

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: McGRAW-EDISON

Report Number: P227985

Luminaire Tested: **ISC-AF-800-LED-E1-T4W-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227985  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29757)-DOWNLIGHT AND  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISC-AF-800-LED-E1-T4W-ULG  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE, WITH UPLIGHT GLOW  
Light Source: (16) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

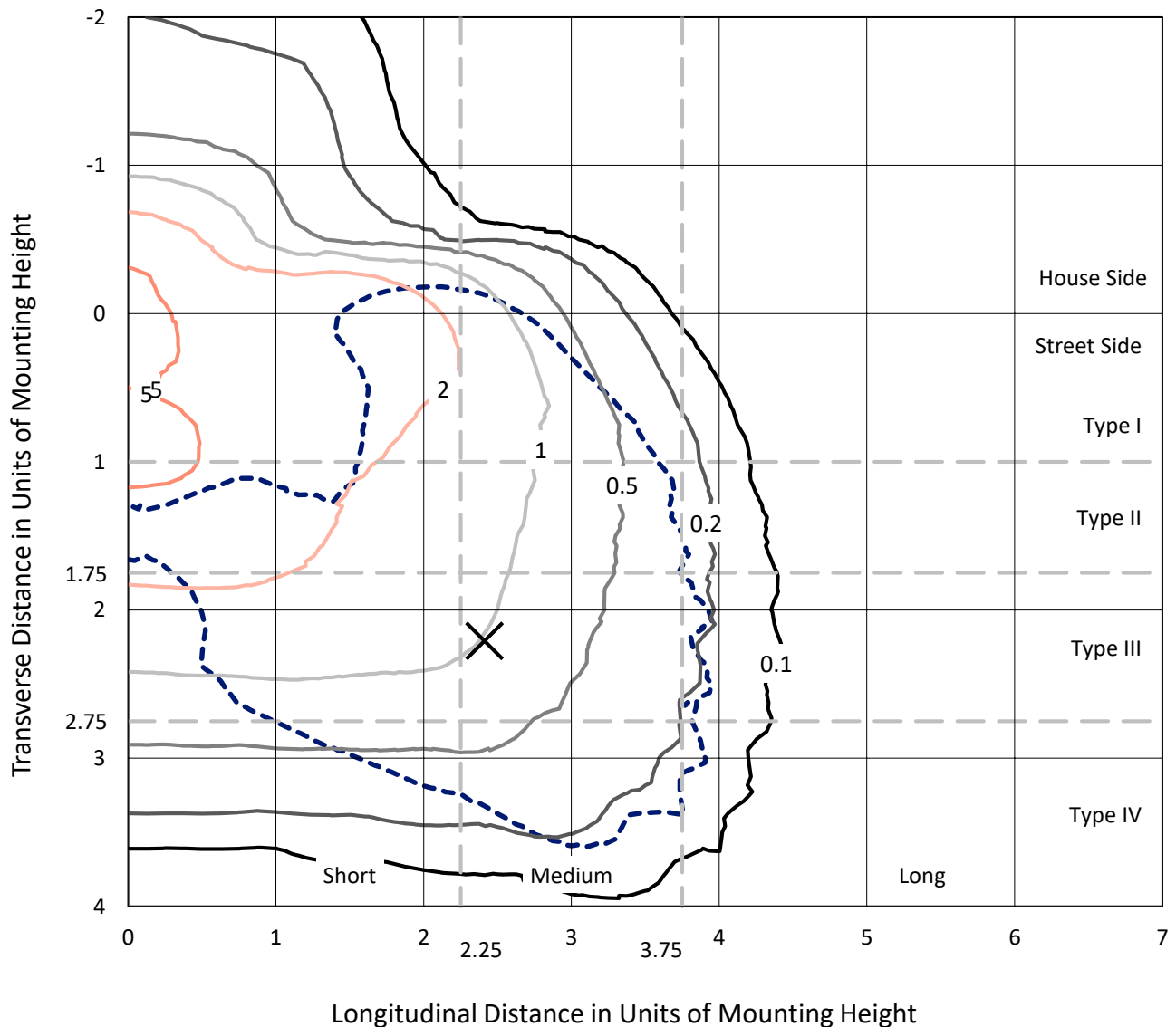
Lumens per Lamp: N/A  
Luminaire Lumens: 6463.2 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B1 - U5 - G2  
  
Input Watts (W): 60.2  
Input Voltage (V): 120  
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

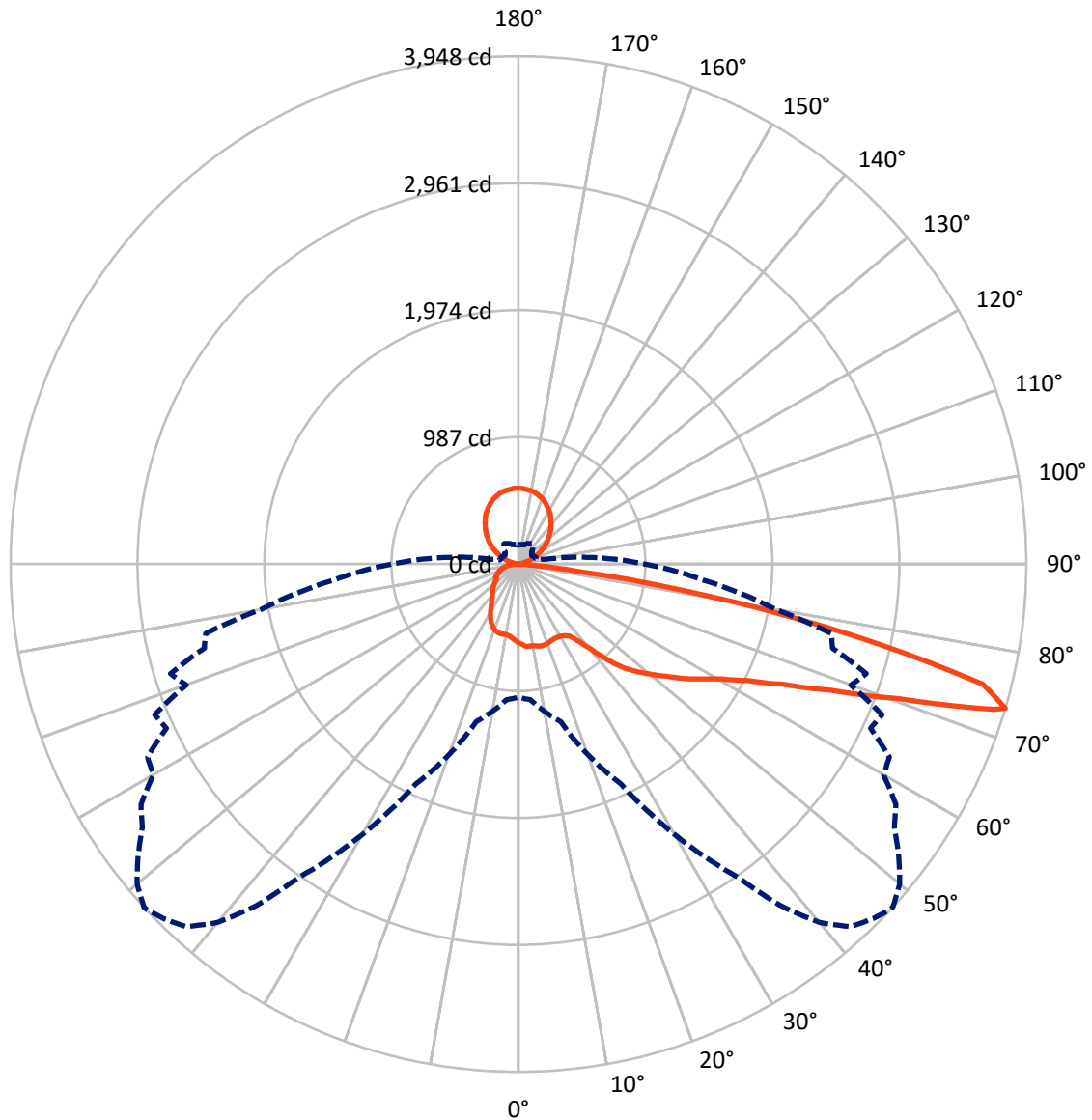
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.1 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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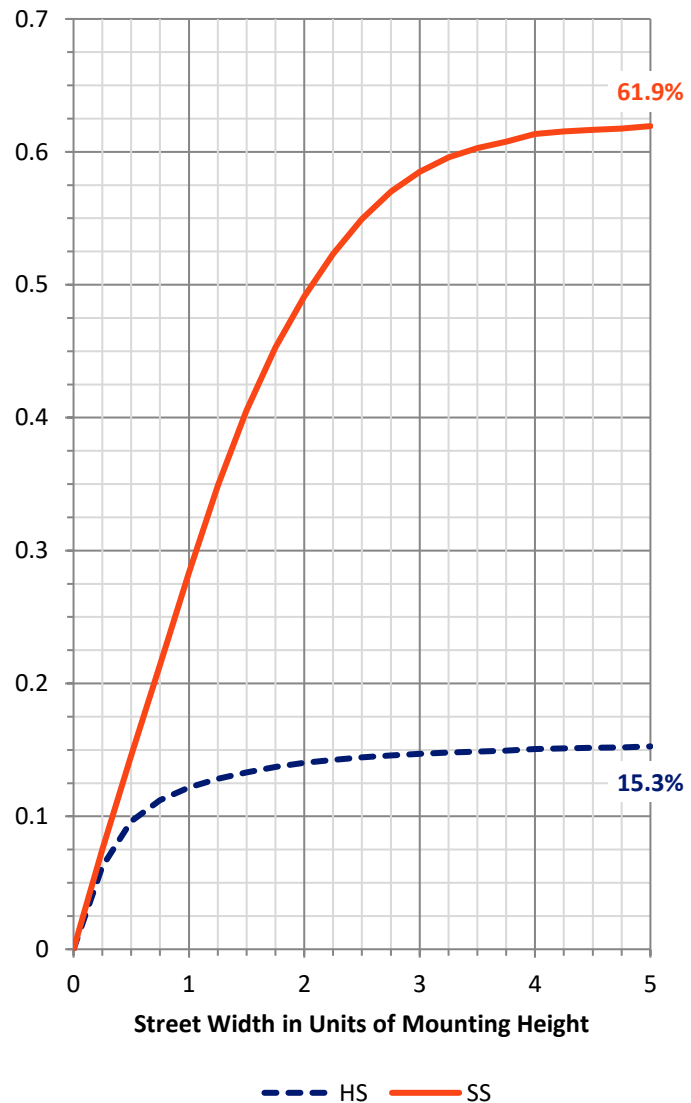
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 999.8    | 729.4  | 1729.3 |
|                    | % Fixture | 15.5     | 11.3   | 26.8   |
| <b>Street Side</b> | Lumens    | 4004.5   | 729.4  | 4733.9 |
|                    | % Fixture | 62.0     | 11.3   | 73.2   |
| <b>Total</b>       | Lumens    | 5004.3   | 1458.9 | 6463.2 |
|                    | % Fixture | 77.4     | 22.6   | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 58.5   | 0.9       |
| 10°-20°   | 174.1  | 2.7       |
| 20°-30°   | 267.7  | 4.1       |
| 30°-40°   | 390.5  | 6.0       |
| 40°-50°   | 643.8  | 10.0      |
| 50°-60°   | 1008.0 | 15.6      |
| 60°-70°   | 1367.4 | 21.2      |
| 70°-80°   | 1012.5 | 15.7      |
| 80°-90°   | 81.8   | 1.3       |
| 90°-100°  | 4.8    | 0.1       |
| 100°-110° | 70.6   | 1.1       |
| 110°-120° | 156.6  | 2.4       |
| 120°-130° | 229.0  | 3.5       |
| 130°-140° | 271.7  | 4.2       |
| 140°-150° | 275.5  | 4.3       |
| 150°-160° | 236.4  | 3.7       |
| 160°-170° | 158.7  | 2.5       |
| 170°-180° | 55.6   | 0.9       |
| 0°-90°    | 5004.3 | 77.4      |
| 0°-180°   | 6463.2 | 100.0     |



