

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: P227601

Luminaire Tested: **ISC-AF-600-LED-E1-T2-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227601  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29758)-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-600-LED-E1-T2-ULG  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II, 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: 5373.7 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type II - Medium - Non-Cutoff  
BUG Rating: B1 - U5 - G1

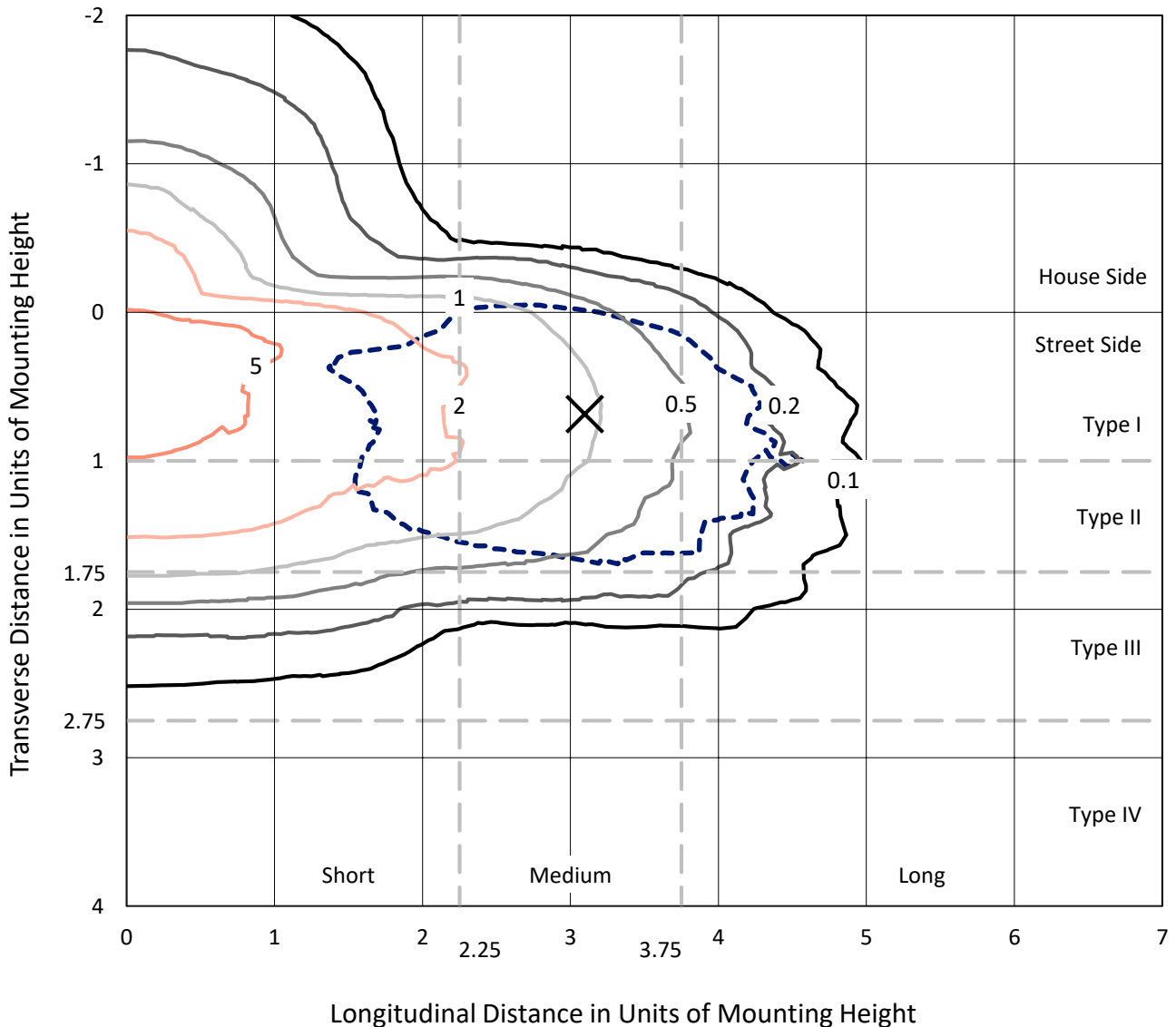
Input Watts (W): 50.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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 CATALOG NUMBER: ISC-AF-600-LED-E1-T2-ULG

### Iso-Footcandle Lines of Horizontal Illumination

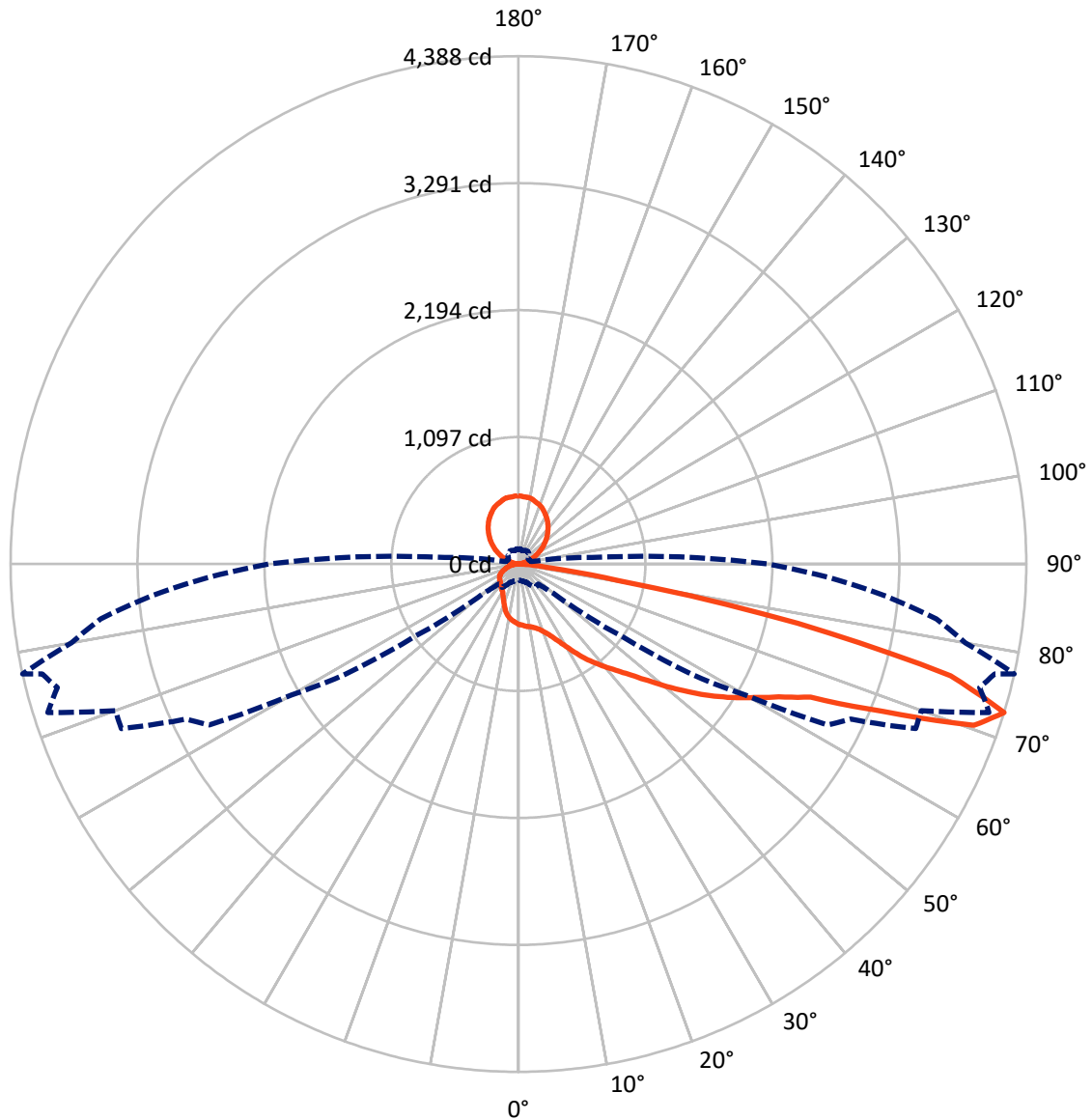
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 fc  
 Type II - Medium - Non-Cutoff

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CATALOG NUMBER: ISC-AF-600-LED-E1-T2-ULG

### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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CATALOG NUMBER: ISC-AF-600-LED-E1-T2-ULG

