

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: P162268

Luminaire Tested: **ECM-E01-LED-E1-SL2-HSS-7050**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P162268  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ECM-E01-LED-E1-SL2-HSS-7050  
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (21) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

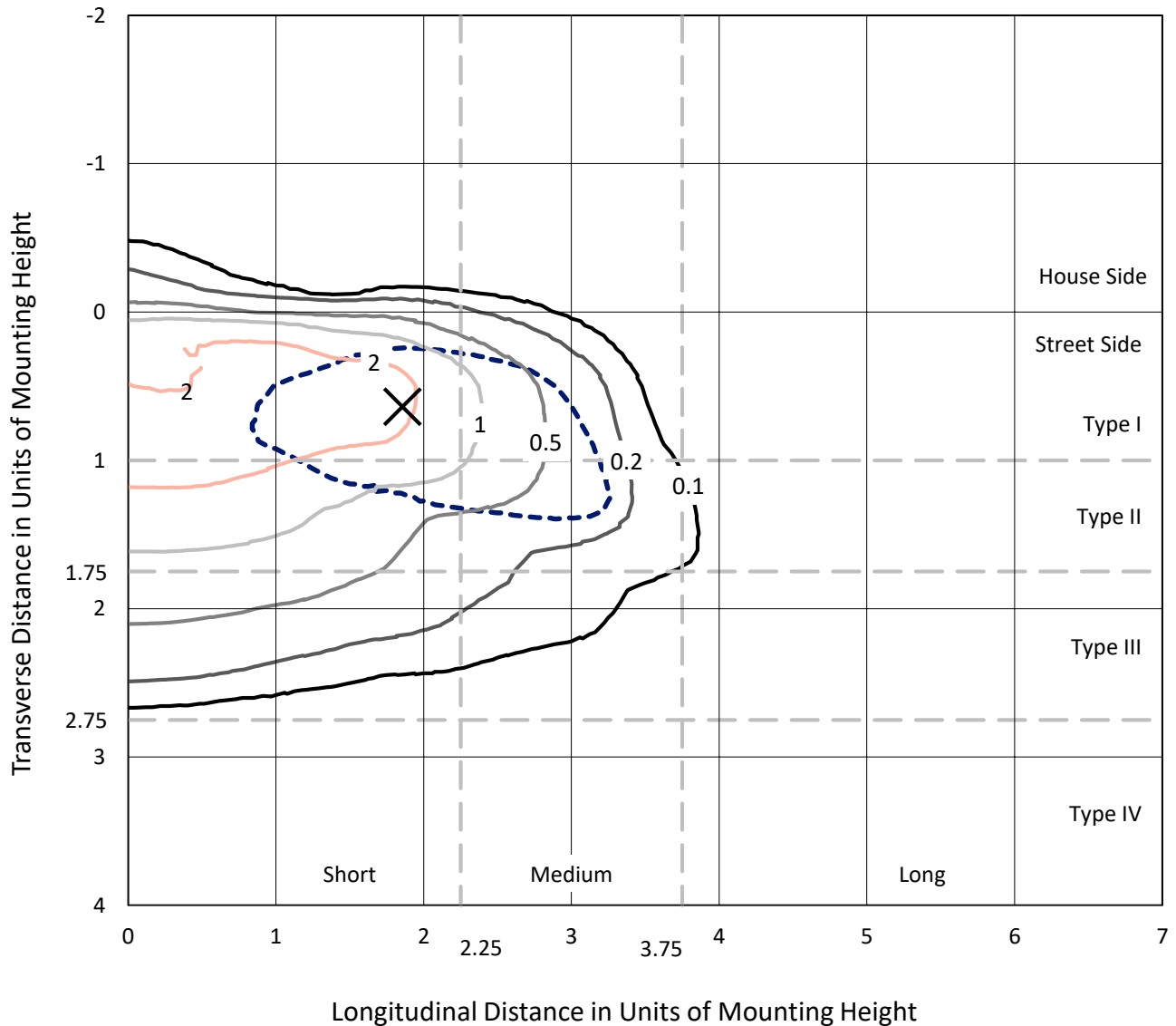
Lumens per Lamp: N/A  
Luminaire Lumens: 1788.8 lumens  
Efficiency: N/A  
Efficacy: 72.4 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 24.7  
Input Voltage (V): NR  
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

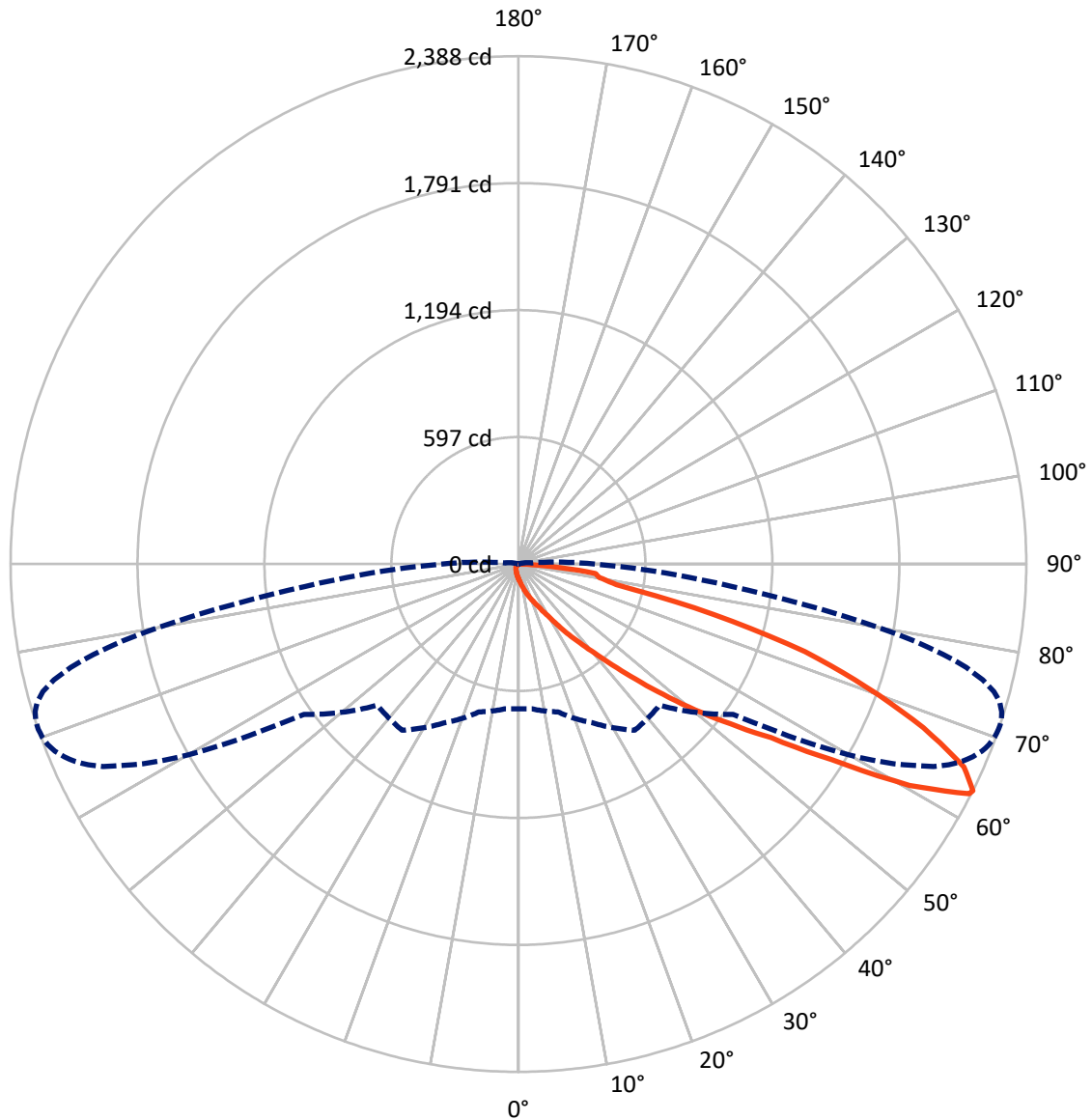
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.8 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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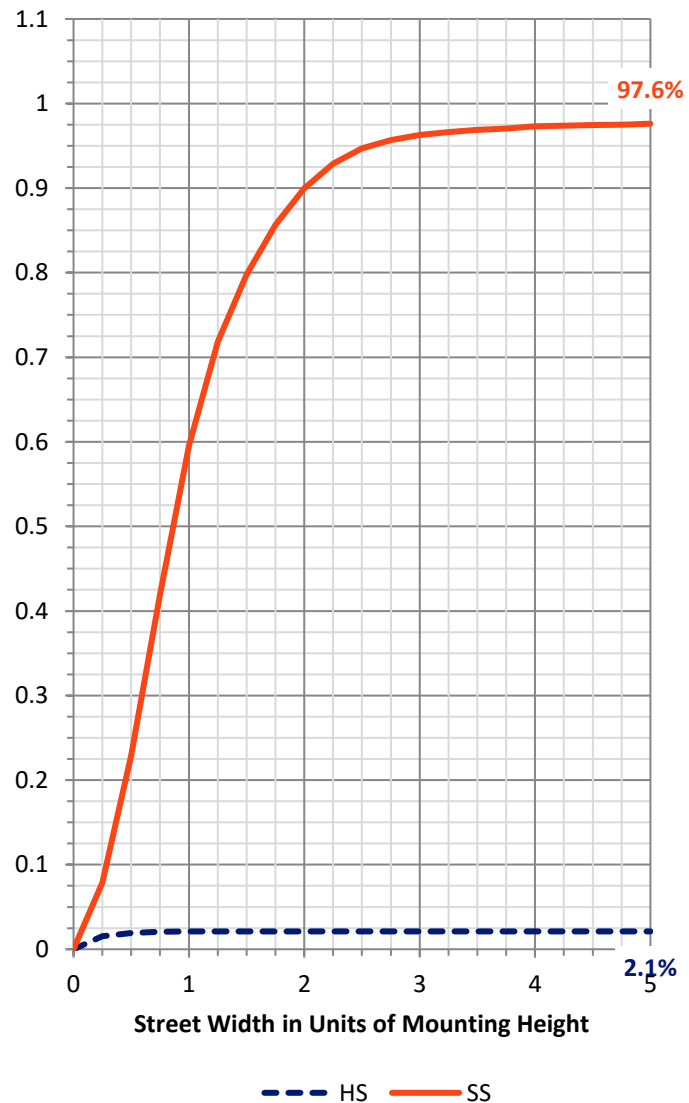
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 38.0     | 0.0    | 38.0   |
|                    | % Fixture | 2.1      | 0.0    | 2.1    |
| <b>Street Side</b> | Lumens    | 1750.8   | 0.0    | 1750.8 |
|                    | % Fixture | 97.9     | 0.0    | 97.9   |
| <b>Total</b>       | Lumens    | 1788.8   | 0.0    | 1788.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 7.6    | 0.4       |
| 10°-20°   | 29.4   | 1.6       |
| 20°-30°   | 59.7   | 3.3       |
| 30°-40°   | 146.0  | 8.2       |
| 40°-50°   | 326.4  | 18.2      |
| 50°-60°   | 459.0  | 25.7      |
| 60°-70°   | 539.7  | 30.2      |
| 70°-80°   | 194.9  | 10.9      |
| 80°-90°   | 26.1   | 1.5       |
| 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°    | 1788.8 | 100.0     |
| 0°-180°   | 1788.8 | 100.0     |



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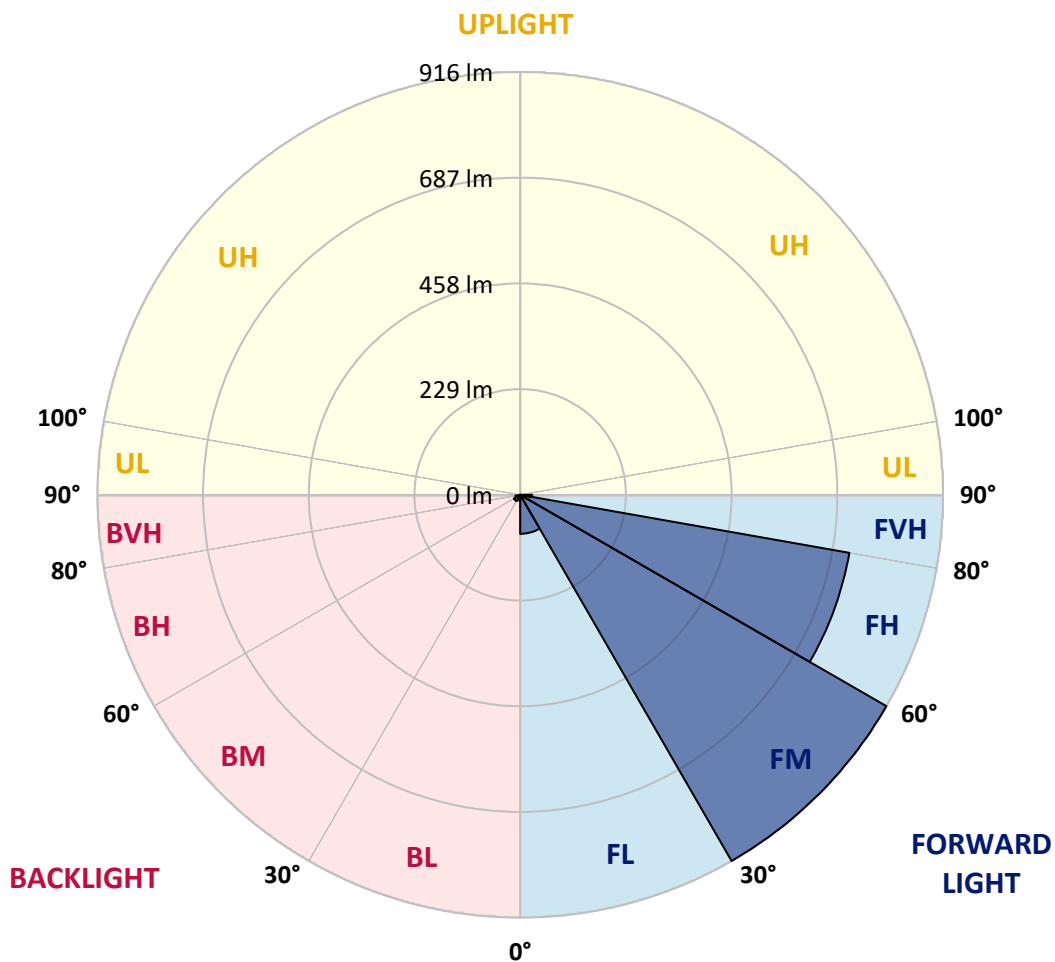
CATALOG NUMBER: ECM-E01-LED-E1-SL2-HSS-7050

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 84.5   | 4.7       |                         |      |         |
| FM (30°-60°)   | 916.1  | 51.2      |                         |      |         |
| FH (60°-80°)   | 724.2  | 40.5      |                         |      | G1/1800 |
| FVH (80°-90°)  | 26.0   | 1.5       |                         |      | G1/100  |
| BL (0°-30°)    | 12.2   | 0.7       | B0/110                  |      |         |
| BM (30°-60°)   | 15.3   | 0.9       | B0/220                  |      |         |
| BH (60°-80°)   | 10.4   | 0.6       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 0.1    | 0.0       |                         |      | 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 II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°    | 45°    | 55°    | 56°    | 57°    | 58°    | 59°    |
