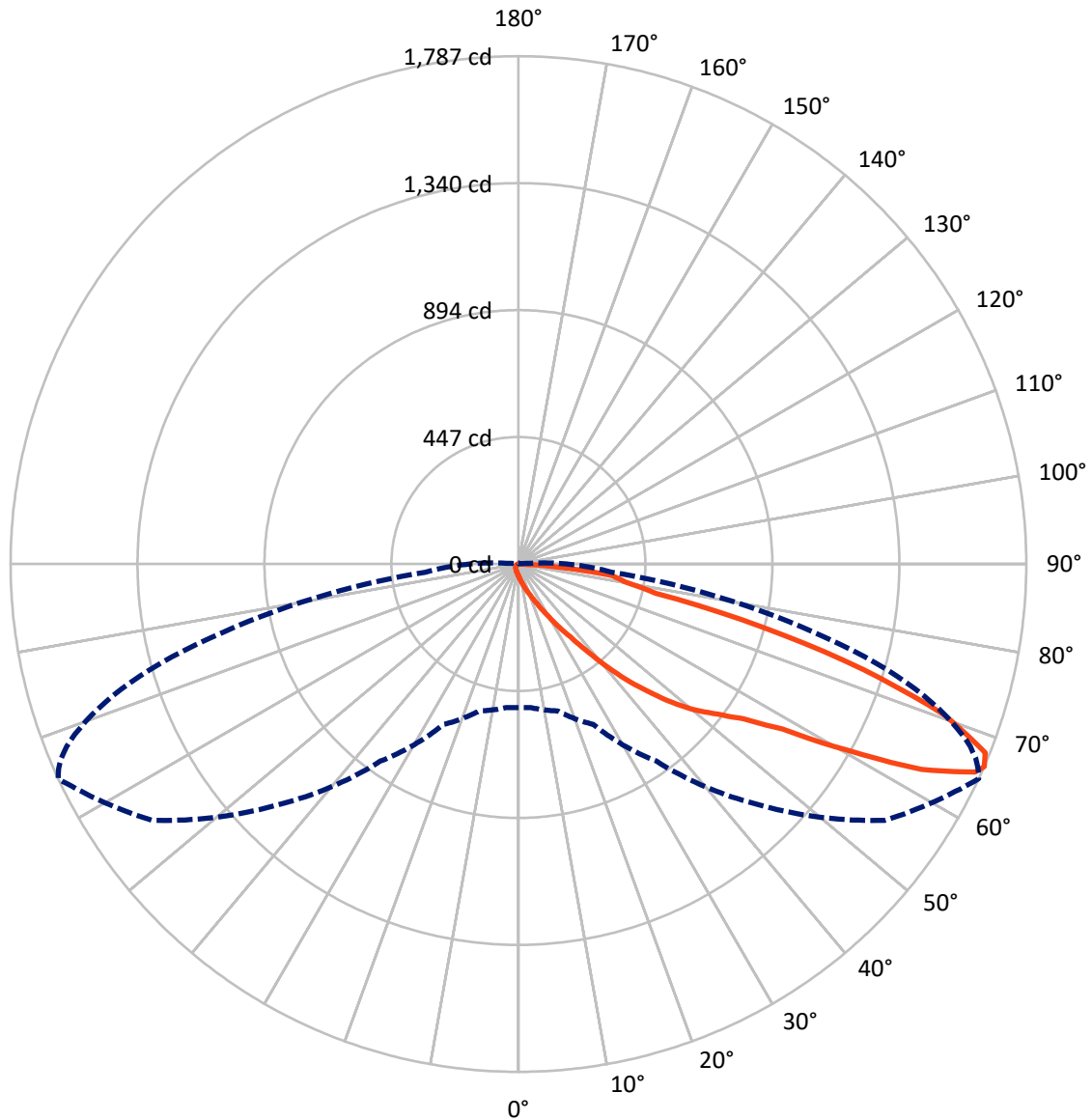
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 30.3 | 0.0 | 30.3 |
| | % Fixture | 2.2 | 0.0 | 2.2 |
| Street Side | Lumens | 1366.1 | 0.0 | 1366.1 |
| | % Fixture | 97.8 | 0.0 | 97.8 |
| Total | Lumens | 1396.4 | 0.0 | 1396.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 4.7 | 0.3 |
| 10°-20° | 20.0 | 1.4 |
| 20°-30° | 43.1 | 3.1 |
| 30°-40° | 92.1 | 6.6 |
| 40°-50° | 203.8 | 14.6 |
| 50°-60° | 345.3 | 24.7 |
| 60°-70° | 460.8 | 33.0 |
| 70°-80° | 203.0 | 14.5 |
| 80°-90° | 23.4 | 1.7 |
| 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°-90° | 1396.4 | 100.0 |
| 0°-180° | 1396.4 | 100.0 |



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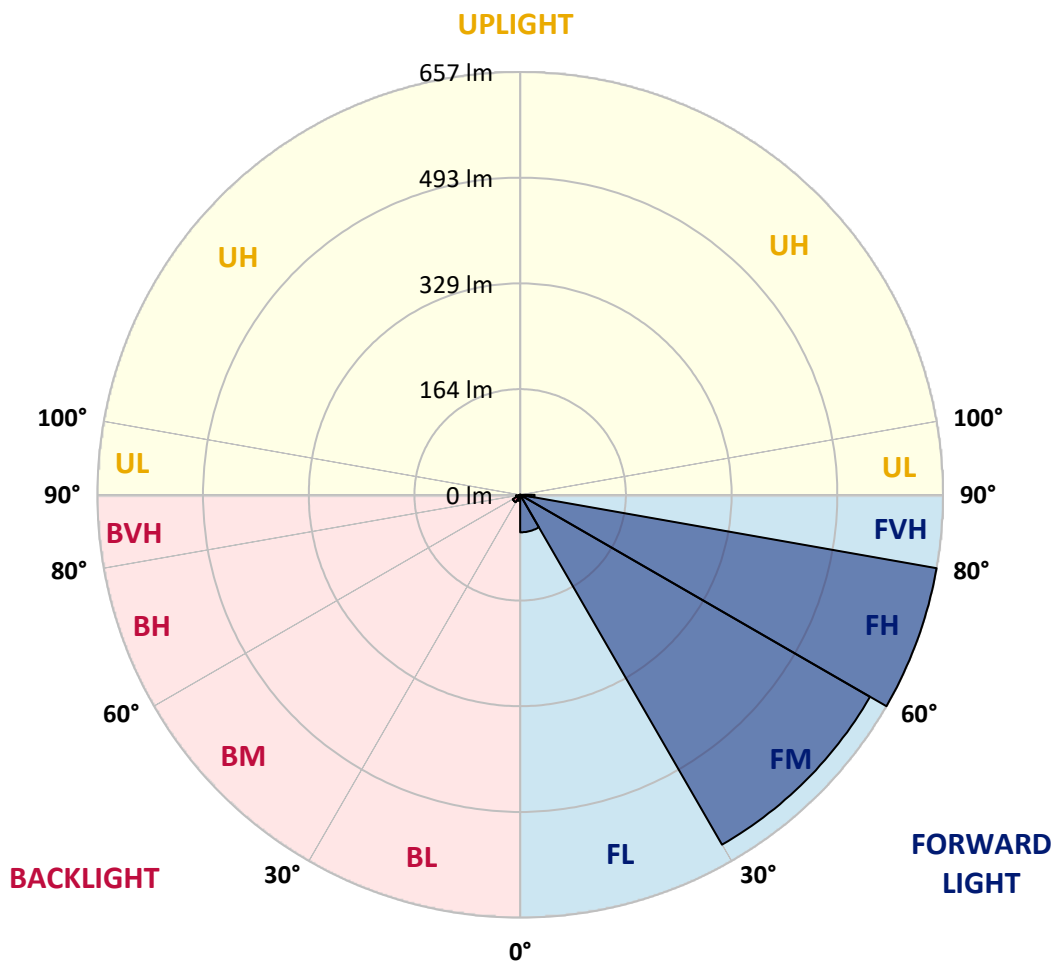
CATALOG NUMBER: ECM-F01-LED-E1-SL3-HSS-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 58.3 | 4.2 | | | |
| FM | (30°-60°) | 628.0 | 45.0 | | | |
| FH | (60°-80°) | 657.3 | 47.1 | | | G0/660 |
| FVH | (80°-90°) | 22.4 | 1.6 | | | G1/100 |
| BL | (0°-30°) | 9.5 | 0.7 | B0/110 | | |
| BM | (30°-60°) | 13.3 | 1.0 | B0/220 | | |
| BH | (60°-80°) | 6.5 | 0.5 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 0.9 | 0.1 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1

Type III Short





REPORT NUMBER: P162433

CATALOG NUMBER: ECM-F01-LED-E1-SL3-HSS-7050

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 67° | 68° |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0° | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 |
| 2.5° | 53.2 | 52.9 | 51.8 | 51.8 | 50.2 | 49.1 | 47.8 | 46.4 | 46.4 | 46.2 | 45.9 |
| 5° | 70.3 | 68.7 | 68.4 | 65.5 | 63.1 | 59.6 | 56.4 | 52.1 | 51.5 | 51.0 | 50.7 |
| 7.5° | 89.4 | 89.1 | 86.7 | 83.2 | 78.4 | 71.9 | 65.5 | 58.5 | 57.5 | 56.9 | 55.9 |