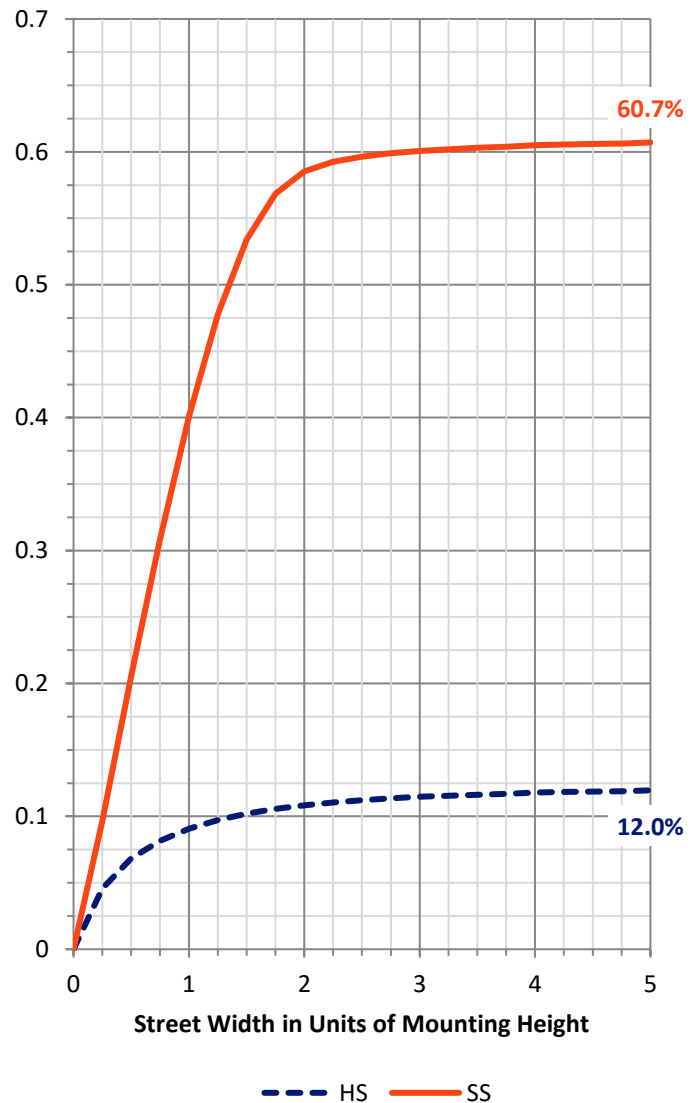
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 648.7    | 729.4  | 1378.1 |
|                    | % Fixture | 12.1     | 13.6   | 25.6   |
| <b>Street Side</b> | Lumens    | 3266.1   | 729.4  | 3995.6 |
|                    | % Fixture | 60.8     | 13.6   | 74.4   |
| <b>Total</b>       | Lumens    | 3914.8   | 1458.9 | 5373.7 |
|                    | % Fixture | 72.9     | 27.1   | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 48.5   | 0.9       |
| 10°-20°   | 148.9  | 2.8       |
| 20°-30°   | 264.3  | 4.9       |
| 30°-40°   | 418.7  | 7.8       |
| 40°-50°   | 628.1  | 11.7      |
| 50°-60°   | 814.0  | 15.1      |
| 60°-70°   | 924.9  | 17.2      |
| 70°-80°   | 613.7  | 11.4      |
| 80°-90°   | 53.7   | 1.0       |
| 90°-100°  | 4.8    | 0.1       |
| 100°-110° | 70.6   | 1.3       |
| 110°-120° | 156.6  | 2.9       |
| 120°-130° | 229.0  | 4.3       |
| 130°-140° | 271.7  | 5.1       |
| 140°-150° | 275.5  | 5.1       |
| 150°-160° | 236.4  | 4.4       |
| 160°-170° | 158.7  | 3.0       |
| 170°-180° | 55.6   | 1.0       |
| 0°-90°    | 3914.8 | 72.9      |
| 0°-180°   | 5373.7 | 100.0     |



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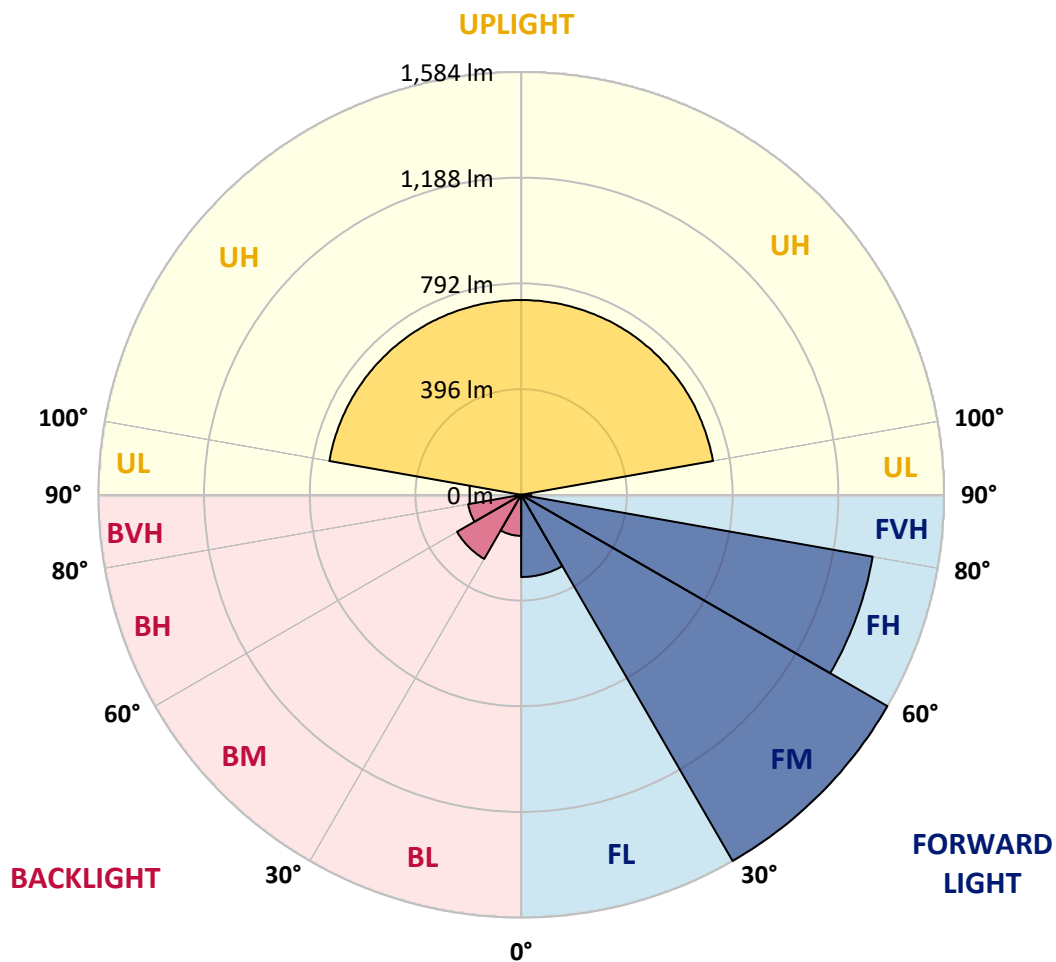
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |         |         |
|----------------|--------|-----------|-------------------------|---------|---------|
|                |        |           | B                       | U       | G       |
| FL (0°-30°)    | 308.0  | 5.7       |                         |         |         |
| FM (30°-60°)   | 1583.7 | 29.5      |                         |         |         |
| FH (60°-80°)   | 1336.9 | 24.9      |                         |         | G1/1800 |
| FVH (80°-90°)  | 37.5   | 0.7       |                         |         | G1/100  |
| BL (0°-30°)    | 153.7  | 2.9       | B1/500                  |         |         |
| BM (30°-60°)   | 277.1  | 5.2       | B1/1000                 |         |         |
| BH (60°-80°)   | 201.7  | 3.8       | B1/500                  |         | G1/500  |
| BVH (80°-90°)  | 16.2   | 0.3       |                         |         | G1/100  |
| UL (90°-100°)  | 4.8    | 0.1       |                         | U1/10   |         |
| UH (100°-180°) | 729.4  | 13.6      |                         | U4/1000 |         |

