

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: P271474

Luminaire Tested: **ISC-AF-1000-LED-E1-SL4-7027-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271474  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29763)-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-1000-LED-E1-SL4-7027-ULG  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV W/SPILL CONTROL, WITH UPLIGHT  
GLOW  
Light Source: (16) 2700K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

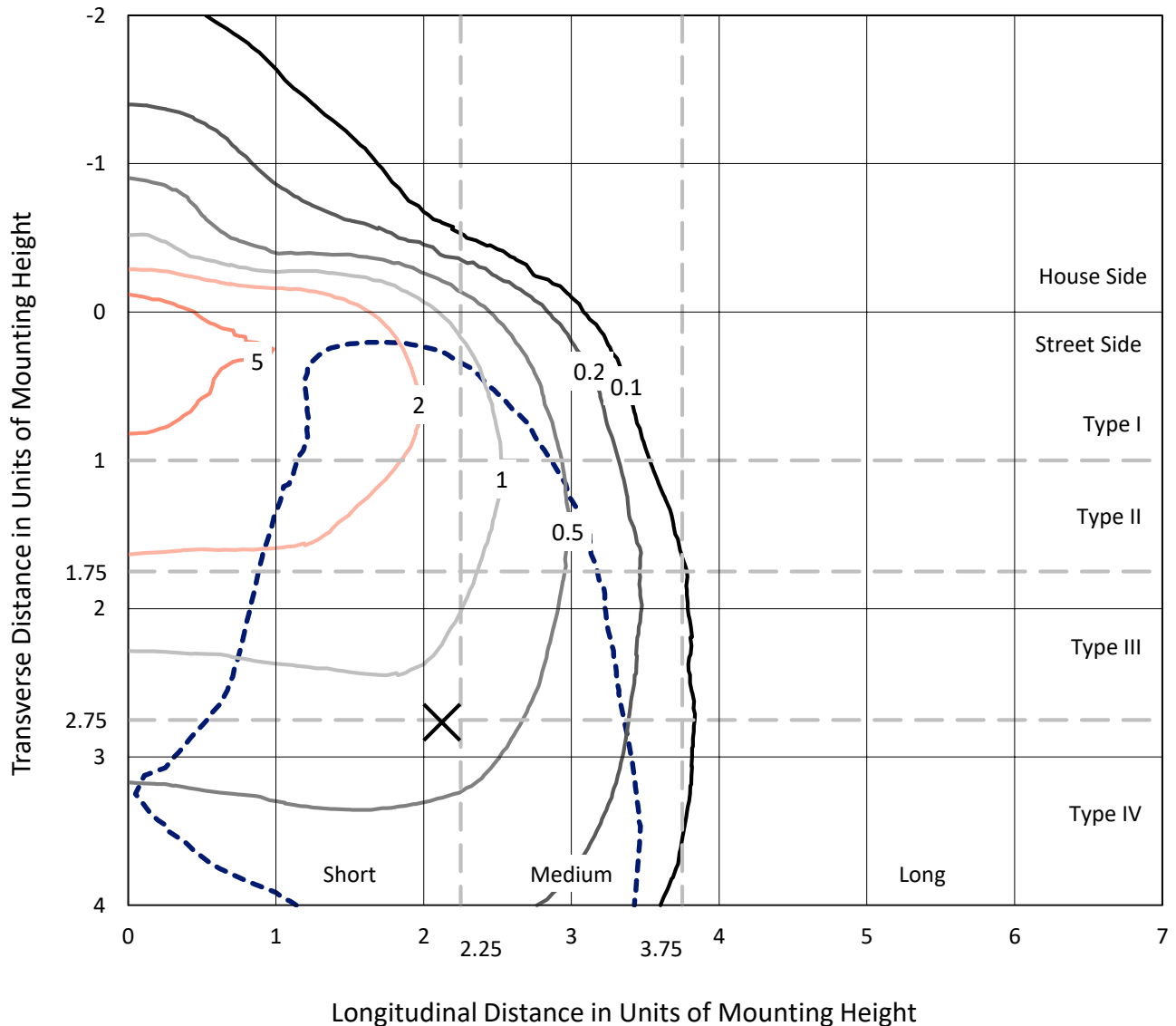
Lumens per Lamp: N/A  
Luminaire Lumens: 5842 lumens  
Efficiency: N/A  
Efficacy: 81.9 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U5 - G2  
  
Input Watts (W): 71.3  
Input Voltage (V): 120  
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

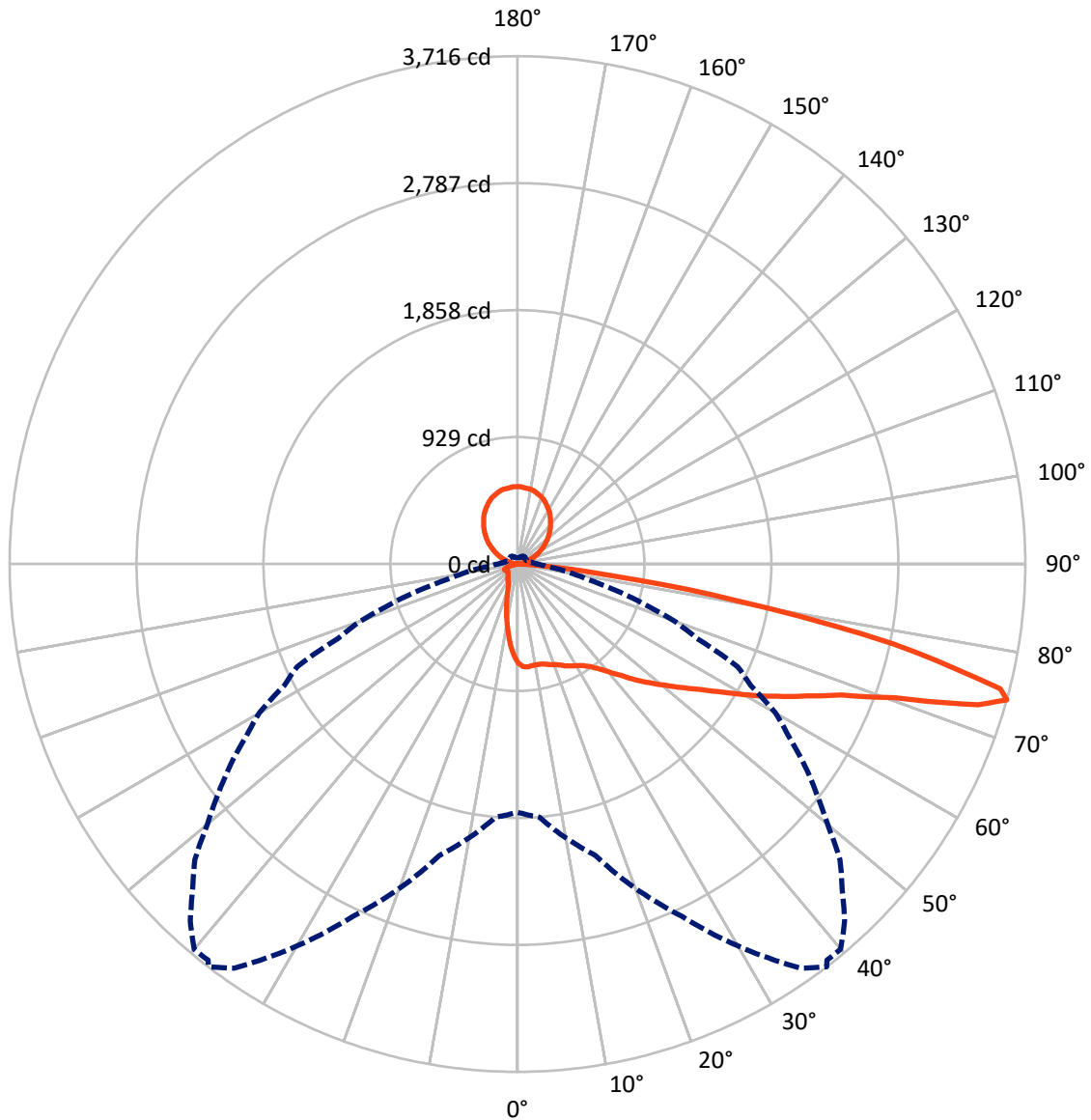


Based on 10 foot mounting height. Maximum calculated value = 7.6 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37.5-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

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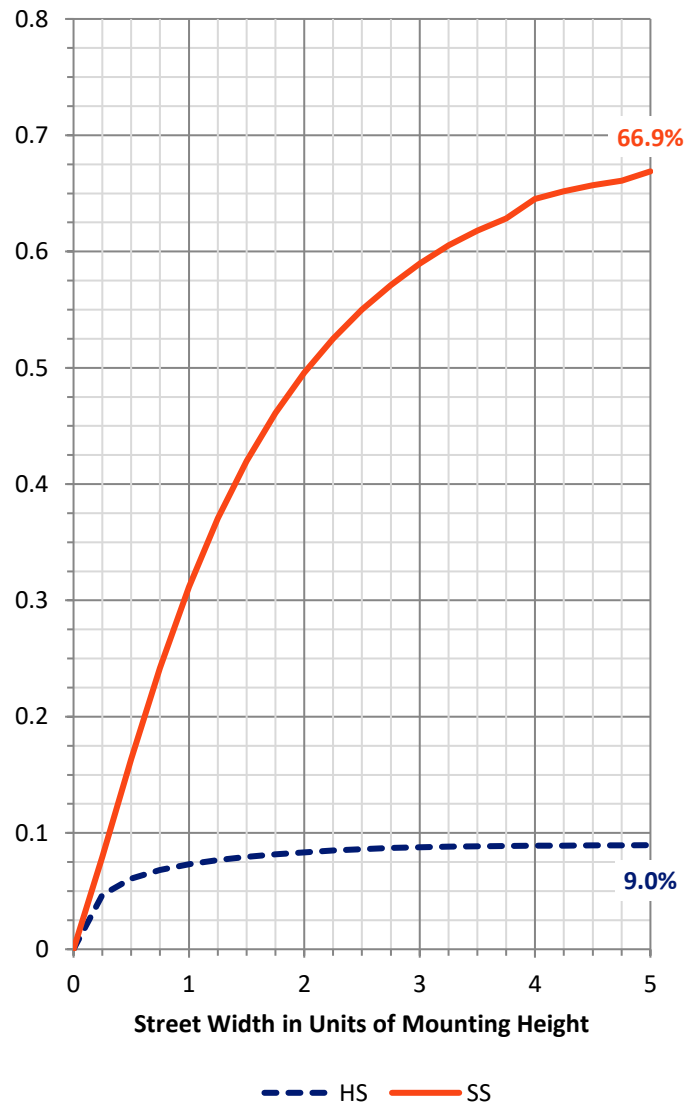
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 526.7    | 699.9  | 1226.6 |
|                    | % Fixture | 9.0      | 12.0   | 21.0   |
| <b>Street Side</b> | Lumens    | 3915.5   | 699.9  | 4615.3 |
|                    | % Fixture | 67.0     | 12.0   | 79.0   |
| <b>Total</b>       | Lumens    | 4442.2   | 1399.8 | 5842.0 |
|                    | % Fixture | 76.0     | 24.0   | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 63.1   | 1.1       |
| 10°-20°   | 160.8  | 2.8       |
| 20°-30°   | 249.1  | 4.3       |
| 30°-40°   | 369.5  | 6.3       |
| 40°-50°   | 568.5  | 9.7       |
| 50°-60°   | 840.3  | 14.4      |
| 60°-70°   | 1120.1 | 19.2      |
| 70°-80°   | 966.8  | 16.5      |
| 80°-90°   | 104.0  | 1.8       |