| 10° | 114.1 | 112.7 | 109.5 | 103.6 | 96.4 | 87.8 | 77.3 | 66.3 | 65.0 | 63.9 | 63.4 |
| 12.5° | 137.7 | 135.3 | 133.4 | 125.9 | 116.8 | 104.2 | 91.5 | 75.7 | 74.6 | 73.3 | 71.2 |
| 15° | 159.7 | 157.6 | 154.4 | 147.9 | 137.7 | 121.9 | 107.1 | 87.8 | 85.1 | 83.2 | 81.6 |
| 17.5° | 176.9 | 175.6 | 171.8 | 164.6 | 153.5 | 139.6 | 121.9 | 100.1 | 98.0 | 95.6 | 92.6 |
| 20° | 193.3 | 191.4 | 185.5 | 175.6 | 163.8 | 153.0 | 139.3 | 116.2 | 113.3 | 110.3 | 107.1 |
| 22.5° | 208.9 | 207.0 | 197.3 | 180.9 | 168.3 | 163.8 | 158.9 | 134.5 | 129.9 | 127.5 | 124.3 |
| 25° | 230.6 | 226.6 | 211.5 | 185.5 | 168.6 | 172.1 | 180.4 | 158.1 | 153.8 | 150.3 | 145.2 |
| 27.5° | 259.9 | 254.5 | 230.9 | 192.2 | 169.7 | 181.2 | 205.1 | 186.8 | 182.3 | 178.3 | 172.6 |
| 30° | 292.9 | 289.4 | 261.2 | 208.3 | 177.5 | 194.6 | 232.7 | 223.3 | 218.0 | 213.2 | 206.4 |
| 32.5° | 326.2 | 321.4 | 293.4 | 238.9 | 198.4 | 220.7 | 267.4 | 265.8 | 258.8 | 254.2 | 247.0 |
| 35° | 355.4 | 353.0 | 332.3 | 289.1 | 246.2 | 266.3 | 313.6 | 315.4 | 309.3 | 304.4 | 296.4 |
| 37.5° | 375.3 | 375.3 | 371.3 | 343.1 | 322.1 | 337.2 | 381.5 | 381.7 | 375.6 | 364.6 | 360.5 |
| 40° | 385.5 | 388.4 | 403.0 | 408.3 | 407.2 | 426.6 | 470.6 | 465.8 | 460.7 | 455.0 | 441.6 |
| 42.5° | 406.5 | 409.1 | 440.0 | 477.0 | 501.2 | 526.7 | 557.0 | 555.4 | 549.3 | 539.1 | 526.7 |
| 45° | 441.9 | 445.4 | 482.2 | 540.9 | 590.6 | 626.8 | 646.2 | 638.7 | 632.5 | 622.8 | 616.4 |
| 47.5° | 487.0 | 493.7 | 535.3 | 608.1 | 667.9 | 727.8 | 747.9 | 728.1 | 722.7 | 715.2 | 704.7 |
| 50° | 535.0 | 541.5 | 585.8 | 669.0 | 736.6 | 808.1 | 841.6 | 808.1 | 800.3 | 797.9 | 786.0 |
| 52.5° | 576.6 | 582.0 | 624.7 | 716.0 | 789.2 | 873.0 | 921.9 | 877.6 | 872.0 | 863.9 | 855.3 |