**BUG Rating: B1-U5-G1**

Type II Medium





REPORT NUMBER: P227601

CATALOG NUMBER: ISC-AF-600-LED-E1-T2-ULG

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 37.5°  | 40°    | 42.5°  | 45°    | 47.5°  | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 522.7  | 522.7  | 522.7  | 522.7  | 522.7  | 522.7  | 522.7  | 522.7  | 522.7  | 522.7  | 522.7  |
| 2.5°   | 566.3  | 563.6  | 562.3  | 559.7  | 557.0  | 555.7  | 551.8  | 549.1  | 553.0  | 551.8  | 551.8  |
| 5°     | 608.5  | 605.9  | 601.9  | 597.9  | 592.7  | 588.7  | 584.7  | 580.7  | 583.4  | 580.7  | 578.2  |
| 7.5°   | 642.8  | 640.2  | 634.9  | 631.0  | 625.6  | 620.4  | 615.1  | 613.8  | 611.1  | 607.2  | 605.9  |
| 10°    | 662.6  | 660.0  | 657.3  | 654.7  | 646.8  | 642.8  | 636.2  | 632.3  | 633.6  | 628.3  | 628.3  |
| 12.5°  | 681.1  | 678.4  | 677.1  | 677.1  | 670.5  | 666.6  | 663.9  | 660.0  | 662.6  | 654.7  | 652.0  |
| 15°    | 698.3  | 695.6  | 691.6  | 695.6  | 694.3  | 692.9  | 691.6  | 690.3  | 694.3  | 686.4  | 687.7  |
| 17.5°  | 726.0  | 724.7  | 716.8  | 711.5  | 712.8  | 716.8  | 719.3  | 718.0  | 718.0  | 714.1  | 715.5  |
| 20°    | 769.6  | 769.6  | 758.9  | 749.7  | 735.2  | 735.2  | 736.5  | 735.2  | 737.9  | 740.5  | 744.4  |
| 22.5°  | 802.5  | 799.8  | 796.0  | 788.0  | 772.1  | 758.9  | 758.9  | 753.7  | 757.7  | 758.9  | 766.9  |
| 25°    | 844.8  | 842.1  | 832.9  | 832.9  | 817.0  | 799.8  | 797.3  | 789.3  | 798.6  | 781.4  | 794.6  |
| 27.5°  | 896.2  | 893.6  | 881.7  | 876.5  | 868.5  | 847.4  | 842.1  | 843.4  | 852.7  | 827.6  | 840.8  |
| 30°    | 961.0  | 958.3  | 943.8  | 929.2  | 916.1  | 893.6  | 891.0  | 889.7  | 910.7  | 881.7  | 898.9  |
| 32.5°  | 1042.8 | 1042.8 | 1026.9 | 1007.1 | 980.7  | 950.3  | 939.8  | 941.1  | 970.2  | 938.5  | 967.5  |
| 35°    | 1166.9 | 1151.0 | 1122.0 | 1091.6 | 1063.9 | 1028.3 | 1013.7 | 1011.1 | 1037.5 | 1005.8 | 1038.8 |
| 37.5°  | 1246.1 | 1235.5 | 1209.0 | 1186.6 | 1156.2 | 1122.0 | 1111.4 | 1115.3 | 1137.8 | 1091.6 | 1139.2 |
| 40°    | 1317.4 | 1316.0 | 1298.8 | 1284.3 | 1253.9 | 1219.7 | 1232.9 | 1285.6 | 1345.0 | 1255.3 | 1256.6 |
| 42.5°  | 1364.8 | 1367.5 | 1366.2 | 1367.5 | 1350.3 | 1314.7 | 1337.1 | 1411.1 | 1512.6 | 1459.9 | 1411.1 |
| 45°    | 1372.7 | 1382.0 | 1385.9 | 1412.4 | 1429.5 | 1408.4 | 1420.3 | 1498.1 | 1701.4 | 1783.2 | 1562.9 |
| 47.5°  | 1392.5 | 1401.7 | 1393.9 | 1425.6 | 1504.8 | 1503.4 | 1550.9 | 1579.9 | 1607.7 | 1620.9 | 1787.2 |
| 50°    | 1418.9 | 1436.1 | 1428.1 | 1454.5 | 1519.3 | 1556.2 | 1597.1 | 1634.1 | 1611.7 | 1528.5 | 1573.4 |
| 52.5°  | 1420.3 | 1440.1 | 1483.6 | 1510.0 | 1573.4 | 1565.4 | 1593.1 | 1573.4 | 1607.7 | 1521.9 | 1565.4 |
| 55°    | 1304.1 | 1308.0 | 1434.8 | 1568.1 | 1679.0 | 1656.6 | 1639.4 | 1594.5 | 1638.1 | 1531.2 | 1586.6 |
| 57.5°  | 1120.6 | 1133.8 | 1265.8 | 1490.2 | 1727.8 | 1747.6 | 1742.3 | 1738.4 | 1772.7 | 1630.2 | 1690.8 |
| 60°    | 918.7  | 934.6  | 1059.9 | 1323.9 | 1626.2 | 1677.6 | 1748.9 | 1792.5 | 1880.9 | 1824.1 | 1924.5 |
| 62.5°  | 572.9  | 584.7  | 723.3  | 1053.3 | 1434.8 | 1536.4 | 1640.7 | 1692.2 | 1820.2 | 1846.6 | 2016.8 |
| 65°    | 273.2  | 277.2  | 331.3  | 572.9  | 1042.8 | 1234.2 | 1388.6 | 1498.1 | 1655.2 | 1774.0 | 2003.7 |
| 67.5°  | 212.5  | 213.8  | 233.6  | 304.9  | 534.6  | 662.6  | 838.2  | 983.4  | 1151.0 | 1475.7 | 1760.8 |
| 70°    | 170.3  | 170.3  | 186.1  | 224.4  | 331.3  | 348.4  | 393.3  | 442.2  | 513.4  | 774.8  | 1005.8 |
| 72.5°  | 142.6  | 142.6  | 153.1  | 176.9  | 245.5  | 249.5  | 246.8  | 242.8  | 242.8  | 306.3  | 390.7  |
| 75°    | 120.1  | 118.8  | 125.4  | 141.3  | 182.2  | 187.4  | 184.7  | 175.5  | 165.0  | 165.0  | 186.1  |
| 77.5°  | 97.7   | 97.7   | 102.9  | 110.9  | 132.0  | 134.6  | 134.6  | 126.7  | 117.4  | 118.8  | 128.1  |
| 80°    | 76.5   | 76.5   | 80.5   | 85.8   | 92.4   | 91.0   | 91.0   | 83.2   | 76.5   | 75.2   | 80.5   |
| 82.5°  | 55.4   | 56.8   | 66.0   | 62.0   | 59.4   | 55.4   | 55.4   | 54.1   | 48.8   | 44.9   | 47.6   |
| 85°    | 17.2   | 18.5   | 31.7   | 36.9   | 30.4   | 25.1   | 23.7   | 19.8   | 21.1   | 17.2   | 19.8   |
| 87.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 1.3    | 0.0    | 0.0    | 0.0    | 1.3    | 0.0    | 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    |
| 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    | 10.2   | 11.3   |
| 100°   | 8.2    | 8.2    | 10.2   | 14.3   | 22.5   | 24.6   | 26.6   | 28.6   | 30.7   | 31.2   | 31.7   |
| 102.5° | 28.6   | 28.6   | 32.7   | 38.9   | 46.0   | 47.3   | 48.6   | 49.9   | 51.1   | 51.4   | 51.7   |
| 105°   | 55.2   | 55.2   | 57.3   | 62.4   | 67.5   | 68.5   | 69.6   | 70.6   | 71.6   | 71.8   | 72.1   |
| 107.5° | 79.8   | 78.8   | 81.8   | 85.9   | 90.0   | 90.8   | 91.6   | 92.3   | 93.1   | 93.6   | 94.1   |
| 110°   | 103.3  | 104.3  | 105.4  | 108.4  | 112.5  | 113.0  | 113.5  | 114.1  | 114.6  | 115.1  | 115.6  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 15°   | 25°   | 35°   | 37.5° | 40°   | 42.5° | 45°   | 47.5° | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 126.8 | 126.8 | 128.9 | 132.0 | 135.0 | 135.5 | 136.1 | 136.6 | 137.1 | 137.6 | 138.1 |
| 115°   | 149.4 | 150.4 | 152.4 | 154.5 | 157.5 | 158.0 | 158.6 | 159.1 | 159.6 | 160.1 | 160.6 |
| 117.5° | 172.9 | 173.9 | 175.9 | 178.0 | 181.1 | 181.6 | 182.1 | 182.6 | 183.1 | 183.3 | 183.6 |
| 120°   | 197.4 | 199.5 | 200.5 | 202.5 | 205.6 | 205.8 | 206.1 | 206.4 | 206.6 | 207.1 | 207.7 |
| 122.5° | 224.0 | 225.0 | 226.1 | 228.1 | 231.2 | 231.4 | 231.7 | 232.0 | 232.2 | 232.4 | 232.7 |
| 125°   | 249.6 | 251.6 | 252.7 | 253.7 | 256.8 | 257.0 | 257.3 | 257.6 | 257.8 | 258.0 | 258.3 |
| 127.5° | 273.1 | 275.2 | 276.2 | 278.2 | 280.3 | 280.8 | 281.3 | 281.8 | 282.3 | 282.8 | 283.4 |
| 130°   | 296.7 | 298.7 | 299.7 | 300.7 | 304.8 | 305.0 | 305.4 | 305.7 | 305.9 | 306.4 | 306.9 |
| 132.5° | 320.2 | 321.2 | 324.3 | 325.3 | 328.4 | 328.6 | 328.9 | 329.2 | 329.4 | 330.2 | 330.9 |
| 135°   | 343.7 | 344.7 | 346.8 | 348.8 | 352.9 | 352.9 | 352.9 | 352.9 | 352.9 | 353.7 | 354.5 |
| 137.5° | 367.2 | 368.3 | 371.3 | 372.4 | 375.4 | 375.4 | 375.4 | 375.4 | 375.4 | 375.9 | 376.4 |
| 140°   | 390.8 | 391.8 | 393.8 | 394.9 | 396.9 | 397.1 | 397.4 | 397.7 | 397.9 | 398.1 | 398.4 |
| 142.5° | 413.3 | 415.3 | 417.4 | 416.3 | 419.4 | 419.4 | 419.4 | 419.4 | 419.4 | 419.9 | 420.4 |
| 145°   | 434.8 | 435.8 | 437.8 | 437.8 | 440.9 | 441.1 | 441.4 | 441.7 | 441.9 | 442.4 | 442.9 |
| 147.5° | 454.2 | 454.2 | 457.3 | 458.3 | 462.4 | 462.6 | 462.9 | 463.2 | 463.4 | 463.6 | 463.9 |
| 150°   | 471.6 | 472.6 | 474.6 | 475.7 | 479.8 | 480.0 | 480.3 | 480.6 | 480.8 | 481.0 | 481.3 |
| 152.5° | 490.0 | 491.0 | 494.1 | 493.1 | 496.1 | 496.3 | 496.6 | 496.9 | 497.2 | 497.4 | 497.7 |
| 155°   | 510.5 | 511.5 | 513.5 | 512.5 | 514.5 | 514.5 | 514.5 | 514.5 | 514.5 | 514.7 | 515.1 |
| 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 | 553.9 |
| 165°   | 558.5 | 559.6 | 561.6 | 560.6 | 564.7 | 564.7 | 564.7 | 564.7 | 564.7 | 564.9 | 565.2 |
| 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 | 578.5 |
| 172.5° | 578.0 | 579.0 | 582.1 | 580.0 | 582.1 | 581.9 | 581.5 | 581.2 | 581.0 | 581.2 | 581.5 |
| 175°   | 580.0 | 582.1 | 583.1 | 582.1 | 585.1 | 585.1 | 585.1 | 585.1 | 585.1 | 585.3 | 585.6 |
| 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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CATALOG NUMBER: ISC-AF-600-LED-E1-T2-ULG