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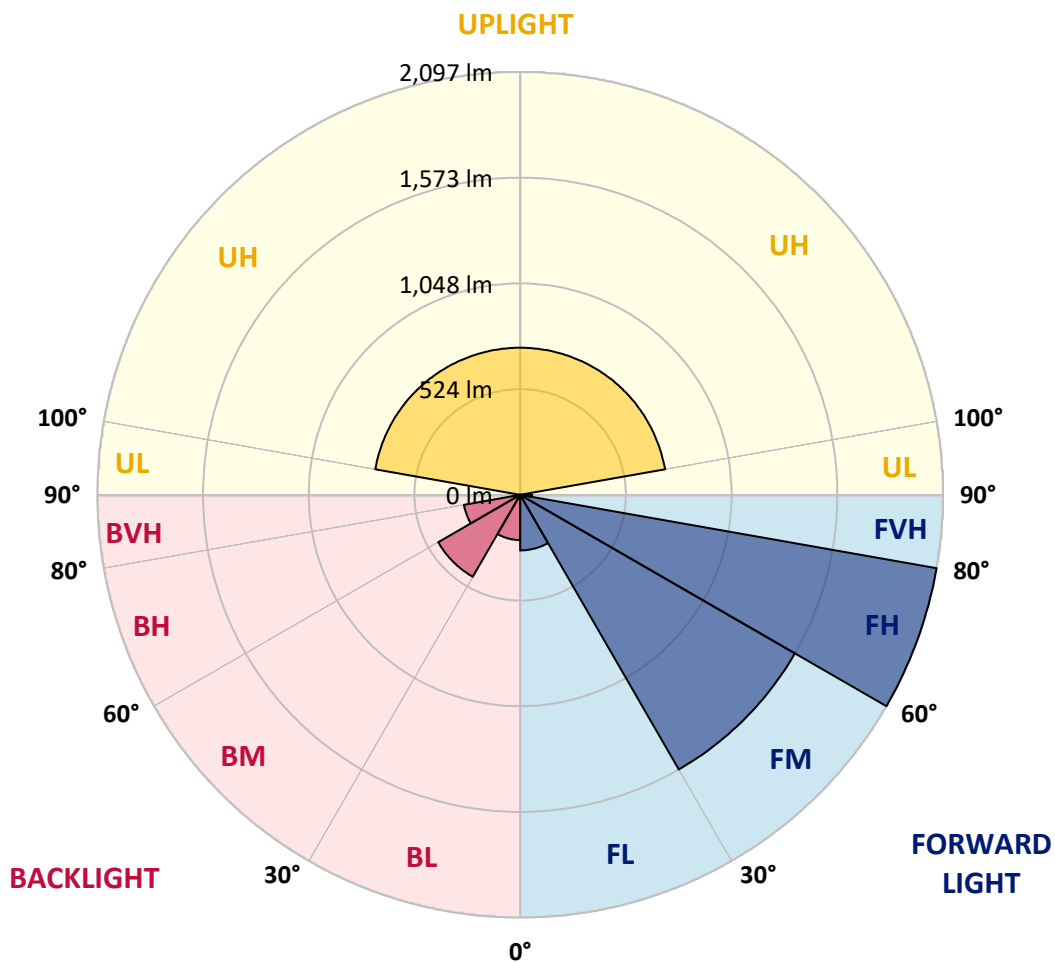
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |         |         |
|----------------|--------|-----------|-------------------------|---------|---------|
|                |        |           | B                       | U       | G       |
| FL (0°-30°)    | 275.8  | 4.3       |                         |         |         |
| FM (30°-60°)   | 1572.8 | 24.3      |                         |         |         |
| FH (60°-80°)   | 2096.8 | 32.4      |                         |         | G2/5000 |
| FVH (80°-90°)  | 59.0   | 0.9       |                         |         | G1/100  |
| BL (0°-30°)    | 224.4  | 3.5       | B1/500                  |         |         |
| BM (30°-60°)   | 469.5  | 7.3       | B1/1000                 |         |         |
| BH (60°-80°)   | 283.1  | 4.4       | B1/500                  |         | G1/500  |
| BVH (80°-90°)  | 22.8   | 0.4       |                         |         | G1/100  |
| UL (90°-100°)  | 4.8    | 0.1       |                         | U1/10   |         |
| UH (100°-180°) | 729.4  | 11.3      |                         | U4/1000 |         |