| 55° | 601.3 | 605.6 | 645.6 | 738.5 | 825.0 | 931.5 | 999.5 | 960.5 | 952.2 | 949.0 | 936.6 |
| 57.5° | 609.7 | 614.0 | 649.9 | 741.5 | 844.3 | 985.0 | 1093.7 | 1095.0 | 1085.1 | 1073.6 | 1069.8 |
| 60° | 609.7 | 614.5 | 644.8 | 734.2 | 863.1 | 1041.9 | 1219.3 | 1331.3 | 1309.8 | 1307.7 | 1294.0 |
| 62.5° | 584.4 | 589.0 | 619.6 | 711.9 | 888.3 | 1118.6 | 1394.3 | 1591.9 | 1585.8 | 1571.8 | 1549.2 |
| 65° | 529.6 | 532.4 | 562.4 | 655.0 | 878.6 | 1189.3 | 1546.0 | 1765.4 | 1755.4 | 1728.0 | 1699.1 |
| 66° | 505.0 | 507.1 | 535.3 | 622.5 | 847.0 | 1198.9 | 1572.9 | 1787.1 | 1770.7 | 1747.6 | 1714.9 |
| 67.5° | 469.3 | 473.0 | 492.9 | 562.1 | 771.0 | 1165.4 | 1556.0 | 1771.8 | 1757.6 | 1729.6 | 1696.9 |
| 70° | 313.3 | 310.6 | 380.7 | 431.4 | 587.4 | 949.5 | 1396.0 | 1590.9 | 1591.1 | 1578.0 | 1564.8 |
| 72.5° | 148.7 | 150.3 | 170.7 | 265.5 | 384.4 | 634.3 | 1111.1 | 1269.8 | 1288.0 | 1264.4 | 1248.1 |
| 75° | 106.8 | 109.3 | 121.6 | 162.4 | 229.2 | 380.7 | 720.3 | 888.0 | 888.6 | 846.7 | 809.4 |
| 77.5° | 31.1 | 32.5 | 45.6 | 100.1 | 171.8 | 256.9 | 413.7 | 493.7 | 482.2 | 452.1 | 423.9 |
| 80° | 12.9 | 12.9 | 13.4 | 31.9 | 69.0 | 174.5 | 289.4 | 380.1 | 378.8 | 367.2 | 350.6 |
| 82.5° | 4.8 | 5.1 | 6.4 | 13.2 | 16.4 | 42.9 | 193.0 | 329.9 | 329.1 | 312.7 | 300.9 |
| 85° | 0.5 | 0.5 | 1.6 | 5.6 | 6.2 | 8.0 | 38.7 | 145.5 | 144.7 | 145.5 | 127.5 |
| 87.5° | 0.0 | 0.0 | 0.3 | 0.5 | 0.8 | 1.1 | 1.6 | 5.6 | 6.2 | 5.9 | 5.4 |
| 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-SL3-HSS-7050

CANDELA DISTRIBUTION (continued):

| | 69° | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0° | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 |