| 90°-100°  | 4.7    | 0.1       |
| 100°-110° | 67.7   | 1.2       |
| 110°-120° | 150.2  | 2.6       |
| 120°-130° | 219.7  | 3.8       |
| 130°-140° | 260.7  | 4.5       |
| 140°-150° | 264.3  | 4.5       |
| 150°-160° | 226.8  | 3.9       |
| 160°-170° | 152.2  | 2.6       |
| 170°-180° | 53.3   | 0.9       |
| 0°-90°    | 4442.2 | 76.0      |
| 0°-180°   | 5842.0 | 100.0     |



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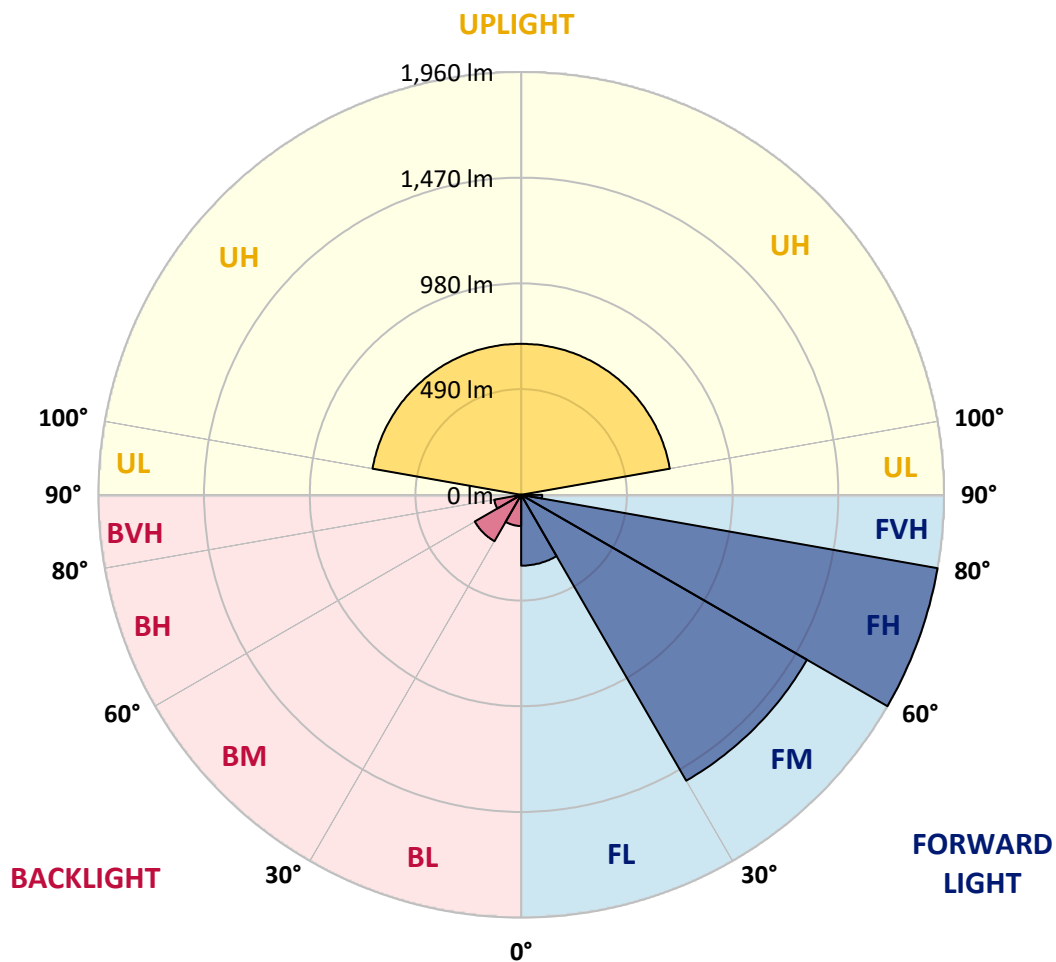
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |         |         |
|------|-------------|--------|-----------|-------------------------|---------|---------|
|      |             |        |           | B                       | U       | G       |
| FL   | (0°-30°)    | 328.4  | 5.6       |                         |         |         |
| FM   | (30°-60°)   | 1530.0 | 26.2      |                         |         |         |
| FH   | (60°-80°)   | 1959.9 | 33.5      |                         |         | G2/5000 |
| FVH  | (80°-90°)   | 97.1   | 1.7       |                         |         | G1/100  |
| BL   | (0°-30°)    | 144.6  | 2.5       | B1/500                  |         |         |
| BM   | (30°-60°)   | 248.3  | 4.2       | B1/1000                 |         |         |
| BH   | (60°-80°)   | 127.0  | 2.2       | B1/500                  |         | G1/500  |
| BVH  | (80°-90°)   | 6.8    | 0.1       |                         |         | G0/10   |
| UL   | (90°-100°)  | 4.7    | 0.1       |                         | U1/10   |         |
| UH   | (100°-180°) | 699.9  | 12.0      |                         | U4/1000 |         |

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 37.5°  | 38°    | 40°    | 42.5°  | 45°    | 47.5°  |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 724.9  | 724.9  | 724.9  | 724.9  | 724.9  | 724.9  | 724.9  | 724.9  | 724.9  | 724.9  | 724.9  |