|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 68.6  | 68.6  | 68.6  | 68.6  | 68.6   | 68.6   | 68.6   | 68.6   | 68.6   | 68.6   | 68.6   |
| 2.5°  | 89.8  | 90.7  | 90.1  | 88.5  | 86.5   | 83.9   | 81.6   | 81.6   | 81.3   | 80.3   | 80.7   |
| 5°    | 117.7 | 118.0 | 116.7 | 112.8 | 109.3  | 103.7  | 97.5   | 96.9   | 96.2   | 95.3   | 94.9   |
| 7.5°  | 145.0 | 146.3 | 145.0 | 140.8 | 133.7  | 125.2  | 115.4  | 114.5  | 112.5  | 112.5  | 111.2  |
| 10°   | 173.0 | 173.0 | 171.7 | 166.8 | 160.3  | 148.3  | 135.9  | 134.3  | 132.0  | 131.4  | 129.4  |
| 12.5° | 192.8 | 192.8 | 192.2 | 189.6 | 184.4  | 173.7  | 158.7  | 157.1  | 154.2  | 153.2  | 150.9  |
| 15°   | 200.6 | 200.6 | 201.0 | 203.2 | 203.6  | 198.7  | 183.1  | 181.8  | 178.9  | 176.3  | 175.3  |
| 17.5° | 205.5 | 205.2 | 205.2 | 208.4 | 214.3  | 217.6  | 207.5  | 206.2  | 202.9  | 201.6  | 198.4  |
| 20°   | 216.3 | 215.6 | 213.6 | 213.6 | 219.2  | 230.6  | 230.6  | 230.2  | 226.7  | 225.7  | 224.1  |
| 22.5° | 232.2 | 231.5 | 225.7 | 220.8 | 223.4  | 237.7  | 251.1  | 250.4  | 249.1  | 247.8  | 246.8  |
| 25°   | 258.2 | 255.9 | 245.9 | 231.5 | 229.3  | 244.6  | 266.7  | 268.3  | 269.3  | 269.3  | 269.9  |
| 27.5° | 297.5 | 294.6 | 276.7 | 250.1 | 240.0  | 255.6  | 283.9  | 287.1  | 290.1  | 290.7  | 293.6  |
| 30°   | 352.2 | 347.0 | 321.3 | 282.3 | 259.2  | 271.8  | 309.3  | 312.8  | 317.1  | 318.4  | 322.9  |
| 32.5° | 441.9 | 439.0 | 414.3 | 355.8 | 306.3  | 303.7  | 344.7  | 349.3  | 354.8  | 357.1  | 362.6  |
| 35°   | 578.5 | 579.2 | 559.0 | 506.3 | 438.0  | 402.3  | 408.1  | 412.0  | 414.0  | 420.8  | 423.7  |
| 37.5° | 671.2 | 672.8 | 677.4 | 656.6 | 607.8  | 571.4  | 525.5  | 529.7  | 519.7  | 520.6  | 521.0  |
| 40°   | 721.9 | 727.1 | 753.8 | 774.0 | 770.1  | 748.9  | 712.2  | 714.4  | 695.6  | 691.4  | 670.9  |
| 42.5° | 755.8 | 762.6 | 805.2 | 867.6 | 899.5  | 918.7  | 910.2  | 909.2  | 894.6  | 889.1  | 871.8  |
| 45°   | 776.9 | 783.1 | 836.7 | 928.8 | 1002.2 | 1058.2 | 1081.3 | 1083.9 | 1071.5 | 1066.0 | 1051.7 |
| 47.5° | 775.9 | 783.1 | 840.6 | 951.5 | 1059.8 | 1149.2 | 1214.3 | 1217.5 | 1225.0 | 1220.1 | 1221.1 |
| 50°   | 733.0 | 739.8 | 797.7 | 912.8 | 1042.9 | 1190.9 | 1309.9 | 1320.3 | 1332.3 | 1340.4 | 1344.3 |
| 52.5° | 681.0 | 685.8 | 737.2 | 846.5 | 970.7  | 1173.6 | 1366.5 | 1384.4 | 1402.2 | 1417.5 | 1428.2 |
| 55°   | 661.8 | 667.3 | 707.6 | 798.3 | 912.8  | 1101.4 | 1392.8 | 1419.1 | 1444.5 | 1469.6 | 1490.0 |
| 57.5° | 671.9 | 677.1 | 706.0 | 775.6 | 878.3  | 1025.3 | 1400.3 | 1441.3 | 1482.9 | 1523.5 | 1563.9 |