| 2.5° | 45.9 | 45.4 | 45.4 | 45.1 | 45.1 | 45.1 | 44.8 | 44.6 | 44.6 | 44.3 | 44.0 |
| 5° | 50.2 | 49.7 | 49.4 | 48.8 | 48.6 | 48.3 | 47.8 | 47.5 | 47.0 | 46.7 | 46.4 |
| 7.5° | 55.3 | 54.2 | 54.0 | 53.2 | 52.3 | 51.8 | 51.3 | 50.5 | 49.9 | 48.8 | 48.6 |
| 10° | 61.8 | 60.4 | 59.3 | 58.3 | 57.5 | 56.1 | 55.3 | 54.2 | 53.2 | 52.3 | 51.5 |
| 12.5° | 70.1 | 68.2 | 66.6 | 65.5 | 63.6 | 62.0 | 60.4 | 59.6 | 57.5 | 56.4 | 55.0 |
| 15° | 79.2 | 77.1 | 75.2 | 73.0 | 71.7 | 69.0 | 66.8 | 64.4 | 63.4 | 61.5 | 59.3 |
| 17.5° | 91.0 | 87.5 | 84.6 | 82.4 | 79.7 | 77.1 | 74.6 | 72.2 | 69.0 | 66.8 | 64.2 |
| 20° | 103.6 | 100.7 | 96.7 | 92.9 | 89.7 | 86.4 | 83.0 | 79.7 | 76.8 | 73.3 | 70.1 |
| 22.5° | 119.7 | 115.4 | 110.6 | 106.8 | 102.6 | 99.1 | 94.2 | 89.9 | 85.1 | 80.5 | 76.8 |
| 25° | 140.1 | 134.5 | 129.9 | 124.6 | 119.5 | 114.1 | 108.2 | 102.8 | 96.7 | 92.4 | 85.9 |
| 27.5° | 165.4 | 160.0 | 153.8 | 146.9 | 141.7 | 133.7 | 125.9 | 119.2 | 112.0 | 105.2 | 98.0 |
| 30° | 197.6 | 189.8 | 183.4 | 176.6 | 166.5 | 158.7 | 149.5 | 140.4 | 130.5 | 123.8 | 112.7 |
| 32.5° | 236.2 | 227.9 | 218.3 | 208.6 | 199.2 | 188.2 | 176.9 | 165.6 | 154.6 | 142.3 | 131.0 |
| 35° | 283.5 | 273.5 | 262.5 | 252.1 | 237.6 | 225.8 | 211.5 | 196.0 | 183.6 | 169.4 | 155.2 |
| 37.5° | 346.0 | 329.7 | 320.0 | 309.0 | 289.4 | 273.3 | 257.5 | 241.9 | 220.1 | 205.1 | 185.0 |
| 40° | 424.4 | 414.8 | 398.9 | 381.2 | 363.5 | 342.3 | 320.8 | 300.1 | 274.9 | 254.0 | 230.6 |
| 42.5° | 516.5 | 502.3 | 486.2 | 460.7 | 442.7 | 417.7 | 393.3 | 365.9 | 335.0 | 308.2 | 280.8 |
| 45° | 602.9 | 586.0 | 573.7 | 548.2 | 529.4 | 499.9 | 470.3 | 441.3 | 405.6 | 371.0 | 339.3 |
| 47.5° | 696.4 | 682.4 | 662.0 | 641.3 | 622.3 | 589.0 | 557.0 | 521.9 | 484.3 | 443.2 | 402.1 |