**CANDELA DISTRIBUTION (continued):**

|        | 52.5°  | 55°    | 57.5°  | 60°    | 62.5°  | 65°    | 67.5°  | 70°    | 72.5°  | 75°    | 77°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 522.7  | 522.7  | 522.7  | 522.7  | 522.7  | 522.7  | 522.7  | 522.7  | 522.7  | 522.7  | 522.7  |
| 2.5°   | 545.1  | 547.8  | 542.5  | 542.5  | 535.9  | 539.8  | 533.3  | 534.6  | 527.9  | 530.6  | 530.6  |
| 5°     | 571.5  | 572.9  | 566.3  | 563.6  | 557.0  | 557.0  | 550.4  | 550.4  | 541.1  | 543.8  | 541.1  |
| 7.5°   | 596.6  | 596.6  | 590.0  | 584.7  | 578.2  | 575.5  | 567.5  | 563.6  | 555.7  | 554.3  | 550.4  |
| 10°    | 617.8  | 617.8  | 608.5  | 603.2  | 595.3  | 591.4  | 580.7  | 576.8  | 567.5  | 561.0  | 557.0  |
| 12.5°  | 644.2  | 641.5  | 631.0  | 625.6  | 612.4  | 611.1  | 595.3  | 592.7  | 579.5  | 575.5  | 568.9  |
| 15°    | 675.9  | 678.4  | 661.3  | 660.0  | 641.5  | 640.2  | 619.1  | 617.8  | 597.9  | 596.6  | 587.4  |
| 17.5°  | 710.1  | 715.5  | 700.9  | 699.6  | 677.1  | 677.1  | 652.0  | 650.7  | 624.3  | 623.0  | 611.1  |
| 20°    | 740.5  | 747.1  | 737.9  | 740.5  | 720.7  | 722.0  | 694.3  | 694.3  | 657.3  | 654.7  | 644.2  |
| 22.5°  | 768.2  | 781.4  | 773.5  | 788.0  | 768.2  | 777.4  | 740.5  | 747.1  | 703.5  | 698.3  | 682.4  |
| 25°    | 796.0  | 813.0  | 810.5  | 834.2  | 819.7  | 835.5  | 797.3  | 810.5  | 753.7  | 757.7  | 736.5  |
| 27.5°  | 823.7  | 846.1  | 843.4  | 877.8  | 872.5  | 904.2  | 871.1  | 885.7  | 823.7  | 827.6  | 803.8  |
| 30°    | 869.8  | 894.9  | 885.7  | 921.4  | 921.4  | 972.8  | 947.8  | 970.2  | 901.5  | 909.4  | 881.7  |
| 32.5°  | 931.9  | 961.0  | 933.2  | 979.4  | 976.7  | 1044.1 | 1024.3 | 1062.5 | 995.2  | 1005.8 | 971.5  |
| 35°    | 999.2  | 1045.4 | 1000.5 | 1052.0 | 1044.1 | 1114.0 | 1100.8 | 1162.9 | 1091.6 | 1103.5 | 1069.2 |
| 37.5°  | 1087.6 | 1143.0 | 1083.7 | 1128.5 | 1092.9 | 1173.4 | 1165.6 | 1249.9 | 1177.4 | 1207.8 | 1166.9 |
| 40°    | 1191.9 | 1235.5 | 1161.6 | 1199.8 | 1140.4 | 1223.6 | 1210.4 | 1326.6 | 1259.3 | 1308.0 | 1271.1 |
| 42.5°  | 1288.3 | 1318.6 | 1221.0 | 1268.5 | 1197.2 | 1281.7 | 1257.9 | 1397.9 | 1339.8 | 1414.9 | 1374.0 |
| 45°    | 1375.4 | 1409.7 | 1280.3 | 1333.1 | 1253.9 | 1346.3 | 1305.4 | 1466.5 | 1426.8 | 1540.4 | 1499.4 |
| 47.5°  | 1499.4 | 1449.3 | 1334.4 | 1403.1 | 1314.7 | 1416.3 | 1362.2 | 1547.0 | 1532.5 | 1693.5 | 1645.9 |
| 50°    | 1458.5 | 1491.6 | 1379.3 | 1450.6 | 1370.1 | 1494.2 | 1434.8 | 1643.4 | 1647.3 | 1859.8 | 1832.1 |
| 52.5°  | 1462.5 | 1518.0 | 1413.6 | 1512.6 | 1434.8 | 1602.5 | 1540.4 | 1759.5 | 1778.0 | 2020.8 | 1982.6 |
| 55°    | 1486.2 | 1568.1 | 1465.2 | 1598.5 | 1525.8 | 1722.5 | 1679.0 | 1884.9 | 1916.6 | 2172.6 | 2150.2 |
| 57.5°  | 1545.7 | 1659.1 | 1553.6 | 1727.8 | 1652.6 | 1859.8 | 1820.2 | 2014.2 | 2057.8 | 2324.5 | 2317.8 |
| 60°    | 1774.0 | 1908.6 | 1723.9 | 1916.6 | 1816.2 | 2015.5 | 1962.7 | 2150.2 | 2193.7 | 2469.6 | 2486.8 |
| 62.5°  | 2028.7 | 2262.4 | 2152.8 | 2353.5 | 2088.1 | 2290.1 | 2134.4 | 2317.8 | 2320.5 | 2625.4 | 2679.5 |
| 65°    | 2094.8 | 2453.8 | 2547.5 | 2921.0 | 2782.4 | 2989.7 | 2573.8 | 2696.7 | 2538.2 | 2909.2 | 2987.0 |
| 67.5°  | 2069.6 | 2509.2 | 2769.2 | 3190.3 | 3347.4 | 3709.0 | 3639.0 | 3596.9 | 3229.9 | 3496.5 | 3590.3 |
| 70°    | 1519.3 | 1985.2 | 2621.4 | 3049.1 | 3501.9 | 3739.4 | 4115.6 | 4153.9 | 4138.0 | 4101.1 | 4163.1 |
| 72.5°  | 691.6  | 1085.0 | 1774.0 | 2262.4 | 3009.5 | 3169.2 | 3714.3 | 3703.8 | 4263.5 | 4124.8 | 4222.5 |
| 75°    | 271.9  | 418.4  | 844.8  | 1263.1 | 2081.6 | 2278.2 | 2896.0 | 2742.8 | 3441.1 | 3237.8 | 3446.4 |
| 77.5°  | 149.1  | 187.4  | 316.8  | 542.5  | 1136.5 | 1240.7 | 1772.7 | 1516.6 | 2134.4 | 1781.9 | 1851.8 |
| 80°    | 89.7   | 112.2  | 145.2  | 205.9  | 483.1  | 510.9  | 756.4  | 609.8  | 872.5  | 662.6  | 642.8  |
| 82.5°  | 48.8   | 60.8   | 72.6   | 101.7  | 179.5  | 199.3  | 261.4  | 235.0  | 279.9  | 239.0  | 233.6  |
| 85°    | 19.8   | 26.4   | 27.7   | 40.9   | 59.4   | 68.6   | 83.2   | 89.7   | 109.6  | 100.4  | 97.7   |
| 87.5°  | 0.0    | 1.3    | 0.0    | 2.7    | 0.0    | 2.7    | 0.0    | 4.0    | 4.0    | 6.6    | 7.9    |
| 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°  | 12.3   | 13.3   | 11.8   | 10.2   | 8.7    | 7.2    | 6.6    | 6.1    | 5.6    | 5.1    | 4.9    |
| 100°   | 32.2   | 32.7   | 32.2   | 31.7   | 31.2   | 30.7   | 29.9   | 29.2   | 28.4   | 27.6   | 27.4   |
| 102.5° | 52.0   | 52.2   | 52.0   | 51.7   | 51.4   | 51.1   | 50.6   | 50.1   | 49.6   | 49.1   | 49.3   |
| 105°   | 72.4   | 72.6   | 72.6   | 72.6   | 72.6   | 72.6   | 72.1   | 71.6   | 71.1   | 70.6   | 71.0   |
| 107.5° | 94.6   | 95.1   | 94.9   | 94.6   | 94.3   | 94.1   | 93.9   | 93.6   | 93.3   | 93.1   | 93.3   |
| 110°   | 116.1  | 116.6  | 116.6  | 116.6  | 116.6  | 116.6  | 116.4  | 116.1  | 115.8  | 115.6  | 115.8  |