| 60°   | 708.9 | 714.4 | 739.2 | 796.7 | 869.2  | 981.4  | 1371.0 | 1439.0 | 1508.2 | 1579.1 | 1645.8 |
| 62.5° | 694.3 | 696.6 | 733.0 | 833.8 | 934.3  | 944.1  | 1264.7 | 1359.6 | 1465.3 | 1574.6 | 1682.2 |
| 63°   | 680.3 | 682.9 | 720.0 | 823.7 | 954.1  | 938.5  | 1231.8 | 1332.0 | 1443.5 | 1561.3 | 1678.3 |
| 65°   | 616.9 | 617.2 | 645.5 | 727.5 | 932.0  | 948.3  | 1085.5 | 1181.1 | 1309.2 | 1450.4 | 1598.3 |
| 67.5° | 460.5 | 458.2 | 485.5 | 547.9 | 731.7  | 948.6  | 931.7  | 985.3  | 1074.4 | 1199.7 | 1332.3 |
| 70°   | 163.3 | 159.7 | 203.9 | 290.4 | 455.9  | 775.9  | 800.6  | 804.2  | 828.9  | 896.5  | 979.8  |
| 72.5° | 53.0  | 54.0  | 65.1  | 106.3 | 210.1  | 522.3  | 724.8  | 713.8  | 707.3  | 707.0  | 718.0  |
| 75°   | 21.1  | 21.5  | 26.0  | 47.2  | 94.3   | 251.7  | 634.8  | 640.9  | 643.2  | 646.5  | 650.1  |
| 77.5° | 10.1  | 11.0  | 14.6  | 26.3  | 46.8   | 124.5  | 454.3  | 506.7  | 536.6  | 559.7  | 573.6  |
| 80°   | 3.6   | 4.2   | 8.1   | 16.2  | 21.8   | 57.2   | 239.4  | 288.8  | 332.7  | 389.3  | 438.0  |
| 82.5° | 0.0   | 0.0   | 1.6   | 11.4  | 12.0   | 23.1   | 98.2   | 115.1  | 131.7  | 170.7  | 219.2  |
| 85°   | 0.0   | 0.0   | 0.0   | 3.2   | 3.6    | 3.9    | 33.2   | 40.0   | 44.9   | 52.4   | 60.5   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.3    | 1.0    | 1.9    | 4.9    | 7.5    |
| 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):**

|       | 60°    | 61°    | 62°    | 64°    | 65°    | 66°    | 67°    | 68°    | 69°    | 70°    | 71°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 68.6   | 68.6   | 68.6   | 68.6   | 68.6   | 68.6   | 68.6   | 68.6   | 68.6   | 68.6   | 68.6   |
| 2.5°  | 80.0   | 79.7   | 79.7   | 79.0   | 78.7   | 78.1   | 77.7   | 76.8   | 76.4   | 76.4   | 76.4   |
| 5°    | 94.6   | 93.3   | 92.7   | 91.0   | 90.1   | 89.8   | 88.1   | 87.5   | 86.5   | 86.8   | 85.2   |
| 7.5°  | 110.9  | 108.6  | 107.6  | 105.3  | 104.7  | 102.4  | 101.8  | 100.1  | 99.2   | 97.2   | 96.6   |
| 10°   | 128.8  | 125.8  | 124.2  | 120.6  | 119.7  | 118.0  | 116.1  | 114.1  | 112.5  | 110.6  | 109.6  |
| 12.5° | 149.3  | 146.7  | 145.4  | 140.5  | 138.2  | 135.9  | 133.3  | 130.7  | 128.1  | 126.5  | 124.2  |
| 15°   | 173.3  | 169.1  | 167.8  | 163.3  | 159.4  | 156.4  | 152.9  | 149.6  | 147.6  | 144.4  | 142.1  |
| 17.5° | 197.1  | 192.8  | 191.8  | 185.0  | 180.8  | 178.9  | 175.0  | 170.7  | 167.2  | 163.9  | 160.3  |
| 20°   | 220.8  | 217.9  | 215.3  | 208.8  | 204.2  | 201.0  | 195.8  | 191.5  | 188.6  | 184.0  | 179.5  |
| 22.5° | 244.6  | 241.6  | 239.7  | 232.8  | 228.6  | 224.1  | 219.5  | 215.0  | 210.7  | 205.2  | 200.0  |