**BUG Rating: B1-U5-G2**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 37.5°  | 40°    | 42.5°  | 45°    | 47°    | 47.5°  |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 614.5  | 614.5  | 614.5  | 614.5  | 614.5  | 614.5  | 614.5  | 614.5  | 614.5  | 614.5  | 614.5  |
| 2.5°   | 650.9  | 649.3  | 644.3  | 642.6  | 637.6  | 634.3  | 632.7  | 631.1  | 636.0  | 632.7  | 627.8  |
| 5°     | 692.1  | 688.9  | 682.2  | 672.4  | 662.5  | 655.8  | 654.2  | 650.9  | 650.9  | 647.5  | 644.3  |
| 7.5°   | 721.9  | 720.3  | 710.3  | 695.5  | 678.9  | 667.4  | 660.8  | 655.8  | 657.5  | 654.2  | 644.3  |
| 10°    | 750.0  | 746.7  | 730.2  | 712.0  | 687.2  | 674.0  | 665.7  | 657.5  | 664.1  | 659.1  | 645.9  |
| 12.5°  | 771.5  | 768.1  | 745.0  | 721.9  | 693.9  | 678.9  | 670.6  | 665.7  | 672.4  | 669.0  | 654.2  |
| 15°    | 783.1  | 779.7  | 756.6  | 728.5  | 698.8  | 682.2  | 678.9  | 675.7  | 680.6  | 674.0  | 660.8  |
| 17.5°  | 776.4  | 776.4  | 754.9  | 725.2  | 700.4  | 683.9  | 678.9  | 675.7  | 682.2  | 675.7  | 660.8  |
| 20°    | 751.7  | 754.9  | 740.1  | 708.7  | 690.5  | 678.9  | 674.0  | 667.4  | 674.0  | 667.4  | 657.5  |
| 22.5°  | 720.3  | 723.5  | 715.2  | 687.2  | 674.0  | 665.7  | 664.1  | 657.5  | 662.5  | 657.5  | 647.5  |
| 25°    | 692.1  | 692.1  | 688.9  | 664.1  | 662.5  | 655.8  | 657.5  | 654.2  | 657.5  | 650.9  | 644.3  |
| 27.5°  | 693.9  | 693.9  | 680.6  | 655.8  | 654.2  | 654.2  | 654.2  | 654.2  | 655.8  | 650.9  | 644.3  |
| 30°    | 791.3  | 794.6  | 756.6  | 687.2  | 662.5  | 659.1  | 660.8  | 659.1  | 660.8  | 659.1  | 650.9  |
| 32.5°  | 938.4  | 938.4  | 901.9  | 794.6  | 707.1  | 685.6  | 677.3  | 675.7  | 670.6  | 669.0  | 662.5  |
| 35°    | 1083.7 | 1082.1 | 1045.7 | 926.8  | 816.1  | 774.8  | 748.3  | 723.5  | 712.0  | 700.4  | 688.9  |
| 37.5°  | 1206.0 | 1200.9 | 1196.0 | 1060.6 | 944.9  | 897.0  | 865.6  | 829.3  | 806.2  | 786.3  | 759.8  |
| 40°    | 1319.9 | 1328.2 | 1346.3 | 1184.5 | 1073.8 | 1029.2 | 997.8  | 951.5  | 928.4  | 903.6  | 872.3  |
| 42.5°  | 1476.8 | 1488.4 | 1490.0 | 1318.3 | 1191.0 | 1161.4 | 1136.5 | 1101.8 | 1077.1 | 1047.3 | 1019.3 |
| 45°    | 1628.8 | 1630.5 | 1635.4 | 1462.0 | 1334.7 | 1296.8 | 1278.6 | 1245.5 | 1214.1 | 1176.2 | 1153.1 |
| 47.5°  | 1732.9 | 1728.0 | 1749.5 | 1627.2 | 1503.2 | 1460.4 | 1433.9 | 1384.4 | 1336.4 | 1288.5 | 1253.8 |
| 50°    | 1860.1 | 1855.1 | 1855.1 | 1815.5 | 1698.2 | 1648.7 | 1602.4 | 1509.9 | 1458.6 | 1399.2 | 1349.7 |
| 52.5°  | 1972.5 | 1954.2 | 1965.8 | 1988.9 | 1903.1 | 1840.3 | 1759.4 | 1655.2 | 1587.5 | 1514.9 | 1452.1 |
| 55°    | 2126.1 | 2031.9 | 2058.4 | 2139.3 | 2106.3 | 2008.8 | 1901.4 | 1790.7 | 1713.0 | 1630.5 | 1572.7 |
| 57.5°  | 2073.2 | 2008.8 | 2086.4 | 2228.5 | 2226.9 | 2136.0 | 2045.1 | 1909.6 | 1832.0 | 1754.4 | 1683.4 |
| 60°    | 1883.3 | 1916.3 | 2084.8 | 2289.6 | 2297.9 | 2226.9 | 2152.5 | 2027.0 | 1965.8 | 1884.9 | 1813.8 |
| 62.5°  | 1736.2 | 1784.1 | 2015.4 | 2284.7 | 2378.8 | 2312.7 | 2251.6 | 2177.2 | 2134.3 | 2066.6 | 1993.9 |
| 65°    | 1728.0 | 1756.0 | 1980.7 | 2279.6 | 2492.8 | 2458.2 | 2430.0 | 2395.3 | 2387.1 | 2337.5 | 2253.3 |
| 67.5°  | 1807.2 | 1833.6 | 2040.2 | 2406.9 | 2661.3 | 2646.5 | 2687.7 | 2681.2 | 2717.5 | 2692.7 | 2623.3 |
| 70°    | 1652.0 | 1666.8 | 1921.2 | 2451.5 | 3046.2 | 3112.2 | 3204.8 | 3199.8 | 3277.4 | 3218.0 | 3137.1 |
| 72.5°  | 1159.7 | 1189.4 | 1414.0 | 2025.3 | 3054.4 | 3408.0 | 3622.8 | 3804.5 | 3888.6 | 3903.6 | 3865.5 |
| 73°    | 1035.7 | 1058.9 | 1267.0 | 1886.5 | 2971.9 | 3348.5 | 3637.6 | 3824.3 | 3898.6 | 3944.9 | 3948.2 |
| 75°    | 360.1  | 371.6  | 553.4  | 1143.1 | 2375.5 | 2922.3 | 3294.0 | 3462.5 | 3444.3 | 3579.8 | 3728.5 |
| 77.5°  | 115.6  | 117.3  | 143.7  | 295.7  | 1146.4 | 1813.8 | 2228.5 | 2383.8 | 2294.6 | 2441.6 | 2639.8 |
| 80°    | 71.0   | 74.4   | 94.1   | 133.8  | 300.6  | 550.1  | 931.7  | 1166.3 | 1118.4 | 1255.5 | 1466.9 |
| 82.5°  | 43.0   | 44.6   | 57.8   | 82.6   | 120.6  | 133.8  | 175.1  | 237.8  | 292.4  | 351.9  | 460.9  |
| 85°    | 19.8   | 21.5   | 28.1   | 38.0   | 49.5   | 51.2   | 49.5   | 46.2   | 52.9   | 61.2   | 71.0   |
| 87.5°  | 0.0    | 0.0    | 1.6    | 3.3    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 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    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 97.5°  | 2.0    | 2.0    | 2.0    | 3.1    | 4.1    | 5.3    | 6.6    | 8.0    | 9.2    | 10.0   | 10.2   |
| 100°   | 8.2    | 8.2    | 10.2   | 14.3   | 22.5   | 24.6   | 26.6   | 28.6   | 30.7   | 31.1   | 31.2   |
| 102.5° | 28.6   | 28.6   | 32.7   | 38.9   | 46.0   | 47.3   | 48.6   | 49.9   | 51.1   | 51.4   | 51.4   |
| 105°   | 55.2   | 55.2   | 57.3   | 62.4   | 67.5   | 68.5   | 69.6   | 70.6   | 71.6   | 71.8   | 71.8   |
| 107.5° | 79.8   | 78.8   | 81.8   | 85.9   | 90.0   | 90.8   | 91.6   | 92.3   | 93.1   | 93.5   | 93.6   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 15°   | 25°   | 35°   | 37.5° | 40°   | 42.5° | 45°   | 47°   | 47.5° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 103.3 | 104.3 | 105.4 | 108.4 | 112.5 | 113.0 | 113.5 | 114.1 | 114.6 | 115.0 | 115.1 |
| 112.5° | 126.8 | 126.8 | 128.9 | 132.0 | 135.0 | 135.5 | 136.1 | 136.6 | 137.1 | 137.5 | 137.6 |
| 115°   | 149.4 | 150.4 | 152.4 | 154.5 | 157.5 | 158.0 | 158.6 | 159.1 | 159.6 | 160.0 | 160.1 |
| 117.5° | 172.9 | 173.9 | 175.9 | 178.0 | 181.1 | 181.6 | 182.1 | 182.6 | 183.1 | 183.3 | 183.3 |
| 120°   | 197.4 | 199.5 | 200.5 | 202.5 | 205.6 | 205.8 | 206.1 | 206.4 | 206.6 | 207.0 | 207.1 |
| 122.5° | 224.0 | 225.0 | 226.1 | 228.1 | 231.2 | 231.4 | 231.7 | 232.0 | 232.2 | 232.4 | 232.4 |
| 125°   | 249.6 | 251.6 | 252.7 | 253.7 | 256.8 | 257.0 | 257.3 | 257.6 | 257.8 | 258.0 | 258.0 |
| 127.5° | 273.1 | 275.2 | 276.2 | 278.2 | 280.3 | 280.8 | 281.3 | 281.8 | 282.3 | 282.7 | 282.8 |
| 130°   | 296.7 | 298.7 | 299.7 | 300.7 | 304.8 | 305.0 | 305.4 | 305.7 | 305.9 | 306.3 | 306.4 |
| 132.5° | 320.2 | 321.2 | 324.3 | 325.3 | 328.4 | 328.6 | 328.9 | 329.2 | 329.4 | 330.0 | 330.2 |
| 135°   | 343.7 | 344.7 | 346.8 | 348.8 | 352.9 | 352.9 | 352.9 | 352.9 | 352.9 | 353.5 | 353.7 |
| 137.5° | 367.2 | 368.3 | 371.3 | 372.4 | 375.4 | 375.4 | 375.4 | 375.4 | 375.4 | 375.8 | 375.9 |
| 140°   | 390.8 | 391.8 | 393.8 | 394.9 | 396.9 | 397.1 | 397.4 | 397.7 | 397.9 | 398.1 | 398.1 |
| 142.5° | 413.3 | 415.3 | 417.4 | 416.3 | 419.4 | 419.4 | 419.4 | 419.4 | 419.4 | 419.8 | 419.9 |
| 145°   | 434.8 | 435.8 | 437.8 | 437.8 | 440.9 | 441.1 | 441.4 | 441.7 | 441.9 | 442.3 | 442.4 |
| 147.5° | 454.2 | 454.2 | 457.3 | 458.3 | 462.4 | 462.6 | 462.9 | 463.2 | 463.4 | 463.6 | 463.6 |
| 150°   | 471.6 | 472.6 | 474.6 | 475.7 | 479.8 | 480.0 | 480.3 | 480.6 | 480.8 | 481.0 | 481.0 |
| 152.5° | 490.0 | 491.0 | 494.1 | 493.1 | 496.1 | 496.3 | 496.6 | 496.9 | 497.2 | 497.4 | 497.4 |
| 155°   | 510.5 | 511.5 | 513.5 | 512.5 | 514.5 | 514.5 | 514.5 | 514.5 | 514.5 | 514.7 | 514.7 |
| 157.5° | 524.8 | 526.8 | 528.9 | 527.8 | 530.9 | 530.9 | 530.9 | 530.9 | 530.9 | 530.9 | 530.9 |
| 160°   | 537.0 | 539.1 | 541.1 | 541.1 | 544.2 | 544.2 | 544.2 | 544.2 | 544.2 | 544.2 | 544.2 |
| 162.5° | 547.3 | 548.3 | 551.4 | 550.3 | 553.4 | 553.4 | 553.4 | 553.4 | 553.4 | 553.6 | 553.6 |
| 165°   | 558.5 | 559.6 | 561.6 | 560.6 | 564.7 | 564.7 | 564.7 | 564.7 | 564.7 | 564.9 | 564.9 |
| 167.5° | 567.7 | 568.8 | 571.8 | 570.8 | 573.9 | 573.7 | 573.4 | 573.1 | 572.9 | 572.9 | 572.9 |
| 170°   | 574.9 | 575.9 | 579.0 | 578.0 | 580.0 | 579.8 | 579.5 | 579.2 | 579.0 | 578.8 | 578.8 |
| 172.5° | 578.0 | 579.0 | 582.1 | 580.0 | 582.1 | 581.9 | 581.5 | 581.2 | 581.0 | 581.2 | 581.2 |
| 175°   | 580.0 | 582.1 | 583.1 | 582.1 | 585.1 | 585.1 | 585.1 | 585.1 | 585.1 | 585.3 | 585.3 |
| 177.5° | 585.1 | 586.2 | 588.2 | 587.2 | 591.3 | 591.1 | 590.8 | 590.4 | 590.2 | 590.2 | 590.2 |
| 180°   | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 |