REPORT NUMBER: P227601

CATALOG NUMBER: ISC-AF-600-LED-E1-T2-ULG

**CANDELA DISTRIBUTION (continued):**

|        | 52.5° | 55°   | 57.5° | 60°   | 62.5° | 65°   | 67.5° | 70°   | 72.5° | 75°   | 77°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 138.6 | 139.1 | 139.1 | 139.1 | 139.1 | 139.1 | 138.9 | 138.6 | 138.3 | 138.1 | 138.5 |
| 115°   | 161.1 | 161.6 | 161.6 | 161.6 | 161.6 | 161.6 | 161.6 | 161.6 | 161.6 | 161.6 | 162.0 |
| 117.5° | 183.9 | 184.1 | 184.3 | 184.6 | 184.9 | 185.2 | 184.9 | 184.6 | 184.3 | 184.1 | 184.5 |
| 120°   | 208.2 | 208.7 | 208.7 | 208.7 | 208.7 | 208.7 | 208.7 | 208.7 | 208.7 | 208.7 | 209.1 |
| 122.5° | 233.0 | 233.2 | 233.2 | 233.2 | 233.2 | 233.2 | 233.4 | 233.7 | 234.1 | 234.3 | 235.1 |
| 125°   | 258.6 | 258.8 | 259.0 | 259.3 | 259.6 | 259.8 | 259.8 | 259.8 | 259.8 | 259.8 | 260.4 |
| 127.5° | 283.9 | 284.4 | 284.2 | 283.9 | 283.6 | 283.4 | 283.6 | 283.9 | 284.2 | 284.4 | 285.0 |
| 130°   | 307.4 | 307.9 | 307.9 | 307.9 | 307.9 | 307.9 | 308.1 | 308.4 | 308.7 | 308.9 | 309.5 |
| 132.5° | 331.6 | 332.5 | 332.5 | 332.5 | 332.5 | 332.5 | 332.7 | 333.0 | 333.3 | 333.5 | 334.1 |
| 135°   | 355.2 | 356.0 | 356.0 | 356.0 | 356.0 | 356.0 | 356.2 | 356.5 | 356.8 | 357.0 | 357.4 |
| 137.5° | 377.0 | 377.5 | 377.5 | 377.5 | 377.5 | 377.5 | 377.7 | 378.0 | 378.3 | 378.5 | 379.3 |
| 140°   | 398.7 | 399.0 | 399.0 | 399.0 | 399.0 | 399.0 | 399.5 | 400.0 | 400.5 | 401.0 | 401.8 |
| 142.5° | 420.9 | 421.5 | 421.5 | 421.5 | 421.5 | 421.5 | 421.7 | 422.0 | 422.3 | 422.5 | 423.1 |
| 145°   | 443.4 | 444.0 | 443.8 | 443.4 | 443.1 | 442.9 | 443.1 | 443.4 | 443.8 | 444.0 | 444.6 |
| 147.5° | 464.2 | 464.4 | 463.9 | 463.4 | 462.9 | 462.4 | 462.6 | 462.9 | 463.2 | 463.4 | 464.0 |
| 150°   | 481.6 | 481.8 | 481.3 | 480.8 | 480.3 | 479.8 | 479.8 | 479.8 | 479.8 | 479.8 | 480.6 |
| 152.5° | 498.0 | 498.2 | 498.0 | 497.7 | 497.4 | 497.2 | 497.2 | 497.2 | 497.2 | 497.2 | 497.8 |
| 155°   | 515.4 | 515.6 | 515.4 | 515.1 | 514.7 | 514.5 | 514.7 | 515.1 | 515.4 | 515.6 | 516.2 |
| 157.5° | 530.9 | 530.9 | 530.4 | 529.9 | 529.4 | 528.9 | 529.1 | 529.4 | 529.7 | 529.9 | 530.9 |
| 160°   | 544.2 | 544.2 | 543.7 | 543.2 | 542.7 | 542.2 | 542.2 | 542.2 | 542.2 | 542.2 | 542.8 |
| 162.5° | 554.2 | 554.4 | 553.9 | 553.4 | 552.9 | 552.4 | 551.9 | 551.4 | 550.9 | 550.3 | 550.8 |
| 165°   | 565.5 | 565.7 | 564.9 | 564.2 | 563.4 | 562.6 | 562.1 | 561.6 | 561.1 | 560.6 | 561.0 |
| 167.5° | 572.9 | 572.9 | 572.3 | 571.8 | 571.3 | 570.8 | 571.0 | 571.3 | 571.6 | 571.8 | 572.6 |
| 170°   | 578.2 | 578.0 | 577.8 | 577.5 | 577.1 | 576.9 | 577.5 | 578.0 | 578.5 | 579.0 | 580.0 |
| 172.5° | 581.9 | 582.1 | 581.5 | 581.0 | 580.5 | 580.0 | 580.2 | 580.5 | 580.8 | 581.0 | 581.6 |
| 175°   | 585.9 | 586.2 | 585.3 | 584.6 | 583.9 | 583.1 | 582.6 | 582.1 | 581.5 | 581.0 | 581.6 |
| 177.5° | 590.2 | 590.2 | 589.4 | 588.7 | 588.0 | 587.2 | 587.2 | 587.2 | 587.2 | 587.2 | 587.8 |
| 180°   | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 |



REPORT NUMBER: P227601

CATALOG NUMBER: ISC-AF-600-LED-E1-T2-ULG

**CANDELA DISTRIBUTION (continued):**

|        | 77.5°  | 80°    | 82.5°  | 85°    | 87.5°  | 90°    | 95°   | 100°  | 102.5° | 105°  | 107.5° |
|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|-------|--------|
| 0°     | 522.7  | 522.7  | 522.7  | 522.7  | 522.7  | 522.7  | 522.7 | 522.7 | 522.7  | 522.7 | 522.7  |
| 2.5°   | 526.6  | 530.6  | 525.4  | 525.4  | 518.7  | 522.7  | 518.7 | 514.7 | 508.2  | 509.5 | 500.2  |
| 5°     | 535.9  | 538.6  | 531.9  | 529.3  | 525.4  | 524.1  | 516.1 | 508.2 | 498.9  | 498.9 | 488.4  |
| 7.5°   | 545.1  | 545.1  | 535.9  | 535.9  | 526.6  | 524.1  | 512.1 | 498.9 | 485.7  | 484.5 | 468.6  |
| 10°    | 550.4  | 549.1  | 537.3  | 537.3  | 524.1  | 522.7  | 508.2 | 488.4 | 469.9  | 464.6 | 442.2  |
| 12.5°  | 561.0  | 559.7  | 545.1  | 542.5  | 525.4  | 525.4  | 504.2 | 477.8 | 451.4  | 442.2 | 410.5  |
| 15°    | 574.2  | 575.5  | 558.3  | 554.3  | 534.6  | 533.3  | 504.2 | 464.6 | 429.0  | 414.5 | 376.1  |
| 17.5°  | 595.3  | 596.6  | 572.9  | 568.9  | 545.1  | 541.1  | 505.5 | 448.8 | 398.6  | 382.8 | 348.4  |
| 20°    | 623.0  | 619.1  | 587.4  | 586.0  | 554.3  | 550.4  | 504.2 | 425.0 | 368.3  | 352.4 | 322.0  |
| 22.5°  | 657.3  | 653.4  | 612.4  | 608.5  | 571.5  | 565.0  | 502.9 | 400.0 | 340.5  | 323.4 | 303.6  |
| 25°    | 704.8  | 699.6  | 649.4  | 644.2  | 597.9  | 587.4  | 501.6 | 373.6 | 316.8  | 303.6 | 291.7  |
| 27.5°  | 764.2  | 753.7  | 692.9  | 687.7  | 625.6  | 612.4  | 496.3 | 343.2 | 293.1  | 283.8 | 278.5  |
| 30°    | 835.5  | 826.2  | 748.4  | 740.5  | 662.6  | 645.5  | 491.0 | 315.5 | 275.9  | 271.9 | 267.9  |
| 32.5°  | 920.0  | 910.7  | 815.7  | 806.5  | 710.1  | 685.1  | 481.8 | 293.1 | 265.4  | 265.4 | 260.0  |
| 35°    | 1008.4 | 1000.5 | 888.3  | 881.7  | 762.9  | 730.0  | 469.9 | 273.2 | 256.0  | 256.0 | 250.8  |
| 37.5°  | 1087.6 | 1094.3 | 967.5  | 962.3  | 815.7  | 774.8  | 456.7 | 260.0 | 248.2  | 245.5 | 240.2  |
| 40°    | 1173.4 | 1189.3 | 1041.5 | 1045.4 | 871.1  | 822.4  | 440.9 | 249.5 | 239.0  | 236.3 | 235.0  |
| 42.5°  | 1260.6 | 1290.9 | 1119.3 | 1133.8 | 926.6  | 871.1  | 429.0 | 242.8 | 235.0  | 229.7 | 228.3  |
| 45°    | 1368.8 | 1412.4 | 1215.7 | 1243.4 | 991.2  | 930.6  | 425.0 | 235.0 | 223.1  | 216.5 | 212.5  |
| 47.5°  | 1503.4 | 1561.5 | 1334.4 | 1366.2 | 1077.1 | 1001.9 | 432.9 | 232.3 | 215.1  | 207.2 | 199.3  |
| 50°    | 1663.1 | 1718.6 | 1475.7 | 1488.9 | 1173.4 | 1079.7 | 450.1 | 236.3 | 212.5  | 200.6 | 188.7  |
| 52.5°  | 1832.1 | 1874.4 | 1624.9 | 1610.3 | 1273.8 | 1156.2 | 469.9 | 237.6 | 205.9  | 194.1 | 179.5  |
| 55°    | 2006.3 | 2030.0 | 1763.5 | 1725.2 | 1364.8 | 1232.9 | 496.3 | 236.3 | 200.6  | 187.4 | 169.0  |
| 57.5°  | 2176.6 | 2184.5 | 1886.2 | 1849.3 | 1454.5 | 1323.9 | 529.3 | 232.3 | 192.7  | 179.5 | 159.7  |
| 60°    | 2342.9 | 2356.1 | 2022.2 | 1987.8 | 1552.2 | 1441.3 | 576.8 | 225.7 | 182.2  | 172.9 | 151.8  |
| 62.5°  | 2525.1 | 2568.6 | 2184.5 | 2189.8 | 1686.8 | 1624.9 | 666.6 | 217.8 | 171.5  | 161.0 | 139.9  |
| 65°    | 2773.2 | 2939.6 | 2452.4 | 2576.5 | 1945.7 | 1970.7 | 838.2 | 195.4 | 157.0  | 143.8 | 129.4  |
| 67.5°  | 3394.9 | 3577.1 | 3103.2 | 3153.3 | 2551.4 | 2402.3 | 946.4 | 166.3 | 138.6  | 129.4 | 120.1  |
| 70°    | 4173.6 | 4043.0 | 3706.5 | 3402.8 | 2905.2 | 2469.6 | 832.9 | 139.9 | 122.8  | 117.4 | 112.2  |
| 72.5°  | 4387.5 | 3918.9 | 3641.7 | 3186.4 | 2686.1 | 2154.1 | 637.5 | 120.1 | 109.6  | 106.9 | 102.9  |
| 75°    | 3855.6 | 3177.1 | 3192.9 | 2531.7 | 2226.8 | 1642.0 | 435.6 | 102.9 | 95.0   | 93.7  | 92.4   |
| 77.5°  | 2465.6 | 1632.7 | 1987.8 | 1251.3 | 1285.6 | 760.3  | 212.5 | 85.8  | 81.8   | 81.8  | 79.2   |
| 80°    | 876.5  | 543.8  | 615.1  | 394.7  | 359.1  | 241.5  | 114.9 | 68.6  | 66.0   | 67.3  | 66.0   |
| 82.5°  | 262.7  | 208.6  | 204.6  | 159.7  | 124.1  | 101.7  | 63.3  | 52.8  | 50.1   | 51.5  | 48.8   |
| 85°    | 105.6  | 81.8   | 68.6   | 52.8   | 43.6   | 39.6   | 34.3  | 35.6  | 31.7   | 34.3  | 30.4   |
| 87.5°  | 6.6    | 5.3    | 4.0    | 5.3    | 0.0    | 2.7    | 6.6   | 5.3   | 1.3    | 5.3   | 4.0    |
| 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°  | 4.9    | 4.6    | 4.3    | 4.1    | 4.1    | 4.1    | 4.1   | 4.6   | 4.9    | 5.1   | 5.6    |
| 100°   | 27.4   | 27.1   | 26.8   | 26.6   | 26.1   | 25.6   | 26.6  | 27.1  | 27.4   | 27.6  | 28.4   |
| 102.5° | 49.3   | 49.6   | 49.9   | 50.1   | 49.6   | 49.1   | 50.1  | 49.6  | 49.3   | 49.1  | 49.6   |
| 105°   | 71.1   | 71.6   | 72.1   | 72.6   | 71.6   | 70.6   | 72.6  | 71.6  | 71.1   | 70.6  | 71.1   |
| 107.5° | 93.3   | 93.6   | 93.9   | 94.1   | 93.6   | 93.1   | 94.1  | 93.6  | 93.3   | 93.1  | 93.3   |
| 110°   | 115.8  | 116.1  | 116.4  | 116.6  | 116.1  | 115.6  | 116.6 | 116.1 | 115.8  | 115.6 | 115.8  |