| 25°   | 268.9  | 267.0  | 266.0  | 259.8  | 255.9  | 251.7  | 247.2  | 242.0  | 236.8  | 230.6  | 225.0  |
| 27.5° | 294.3  | 294.9  | 293.0  | 291.7  | 287.5  | 284.5  | 277.4  | 273.8  | 269.9  | 262.4  | 255.6  |
| 30°   | 326.5  | 328.5  | 327.8  | 328.8  | 326.2  | 324.2  | 318.7  | 314.1  | 309.6  | 302.4  | 294.6  |
| 32.5° | 367.1  | 369.7  | 371.0  | 374.6  | 373.3  | 372.7  | 371.0  | 364.5  | 361.3  | 348.9  | 345.7  |
| 35°   | 429.9  | 428.6  | 434.1  | 437.1  | 435.8  | 435.1  | 433.2  | 429.6  | 425.7  | 416.9  | 408.8  |
| 37.5° | 511.5  | 512.8  | 514.8  | 508.9  | 505.0  | 504.7  | 498.9  | 495.3  | 489.7  | 480.0  | 470.2  |
| 40°   | 661.1  | 653.0  | 643.9  | 619.2  | 608.4  | 602.3  | 585.0  | 580.2  | 570.7  | 557.4  | 547.3  |
| 42.5° | 855.6  | 847.5  | 820.1  | 778.8  | 756.7  | 726.1  | 712.2  | 694.9  | 681.6  | 659.8  | 648.1  |
| 45°   | 1048.7 | 1025.3 | 1022.1 | 973.9  | 946.7  | 906.3  | 881.3  | 852.3  | 822.1  | 793.5  | 772.7  |
| 47.5° | 1211.7 | 1206.5 | 1190.5 | 1161.3 | 1135.9 | 1102.1 | 1069.9 | 1025.3 | 994.1  | 953.5  | 916.1  |
| 50°   | 1342.1 | 1341.7 | 1335.9 | 1319.0 | 1297.9 | 1270.5 | 1242.2 | 1204.5 | 1169.1 | 1119.3 | 1079.3 |
| 52.5° | 1439.6 | 1444.8 | 1446.8 | 1441.6 | 1433.5 | 1409.4 | 1395.1 | 1363.5 | 1333.6 | 1291.4 | 1248.1 |
| 55°   | 1511.2 | 1530.4 | 1540.1 | 1551.2 | 1548.9 | 1540.5 | 1539.8 | 1519.3 | 1505.6 | 1472.2 | 1441.6 |
| 57.5° | 1599.6 | 1631.2 | 1661.4 | 1715.1 | 1717.0 | 1735.9 | 1745.6 | 1755.4 | 1758.0 | 1744.7 | 1734.6 |
| 60°   | 1712.2 | 1776.5 | 1833.8 | 1945.9 | 1975.2 | 2021.4 | 2051.3 | 2083.8 | 2111.5 | 2113.7 | 2113.1 |
| 62.5° | 1791.5 | 1890.7 | 1983.0 | 2149.5 | 2206.4 | 2259.8 | 2299.8 | 2331.3 | 2350.5 | 2370.0 | 2379.1 |
| 63°   | 1793.8 | 1902.4 | 2000.6 | 2172.3 | 2232.1 | 2282.8 | 2320.9 | 2350.2 | 2370.3 | 2382.0 | 2387.9 |
| 65°   | 1738.8 | 1870.5 | 1987.6 | 2158.6 | 2214.9 | 2265.9 | 2285.8 | 2305.0 | 2314.7 | 2319.3 | 2302.0 |
| 67.5° | 1473.8 | 1602.5 | 1739.1 | 1930.3 | 1978.5 | 2039.6 | 2055.9 | 2065.6 | 2070.2 | 2069.2 | 2054.6 |
| 70°   | 1102.1 | 1210.1 | 1361.9 | 1580.4 | 1644.2 | 1704.0 | 1741.1 | 1757.0 | 1762.2 | 1760.6 | 1738.8 |
| 72.5° | 769.4  | 832.8  | 958.0  | 1201.3 | 1288.1 | 1364.8 | 1410.7 | 1434.4 | 1439.3 | 1429.5 | 1409.4 |
| 75°   | 646.2  | 649.4  | 677.7  | 810.7  | 892.0  | 973.9  | 1025.7 | 1040.6 | 1030.9 | 1001.3 | 949.9  |
| 77.5° | 576.9  | 584.1  | 584.1  | 603.9  | 619.8  | 642.6  | 647.5  | 611.0  | 568.8  | 514.1  | 469.9  |
| 80°   | 483.9  | 508.9  | 526.5  | 541.1  | 542.7  | 538.2  | 526.2  | 505.7  | 473.2  | 431.5  | 385.4  |
| 82.5° | 294.0  | 343.4  | 363.5  | 439.0  | 476.1  | 501.1  | 499.2  | 471.9  | 447.1  | 403.9  | 364.5  |