| 2.5°   | 766.3  | 764.6  | 761.4  | 759.8  | 756.5  | 751.4  | 756.5  | 749.7  | 746.4  | 749.7  | 743.2  |
| 5°     | 779.5  | 778.0  | 774.7  | 768.1  | 764.6  | 756.5  | 761.4  | 753.0  | 751.4  | 754.8  | 746.4  |
| 7.5°   | 781.3  | 778.0  | 773.0  | 764.6  | 761.4  | 751.4  | 754.8  | 744.9  | 741.6  | 744.9  | 739.8  |
| 10°    | 776.3  | 774.7  | 769.7  | 756.5  | 753.0  | 749.7  | 748.1  | 741.6  | 739.8  | 738.1  | 736.5  |
| 12.5°  | 768.1  | 768.1  | 764.6  | 759.8  | 758.1  | 751.4  | 753.0  | 746.4  | 748.1  | 744.9  | 741.6  |
| 15°    | 764.6  | 763.0  | 766.3  | 769.7  | 769.7  | 759.8  | 766.3  | 761.4  | 758.1  | 759.8  | 754.8  |
| 17.5°  | 761.4  | 763.0  | 774.7  | 781.3  | 784.6  | 774.7  | 784.6  | 774.7  | 768.1  | 776.3  | 768.1  |
| 20°    | 759.8  | 764.6  | 784.6  | 799.5  | 801.2  | 784.6  | 801.2  | 784.6  | 784.6  | 794.6  | 779.5  |
| 22.5°  | 768.1  | 776.3  | 804.5  | 821.1  | 824.5  | 802.8  | 822.8  | 801.2  | 801.2  | 809.6  | 794.6  |
| 25°    | 794.6  | 802.8  | 834.3  | 852.6  | 849.3  | 826.1  | 844.4  | 822.8  | 821.1  | 831.0  | 811.2  |
| 27.5°  | 829.3  | 841.0  | 870.9  | 887.4  | 875.8  | 844.4  | 870.9  | 839.4  | 839.4  | 854.3  | 827.8  |
| 30°    | 879.2  | 887.4  | 913.9  | 915.6  | 900.7  | 862.6  | 892.5  | 857.6  | 852.6  | 879.2  | 845.9  |
| 32.5°  | 933.9  | 940.5  | 960.5  | 948.8  | 927.3  | 887.4  | 922.3  | 880.8  | 879.2  | 907.4  | 869.2  |
| 35°    | 992.0  | 998.6  | 1005.2 | 985.4  | 965.4  | 922.3  | 960.5  | 919.0  | 917.3  | 948.8  | 912.4  |
| 37.5°  | 1051.6 | 1051.6 | 1051.6 | 1028.5 | 1015.2 | 973.8  | 1008.5 | 975.4  | 972.1  | 1005.2 | 970.3  |
| 40°    | 1099.7 | 1103.1 | 1098.1 | 1076.6 | 1069.9 | 1040.1 | 1069.9 | 1040.1 | 1045.1 | 1074.9 | 1046.7 |