REPORT NUMBER: P227601  
 CATALOG NUMBER: ISC-AF-600-LED-E1-T2-ULG

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

|        | 77.5° | 80°   | 82.5° | 85°   | 87.5° | 90°   | 95°   | 100°  | 102.5° | 105°  | 107.5° |        |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|--------|
| 112.5° | 138.6 | 139.1 | 139.6 | 140.1 | 139.1 | 138.1 | 140.1 | 139.1 | 138.6  | 138.1 | 138.3  | 0°     |
| 115°   | 162.1 | 162.6 | 163.2 | 163.7 | 163.2 | 162.6 | 163.7 | 162.6 | 162.1  | 161.6 | 161.6  | 2.5°   |
| 117.5° | 184.6 | 185.2 | 185.7 | 186.2 | 185.2 | 184.1 | 186.2 | 185.2 | 184.6  | 184.1 | 184.3  | 5°     |
| 120°   | 209.2 | 209.7 | 210.2 | 210.7 | 209.7 | 208.7 | 210.7 | 209.7 | 209.2  | 208.7 | 208.7  | 7.5°   |
| 122.5° | 235.3 | 236.3 | 237.3 | 238.3 | 237.8 | 237.3 | 238.3 | 236.3 | 235.3  | 234.3 | 234.1  | 10°    |
| 125°   | 260.6 | 261.4 | 262.1 | 262.9 | 262.4 | 261.9 | 262.9 | 261.4 | 260.6  | 259.8 | 259.8  | 12.5°  |
| 127.5° | 285.2 | 285.9 | 286.6 | 287.4 | 285.9 | 284.4 | 287.4 | 285.9 | 285.2  | 284.4 | 284.2  | 15°    |
| 130°   | 309.7 | 310.5 | 311.2 | 312.0 | 311.0 | 310.0 | 312.0 | 310.5 | 309.7  | 308.9 | 308.7  | 17.5°  |
| 132.5° | 334.3 | 335.0 | 335.7 | 336.6 | 335.5 | 334.5 | 336.6 | 335.0 | 334.3  | 333.5 | 333.3  | 20°    |
| 135°   | 357.5 | 358.0 | 358.5 | 359.1 | 358.5 | 358.0 | 359.1 | 358.0 | 357.5  | 357.0 | 356.8  | 22.5°  |
| 137.5° | 379.5 | 380.5 | 381.6 | 382.6 | 381.6 | 380.5 | 382.6 | 380.5 | 379.5  | 378.5 | 378.3  | 25°    |
| 140°   | 402.0 | 403.0 | 404.1 | 405.1 | 404.1 | 403.0 | 405.1 | 403.0 | 402.0  | 401.0 | 400.5  | 27.5°  |
| 142.5° | 423.3 | 424.0 | 424.7 | 425.5 | 425.0 | 424.5 | 425.5 | 424.0 | 423.3  | 422.5 | 422.3  | 30°    |
| 145°   | 444.8 | 445.5 | 446.2 | 447.0 | 446.0 | 445.0 | 447.0 | 445.5 | 444.8  | 444.0 | 443.8  | 32.5°  |
| 147.5° | 464.2 | 464.9 | 465.6 | 466.5 | 464.9 | 463.4 | 466.5 | 464.9 | 464.2  | 463.4 | 463.2  | 35°    |
| 150°   | 480.8 | 481.8 | 482.8 | 483.9 | 482.3 | 480.8 | 483.9 | 481.8 | 480.8  | 479.8 | 479.8  | 37.5°  |
| 152.5° | 498.0 | 498.7 | 499.4 | 500.2 | 498.7 | 497.2 | 500.2 | 498.7 | 498.0  | 497.2 | 497.2  | 40°    |
| 155°   | 516.4 | 517.1 | 517.8 | 518.6 | 517.6 | 516.6 | 518.6 | 517.1 | 516.4  | 515.6 | 515.4  | 42.5°  |
| 157.5° | 531.1 | 532.4 | 533.8 | 535.0 | 533.5 | 531.9 | 535.0 | 532.4 | 531.1  | 529.9 | 529.7  | 45°    |
| 160°   | 543.0 | 543.7 | 544.4 | 545.2 | 544.2 | 543.2 | 545.2 | 543.7 | 543.0  | 542.2 | 542.2  | 47.5°  |
| 162.5° | 550.9 | 551.4 | 551.9 | 552.4 | 550.9 | 549.3 | 552.4 | 551.4 | 550.9  | 550.3 | 550.9  | 50°    |
| 165°   | 561.1 | 561.6 | 562.1 | 562.6 | 561.6 | 560.6 | 562.6 | 561.6 | 561.1  | 560.6 | 561.1  | 52.5°  |
| 167.5° | 572.9 | 573.9 | 574.9 | 575.9 | 574.9 | 573.9 | 575.9 | 573.9 | 572.9  | 571.8 | 571.6  | 55°    |
| 170°   | 580.2 | 581.5 | 582.9 | 584.1 | 583.1 | 582.1 | 584.1 | 581.5 | 580.2  | 579.0 | 578.5  | 57.5°  |
| 172.5° | 581.9 | 582.6 | 583.3 | 584.1 | 582.6 | 581.0 | 584.1 | 582.6 | 581.9  | 581.0 | 580.8  | 60°    |
| 175°   | 581.9 | 582.6 | 583.3 | 584.1 | 582.6 | 581.0 | 584.1 | 582.6 | 581.9  | 581.0 | 581.5  | 62.5°  |
| 177.5° | 588.0 | 588.7 | 589.4 | 590.2 | 588.7 | 587.2 | 590.2 | 588.7 | 588.0  | 587.2 | 587.2  | 65°    |
| 180°   | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 | 589.2  | 589.2 | 589.2  | 67.5°  |
|        |       |       |       |       |       |       |       |       |        |       |        | 70°    |
|        |       |       |       |       |       |       |       |       |        |       |        | 72.5°  |
|        |       |       |       |       |       |       |       |       |        |       |        | 75°    |
|        |       |       |       |       |       |       |       |       |        |       |        | 77.5°  |
|        |       |       |       |       |       |       |       |       |        |       |        | 80°    |
|        |       |       |       |       |       |       |       |       |        |       |        | 82.5°  |
|        |       |       |       |       |       |       |       |       |        |       |        | 85°    |
|        |       |       |       |       |       |       |       |       |        |       |        | 87.5°  |
|        |       |       |       |       |       |       |       |       |        |       |        | 90°    |
|        |       |       |       |       |       |       |       |       |        |       |        | 92.5°  |
|        |       |       |       |       |       |       |       |       |        |       |        | 95°    |
|        |       |       |       |       |       |       |       |       |        |       |        | 97.5°  |
|        |       |       |       |       |       |       |       |       |        |       |        | 100°   |
|        |       |       |       |       |       |       |       |       |        |       |        | 102.5° |
|        |       |       |       |       |       |       |       |       |        |       |        | 105°   |
|        |       |       |       |       |       |       |       |       |        |       |        | 107.5° |
|        |       |       |       |       |       |       |       |       |        |       |        | 110°   |