| 85°   | 74.2   | 80.0   | 86.8   | 112.8  | 126.5  | 154.5  | 172.0  | 180.1  | 183.1  | 168.1  | 152.2  |
| 87.5° | 7.1    | 4.9    | 8.1    | 6.2    | 8.8    | 6.5    | 8.8    | 8.1    | 10.1   | 10.7   | 11.7   |
| 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):**

|       | 72°    | 73°    | 74°    | 75°    | 76°    | 77°    | 78°    | 79°    | 80°    | 81°    | 82°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 68.6   | 68.6   | 68.6   | 68.6   | 68.6   | 68.6   | 68.6   | 68.6   | 68.6   | 68.6   | 68.6   |
| 2.5°  | 75.8   | 75.5   | 75.1   | 74.8   | 74.5   | 74.2   | 73.5   | 73.5   | 72.9   | 72.5   | 72.2   |
| 5°    | 84.2   | 83.6   | 83.3   | 82.6   | 81.6   | 81.0   | 80.0   | 78.7   | 77.7   | 77.4   | 76.8   |
| 7.5°  | 94.9   | 93.3   | 92.7   | 91.7   | 90.4   | 88.5   | 87.2   | 86.2   | 84.6   | 83.6   | 81.6   |
| 10°   | 107.0  | 105.3  | 103.4  | 101.4  | 99.5   | 97.2   | 95.6   | 94.3   | 91.7   | 90.4   | 88.1   |
| 12.5° | 122.3  | 119.3  | 117.1  | 114.5  | 111.9  | 109.3  | 107.3  | 103.4  | 101.1  | 98.2   | 96.2   |
| 15°   | 137.9  | 135.3  | 132.7  | 129.4  | 125.5  | 121.3  | 119.3  | 115.8  | 112.8  | 108.3  | 105.7  |
| 17.5° | 156.8  | 151.9  | 148.0  | 144.1  | 140.5  | 136.6  | 132.7  | 127.1  | 122.9  | 119.0  | 113.8  |
| 20°   | 175.3  | 169.4  | 165.2  | 160.0  | 154.8  | 148.6  | 144.1  | 140.2  | 134.3  | 129.1  | 123.6  |
| 22.5° | 195.1  | 189.2  | 182.4  | 177.2  | 170.1  | 165.2  | 159.0  | 152.5  | 146.7  | 139.8  | 133.0  |
| 25°   | 219.2  | 213.0  | 205.2  | 198.4  | 190.2  | 183.4  | 175.9  | 168.5  | 161.3  | 153.5  | 144.7  |
| 27.5° | 248.8  | 242.3  | 233.8  | 225.7  | 215.0  | 206.5  | 199.3  | 189.2  | 180.1  | 170.4  | 160.3  |
| 30°   | 286.2  | 279.0  | 268.6  | 256.9  | 246.2  | 236.8  | 226.7  | 213.3  | 203.2  | 191.5  | 178.5  |
| 32.5° | 335.0  | 326.5  | 312.5  | 301.5  | 288.1  | 275.7  | 261.8  | 248.5  | 234.1  | 218.9  | 203.9  |
| 35°   | 396.4  | 388.6  | 372.3  | 356.1  | 341.5  | 326.8  | 309.3  | 294.0  | 273.8  | 255.3  | 236.1  |
| 37.5° | 460.1  | 446.2  | 431.2  | 413.7  | 395.4  | 377.9  | 356.4  | 335.3  | 312.2  | 292.0  | 268.0  |
| 40°   | 533.0  | 516.1  | 503.7  | 484.9  | 459.2  | 434.1  | 414.3  | 388.0  | 359.0  | 332.0  | 303.7  |
| 42.5° | 632.8  | 614.0  | 591.9  | 563.2  | 544.7  | 515.4  | 489.7  | 458.5  | 420.5  | 390.2  | 356.1  |
| 45°   | 748.3  | 722.6  | 701.1  | 673.5  | 651.0  | 614.6  | 584.7  | 543.1  | 505.0  | 465.3  | 423.7  |
| 47.5° | 880.0  | 848.1  | 816.9  | 789.6  | 753.8  | 718.0  | 680.0  | 635.7  | 587.0  | 543.4  | 494.0  |