| 50° | 778.5 | 767.5 | 753.6 | 728.6 | 707.4 | 679.5 | 641.9 | 603.5 | 556.0 | 515.2 | 468.5 |
| 52.5° | 848.3 | 839.7 | 820.1 | 802.4 | 783.3 | 757.0 | 723.5 | 686.7 | 635.4 | 590.6 | 537.4 |
| 55° | 930.7 | 924.6 | 907.4 | 896.4 | 879.5 | 854.2 | 822.8 | 788.7 | 734.5 | 685.6 | 625.5 |
| 57.5° | 1065.8 | 1060.9 | 1045.9 | 1041.3 | 1024.7 | 1002.7 | 964.0 | 927.5 | 864.2 | 803.5 | 734.8 |
| 60° | 1289.4 | 1279.7 | 1257.7 | 1246.4 | 1211.3 | 1181.7 | 1131.6 | 1081.3 | 1004.8 | 927.5 | 844.8 |
| 62.5° | 1528.9 | 1501.8 | 1459.9 | 1423.9 | 1374.0 | 1322.7 | 1255.6 | 1178.8 | 1089.1 | 997.3 | 902.3 |
| 65° | 1658.0 | 1611.8 | 1558.9 | 1501.8 | 1437.0 | 1361.6 | 1277.1 | 1185.0 | 1088.6 | 991.7 | 891.3 |
| 66° | 1672.7 | 1620.7 | 1564.5 | 1500.9 | 1429.0 | 1348.7 | 1262.8 | 1166.2 | 1066.0 | 971.5 | 871.1 |
| 67.5° | 1654.2 | 1599.7 | 1540.4 | 1469.8 | 1391.9 | 1308.7 | 1218.5 | 1118.1 | 1021.7 | 925.9 | 828.2 |
| 70° | 1524.6 | 1470.3 | 1417.4 | 1343.1 | 1260.1 | 1176.4 | 1091.0 | 978.8 | 887.5 | 799.5 | 712.5 |
| 72.5° | 1217.4 | 1180.7 | 1128.3 | 1064.7 | 983.9 | 885.6 | 814.5 | 714.1 | 634.9 | 549.5 | 482.2 |
| 75° | 760.8 | 709.0 | 644.3 | 563.2 | 501.5 | 421.7 | 380.1 | 303.9 | 258.8 | 219.3 | 181.2 |
| 77.5° | 389.0 | 350.1 | 304.7 | 259.1 | 215.3 | 171.8 | 132.9 | 94.0 | 63.4 | 44.0 | 32.8 |
| 80° | 321.4 | 287.0 | 249.4 | 207.8 | 169.1 | 131.3 | 94.5 | 64.4 | 41.1 | 26.9 | 21.0 |
| 82.5° | 265.5 | 236.5 | 203.0 | 164.3 | 130.7 | 103.1 | 71.7 | 46.7 | 29.0 | 18.8 | 14.8 |
| 85° | 113.0 | 102.6 | 79.2 | 62.8 | 47.2 | 34.9 | 24.4 | 16.4 | 11.5 | 9.4 | 8.6 |
| 87.5° | 4.8 | 5.4 | 5.1 | 4.0 | 3.0 | 3.0 | 2.7 | 2.1 | 2.1 | 2.1 | 2.1 |
| 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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CATALOG NUMBER: ECM-F01-LED-E1-SL3-HSS-7050