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**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 52.5°  | 55°    | 57.5°  | 60°    | 62.5°  | 65°    | 67.5°  | 70°    | 72.5°  | 75°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 614.5  | 614.5  | 614.5  | 614.5  | 614.5  | 614.5  | 614.5  | 614.5  | 614.5  | 614.5  | 614.5  |
| 2.5°   | 632.7  | 627.8  | 627.8  | 621.1  | 624.4  | 617.9  | 621.1  | 614.5  | 617.9  | 609.6  | 614.5  |
| 5°     | 642.6  | 634.3  | 634.3  | 624.4  | 626.0  | 614.5  | 619.5  | 606.3  | 612.8  | 598.0  | 607.9  |
| 7.5°   | 647.5  | 632.7  | 639.3  | 621.1  | 629.4  | 609.6  | 619.5  | 598.0  | 611.2  | 588.1  | 604.6  |
| 10°    | 654.2  | 632.7  | 644.3  | 624.4  | 634.3  | 611.2  | 624.4  | 598.0  | 614.5  | 586.5  | 601.3  |
| 12.5°  | 664.1  | 641.0  | 650.9  | 627.8  | 641.0  | 614.5  | 627.8  | 601.3  | 617.9  | 586.5  | 604.6  |
| 15°    | 670.6  | 647.5  | 657.5  | 634.3  | 644.3  | 614.5  | 631.1  | 599.7  | 617.9  | 584.8  | 604.6  |
| 17.5°  | 669.0  | 647.5  | 657.5  | 631.1  | 642.6  | 612.8  | 629.4  | 598.0  | 614.5  | 579.8  | 601.3  |
| 20°    | 662.5  | 644.3  | 650.9  | 627.8  | 637.6  | 607.9  | 622.8  | 591.4  | 609.6  | 574.9  | 596.4  |
| 22.5°  | 654.2  | 636.0  | 644.3  | 622.8  | 632.7  | 602.9  | 616.2  | 588.1  | 606.3  | 571.6  | 591.4  |
| 25°    | 649.3  | 634.3  | 639.3  | 617.9  | 631.1  | 604.6  | 617.9  | 586.5  | 606.3  | 571.6  | 594.7  |
| 27.5°  | 647.5  | 634.3  | 644.3  | 624.4  | 636.0  | 612.8  | 626.0  | 598.0  | 614.5  | 578.2  | 601.3  |
| 30°    | 657.5  | 645.9  | 654.2  | 637.6  | 647.5  | 624.4  | 637.6  | 611.2  | 627.8  | 593.0  | 619.5  |
| 32.5°  | 669.0  | 657.5  | 665.7  | 650.9  | 665.7  | 642.6  | 659.1  | 632.7  | 652.5  | 617.9  | 642.6  |
| 35°    | 693.9  | 680.6  | 692.1  | 675.7  | 692.1  | 674.0  | 692.1  | 664.1  | 688.9  | 654.2  | 680.6  |
| 37.5°  | 758.2  | 721.9  | 733.5  | 715.2  | 731.8  | 708.7  | 740.1  | 712.0  | 740.1  | 707.1  | 743.4  |
| 40°    | 860.7  | 796.3  | 807.8  | 769.8  | 794.6  | 759.8  | 797.9  | 776.4  | 814.4  | 773.1  | 819.4  |
| 42.5°  | 994.5  | 933.3  | 921.8  | 864.0  | 885.5  | 844.1  | 882.2  | 844.1  | 895.4  | 855.7  | 913.5  |
| 45°    | 1116.8 | 1052.3 | 1034.1 | 977.9  | 992.8  | 938.4  | 986.2  | 933.3  | 1001.1 | 954.8  | 1027.6 |
| 47.5°  | 1217.5 | 1141.5 | 1126.7 | 1062.2 | 1088.6 | 1037.4 | 1096.9 | 1040.8 | 1123.3 | 1077.1 | 1161.4 |
| 50°    | 1310.0 | 1215.9 | 1212.5 | 1143.1 | 1187.7 | 1136.5 | 1220.8 | 1182.8 | 1263.8 | 1217.5 | 1316.6 |
| 52.5°  | 1415.8 | 1296.8 | 1313.3 | 1250.6 | 1321.6 | 1278.6 | 1376.1 | 1321.6 | 1427.3 | 1377.7 | 1486.8 |
| 55°    | 1528.1 | 1402.5 | 1445.4 | 1407.5 | 1491.7 | 1463.6 | 1546.2 | 1496.7 | 1600.7 | 1551.2 | 1666.8 |
| 57.5°  | 1652.0 | 1544.6 | 1620.6 | 1602.4 | 1676.7 | 1642.0 | 1734.5 | 1689.9 | 1794.1 | 1752.7 | 1868.3 |
| 60°    | 1813.8 | 1742.8 | 1817.2 | 1815.5 | 1879.9 | 1878.2 | 1937.8 | 1911.3 | 2010.4 | 1992.3 | 2098.0 |
| 62.5°  | 2023.6 | 1967.4 | 2046.7 | 2025.3 | 2103.0 | 2089.7 | 2162.4 | 2162.4 | 2233.4 | 2258.3 | 2363.9 |
| 65°    | 2306.1 | 2231.8 | 2326.0 | 2292.9 | 2370.6 | 2373.9 | 2420.1 | 2428.4 | 2514.3 | 2542.3 | 2633.2 |
| 67.5°  | 2689.3 | 2603.5 | 2677.8 | 2615.1 | 2704.3 | 2699.3 | 2739.0 | 2755.4 | 2767.0 | 2834.7 | 2844.6 |
| 70°    | 3241.1 | 3112.2 | 3180.0 | 3094.1 | 3110.6 | 3122.1 | 3047.9 | 3102.4 | 2970.2 | 3077.5 | 2932.2 |
| 72.5°  | 3837.5 | 3690.5 | 3573.2 | 3487.2 | 3317.1 | 3292.4 | 3075.9 | 3122.1 | 2841.3 | 2933.8 | 2639.8 |
| 73°    | 3868.9 | 3726.8 | 3568.3 | 3479.1 | 3277.4 | 3251.0 | 3019.8 | 3059.4 | 2748.9 | 2836.4 | 2527.5 |
| 75°    | 3517.0 | 3555.0 | 3173.4 | 3209.7 | 2859.6 | 2900.8 | 2539.1 | 2585.3 | 2203.7 | 2269.8 | 1871.7 |
| 77.5°  | 2370.6 | 2497.7 | 2069.9 | 2230.1 | 1795.7 | 1955.9 | 1465.3 | 1480.1 | 1080.3 | 1009.3 | 685.6  |
| 80°    | 1174.6 | 1283.6 | 910.2  | 994.5  | 667.4  | 655.8  | 399.8  | 332.0  | 282.4  | 289.1  | 297.4  |
| 82.5°  | 338.7  | 381.6  | 236.2  | 234.6  | 166.8  | 158.6  | 158.6  | 168.5  | 171.8  | 191.6  | 186.7  |
| 85°    | 64.4   | 77.6   | 67.7   | 90.8   | 80.9   | 89.2   | 82.6   | 95.9   | 89.2   | 110.7  | 95.9   |
| 87.5°  | 1.6    | 0.0    | 1.6    | 4.9    | 4.9    | 11.6   | 8.3    | 13.2   | 13.2   | 23.1   | 21.5   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 97.5°  | 11.3   | 12.3   | 13.3   | 11.8   | 10.2   | 8.7    | 7.2    | 6.6    | 6.1    | 5.6    | 5.1    |
| 100°   | 31.7   | 32.2   | 32.7   | 32.2   | 31.7   | 31.2   | 30.7   | 29.9   | 29.2   | 28.4   | 27.6   |
| 102.5° | 51.7   | 52.0   | 52.2   | 52.0   | 51.7   | 51.4   | 51.1   | 50.6   | 50.1   | 49.6   | 49.1   |
| 105°   | 72.1   | 72.4   | 72.6   | 72.6   | 72.6   | 72.6   | 72.6   | 72.1   | 71.6   | 71.1   | 70.6   |
| 107.5° | 94.1   | 94.6   | 95.1   | 94.9   | 94.6   | 94.3   | 94.1   | 93.9   | 93.6   | 93.3   | 93.1   |



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CATALOG NUMBER: ISC-AF-800-LED-E1-T4W-ULG