| 50°   | 1031.2 | 986.0  | 942.8  | 907.6  | 858.5  | 817.2  | 775.9  | 726.1  | 672.2  | 622.1  | 565.8  |
| 52.5° | 1199.3 | 1146.9 | 1089.7 | 1035.8 | 978.8  | 925.8  | 876.1  | 818.8  | 758.7  | 697.5  | 634.8  |
| 55°   | 1402.2 | 1362.9 | 1295.6 | 1226.9 | 1150.8 | 1080.0 | 1015.9 | 945.0  | 871.8  | 791.5  | 725.5  |
| 57.5° | 1720.0 | 1700.8 | 1644.5 | 1575.9 | 1476.7 | 1390.5 | 1281.9 | 1195.1 | 1089.1 | 978.5  | 893.3  |
| 60°   | 2150.5 | 2126.8 | 2095.2 | 2039.6 | 1960.9 | 1843.8 | 1724.2 | 1589.2 | 1427.9 | 1274.8 | 1129.4 |
| 62.5° | 2380.1 | 2371.6 | 2346.0 | 2307.6 | 2234.1 | 2141.7 | 2021.1 | 1872.8 | 1690.7 | 1504.7 | 1319.3 |
| 63°   | 2386.9 | 2376.2 | 2354.1 | 2315.1 | 2250.4 | 2160.9 | 2042.5 | 1898.5 | 1720.3 | 1530.7 | 1341.4 |
| 65°   | 2294.6 | 2290.3 | 2267.9 | 2225.3 | 2181.1 | 2112.8 | 2021.1 | 1897.2 | 1747.6 | 1568.4 | 1380.1 |
| 67.5° | 2035.1 | 2022.4 | 1987.9 | 1974.9 | 1944.0 | 1896.5 | 1826.6 | 1741.4 | 1634.4 | 1493.6 | 1331.0 |
| 70°   | 1721.3 | 1702.4 | 1659.1 | 1636.1 | 1598.3 | 1568.4 | 1525.8 | 1465.0 | 1399.0 | 1300.8 | 1179.5 |
| 72.5° | 1388.6 | 1349.6 | 1309.9 | 1249.7 | 1197.0 | 1143.7 | 1096.6 | 1053.6 | 981.1  | 941.5  | 849.4  |
| 75°   | 901.8  | 830.9  | 762.9  | 671.9  | 589.9  | 517.4  | 446.8  | 411.1  | 336.6  | 306.3  | 263.1  |
| 77.5° | 428.0  | 388.3  | 335.0  | 293.6  | 241.0  | 196.7  | 160.7  | 120.6  | 94.6   | 74.2   | 56.6   |
| 80°   | 345.4  | 311.9  | 279.7  | 242.3  | 202.6  | 161.6  | 123.9  | 92.7   | 65.7   | 45.5   | 32.2   |
| 82.5° | 308.0  | 271.5  | 231.9  | 206.2  | 179.2  | 146.7  | 120.3  | 98.2   | 72.5   | 53.0   | 36.1   |
| 85°   | 119.7  | 100.8  | 77.7   | 63.4   | 49.4   | 40.6   | 36.7   | 25.4   | 19.8   | 15.6   | 12.0   |
| 87.5° | 10.4   | 8.4    | 6.8    | 4.5    | 4.9    | 2.6    | 2.9    | 1.9    | 1.6    | 1.6    | 1.3    |
| 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-E01-LED-E1-SL2-HSS-7050

**CANDELA DISTRIBUTION (continued):**

|       | 83°    | 84°    | 85°   | 86°   | 87°   | 88°   | 89°   | 90°   | 95°  | 105° | 115° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|------|------|------|
| 0°    | 68.6   | 68.6   | 68.6  | 68.6  | 68.6  | 68.6  | 68.6  | 68.6  | 68.6 | 68.6 | 68.6 |
| 2.5°  | 71.9   | 71.6   | 71.2  | 70.6  | 70.6  | 69.9  | 69.6  | 69.3  | 67.7 | 64.1 | 61.1 |
| 5°    | 75.5   | 74.8   | 74.2  | 73.2  | 72.5  | 71.6  | 70.9  | 69.9  | 66.4 | 59.5 | 53.7 |
| 7.5°  | 80.7   | 79.4   | 78.4  | 76.4  | 75.5  | 74.2  | 73.2  | 71.6  | 65.7 | 55.3 | 47.2 |
| 10°   | 86.8   | 84.6   | 82.9  | 80.7  | 78.7  | 77.1  | 75.5  | 73.2  | 65.1 | 50.7 | 41.3 |