CANDELA DISTRIBUTION (continued):

| | 80° | 81° | 82° | 83° | 84° | 85° | 95° | 105° | 115° | 125° | 135° |
|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 0° | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 |
| 2.5° | 44.0 | 43.8 | 43.5 | 43.5 | 43.2 | 42.9 | 41.3 | 40.0 | 38.4 | 37.3 | 36.3 |
| 5° | 45.9 | 45.6 | 45.1 | 44.8 | 44.3 | 44.0 | 40.5 | 37.6 | 35.2 | 33.3 | 31.9 |
| 7.5° | 47.8 | 47.5 | 46.7 | 45.9 | 45.6 | 45.1 | 39.5 | 35.7 | 32.5 | 30.3 | 29.0 |
| 10° | 50.2 | 49.4 | 48.6 | 47.5 | 46.7 | 45.9 | 38.4 | 33.5 | 30.1 | 28.2 | 26.9 |
| 12.5° | 53.7 | 52.3 | 51.0 | 49.7 | 48.6 | 47.2 | 37.9 | 31.7 | 28.2 | 26.0 | 24.7 |
| 15° | 57.7 | 55.9 | 54.2 | 52.6 | 50.7 | 49.4 | 36.8 | 30.1 | 26.6 | 24.4 | 22.8 |
| 17.5° | 61.5 | 59.3 | 56.9 | 54.5 | 52.6 | 50.7 | 35.7 | 28.5 | 25.0 | 22.8 | 21.2 |
| 20° | 66.8 | 63.6 | 60.7 | 57.7 | 55.0 | 52.6 | 34.1 | 26.9 | 23.6 | 21.2 | 19.6 |
| 22.5° | 72.8 | 69.0 | 65.2 | 61.2 | 57.7 | 54.5 | 32.8 | 25.5 | 22.3 | 19.9 | 18.0 |
| 25° | 80.3 | 75.7 | 70.6 | 65.5 | 61.5 | 57.2 | 31.4 | 24.2 | 21.0 | 18.5 | 16.6 |
| 27.5° | 90.8 | 84.3 | 78.7 | 72.2 | 66.0 | 61.2 | 30.3 | 23.1 | 19.6 | 17.2 | 15.3 |
| 30° | 105.0 | 95.6 | 86.7 | 79.7 | 72.5 | 65.5 | 29.3 | 21.7 | 18.5 | 15.8 | 13.7 |
| 32.5° | 120.8 | 109.8 | 99.6 | 89.1 | 80.0 | 71.9 | 28.2 | 20.7 | 17.2 | 14.5 | 12.6 |
| 35° | 140.4 | 126.4 | 112.7 | 100.7 | 89.7 | 78.9 | 27.1 | 19.6 | 16.1 | 13.2 | 11.3 |
| 37.5° | 168.6 | 151.1 | 133.2 | 117.6 | 103.3 | 89.1 | 26.3 | 18.5 | 14.8 | 11.8 | 9.9 |
| 40° | 207.3 | 184.7 | 162.7 | 141.5 | 122.9 | 105.2 | 25.2 | 17.4 | 13.7 | 10.7 | 8.9 |
| 42.5° | 249.1 | 221.7 | 192.7 | 168.9 | 143.4 | 121.1 | 24.2 | 16.4 | 12.6 | 9.7 | 7.8 |