**CANDELA DISTRIBUTION (continued):**

|        | 50°   | 52.5° | 55°   | 57.5° | 60°   | 62.5° | 65°   | 67.5° | 70°   | 72.5° | 75°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 115.6 | 116.1 | 116.6 | 116.6 | 116.6 | 116.6 | 116.6 | 116.4 | 116.1 | 115.8 | 115.6 |
| 112.5° | 138.1 | 138.6 | 139.1 | 139.1 | 139.1 | 139.1 | 139.1 | 138.9 | 138.6 | 138.3 | 138.1 |
| 115°   | 160.6 | 161.1 | 161.6 | 161.6 | 161.6 | 161.6 | 161.6 | 161.6 | 161.6 | 161.6 | 161.6 |
| 117.5° | 183.6 | 183.9 | 184.1 | 184.3 | 184.6 | 184.9 | 185.2 | 184.9 | 184.6 | 184.3 | 184.1 |
| 120°   | 207.7 | 208.2 | 208.7 | 208.7 | 208.7 | 208.7 | 208.7 | 208.7 | 208.7 | 208.7 | 208.7 |
| 122.5° | 232.7 | 233.0 | 233.2 | 233.2 | 233.2 | 233.2 | 233.2 | 233.4 | 233.7 | 234.1 | 234.3 |
| 125°   | 258.3 | 258.6 | 258.8 | 259.0 | 259.3 | 259.6 | 259.8 | 259.8 | 259.8 | 259.8 | 259.8 |
| 127.5° | 283.4 | 283.9 | 284.4 | 284.2 | 283.9 | 283.6 | 283.4 | 283.6 | 283.9 | 284.2 | 284.4 |
| 130°   | 306.9 | 307.4 | 307.9 | 307.9 | 307.9 | 307.9 | 307.9 | 308.1 | 308.4 | 308.7 | 308.9 |
| 132.5° | 330.9 | 331.6 | 332.5 | 332.5 | 332.5 | 332.5 | 332.5 | 332.7 | 333.0 | 333.3 | 333.5 |
| 135°   | 354.5 | 355.2 | 356.0 | 356.0 | 356.0 | 356.0 | 356.0 | 356.2 | 356.5 | 356.8 | 357.0 |
| 137.5° | 376.4 | 377.0 | 377.5 | 377.5 | 377.5 | 377.5 | 377.5 | 377.7 | 378.0 | 378.3 | 378.5 |
| 140°   | 398.4 | 398.7 | 399.0 | 399.0 | 399.0 | 399.0 | 399.0 | 399.5 | 400.0 | 400.5 | 401.0 |
| 142.5° | 420.4 | 420.9 | 421.5 | 421.5 | 421.5 | 421.5 | 421.5 | 421.7 | 422.0 | 422.3 | 422.5 |
| 145°   | 442.9 | 443.4 | 444.0 | 443.8 | 443.4 | 443.1 | 442.9 | 443.1 | 443.4 | 443.8 | 444.0 |
| 147.5° | 463.9 | 464.2 | 464.4 | 463.9 | 463.4 | 462.9 | 462.4 | 462.6 | 462.9 | 463.2 | 463.4 |
| 150°   | 481.3 | 481.6 | 481.8 | 481.3 | 480.8 | 480.3 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 |
| 152.5° | 497.7 | 498.0 | 498.2 | 498.0 | 497.7 | 497.4 | 497.2 | 497.2 | 497.2 | 497.2 | 497.2 |
| 155°   | 515.1 | 515.4 | 515.6 | 515.4 | 515.1 | 514.7 | 514.5 | 514.7 | 515.1 | 515.4 | 515.6 |
| 157.5° | 530.9 | 530.9 | 530.9 | 530.4 | 529.9 | 529.4 | 528.9 | 529.1 | 529.4 | 529.7 | 529.9 |
| 160°   | 544.2 | 544.2 | 544.2 | 543.7 | 543.2 | 542.7 | 542.2 | 542.2 | 542.2 | 542.2 | 542.2 |
| 162.5° | 553.9 | 554.2 | 554.4 | 553.9 | 553.4 | 552.9 | 552.4 | 551.9 | 551.4 | 550.9 | 550.3 |
| 165°   | 565.2 | 565.5 | 565.7 | 564.9 | 564.2 | 563.4 | 562.6 | 562.1 | 561.6 | 561.1 | 560.6 |
| 167.5° | 572.9 | 572.9 | 572.9 | 572.3 | 571.8 | 571.3 | 570.8 | 571.0 | 571.3 | 571.6 | 571.8 |
| 170°   | 578.5 | 578.2 | 578.0 | 577.8 | 577.5 | 577.1 | 576.9 | 577.5 | 578.0 | 578.5 | 579.0 |
| 172.5° | 581.5 | 581.9 | 582.1 | 581.5 | 581.0 | 580.5 | 580.0 | 580.2 | 580.5 | 580.8 | 581.0 |
| 175°   | 585.6 | 585.9 | 586.2 | 585.3 | 584.6 | 583.9 | 583.1 | 582.6 | 582.1 | 581.5 | 581.0 |
| 177.5° | 590.2 | 590.2 | 590.2 | 589.4 | 588.7 | 588.0 | 587.2 | 587.2 | 587.2 | 587.2 | 587.2 |
| 180°   | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 |



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**CANDELA DISTRIBUTION (continued):**

|        | 77.5°  | 80°    | 85°    | 90°    | 95°    | 100°   | 102.5° | 105°  | 107.5° | 110°  | 112.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|
| 0°     | 614.5  | 614.5  | 614.5  | 614.5  | 614.5  | 614.5  | 614.5  | 614.5 | 614.5  | 614.5 | 614.5  |
| 2.5°   | 607.9  | 616.2  | 612.8  | 609.6  | 606.3  | 604.6  | 598.0  | 601.3 | 593.0  | 599.7 | 593.0  |
| 5°     | 594.7  | 604.6  | 599.7  | 593.0  | 589.7  | 586.5  | 574.9  | 583.2 | 569.9  | 581.4 | 571.6  |
| 7.5°   | 579.8  | 596.4  | 591.4  | 584.8  | 578.2  | 574.9  | 551.8  | 569.9 | 550.1  | 566.6 | 550.1  |
| 10°    | 574.9  | 593.0  | 586.5  | 578.2  | 571.6  | 568.2  | 540.2  | 561.7 | 540.2  | 558.3 | 536.8  |
| 12.5°  | 571.6  | 593.0  | 583.2  | 574.9  | 568.2  | 563.3  | 531.9  | 558.3 | 530.3  | 556.7 | 531.9  |
| 15°    | 568.2  | 593.0  | 579.8  | 569.9  | 563.3  | 558.3  | 525.3  | 555.1 | 523.6  | 553.4 | 525.3  |
| 17.5°  | 565.0  | 588.1  | 576.5  | 565.0  | 558.3  | 555.1  | 518.7  | 550.1 | 517.1  | 550.1 | 522.0  |
| 20°    | 560.0  | 583.2  | 569.9  | 558.3  | 551.8  | 546.8  | 510.5  | 543.5 | 508.8  | 541.9 | 510.5  |
| 22.5°  | 553.4  | 578.2  | 566.6  | 555.1  | 548.4  | 540.2  | 500.5  | 535.2 | 498.9  | 531.9 | 502.2  |
| 25°    | 555.1  | 581.4  | 566.6  | 555.1  | 545.1  | 536.8  | 494.0  | 531.9 | 490.6  | 523.6 | 490.6  |
| 27.5°  | 563.3  | 586.5  | 571.6  | 561.7  | 548.4  | 538.6  | 494.0  | 528.7 | 487.3  | 515.4 | 480.7  |
| 30°    | 579.8  | 602.9  | 589.7  | 574.9  | 563.3  | 550.1  | 502.2  | 530.3 | 487.3  | 505.5 | 470.8  |
| 32.5°  | 607.9  | 629.4  | 616.2  | 604.6  | 591.4  | 571.6  | 518.7  | 538.6 | 490.6  | 498.9 | 462.6  |
| 35°    | 644.3  | 670.6  | 664.1  | 655.8  | 639.3  | 604.6  | 546.8  | 550.1 | 497.3  | 492.2 | 451.0  |
| 37.5°  | 703.7  | 740.1  | 738.5  | 736.7  | 718.6  | 655.8  | 578.2  | 573.3 | 503.8  | 487.3 | 436.1  |
| 40°    | 781.3  | 824.3  | 835.9  | 847.4  | 809.5  | 717.0  | 614.5  | 596.4 | 507.2  | 477.4 | 413.0  |
| 42.5°  | 872.3  | 930.1  | 964.7  | 986.2  | 916.9  | 784.7  | 655.8  | 622.8 | 507.2  | 462.6 | 386.6  |
| 45°    | 984.6  | 1052.3 | 1118.4 | 1141.5 | 1035.7 | 857.3  | 698.8  | 644.3 | 500.5  | 439.5 | 351.9  |
| 47.5°  | 1121.7 | 1200.9 | 1291.8 | 1303.3 | 1164.6 | 935.0  | 728.5  | 659.1 | 479.0  | 408.1 | 320.5  |
| 50°    | 1273.7 | 1369.4 | 1503.2 | 1495.0 | 1301.7 | 1016.0 | 748.3  | 669.0 | 441.1  | 371.6 | 282.4  |
| 52.5°  | 1443.8 | 1564.4 | 1754.4 | 1716.4 | 1468.5 | 1116.8 | 766.5  | 682.2 | 394.9  | 328.8 | 244.5  |
| 55°    | 1656.9 | 1800.6 | 2038.5 | 1957.5 | 1653.6 | 1227.4 | 792.9  | 683.9 | 333.7  | 277.5 | 216.5  |
| 57.5°  | 1886.5 | 2040.2 | 2344.1 | 2197.1 | 1827.1 | 1313.3 | 781.3  | 631.1 | 272.6  | 234.6 | 195.0  |
| 60°    | 2162.4 | 2349.1 | 2649.7 | 2420.1 | 1972.5 | 1343.0 | 700.4  | 520.4 | 232.9  | 211.4 | 185.1  |
| 62.5°  | 2471.3 | 2656.3 | 2900.8 | 2575.4 | 2055.0 | 1293.5 | 520.4  | 360.1 | 199.9  | 188.3 | 170.1  |
| 65°    | 2800.0 | 2975.2 | 3021.4 | 2588.6 | 2000.5 | 1075.4 | 322.1  | 236.2 | 173.5  | 168.5 | 156.9  |
| 67.5°  | 3102.4 | 3118.9 | 2907.4 | 2373.9 | 1736.2 | 750.0  | 219.7  | 188.3 | 160.2  | 158.6 | 152.0  |
| 70°    | 3180.0 | 2894.2 | 2416.8 | 1848.6 | 1253.8 | 446.0  | 178.4  | 163.6 | 153.6  | 153.6 | 148.6  |
| 72.5°  | 2656.3 | 2203.7 | 1615.6 | 1120.0 | 683.9  | 237.8  | 152.0  | 148.6 | 145.4  | 145.4 | 142.1  |
| 73°    | 2491.2 | 2030.3 | 1447.1 | 977.9  | 578.2  | 213.1  | 148.6  | 145.4 | 143.7  | 142.1 | 140.5  |
| 75°    | 1655.2 | 1275.3 | 821.0  | 495.6  | 269.2  | 153.6  | 132.2  | 132.2 | 130.5  | 132.2 | 130.5  |
| 77.5°  | 637.6  | 480.7  | 317.2  | 213.1  | 153.6  | 120.6  | 112.3  | 114.0 | 112.3  | 115.6 | 114.0  |
| 80°    | 280.8  | 277.5  | 209.8  | 150.4  | 112.3  | 90.8   | 90.8   | 90.8  | 92.5   | 94.1  | 94.1   |
| 82.5°  | 191.6  | 161.9  | 123.9  | 92.5   | 67.7   | 66.1   | 67.7   | 67.7  | 69.4   | 71.0  | 69.4   |
| 85°    | 105.8  | 89.2   | 66.1   | 41.3   | 36.3   | 44.6   | 44.6   | 44.6  | 43.0   | 43.0  | 41.3   |
| 87.5°  | 33.0   | 24.8   | 18.2   | 4.9    | 8.3    | 8.3    | 11.6   | 9.9   | 9.9    | 11.6  | 11.6   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    |
| 95°    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0   | 1.0    | 1.0   | 1.0    |
| 97.5°  | 4.9    | 4.6    | 4.1    | 4.1    | 4.1    | 4.6    | 4.9    | 5.1   | 5.6    | 6.1   | 6.6    |
| 100°   | 27.4   | 27.1   | 26.6   | 25.6   | 26.6   | 27.1   | 27.4   | 27.6  | 28.4   | 29.2  | 29.9   |
| 102.5° | 49.3   | 49.6   | 50.1   | 49.1   | 50.1   | 49.6   | 49.3   | 49.1  | 49.6   | 50.1  | 50.6   |
| 105°   | 71.1   | 71.6   | 72.6   | 70.6   | 72.6   | 71.6   | 71.1   | 70.6  | 71.1   | 71.6  | 72.1   |
| 107.5° | 93.3   | 93.6   | 94.1   | 93.1   | 94.1   | 93.6   | 93.3   | 93.1  | 93.3   | 93.6  | 93.9   |