| 42.5°  | 1139.6 | 1142.9 | 1144.6 | 1126.4 | 1132.9 | 1116.3 | 1139.6 | 1118.0 | 1119.6 | 1152.9 | 1136.3 |
| 45°    | 1179.5 | 1177.8 | 1191.1 | 1186.0 | 1206.0 | 1207.6 | 1220.9 | 1212.6 | 1215.9 | 1240.8 | 1235.8 |
| 47.5°  | 1220.9 | 1212.6 | 1227.5 | 1249.0 | 1285.6 | 1297.2 | 1305.5 | 1308.8 | 1322.0 | 1333.6 | 1345.3 |
| 50°    | 1260.7 | 1252.3 | 1262.4 | 1310.4 | 1368.5 | 1393.5 | 1395.1 | 1411.7 | 1426.6 | 1443.1 | 1466.3 |
| 52.5°  | 1302.1 | 1295.5 | 1305.5 | 1373.5 | 1466.3 | 1501.2 | 1496.3 | 1524.4 | 1546.1 | 1564.3 | 1602.4 |
| 55°    | 1345.3 | 1338.7 | 1348.5 | 1449.8 | 1570.9 | 1618.9 | 1614.1 | 1653.8 | 1695.3 | 1701.9 | 1745.0 |
| 57.5°  | 1386.7 | 1378.4 | 1406.7 | 1539.3 | 1695.3 | 1768.2 | 1745.0 | 1806.4 | 1846.3 | 1843.0 | 1902.6 |
| 60°    | 1431.6 | 1424.9 | 1469.6 | 1648.9 | 1851.1 | 1945.8 | 1911.0 | 1992.2 | 2020.4 | 2008.8 | 2065.2 |
| 62.5°  | 1474.7 | 1473.0 | 1547.7 | 1776.6 | 2040.3 | 2131.6 | 2100.1 | 2171.3 | 2191.2 | 2176.3 | 2204.5 |
| 65°    | 1514.5 | 1524.4 | 1632.3 | 1904.2 | 2222.8 | 2327.3 | 2284.2 | 2355.4 | 2378.7 | 2367.1 | 2415.3 |
| 67.5°  | 1580.8 | 1592.4 | 1736.7 | 2066.9 | 2448.4 | 2556.1 | 2519.7 | 2594.3 | 2629.2 | 2625.8 | 2678.9 |
| 70°    | 1678.8 | 1700.2 | 1891.0 | 2297.4 | 2791.8 | 2929.5 | 2909.5 | 3000.8 | 3085.4 | 3078.7 | 3131.9 |
| 72.5°  | 1849.6 | 1884.4 | 2144.8 | 2655.7 | 3355.8 | 3523.3 | 3500.1 | 3551.4 | 3536.5 | 3415.4 | 3317.6 |
| 74°    | 1816.5 | 1859.5 | 2207.9 | 2843.1 | 3609.5 | 3715.7 | 3677.5 | 3679.2 | 3543.2 | 3359.0 | 3201.5 |
| 75°    | 1695.3 | 1740.1 | 2116.7 | 2820.0 | 3591.3 | 3649.4 | 3594.6 | 3526.6 | 3362.4 | 3174.9 | 2980.8 |
| 77.5°  | 1162.9 | 1220.9 | 1556.0 | 2277.6 | 2891.3 | 2811.7 | 2798.4 | 2669.0 | 2451.7 | 2241.0 | 1992.2 |
| 80°    | 595.5  | 637.0  | 804.5  | 1191.1 | 1715.2 | 1635.5 | 1662.1 | 1557.6 | 1376.8 | 1224.2 | 970.3  |