| 45° | 301.2 | 267.1 | 232.0 | 199.5 | 168.3 | 139.6 | 23.1 | 15.3 | 11.3 | 8.6 | 6.7 |
| 47.5° | 358.1 | 314.6 | 274.9 | 234.1 | 197.1 | 162.7 | 21.7 | 14.5 | 10.2 | 7.5 | 5.9 |
| 50° | 416.6 | 370.7 | 320.5 | 274.1 | 230.1 | 185.8 | 20.4 | 13.2 | 9.1 | 6.7 | 4.8 |
| 52.5° | 479.7 | 425.5 | 374.2 | 316.5 | 265.2 | 216.1 | 19.1 | 12.1 | 8.3 | 5.9 | 4.0 |
| 55° | 560.0 | 499.3 | 439.2 | 374.5 | 312.7 | 251.3 | 17.7 | 10.7 | 7.3 | 5.1 | 3.2 |
| 57.5° | 660.9 | 589.0 | 515.2 | 442.1 | 367.2 | 297.4 | 16.6 | 9.4 | 6.2 | 4.3 | 2.7 |
| 60° | 756.2 | 672.2 | 582.8 | 498.8 | 414.2 | 332.9 | 15.0 | 8.3 | 5.4 | 3.5 | 2.7 |
| 62.5° | 805.6 | 709.8 | 613.4 | 520.8 | 430.6 | 345.5 | 13.4 | 7.0 | 4.6 | 3.0 | 2.4 |
| 65° | 793.5 | 695.8 | 602.4 | 509.0 | 420.7 | 337.4 | 11.8 | 6.2 | 4.0 | 2.7 | 2.4 |
| 66° | 776.1 | 679.5 | 585.5 | 496.6 | 412.4 | 328.9 | 11.0 | 5.9 | 3.8 | 2.7 | 2.1 |
| 67.5° | 738.0 | 644.6 | 554.9 | 472.2 | 389.5 | 312.5 | 9.9 | 5.4 | 3.5 | 2.4 | 2.1 |
| 70° | 630.3 | 545.5 | 473.8 | 400.3 | 332.9 | 263.4 | 8.0 | 4.6 | 3.0 | 2.1 | 2.1 |
| 72.5° | 417.2 | 359.5 | 311.7 | 268.2 | 224.2 | 174.0 | 6.7 | 3.8 | 2.4 | 2.1 | 1.9 |
| 75° | 157.3 | 142.3 | 122.1 | 109.8 | 95.8 | 84.0 | 5.4 | 2.4 | 1.9 | 1.9 | 1.9 |
| 77.5° | 27.9 | 25.8 | 22.8 | 21.0 | 19.3 | 17.7 | 4.3 | 1.6 | 1.6 | 1.9 | 1.9 |
| 80° | 18.8 | 17.4 | 15.8 | 14.5 | 13.4 | 12.1 | 3.0 | 1.4 | 1.6 | 1.6 | 1.9 |
| 82.5° | 13.4 | 12.6 | 11.8 | 10.7 | 9.9 | 8.9 | 1.9 | 1.4 | 1.6 | 1.6 | 1.6 |
| 85° | 8.0 | 7.5 | 7.0 | 6.4 | 5.6 | 5.4 | 1.4 | 1.4 | 1.4 | 1.6 | 1.6 |
| 87.5° | 2.1 | 1.9 | 2.1 | 2.1 | 1.6 | 1.9 | 1.1 | 1.1 | 1.1 | 1.4 | 1.4 |
| 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: P162433