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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

|        | 77.5° | 80°   | 85°   | 90°   | 95°   | 100°  | 102.5° | 105°  | 107.5° | 110°  | 112.5° |        |
|--------|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|--------|
| 110°   | 115.8 | 116.1 | 116.6 | 115.6 | 116.6 | 116.1 | 115.8  | 115.6 | 115.8  | 116.1 | 116.4  | 0°     |
| 112.5° | 138.6 | 139.1 | 140.1 | 138.1 | 140.1 | 139.1 | 138.6  | 138.1 | 138.3  | 138.6 | 138.9  | 2.5°   |
| 115°   | 162.1 | 162.6 | 163.7 | 162.6 | 163.7 | 162.6 | 162.1  | 161.6 | 161.6  | 161.6 | 161.6  | 5°     |
| 117.5° | 184.6 | 185.2 | 186.2 | 184.1 | 186.2 | 185.2 | 184.6  | 184.1 | 184.3  | 184.6 | 184.9  | 7.5°   |
| 120°   | 209.2 | 209.7 | 210.7 | 208.7 | 210.7 | 209.7 | 209.2  | 208.7 | 208.7  | 208.7 | 208.7  | 10°    |
| 122.5° | 235.3 | 236.3 | 238.3 | 237.3 | 238.3 | 236.3 | 235.3  | 234.3 | 234.1  | 233.7 | 233.4  | 12.5°  |
| 125°   | 260.6 | 261.4 | 262.9 | 261.9 | 262.9 | 261.4 | 260.6  | 259.8 | 259.8  | 259.8 | 259.8  | 15°    |
| 127.5° | 285.2 | 285.9 | 287.4 | 284.4 | 287.4 | 285.9 | 285.2  | 284.4 | 284.2  | 283.9 | 283.6  | 17.5°  |
| 130°   | 309.7 | 310.5 | 312.0 | 310.0 | 312.0 | 310.5 | 309.7  | 308.9 | 308.7  | 308.4 | 308.1  | 20°    |
| 132.5° | 334.3 | 335.0 | 336.6 | 334.5 | 336.6 | 335.0 | 334.3  | 333.5 | 333.3  | 333.0 | 332.7  | 22.5°  |
| 135°   | 357.5 | 358.0 | 359.1 | 358.0 | 359.1 | 358.0 | 357.5  | 357.0 | 356.8  | 356.5 | 356.2  | 25°    |
| 137.5° | 379.5 | 380.5 | 382.6 | 380.5 | 382.6 | 380.5 | 379.5  | 378.5 | 378.3  | 378.0 | 377.7  | 27.5°  |
| 140°   | 402.0 | 403.0 | 405.1 | 403.0 | 405.1 | 403.0 | 402.0  | 401.0 | 400.5  | 400.0 | 399.5  | 30°    |
| 142.5° | 423.3 | 424.0 | 425.5 | 424.5 | 425.5 | 424.0 | 423.3  | 422.5 | 422.3  | 422.0 | 421.7  | 32.5°  |
| 145°   | 444.8 | 445.5 | 447.0 | 445.0 | 447.0 | 445.5 | 444.8  | 444.0 | 443.8  | 443.4 | 443.1  | 35°    |
| 147.5° | 464.2 | 464.9 | 466.5 | 463.4 | 466.5 | 464.9 | 464.2  | 463.4 | 463.2  | 462.9 | 462.6  | 37.5°  |
| 150°   | 480.8 | 481.8 | 483.9 | 480.8 | 483.9 | 481.8 | 480.8  | 479.8 | 479.8  | 479.8 | 479.8  | 40°    |
| 152.5° | 498.0 | 498.7 | 500.2 | 497.2 | 500.2 | 498.7 | 498.0  | 497.2 | 497.2  | 497.2 | 497.2  | 42.5°  |
| 155°   | 516.4 | 517.1 | 518.6 | 516.6 | 518.6 | 517.1 | 516.4  | 515.6 | 515.4  | 515.1 | 514.7  | 45°    |
| 157.5° | 531.1 | 532.4 | 535.0 | 531.9 | 535.0 | 532.4 | 531.1  | 529.9 | 529.7  | 529.4 | 529.1  | 47.5°  |
| 160°   | 543.0 | 543.7 | 545.2 | 543.2 | 545.2 | 543.7 | 543.0  | 542.2 | 542.2  | 542.2 | 542.2  | 50°    |
| 162.5° | 550.9 | 551.4 | 552.4 | 549.3 | 552.4 | 551.4 | 550.9  | 550.3 | 550.9  | 551.4 | 551.9  | 52.5°  |
| 165°   | 561.1 | 561.6 | 562.6 | 560.6 | 562.6 | 561.6 | 561.1  | 560.6 | 561.1  | 561.6 | 562.1  | 55°    |
| 167.5° | 572.9 | 573.9 | 575.9 | 573.9 | 575.9 | 573.9 | 572.9  | 571.8 | 571.6  | 571.3 | 571.0  | 57.5°  |
| 170°   | 580.2 | 581.5 | 584.1 | 582.1 | 584.1 | 581.5 | 580.2  | 579.0 | 578.5  | 578.0 | 577.5  | 60°    |
| 172.5° | 581.9 | 582.6 | 584.1 | 581.0 | 584.1 | 582.6 | 581.9  | 581.0 | 580.8  | 580.5 | 580.2  | 62.5°  |
| 175°   | 581.9 | 582.6 | 584.1 | 581.0 | 584.1 | 582.6 | 581.9  | 581.0 | 581.5  | 582.1 | 582.6  | 65°    |
| 177.5° | 588.0 | 588.7 | 590.2 | 587.2 | 590.2 | 588.7 | 588.0  | 587.2 | 587.2  | 587.2 | 587.2  | 67.5°  |
| 180°   | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 | 589.2  | 589.2 | 589.2  | 589.2 | 589.2  | 70°    |
|        |       |       |       |       |       |       |        |       |        |       |        | 72.5°  |
|        |       |       |       |       |       |       |        |       |        |       |        | 73°    |
|        |       |       |       |       |       |       |        |       |        |       |        | 75°    |
|        |       |       |       |       |       |       |        |       |        |       |        | 77.5°  |
|        |       |       |       |       |       |       |        |       |        |       |        | 80°    |
|        |       |       |       |       |       |       |        |       |        |       |        | 82.5°  |
|        |       |       |       |       |       |       |        |       |        |       |        | 85°    |
|        |       |       |       |       |       |       |        |       |        |       |        | 87.5°  |
|        |       |       |       |       |       |       |        |       |        |       |        | 90°    |
|        |       |       |       |       |       |       |        |       |        |       |        | 92.5°  |
|        |       |       |       |       |       |       |        |       |        |       |        | 95°    |
|        |       |       |       |       |       |       |        |       |        |       |        | 97.5°  |
|        |       |       |       |       |       |       |        |       |        |       |        | 100°   |
|        |       |       |       |       |       |       |        |       |        |       |        | 102.5° |
|        |       |       |       |       |       |       |        |       |        |       |        | 105°   |
|        |       |       |       |       |       |       |        |       |        |       |        | 107.5° |