| 82.5°  | 142.7  | 152.6  | 237.2  | 461.1  | 743.2  | 680.1  | 690.1  | 610.5  | 505.9  | 413.0  | 320.2  |
| 85°    | 74.6   | 84.6   | 116.2  | 127.6  | 195.7  | 202.4  | 197.4  | 190.8  | 155.9  | 131.1  | 114.4  |
| 87.5°  | 0.0    | 0.0    | 0.0    | 3.3    | 1.7    | 0.0    | 1.7    | 0.0    | 0.0    | 1.7    | 3.3    |
| 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    | 3.0    | 4.0    | 5.1    | 5.4    | 6.4    | 7.6    | 8.8    | 9.8    |
| 100°   | 7.8    | 7.8    | 9.8    | 13.7   | 21.6   | 23.5   | 24.0   | 25.5   | 27.5   | 29.5   | 29.9   |
| 102.5° | 27.5   | 27.5   | 31.4   | 37.3   | 44.2   | 45.4   | 45.6   | 46.6   | 47.9   | 49.0   | 49.2   |
| 105°   | 53.0   | 53.0   | 55.0   | 59.8   | 64.8   | 65.8   | 65.9   | 66.7   | 67.7   | 68.7   | 68.9   |
| 107.5° | 76.5   | 75.5   | 78.5   | 82.5   | 86.3   | 87.1   | 87.2   | 87.9   | 88.6   | 89.3   | 89.8   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 15°   | 25°   | 35°   | 37.5° | 38°   | 40°   | 42.5° | 45°   | 47.5° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 99.2  | 100.1 | 101.1 | 104.0 | 108.0 | 108.4 | 108.5 | 109.0 | 109.4 | 110.0 | 110.4 |
| 112.5° | 121.7 | 121.7 | 123.7 | 126.6 | 129.5 | 130.1 | 130.2 | 130.5 | 131.1 | 131.5 | 132.1 |
| 115°   | 143.3 | 144.3 | 146.2 | 148.2 | 151.2 | 151.6 | 151.7 | 152.2 | 152.6 | 153.1 | 153.6 |
| 117.5° | 165.8 | 166.8 | 168.8 | 170.8 | 173.7 | 174.2 | 174.3 | 174.7 | 175.2 | 175.7 | 175.9 |
| 120°   | 189.5 | 191.4 | 192.3 | 194.3 | 197.3 | 197.4 | 197.5 | 197.8 | 198.1 | 198.3 | 198.7 |
| 122.5° | 215.0 | 216.0 | 216.9 | 218.8 | 221.8 | 222.0 | 222.2 | 222.3 | 222.6 | 222.8 | 223.0 |
| 125°   | 239.5 | 241.5 | 242.5 | 243.4 | 246.3 | 246.6 | 246.7 | 246.9 | 247.1 | 247.3 | 247.6 |
| 127.5° | 262.0 | 264.0 | 265.0 | 267.0 | 269.0 | 269.4 | 269.5 | 269.9 | 270.4 | 270.9 | 271.4 |