| 12.5° | 94.3   | 91.7   | 88.5  | 85.9  | 83.3  | 81.0  | 78.7  | 75.8  | 64.1 | 46.8 | 36.7 |
| 15°   | 101.8  | 97.9   | 95.6  | 92.0  | 88.5  | 85.2  | 82.0  | 79.4  | 64.4 | 42.6 | 32.8 |
| 17.5° | 110.2  | 106.3  | 101.4 | 97.5  | 93.6  | 89.4  | 85.5  | 80.3  | 62.8 | 39.3 | 29.9 |
| 20°   | 118.4  | 112.8  | 108.3 | 103.4 | 97.9  | 92.7  | 87.8  | 83.3  | 61.5 | 36.1 | 27.3 |
| 22.5° | 127.1  | 120.6  | 114.8 | 108.6 | 101.8 | 95.9  | 90.1  | 84.2  | 59.2 | 33.2 | 25.0 |
| 25°   | 137.9  | 130.4  | 121.9 | 114.5 | 107.3 | 100.1 | 92.7  | 85.5  | 56.9 | 30.6 | 23.4 |
| 27.5° | 150.9  | 141.1  | 132.7 | 123.2 | 113.2 | 104.0 | 95.9  | 88.1  | 54.6 | 28.6 | 21.8 |
| 30°   | 167.5  | 156.1  | 144.1 | 132.0 | 121.3 | 110.9 | 99.5  | 89.8  | 52.4 | 26.7 | 20.1 |
| 32.5° | 189.6  | 175.3  | 160.7 | 146.7 | 132.4 | 119.0 | 107.0 | 94.3  | 51.1 | 25.0 | 18.5 |
| 35°   | 218.9  | 200.3  | 182.4 | 164.9 | 147.6 | 131.4 | 115.8 | 101.4 | 51.1 | 23.1 | 16.6 |
| 37.5° | 246.5  | 225.0  | 202.3 | 180.5 | 160.0 | 141.1 | 122.6 | 105.3 | 48.5 | 21.5 | 14.9 |
| 40°   | 276.4  | 250.7  | 224.1 | 198.4 | 173.7 | 150.3 | 129.1 | 109.3 | 46.2 | 19.5 | 13.3 |
| 42.5° | 322.3  | 289.7  | 255.0 | 225.0 | 195.4 | 166.5 | 140.2 | 116.7 | 43.3 | 17.5 | 11.7 |
| 45°   | 382.4  | 341.1  | 300.2 | 263.7 | 226.0 | 190.5 | 159.4 | 130.4 | 42.6 | 15.9 | 10.1 |
| 47.5° | 446.8  | 398.0  | 349.9 | 303.4 | 259.2 | 217.9 | 180.5 | 145.7 | 42.6 | 14.3 | 8.8  |
| 50°   | 510.9  | 449.7  | 398.4 | 344.4 | 294.6 | 245.9 | 201.3 | 161.6 | 42.9 | 13.0 | 7.1  |
| 52.5° | 568.8  | 503.4  | 445.8 | 383.4 | 328.5 | 271.8 | 223.4 | 177.2 | 42.3 | 11.4 | 5.8  |
| 55°   | 649.1  | 572.3  | 505.7 | 436.7 | 372.3 | 308.6 | 253.7 | 200.6 | 42.6 | 10.1 | 4.9  |
| 57.5° | 797.0  | 707.0  | 626.6 | 536.2 | 462.1 | 379.8 | 313.2 | 248.8 | 46.5 | 8.4  | 3.6  |
| 60°   | 1009.4 | 892.3  | 779.5 | 669.3 | 574.9 | 477.1 | 390.6 | 314.8 | 54.6 | 6.8  | 2.6  |
| 62.5° | 1152.1 | 999.0  | 864.4 | 742.7 | 633.1 | 530.7 | 436.4 | 350.2 | 60.2 | 5.5  | 1.6  |
| 63°   | 1166.8 | 1008.4 | 873.1 | 747.6 | 635.7 | 533.3 | 438.4 | 352.8 | 60.5 | 5.2  | 1.6  |
| 65°   | 1194.4 | 1024.7 | 878.0 | 748.6 | 633.1 | 529.7 | 437.1 | 352.5 | 61.1 | 4.2  | 1.3  |
| 67.5° | 1162.9 | 999.6  | 849.7 | 720.6 | 610.4 | 508.6 | 420.8 | 339.5 | 60.8 | 2.9  | 1.0  |
| 70°   | 1040.0 | 904.7  | 773.0 | 652.7 | 552.5 | 460.5 | 383.1 | 309.6 | 55.9 | 1.9  | 0.6  |
| 72.5° | 763.6  | 671.5  | 569.4 | 482.6 | 416.3 | 345.7 | 294.9 | 232.5 | 43.3 | 1.3  | 0.3  |
| 75°   | 226.3  | 206.2  | 173.3 | 152.9 | 135.0 | 111.5 | 99.2  | 77.4  | 22.1 | 0.6  | 0.0  |
| 77.5° | 45.2   | 41.0   | 36.7  | 33.5  | 31.5  | 27.0  | 25.7  | 21.1  | 9.1  | 0.3  | 0.0  |