NUMBER: P227985  
 NUMBER: ISC-AF-800-LED-E1-T4W-ULG

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

| 115°  | 117.5° | 120°  | 122.5° | 125°  | 127.5° | 130°  | 135°  | 145°  | 155°  | 165°  | 110°   | 115°  |
|-------|--------|-------|--------|-------|--------|-------|-------|-------|-------|-------|--------|-------|
| 614.5 | 614.5  | 614.5 | 614.5  | 614.5 | 614.5  | 614.5 | 614.5 | 614.5 | 614.5 | 614.5 | 110°   | 116.6 |
| 599.7 | 594.7  | 599.7 | 591.4  | 598.0 | 591.4  | 596.4 | 596.4 | 594.7 | 594.7 | 594.7 | 112.5° | 139.1 |
| 579.8 | 571.6  | 579.8 | 574.9  | 579.8 | 573.3  | 578.2 | 579.8 | 581.4 | 586.5 | 584.8 | 115°   | 161.6 |
| 565.0 | 548.4  | 566.6 | 550.1  | 565.0 | 550.1  | 563.3 | 565.0 | 569.9 | 576.5 | 581.4 | 117.5° | 185.2 |
| 558.3 | 536.8  | 558.3 | 538.6  | 556.7 | 540.2  | 556.7 | 558.3 | 563.3 | 571.6 | 579.8 | 120°   | 208.7 |
| 555.1 | 531.9  | 555.1 | 535.2  | 555.1 | 538.6  | 555.1 | 560.0 | 563.3 | 569.9 | 579.8 | 122.5° | 233.2 |
| 551.8 | 528.7  | 555.1 | 533.6  | 555.1 | 538.6  | 556.7 | 560.0 | 565.0 | 571.6 | 579.8 | 125°   | 259.8 |
| 550.1 | 523.6  | 551.8 | 531.9  | 551.8 | 535.2  | 555.1 | 555.1 | 561.7 | 569.9 | 574.9 | 127.5° | 283.4 |
| 543.5 | 518.7  | 543.5 | 523.6  | 543.5 | 528.7  | 545.1 | 545.1 | 551.8 | 555.1 | 563.3 | 130°   | 307.9 |
| 533.6 | 507.2  | 530.3 | 512.1  | 530.3 | 515.4  | 528.7 | 528.7 | 533.6 | 538.6 | 543.5 | 132.5° | 332.5 |
| 518.7 | 494.0  | 513.7 | 497.3  | 510.5 | 497.3  | 507.2 | 505.5 | 508.8 | 512.1 | 515.4 | 135°   | 356.0 |
| 502.2 | 477.4  | 494.0 | 475.8  | 484.1 | 470.8  | 477.4 | 474.1 | 475.8 | 477.4 | 479.0 | 137.5° | 377.5 |
| 484.1 | 459.2  | 467.5 | 451.0  | 452.7 | 439.5  | 442.7 | 437.7 | 436.1 | 434.4 | 431.2 | 140°   | 399.0 |
| 464.2 | 437.7  | 437.7 | 421.3  | 418.0 | 406.4  | 406.4 | 399.8 | 394.9 | 388.2 | 381.6 | 142.5° | 421.5 |
| 439.5 | 416.3  | 404.7 | 391.5  | 384.9 | 373.4  | 371.6 | 363.5 | 351.9 | 340.3 | 333.7 | 145°   | 442.9 |
| 414.6 | 388.2  | 371.6 | 358.4  | 351.9 | 343.6  | 342.0 | 335.3 | 322.1 | 308.9 | 299.0 | 147.5° | 462.4 |
| 381.6 | 355.2  | 337.0 | 332.0  | 327.0 | 320.5  | 322.1 | 313.8 | 300.6 | 285.8 | 277.5 | 150°   | 479.8 |
| 348.5 | 325.4  | 310.6 | 308.9  | 305.7 | 303.9  | 305.7 | 299.0 | 284.2 | 270.9 | 261.1 | 152.5° | 497.2 |
| 320.5 | 297.4  | 282.4 | 280.8  | 279.2 | 285.8  | 287.4 | 285.8 | 269.2 | 256.0 | 242.8 | 155°   | 514.5 |
| 292.4 | 264.3  | 254.4 | 251.1  | 252.8 | 262.7  | 266.0 | 270.9 | 256.0 | 241.2 | 223.0 | 157.5° | 528.9 |
| 259.3 | 232.9  | 229.7 | 226.3  | 228.0 | 236.2  | 244.5 | 254.4 | 241.2 | 219.7 | 195.0 | 160°   | 542.2 |
| 229.7 | 206.5  | 208.2 | 204.8  | 208.2 | 214.7  | 221.4 | 237.8 | 221.4 | 199.9 | 188.3 | 162.5° | 552.4 |
| 206.5 | 188.3  | 191.6 | 188.3  | 191.6 | 199.9  | 204.8 | 218.1 | 218.1 | 213.1 | 203.2 | 165°   | 562.6 |
| 190.0 | 176.8  | 180.0 | 176.8  | 181.7 | 188.3  | 193.2 | 221.4 | 237.8 | 224.6 | 204.8 | 167.5° | 570.8 |
| 180.0 | 168.5  | 170.1 | 166.8  | 170.1 | 180.0  | 190.0 | 223.0 | 249.4 | 223.0 | 208.2 | 170°   | 576.9 |
| 165.2 | 155.3  | 153.6 | 153.6  | 156.9 | 173.5  | 178.4 | 208.2 | 246.1 | 221.4 | 209.8 | 172.5° | 580.0 |
| 155.3 | 147.0  | 145.4 | 143.7  | 147.0 | 158.6  | 163.6 | 193.2 | 237.8 | 209.8 | 190.0 | 175°   | 583.1 |
| 150.4 | 143.7  | 140.5 | 137.1  | 140.5 | 150.4  | 155.3 | 181.7 | 224.6 | 199.9 | 178.4 | 177.5° | 587.2 |
| 145.4 | 138.8  | 137.1 | 133.8  | 135.4 | 142.1  | 148.6 | 166.8 | 213.1 | 188.3 | 166.8 | 180°   | 589.2 |
| 138.8 | 132.2  | 130.5 | 125.5  | 127.2 | 133.8  | 137.1 | 156.9 | 198.2 | 176.8 | 155.3 |        |       |
| 137.1 | 130.5  | 128.9 | 123.9  | 125.5 | 130.5  | 133.8 | 153.6 | 195.0 | 175.1 | 153.6 |        |       |
| 128.9 | 122.2  | 120.6 | 117.3  | 119.0 | 119.0  | 122.2 | 140.5 | 185.1 | 165.2 | 143.7 |        |       |
| 114.0 | 109.0  | 107.4 | 104.0  | 102.4 | 100.8  | 105.8 | 123.9 | 168.5 | 148.6 | 115.6 |        |       |
| 94.1  | 89.2   | 87.6  | 80.9   | 80.9  | 80.9   | 87.6  | 105.8 | 125.5 | 107.4 | 89.2  |        |       |
| 69.4  | 66.1   | 66.1  | 61.2   | 59.4  | 57.8   | 62.8  | 72.7  | 99.1  | 84.3  | 69.4  |        |       |
| 41.3  | 39.7   | 41.3  | 36.3   | 38.0  | 36.3   | 41.3  | 51.2  | 54.5  | 43.0  | 33.0  |        |       |
| 9.9   | 11.6   | 11.6  | 11.6   | 9.9   | 9.9    | 8.3   | 6.6   | 0.0   | 0.0   | 0.0   |        |       |
| 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |        |       |
| 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |        |       |
| 1.0   | 1.0    | 1.0   | 1.0    | 1.0   | 1.0    | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |        |       |
| 7.2   | 8.7    | 10.2  | 11.8   | 13.3  | 12.3   | 11.3  | 9.2   | 4.1   | 3.1   | 2.0   |        |       |
| 30.7  | 31.2   | 31.7  | 32.2   | 32.7  | 32.2   | 31.7  | 30.7  | 22.5  | 14.3  | 10.2  |        |       |
| 51.1  | 51.4   | 51.7  | 52.0   | 52.2  | 52.0   | 51.7  | 51.1  | 46.0  | 38.9  | 32.7  |        |       |
| 72.6  | 72.6   | 72.6  | 72.6   | 72.6  | 72.4   | 72.1  | 71.6  | 67.5  | 62.4  | 57.3  |        |       |
| 94.1  | 94.3   | 94.6  | 94.9   | 95.1  | 94.6   | 94.1  | 93.1  | 90.0  | 85.9  | 81.8  |        |       |