| 130°   | 284.7 | 286.6 | 287.5 | 288.5 | 292.5 | 292.7 | 292.8 | 292.9 | 293.3 | 293.5 | 293.9 |
| 132.5° | 307.2 | 308.2 | 311.2 | 312.1 | 315.0 | 315.2 | 315.3 | 315.6 | 315.8 | 316.0 | 316.8 |
| 135°   | 329.8 | 330.8 | 332.7 | 334.7 | 338.6 | 338.6 | 338.6 | 338.6 | 338.6 | 338.6 | 339.4 |
| 137.5° | 352.3 | 353.3 | 356.3 | 357.3 | 360.2 | 360.2 | 360.2 | 360.2 | 360.2 | 360.2 | 360.7 |
| 140°   | 375.0 | 375.9 | 377.8 | 378.8 | 380.8 | 381.0 | 381.2 | 381.3 | 381.6 | 381.8 | 382.0 |
| 142.5° | 396.5 | 398.5 | 400.5 | 399.5 | 402.4 | 402.4 | 402.4 | 402.4 | 402.4 | 402.4 | 402.9 |
| 145°   | 417.2 | 418.1 | 420.0 | 420.0 | 423.0 | 423.2 | 423.3 | 423.6 | 423.8 | 424.0 | 424.4 |
| 147.5° | 435.8 | 435.8 | 438.7 | 439.7 | 443.7 | 443.9 | 443.9 | 444.1 | 444.4 | 444.6 | 444.8 |
| 150°   | 452.5 | 453.5 | 455.4 | 456.4 | 460.3 | 460.5 | 460.7 | 460.8 | 461.1 | 461.3 | 461.5 |
| 152.5° | 470.2 | 471.1 | 474.0 | 473.0 | 476.0 | 476.2 | 476.3 | 476.6 | 476.8 | 477.0 | 477.2 |
| 155°   | 489.8 | 490.7 | 492.7 | 491.7 | 493.7 | 493.7 | 493.7 | 493.7 | 493.7 | 493.7 | 493.9 |
| 157.5° | 503.5 | 505.5 | 507.5 | 506.5 | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 |
| 160°   | 515.3 | 517.2 | 519.2 | 519.2 | 522.2 | 522.2 | 522.2 | 522.2 | 522.2 | 522.2 | 522.2 |
| 162.5° | 525.1 | 526.0 | 529.0 | 528.0 | 531.0 | 531.0 | 531.0 | 531.0 | 531.0 | 531.0 | 531.2 |
| 165°   | 535.9 | 536.8 | 538.8 | 537.8 | 541.8 | 541.8 | 541.8 | 541.8 | 541.8 | 541.8 | 541.9 |
| 167.5° | 544.7 | 545.7 | 548.7 | 547.7 | 550.6 | 550.4 | 550.3 | 550.1 | 549.9 | 549.7 | 549.7 |
| 170°   | 551.6 | 552.5 | 555.5 | 554.5 | 556.5 | 556.3 | 556.2 | 556.1 | 555.7 | 555.5 | 555.3 |
| 172.5° | 554.5 | 555.5 | 558.5 | 556.5 | 558.5 | 558.3 | 558.2 | 557.9 | 557.7 | 557.5 | 557.7 |