CATALOG NUMBER: ECM-F01-LED-E1-SL3-HSS-7050

CANDELA DISTRIBUTION (continued):

| | 145° | 155° | 165° | 175° | 180° |
|-------|------|------|------|------|------|
| 0° | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 |
| 2.5° | 35.7 | 35.7 | 35.2 | 36.0 | 36.0 |
| 5° | 30.9 | 30.9 | 30.6 | 30.9 | 30.9 |
| 7.5° | 28.2 | 27.9 | 27.9 | 27.9 | 28.2 |
| 10° | 25.8 | 25.5 | 25.5 | 25.5 | 25.5 |
| 12.5° | 23.6 | 23.4 | 23.1 | 23.4 | 23.4 |
| 15° | 21.7 | 21.2 | 21.2 | 21.2 | 21.2 |
| 17.5° | 20.1 | 19.6 | 19.3 | 19.3 | 19.3 |
| 20° | 18.5 | 17.7 | 17.7 | 17.7 | 17.7 |
| 22.5° | 16.9 | 16.1 | 16.1 | 16.1 | 16.1 |
| 25° | 15.3 | 14.5 | 14.5 | 14.5 | 14.5 |
| 27.5° | 13.9 | 13.2 | 13.2 | 13.2 | 13.2 |
| 30° | 12.3 | 11.8 | 11.8 | 12.1 | 11.8 |
| 32.5° | 11.3 | 10.5 | 10.5 | 10.7 | 10.7 |
| 35° | 9.9 | 9.4 | 9.4 | 9.4 | 9.4 |
| 37.5° | 8.6 | 8.0 | 8.0 | 8.0 | 8.0 |
| 40° | 7.5 | 7.0 | 6.7 | 7.0 | 7.0 |
| 42.5° | 6.4 | 5.9 | 5.6 | 5.6 | 5.6 |
| 45° | 5.6 | 4.8 | 4.6 | 4.8 | 4.8 |
| 47.5° | 4.6 | 4.0 | 4.0 | 4.3 | 4.3 |
| 50° | 3.5 | 3.5 | 3.8 | 4.3 | 4.3 |
| 52.5° | 3.2 | 3.2 | 3.8 | 4.3 | 4.3 |
| 55° | 3.0 | 3.2 | 3.8 | 4.0 | 4.3 |
| 57.5° | 2.7 | 3.2 | 3.8 | 4.0 | 4.0 |
| 60° | 2.7 | 3.0 | 3.5 | 4.0 | 4.0 |
| 62.5° | 2.4 | 2.7 | 3.2 | 3.8 | 3.8 |
| 65° | 2.4 | 2.7 | 3.2 | 3.8 | 3.8 |
| 66° | 2.4 | 2.7 | 3.2 | 3.8 | 3.8 |
| 67.5° | 2.4 | 2.7 | 3.2 | 3.8 | 3.8 |
| 70° | 2.4 | 2.7 | 3.2 | 3.5 | 3.5 |
| 72.5° | 2.1 | 2.4 | 3.0 | 3.5 | 3.5 |
| 75° | 2.1 | 2.4 | 3.0 | 3.5 | 3.5 |
| 77.5° | 2.1 | 2.4 | 3.0 | 3.5 | 3.5 |
| 80° | 2.1 | 2.4 | 3.0 | 3.2 | 3.5 |
| 82.5° | 1.9 | 2.4 | 2.7 | 3.2 | 3.2 |
| 85° | 1.9 | 2.1 | 2.7 | 3.0 | 3.2 |
| 87.5° | 1.6 | 1.9 | 2.1 | 2.7 | 2.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)