NUMBER: P227601  
 NUMBER: ISC-AF-600-LED-E1-T2-ULG

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

| 110°  | 112.5° | 115°  | 117.5° | 120°  | 122.5° | 125°  | 127.5° | 130°  | 135°  | 145°  | 110°   |       |
|-------|--------|-------|--------|-------|--------|-------|--------|-------|-------|-------|--------|-------|
| 522.7 | 522.7  | 522.7 | 522.7  | 522.7 | 522.7  | 522.7 | 522.7  | 522.7 | 522.7 | 522.7 | 112.5° | 138.6 |
| 506.9 | 497.7  | 501.6 | 497.7  | 500.2 | 492.3  | 495.0 | 488.4  | 488.4 | 487.0 | 480.5 | 115°   | 161.6 |
| 489.7 | 480.5  | 479.2 | 469.9  | 471.2 | 460.6  | 459.3 | 447.4  | 447.4 | 436.9 | 417.1 | 117.5° | 184.6 |
| 466.0 | 451.4  | 450.1 | 431.6  | 430.3 | 415.8  | 410.5 | 397.3  | 396.0 | 384.1 | 372.3 | 120°   | 208.7 |
| 435.6 | 413.2  | 409.2 | 385.4  | 386.8 | 370.9  | 369.6 | 360.4  | 360.4 | 355.1 | 355.1 | 122.5° | 233.7 |
| 401.3 | 376.1  | 373.6 | 355.1  | 356.4 | 345.9  | 347.2 | 341.9  | 344.5 | 347.2 | 356.4 | 125°   | 259.8 |
| 369.6 | 349.7  | 347.2 | 335.2  | 336.6 | 334.0  | 337.9 | 337.9  | 341.9 | 348.4 | 364.3 | 127.5° | 283.9 |
| 343.2 | 326.0  | 327.3 | 322.0  | 327.3 | 326.0  | 334.0 | 332.7  | 340.5 | 348.4 | 368.3 | 130°   | 308.4 |
| 319.5 | 310.2  | 314.1 | 312.8  | 319.5 | 319.5  | 326.0 | 327.3  | 334.0 | 344.5 | 366.9 | 132.5° | 333.0 |
| 303.6 | 301.0  | 304.9 | 304.9  | 310.2 | 311.5  | 318.1 | 322.0  | 326.0 | 336.6 | 356.4 | 135°   | 356.5 |
| 294.3 | 293.1  | 297.0 | 298.3  | 302.3 | 303.6  | 310.2 | 310.2  | 316.8 | 323.4 | 334.0 | 137.5° | 378.0 |
| 281.1 | 278.5  | 283.8 | 283.8  | 289.1 | 287.8  | 295.6 | 293.1  | 299.6 | 302.3 | 304.9 | 140°   | 400.0 |
| 271.9 | 267.9  | 271.9 | 270.6  | 274.6 | 270.6  | 274.6 | 270.6  | 274.6 | 274.6 | 270.6 | 142.5° | 422.0 |
| 262.7 | 258.7  | 260.0 | 254.7  | 258.7 | 253.4  | 254.7 | 249.5  | 252.2 | 249.5 | 250.8 | 145°   | 443.4 |
| 253.4 | 248.2  | 248.2 | 241.5  | 241.5 | 235.0  | 237.6 | 232.3  | 237.6 | 241.5 | 240.2 | 147.5° | 462.9 |
| 240.2 | 236.3  | 236.3 | 231.0  | 233.6 | 231.0  | 236.3 | 233.6  | 235.0 | 229.7 | 220.4 | 150°   | 479.8 |
| 232.3 | 235.0  | 233.6 | 237.6  | 235.0 | 231.0  | 227.0 | 219.1  | 217.8 | 215.1 | 209.9 | 152.5° | 497.2 |
| 220.4 | 223.1  | 216.5 | 221.8  | 217.8 | 219.1  | 216.5 | 212.5  | 209.9 | 207.2 | 201.9 | 155°   | 515.1 |
| 203.3 | 203.3  | 197.9 | 205.9  | 201.9 | 209.9  | 207.2 | 207.2  | 204.6 | 200.6 | 196.7 | 157.5° | 529.4 |
| 188.7 | 190.1  | 184.7 | 191.4  | 188.7 | 199.3  | 197.9 | 201.9  | 201.9 | 199.3 | 188.7 | 160°   | 542.2 |
| 179.5 | 176.9  | 172.9 | 179.5  | 178.2 | 187.4  | 188.7 | 196.7  | 195.4 | 196.7 | 187.4 | 162.5° | 551.4 |
| 171.5 | 166.3  | 162.3 | 166.3  | 166.3 | 174.2  | 176.9 | 186.1  | 187.4 | 190.1 | 184.7 | 165°   | 561.6 |
| 162.3 | 155.8  | 153.1 | 155.8  | 155.8 | 163.7  | 167.7 | 174.2  | 178.2 | 186.1 | 183.5 | 167.5° | 571.3 |
| 154.5 | 145.2  | 142.6 | 145.2  | 146.5 | 154.5  | 158.4 | 165.0  | 170.3 | 180.9 | 179.5 | 170°   | 578.0 |
| 145.2 | 137.3  | 134.6 | 138.6  | 139.9 | 147.8  | 151.8 | 158.4  | 162.3 | 174.2 | 174.2 | 172.5° | 580.5 |
| 134.6 | 128.1  | 128.1 | 129.4  | 132.0 | 139.9  | 142.6 | 151.8  | 153.1 | 167.7 | 169.0 | 175°   | 582.1 |
| 125.4 | 121.4  | 121.4 | 122.8  | 125.4 | 132.0  | 133.3 | 142.6  | 143.8 | 158.4 | 162.3 | 177.5° | 587.2 |
| 117.4 | 114.9  | 114.9 | 116.1  | 117.4 | 122.8  | 124.1 | 133.3  | 136.0 | 149.1 | 155.8 | 180°   | 589.2 |
| 109.6 | 106.9  | 105.6 | 105.6  | 109.6 | 113.5  | 116.1 | 125.4  | 126.7 | 138.6 | 146.5 |        |       |
| 100.4 | 97.7   | 97.7  | 96.4   | 100.4 | 102.9  | 108.2 | 113.5  | 116.1 | 128.1 | 133.3 |        |       |
| 91.0  | 88.5   | 88.5  | 87.2   | 89.7  | 95.0   | 96.4  | 101.7  | 102.9 | 113.5 | 118.8 |        |       |
| 79.2  | 76.5   | 76.5  | 76.5   | 79.2  | 80.5   | 81.8  | 87.2   | 89.7  | 99.0  | 104.2 |        |       |
| 66.0  | 63.3   | 64.7  | 63.3   | 67.3  | 62.0   | 66.0  | 71.3   | 74.0  | 79.2  | 76.5  |        |       |
| 50.1  | 46.2   | 47.6  | 47.6   | 48.8  | 44.9   | 47.6  | 50.1   | 52.8  | 56.8  | 55.4  |        |       |
| 31.7  | 27.7   | 30.4  | 27.7   | 30.4  | 26.4   | 29.1  | 29.1   | 31.7  | 29.1  | 27.7  |        |       |
| 6.6   | 2.7    | 6.6   | 2.7    | 7.9   | 0.0    | 4.0   | 0.0    | 2.7   | 1.3   | 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   |        |       |
| 6.1   | 6.6    | 7.2   | 8.7    | 10.2  | 11.8   | 13.3  | 12.3   | 11.3  | 9.2   | 4.1   |        |       |
| 29.2  | 29.9   | 30.7  | 31.2   | 31.7  | 32.2   | 32.7  | 32.2   | 31.7  | 30.7  | 22.5  |        |       |
| 50.1  | 50.6   | 51.1  | 51.4   | 51.7  | 52.0   | 52.2  | 52.0   | 51.7  | 51.1  | 46.0  |        |       |
| 71.6  | 72.1   | 72.6  | 72.6   | 72.6  | 72.6   | 72.6  | 72.4   | 72.1  | 71.6  | 67.5  |        |       |
| 93.6  | 93.9   | 94.1  | 94.3   | 94.6  | 94.9   | 95.1  | 94.6   | 94.1  | 93.1  | 90.0  |        |       |
| 116.1 | 116.4  | 116.6 | 116.6  | 116.6 | 116.6  | 116.6 | 116.1  | 115.6 | 114.6 | 112.5 |        |       |