| 175°   | 556.5 | 558.5 | 559.5 | 558.5 | 561.4 | 561.4 | 561.4 | 561.4 | 561.4 | 561.4 | 561.6 |
| 177.5° | 561.4 | 562.4 | 564.3 | 563.3 | 567.3 | 567.1 | 567.0 | 566.8 | 566.5 | 566.3 | 566.3 |
| 180°   | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 |





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**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 52.5°  | 55°    | 57.5°  | 60°    | 62.5°  | 65°    | 67.5°  | 70°    | 72.5°  | 75°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 724.9  | 724.9  | 724.9  | 724.9  | 724.9  | 724.9  | 724.9  | 724.9  | 724.9  | 724.9  | 724.9  |
| 2.5°   | 748.1  | 744.9  | 748.1  | 738.1  | 743.2  | 734.8  | 738.1  | 729.9  | 733.2  | 726.5  | 728.3  |
| 5°     | 751.4  | 743.2  | 748.1  | 739.8  | 741.6  | 734.8  | 733.2  | 729.9  | 728.3  | 723.2  | 719.9  |
| 7.5°   | 743.2  | 736.5  | 734.8  | 731.5  | 726.5  | 728.3  | 721.6  | 719.9  | 714.9  | 714.9  | 705.0  |
| 10°    | 734.8  | 736.5  | 726.5  | 729.9  | 721.6  | 723.2  | 711.6  | 714.9  | 706.7  | 713.3  | 698.3  |
| 12.5°  | 741.6  | 743.2  | 734.8  | 739.8  | 724.9  | 728.3  | 718.3  | 723.2  | 711.6  | 719.9  | 701.7  |
| 15°    | 756.5  | 754.8  | 751.4  | 751.4  | 736.5  | 743.2  | 731.5  | 734.8  | 723.2  | 733.2  | 713.3  |
| 17.5°  | 769.7  | 768.1  | 763.0  | 761.4  | 751.4  | 753.0  | 741.6  | 748.1  | 734.8  | 743.2  | 723.2  |
| 20°    | 784.6  | 776.3  | 774.7  | 773.0  | 761.4  | 761.4  | 753.0  | 756.5  | 743.2  | 753.0  | 729.9  |
| 22.5°  | 796.2  | 789.6  | 787.9  | 781.3  | 773.0  | 776.3  | 764.6  | 766.3  | 753.0  | 763.0  | 743.2  |
| 25°    | 814.4  | 806.2  | 806.2  | 796.2  | 791.2  | 789.6  | 783.0  | 787.9  | 774.7  | 781.3  | 763.0  |
| 27.5°  | 839.4  | 821.1  | 827.8  | 817.7  | 814.4  | 812.8  | 809.6  | 812.8  | 802.8  | 807.8  | 789.6  |