'227985  
 ISC-AF-800-LED-E1-T4W-ULG

REPORT NUMBER: P227985  
 CATALOG NUMBER: ISC-AF-80

**TION (continued):**

**CANDELA DISTRIBUTION (con**

| 117.5° | 120°  | 122.5° | 125°  | 127.5° | 130°  | 135°  | 145°  | 155°  | 165°  |        | 175°  | 180°  |
|--------|-------|--------|-------|--------|-------|-------|-------|-------|-------|--------|-------|-------|
| 116.6  | 116.6 | 116.6  | 116.6 | 116.1  | 115.6 | 114.6 | 112.5 | 108.4 | 105.4 | 0°     | 614.5 | 614.5 |
| 139.1  | 139.1 | 139.1  | 139.1 | 138.6  | 138.1 | 137.1 | 135.0 | 132.0 | 128.9 | 2.5°   | 593.0 | 591.4 |
| 161.6  | 161.6 | 161.6  | 161.6 | 161.1  | 160.6 | 159.6 | 157.5 | 154.5 | 152.4 | 5°     | 584.8 | 584.8 |
| 184.9  | 184.6 | 184.3  | 184.1 | 183.9  | 183.6 | 183.1 | 181.1 | 178.0 | 175.9 | 7.5°   | 581.4 | 581.4 |
| 208.7  | 208.7 | 208.7  | 208.7 | 208.2  | 207.7 | 206.6 | 205.6 | 202.5 | 200.5 | 10°    | 583.2 | 583.2 |
| 233.2  | 233.2 | 233.2  | 233.2 | 233.0  | 232.7 | 232.2 | 231.2 | 228.1 | 226.1 | 12.5°  | 583.2 | 586.5 |
| 259.6  | 259.3 | 259.0  | 258.8 | 258.6  | 258.3 | 257.8 | 256.8 | 253.7 | 252.7 | 15°    | 588.1 | 586.5 |
| 283.6  | 283.9 | 284.2  | 284.4 | 283.9  | 283.4 | 282.3 | 280.3 | 278.2 | 276.2 | 17.5°  | 583.2 | 583.2 |
| 307.9  | 307.9 | 307.9  | 307.9 | 307.4  | 306.9 | 305.9 | 304.8 | 300.7 | 299.7 | 20°    | 569.9 | 573.3 |
| 332.5  | 332.5 | 332.5  | 332.5 | 331.6  | 330.9 | 329.4 | 328.4 | 325.3 | 324.3 | 22.5°  | 551.8 | 551.8 |
| 356.0  | 356.0 | 356.0  | 356.0 | 355.2  | 354.5 | 352.9 | 352.9 | 348.8 | 346.8 | 25°    | 522.0 | 523.6 |
| 377.5  | 377.5 | 377.5  | 377.5 | 377.0  | 376.4 | 375.4 | 375.4 | 372.4 | 371.3 | 27.5°  | 482.3 | 485.7 |
| 399.0  | 399.0 | 399.0  | 399.0 | 398.7  | 398.4 | 397.9 | 396.9 | 394.9 | 393.8 | 30°    | 432.8 | 436.1 |
| 421.5  | 421.5 | 421.5  | 421.5 | 420.9  | 420.4 | 419.4 | 419.4 | 416.3 | 417.4 | 32.5°  | 376.7 | 379.9 |
| 443.1  | 443.4 | 443.8  | 444.0 | 443.4  | 442.9 | 441.9 | 440.9 | 437.8 | 437.8 | 35°    | 332.0 | 333.7 |
| 462.9  | 463.4 | 463.9  | 464.4 | 464.2  | 463.9 | 463.4 | 462.4 | 458.3 | 457.3 | 37.5°  | 302.3 | 302.3 |
| 480.3  | 480.8 | 481.3  | 481.8 | 481.6  | 481.3 | 480.8 | 479.8 | 475.7 | 474.6 | 40°    | 277.5 | 277.5 |
| 497.4  | 497.7 | 498.0  | 498.2 | 498.0  | 497.7 | 497.2 | 496.1 | 493.1 | 494.1 | 42.5°  | 254.4 | 252.8 |
| 514.7  | 515.1 | 515.4  | 515.6 | 515.4  | 515.1 | 514.5 | 514.5 | 512.5 | 513.5 | 45°    | 231.3 | 228.0 |
| 529.4  | 529.9 | 530.4  | 530.9 | 530.9  | 530.9 | 530.9 | 530.9 | 527.8 | 528.9 | 47.5°  | 208.2 | 206.5 |
| 542.7  | 543.2 | 543.7  | 544.2 | 544.2  | 544.2 | 544.2 | 544.2 | 541.1 | 541.1 | 50°    | 188.3 | 188.3 |
| 552.9  | 553.4 | 553.9  | 554.4 | 554.2  | 553.9 | 553.4 | 553.4 | 550.3 | 551.4 | 52.5°  | 191.6 | 191.6 |
| 563.4  | 564.2 | 564.9  | 565.7 | 565.5  | 565.2 | 564.7 | 564.7 | 560.6 | 561.6 | 55°    | 206.5 | 206.5 |
| 571.3  | 571.8 | 572.3  | 572.9 | 572.9  | 572.9 | 572.9 | 573.9 | 570.8 | 571.8 | 57.5°  | 208.2 | 206.5 |
| 577.1  | 577.5 | 577.8  | 578.0 | 578.2  | 578.5 | 579.0 | 580.0 | 578.0 | 579.0 | 60°    | 226.3 | 224.6 |
| 580.5  | 581.0 | 581.5  | 582.1 | 581.9  | 581.5 | 581.0 | 582.1 | 580.0 | 582.1 | 62.5°  | 236.2 | 241.2 |
| 583.9  | 584.6 | 585.3  | 586.2 | 585.9  | 585.6 | 585.1 | 585.1 | 582.1 | 583.1 | 65°    | 206.5 | 199.9 |
| 588.0  | 588.7 | 589.4  | 590.2 | 590.2  | 590.2 | 590.2 | 591.3 | 587.2 | 588.2 | 67.5°  | 196.6 | 186.7 |
| 589.2  | 589.2 | 589.2  | 589.2 | 589.2  | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 | 70°    | 176.8 | 161.9 |
|        |       |        |       |        |       |       |       |       |       | 72.5°  | 156.9 | 148.6 |
|        |       |        |       |        |       |       |       |       |       | 73°    | 152.0 | 145.4 |
|        |       |        |       |        |       |       |       |       |       | 75°    | 135.4 | 132.2 |
|        |       |        |       |        |       |       |       |       |       | 77.5°  | 102.4 | 100.8 |
|        |       |        |       |        |       |       |       |       |       | 80°    | 85.9  | 84.3  |
|        |       |        |       |        |       |       |       |       |       | 82.5°  | 57.8  | 54.5  |
|        |       |        |       |        |       |       |       |       |       | 85°    | 24.8  | 23.1  |
|        |       |        |       |        |       |       |       |       |       | 87.5°  | 0.0   | 0.0   |
|        |       |        |       |        |       |       |       |       |       | 90°    | 0.0   | 0.0   |
|        |       |        |       |        |       |       |       |       |       | 92.5°  | 0.0   | 0.0   |
|        |       |        |       |        |       |       |       |       |       | 95°    | 1.0   | 1.0   |
|        |       |        |       |        |       |       |       |       |       | 97.5°  | 2.0   | 2.0   |
|        |       |        |       |        |       |       |       |       |       | 100°   | 8.2   | 8.2   |
|        |       |        |       |        |       |       |       |       |       | 102.5° | 28.6  | 28.6  |
|        |       |        |       |        |       |       |       |       |       | 105°   | 55.2  | 55.2  |
|        |       |        |       |        |       |       |       |       |       | 107.5° | 78.8  | 79.8  |



REPORT NUMBER: P227985

CATALOG NUMBER: ISC-AF-800-LED-E1-1

**CANDELA DISTRIBUTION (continued):**

|        | 175°  | 180°  |
|--------|-------|-------|
| 110°   | 104.3 | 103.3 |
| 112.5° | 126.8 | 126.8 |
| 115°   | 150.4 | 149.4 |
| 117.5° | 173.9 | 172.9 |
| 120°   | 199.5 | 197.4 |
| 122.5° | 225.0 | 224.0 |
| 125°   | 251.6 | 249.6 |
| 127.5° | 275.2 | 273.1 |
| 130°   | 298.7 | 296.7 |
| 132.5° | 321.2 | 320.2 |
| 135°   | 344.7 | 343.7 |
| 137.5° | 368.3 | 367.2 |
| 140°   | 391.8 | 390.8 |
| 142.5° | 415.3 | 413.3 |
| 145°   | 435.8 | 434.8 |
| 147.5° | 454.2 | 454.2 |
| 150°   | 472.6 | 471.6 |
| 152.5° | 491.0 | 490.0 |
| 155°   | 511.5 | 510.5 |
| 157.5° | 526.8 | 524.8 |
| 160°   | 539.1 | 537.0 |
| 162.5° | 548.3 | 547.3 |
| 165°   | 559.6 | 558.5 |
| 167.5° | 568.8 | 567.7 |
| 170°   | 575.9 | 574.9 |
| 172.5° | 579.0 | 578.0 |
| 175°   | 582.1 | 580.0 |
| 177.5° | 586.2 | 585.1 |
| 180°   | 589.2 | 589.2 |

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report