'227601  
 ISC-AF-600-LED-E1-T2-ULG

REPORT NUMBER: P227601  
 CATALOG NUMBER: ISC-AF-60

**TION (continued):**

**CANDELA DISTRIBUTION (con**

| 112.5° | 115°  | 117.5° | 120°  | 122.5° | 125°  | 127.5° | 130°  | 135°  | 145°  |        | 155°  | 165°  |
|--------|-------|--------|-------|--------|-------|--------|-------|-------|-------|--------|-------|-------|
| 138.9  | 139.1 | 139.1  | 139.1 | 139.1  | 139.1 | 138.6  | 138.1 | 137.1 | 135.0 | 0°     | 522.7 | 522.7 |
| 161.6  | 161.6 | 161.6  | 161.6 | 161.6  | 161.6 | 161.1  | 160.6 | 159.6 | 157.5 | 2.5°   | 473.8 | 468.6 |
| 184.9  | 185.2 | 184.9  | 184.6 | 184.3  | 184.1 | 183.9  | 183.6 | 183.1 | 181.1 | 5°     | 406.5 | 397.3 |
| 208.7  | 208.7 | 208.7  | 208.7 | 208.7  | 208.7 | 208.2  | 207.7 | 206.6 | 205.6 | 7.5°   | 365.6 | 362.9 |
| 233.4  | 233.2 | 233.2  | 233.2 | 233.2  | 233.2 | 233.0  | 232.7 | 232.2 | 231.2 | 10°    | 357.7 | 361.7 |
| 259.8  | 259.8 | 259.6  | 259.3 | 259.0  | 258.8 | 258.6  | 258.3 | 257.8 | 256.8 | 12.5°  | 366.9 | 373.6 |
| 283.6  | 283.4 | 283.6  | 283.9 | 284.2  | 284.4 | 283.9  | 283.4 | 282.3 | 280.3 | 15°    | 378.8 | 390.7 |
| 308.1  | 307.9 | 307.9  | 307.9 | 307.9  | 307.9 | 307.4  | 306.9 | 305.9 | 304.8 | 17.5°  | 388.1 | 403.9 |
| 332.7  | 332.5 | 332.5  | 332.5 | 332.5  | 332.5 | 331.6  | 330.9 | 329.4 | 328.4 | 20°    | 389.3 | 405.2 |
| 356.2  | 356.0 | 356.0  | 356.0 | 356.0  | 356.0 | 355.2  | 354.5 | 352.9 | 352.9 | 22.5°  | 377.5 | 388.1 |
| 377.7  | 377.5 | 377.5  | 377.5 | 377.5  | 377.5 | 377.0  | 376.4 | 375.4 | 375.4 | 25°    | 347.2 | 352.4 |
| 399.5  | 399.0 | 399.0  | 399.0 | 399.0  | 399.0 | 398.7  | 398.4 | 397.9 | 396.9 | 27.5°  | 308.8 | 307.5 |
| 421.7  | 421.5 | 421.5  | 421.5 | 421.5  | 421.5 | 420.9  | 420.4 | 419.4 | 419.4 | 30°    | 269.2 | 266.6 |
| 443.1  | 442.9 | 443.1  | 443.4 | 443.8  | 444.0 | 443.4  | 442.9 | 441.9 | 440.9 | 32.5°  | 254.7 | 245.5 |
| 462.6  | 462.4 | 462.9  | 463.4 | 463.9  | 464.4 | 464.2  | 463.9 | 463.4 | 462.4 | 35°    | 232.3 | 229.7 |
| 479.8  | 479.8 | 480.3  | 480.8 | 481.3  | 481.8 | 481.6  | 481.3 | 480.8 | 479.8 | 37.5°  | 224.4 | 246.8 |
| 497.2  | 497.2 | 497.4  | 497.7 | 498.0  | 498.2 | 498.0  | 497.7 | 497.2 | 496.1 | 40°    | 215.1 | 242.8 |
| 514.7  | 514.5 | 514.7  | 515.1 | 515.4  | 515.6 | 515.4  | 515.1 | 514.5 | 514.5 | 42.5°  | 207.2 | 223.1 |
| 529.1  | 528.9 | 529.4  | 529.9 | 530.4  | 530.9 | 530.9  | 530.9 | 530.9 | 530.9 | 45°    | 192.7 | 199.3 |
| 542.2  | 542.2 | 542.7  | 543.2 | 543.7  | 544.2 | 544.2  | 544.2 | 544.2 | 544.2 | 47.5°  | 186.1 | 183.5 |
| 551.9  | 552.4 | 552.9  | 553.4 | 553.9  | 554.4 | 554.2  | 553.9 | 553.4 | 553.4 | 50°    | 180.9 | 180.9 |
| 562.1  | 562.6 | 563.4  | 564.2 | 564.9  | 565.7 | 565.5  | 565.2 | 564.7 | 564.7 | 52.5°  | 176.9 | 174.2 |
| 571.0  | 570.8 | 571.3  | 571.8 | 572.3  | 572.9 | 572.9  | 572.9 | 572.9 | 573.9 | 55°    | 171.5 | 169.0 |
| 577.5  | 576.9 | 577.1  | 577.5 | 577.8  | 578.0 | 578.2  | 578.5 | 579.0 | 580.0 | 57.5°  | 167.7 | 161.0 |
| 580.2  | 580.0 | 580.5  | 581.0 | 581.5  | 582.1 | 581.9  | 581.5 | 581.0 | 582.1 | 60°    | 163.7 | 157.0 |
| 582.6  | 583.1 | 583.9  | 584.6 | 585.3  | 586.2 | 585.9  | 585.6 | 585.1 | 585.1 | 62.5°  | 161.0 | 153.1 |
| 587.2  | 587.2 | 588.0  | 588.7 | 589.4  | 590.2 | 590.2  | 590.2 | 590.2 | 591.3 | 65°    | 157.0 | 149.1 |
| 589.2  | 589.2 | 589.2  | 589.2 | 589.2  | 589.2 | 589.2  | 589.2 | 589.2 | 589.2 | 67.5°  | 151.8 | 141.3 |
|        |       |        |       |        |       |        |       |       |       | 70°    | 141.3 | 132.0 |
|        |       |        |       |        |       |        |       |       |       | 72.5°  | 130.6 | 120.1 |
|        |       |        |       |        |       |        |       |       |       | 75°    | 114.9 | 105.6 |
|        |       |        |       |        |       |        |       |       |       | 77.5°  | 96.4  | 85.8  |
|        |       |        |       |        |       |        |       |       |       | 80°    | 72.6  | 66.0  |
|        |       |        |       |        |       |        |       |       |       | 82.5°  | 52.8  | 44.9  |
|        |       |        |       |        |       |        |       |       |       | 85°    | 23.7  | 17.2  |
|        |       |        |       |        |       |        |       |       |       | 87.5°  | 0.0   | 0.0   |
|        |       |        |       |        |       |        |       |       |       | 90°    | 0.0   | 0.0   |
|        |       |        |       |        |       |        |       |       |       | 92.5°  | 0.0   | 0.0   |
|        |       |        |       |        |       |        |       |       |       | 95°    | 1.0   | 1.0   |
|        |       |        |       |        |       |        |       |       |       | 97.5°  | 3.1   | 2.0   |
|        |       |        |       |        |       |        |       |       |       | 100°   | 14.3  | 10.2  |
|        |       |        |       |        |       |        |       |       |       | 102.5° | 38.9  | 32.7  |
|        |       |        |       |        |       |        |       |       |       | 105°   | 62.4  | 57.3  |
|        |       |        |       |        |       |        |       |       |       | 107.5° | 85.9  | 81.8  |
|        |       |        |       |        |       |        |       |       |       | 110°   | 108.4 | 105.4 |



REPORT NUMBER: P227601

CATALOG NUMBER: ISC-AF-600-LED-E1-1

0-LED-E1-T2-ULG

**tinued):**

| 175°  | 180°  |
|-------|-------|
| 522.7 | 522.7 |
| 466.0 | 464.6 |
| 394.7 | 392.0 |
| 362.9 | 361.7 |
| 362.9 | 362.9 |
| 378.8 | 378.8 |
| 397.3 | 397.3 |
| 410.5 | 411.8 |
| 414.5 | 415.8 |
| 394.7 | 394.7 |
| 356.4 | 356.4 |
| 306.3 | 311.5 |
| 261.4 | 266.6 |
| 232.3 | 236.3 |
| 223.1 | 224.4 |
| 245.5 | 246.8 |
| 241.5 | 244.2 |
| 207.2 | 208.6 |
| 186.1 | 186.1 |
| 178.2 | 176.9 |
| 178.2 | 175.5 |
| 183.5 | 182.2 |
| 175.5 | 175.5 |
| 171.5 | 171.5 |
| 167.7 | 167.7 |
| 166.3 | 165.0 |
| 166.3 | 163.7 |
| 163.7 | 159.7 |
| 154.5 | 143.8 |
| 132.0 | 122.8 |
| 106.9 | 105.6 |
| 83.2  | 84.5  |
| 63.3  | 63.3  |
| 46.2  | 38.3  |
| 13.2  | 13.2  |
| 0.0   | 0.0   |
| 0.0   | 0.0   |
| 0.0   | 0.0   |
| 1.0   | 1.0   |
| 2.0   | 2.0   |
| 8.2   | 8.2   |
| 28.6  | 28.6  |
| 55.2  | 55.2  |
| 78.8  | 79.8  |
| 104.3 | 103.3 |

**CANDELA DISTRIBUTION (continued):**

|        | 155°  | 165°  | 175°  |
|--------|-------|-------|-------|
| 112.5° | 132.0 | 128.9 | 126.8 |
| 115°   | 154.5 | 152.4 | 150.4 |
| 117.5° | 178.0 | 175.9 | 173.9 |
| 120°   | 202.5 | 200.5 | 199.5 |
| 122.5° | 228.1 | 226.1 | 225.0 |
| 125°   | 253.7 | 252.7 | 251.6 |
| 127.5° | 278.2 | 276.2 | 275.2 |
| 130°   | 300.7 | 299.7 | 298.7 |
| 132.5° | 325.3 | 324.3 | 321.2 |
| 135°   | 348.8 | 346.8 | 344.7 |
| 137.5° | 372.4 | 371.3 | 368.3 |
| 140°   | 394.9 | 393.8 | 391.8 |
| 142.5° | 416.3 | 417.4 | 415.3 |
| 145°   | 437.8 | 437.8 | 435.8 |
| 147.5° | 458.3 | 457.3 | 454.2 |
| 150°   | 475.7 | 474.6 | 472.6 |
| 152.5° | 493.1 | 494.1 | 491.0 |
| 155°   | 512.5 | 513.5 | 511.5 |
| 157.5° | 527.8 | 528.9 | 526.8 |
| 160°   | 541.1 | 541.1 | 539.1 |
| 162.5° | 550.3 | 551.4 | 548.3 |
| 165°   | 560.6 | 561.6 | 559.6 |
| 167.5° | 570.8 | 571.8 | 568.8 |
| 170°   | 578.0 | 579.0 | 575.9 |
| 172.5° | 580.0 | 582.1 | 579.0 |
| 175°   | 582.1 | 583.1 | 582.1 |
| 177.5° | 587.2 | 588.2 | 586.2 |
| 180°   | 589.2 | 589.2 | 589.2 |

r2-ULG

| <u>180°</u> |
|-------------|
| 126.8       |
| 149.4       |
| 172.9       |
| 197.4       |
| 224.0       |
| 249.6       |
| 273.1       |
| 296.7       |
| 320.2       |
| 343.7       |
| 367.2       |
| 390.8       |
| 413.3       |
| 434.8       |
| 454.2       |
| 471.6       |
| 490.0       |
| 510.5       |
| 524.8       |
| 537.0       |
| 547.3       |
| 558.5       |
| 567.7       |
| 574.9       |
| 578.0       |
| 580.0       |
| 585.1       |
| 589.2       |

(END OF REPORT)