| 80°   | 23.7   | 19.5   | 16.6  | 14.6  | 12.7  | 10.4  | 8.8   | 7.1   | 1.6  | 0.0  | 0.0  |
| 82.5° | 22.8   | 15.3   | 11.0  | 9.1   | 7.8   | 6.2   | 4.9   | 3.6   | 1.0  | 0.0  | 0.0  |
| 85°   | 8.4    | 6.5    | 4.9   | 3.9   | 3.2   | 2.9   | 2.3   | 1.9   | 0.0  | 0.0  | 0.0  |
| 87.5° | 1.3    | 1.0    | 1.0   | 0.6   | 0.6   | 0.3   | 0.3   | 0.3   | 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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CATALOG NUMBER: ECM-E01-LED-E1-SL2-HSS-7050

**CANDELA DISTRIBUTION (continued):**

|       | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|------|------|------|------|------|------|------|
| 0°    | 68.6 | 68.6 | 68.6 | 68.6 | 68.6 | 68.6 | 68.6 |
| 2.5°  | 58.2 | 55.6 | 54.3 | 52.7 | 52.7 | 52.4 | 53.0 |
| 5°    | 48.5 | 44.9 | 42.3 | 40.3 | 40.6 | 39.7 | 40.0 |
| 7.5°  | 41.0 | 37.4 | 35.1 | 33.8 | 33.5 | 33.2 | 33.2 |
| 10°   | 35.4 | 32.2 | 30.2 | 29.3 | 28.9 | 28.9 | 28.9 |
| 12.5° | 31.5 | 28.3 | 26.7 | 26.0 | 26.0 | 25.7 | 25.7 |
| 15°   | 28.3 | 25.7 | 24.1 | 23.4 | 23.4 | 23.1 | 23.4 |
| 17.5° | 25.7 | 23.1 | 21.8 | 21.1 | 21.1 | 20.8 | 20.8 |
| 20°   | 23.4 | 21.1 | 19.8 | 18.8 | 18.8 | 18.5 | 18.8 |
| 22.5° | 21.5 | 19.2 | 17.5 | 16.9 | 16.6 | 16.2 | 16.6 |
| 25°   | 19.5 | 17.2 | 15.6 | 14.6 | 14.3 | 14.3 | 14.0 |
| 27.5° | 17.9 | 15.6 | 13.6 | 12.7 | 12.3 | 12.3 | 12.0 |
| 30°   | 16.2 | 13.6 | 11.7 | 10.7 | 10.4 | 10.4 | 10.4 |
| 32.5° | 14.6 | 11.7 | 10.1 | 9.1  | 8.8  | 8.8  | 8.8  |
| 35°   | 13.0 | 10.1 | 8.4  | 7.5  | 7.1  | 7.1  | 7.1  |
| 37.5° | 11.0 | 8.4  | 6.5  | 5.8  | 5.5  | 5.2  | 5.2  |
| 40°   | 9.4  | 6.5  | 4.9  | 4.2  | 3.6  | 3.6  | 3.6  |
| 42.5° | 7.8  | 5.2  | 3.6  | 2.6  | 2.3  | 1.9  | 2.3  |
| 45°   | 6.5  | 3.9  | 2.3  | 1.3  | 1.0  | 1.0  | 1.0  |
| 47.5° | 5.2  | 2.6  | 1.0  | 0.3  | 0.3  | 0.3  | 0.3  |
| 50°   | 3.9  | 1.6  | 0.3  | 0.0  | 0.0  | 0.3  | 0.3  |
| 52.5° | 2.9  | 1.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 55°   | 1.6  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 57.5° | 1.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 60°   | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 62.5° | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 63°   | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 65°   | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 80°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 82.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 85°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 87.5° | 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  |

(END OF REPORT)