| 30°    | 862.6  | 839.4  | 849.3  | 836.1  | 842.7  | 836.1  | 841.0  | 836.1  | 836.1  | 836.1  | 827.8  |
| 32.5°  | 894.2  | 865.9  | 885.8  | 865.9  | 879.2  | 869.2  | 885.8  | 875.8  | 882.5  | 880.8  | 877.6  |
| 35°    | 938.9  | 905.7  | 933.9  | 907.4  | 930.6  | 917.3  | 940.5  | 935.6  | 948.8  | 942.2  | 948.8  |
| 37.5°  | 998.6  | 963.7  | 996.8  | 972.1  | 1000.3 | 980.3  | 1013.5 | 1010.2 | 1038.4 | 1028.5 | 1038.4 |
| 40°    | 1073.3 | 1048.3 | 1073.3 | 1055.0 | 1084.8 | 1076.6 | 1111.5 | 1113.1 | 1144.6 | 1139.6 | 1151.2 |
| 42.5°  | 1156.2 | 1138.0 | 1162.9 | 1152.9 | 1182.7 | 1189.4 | 1229.2 | 1239.1 | 1268.9 | 1277.3 | 1279.0 |
| 45°    | 1245.8 | 1242.4 | 1262.4 | 1272.3 | 1302.1 | 1322.0 | 1356.9 | 1381.8 | 1415.0 | 1433.2 | 1429.9 |
| 47.5°  | 1350.2 | 1363.5 | 1376.8 | 1401.6 | 1428.2 | 1469.6 | 1504.5 | 1536.0 | 1574.2 | 1585.8 | 1590.8 |
| 50°    | 1468.0 | 1491.3 | 1502.9 | 1537.7 | 1564.3 | 1615.7 | 1663.8 | 1703.5 | 1745.0 | 1740.1 | 1743.4 |
| 52.5°  | 1592.4 | 1622.2 | 1638.9 | 1680.4 | 1715.2 | 1774.9 | 1816.5 | 1854.6 | 1905.9 | 1892.7 | 1887.7 |
| 55°    | 1730.1 | 1774.9 | 1788.2 | 1834.6 | 1864.5 | 1925.9 | 1962.3 | 2028.7 | 2050.3 | 2037.0 | 2008.8 |
| 57.5°  | 1876.1 | 1929.2 | 1944.1 | 2007.2 | 2022.1 | 2088.4 | 2119.9 | 2164.7 | 2183.0 | 2161.4 | 2124.9 |
| 60°    | 2041.9 | 2090.1 | 2101.8 | 2158.1 | 2178.0 | 2239.4 | 2262.7 | 2302.4 | 2315.7 | 2262.7 | 2211.2 |
| 62.5°  | 2207.9 | 2257.6 | 2264.3 | 2314.0 | 2334.0 | 2387.0 | 2413.6 | 2436.7 | 2430.2 | 2352.2 | 2287.4 |
| 65°    | 2396.9 | 2445.1 | 2461.6 | 2511.4 | 2523.0 | 2562.9 | 2584.4 | 2557.8 | 2542.9 | 2425.2 | 2352.2 |
| 67.5°  | 2697.3 | 2748.6 | 2755.2 | 2766.9 | 2765.3 | 2745.3 | 2735.4 | 2644.1 | 2577.8 | 2360.5 | 2255.9 |
| 70°    | 3092.0 | 3053.9 | 2979.2 | 2892.9 | 2829.9 | 2717.1 | 2650.8 | 2463.3 | 2323.9 | 2080.1 | 1904.2 |
| 72.5°  | 3163.3 | 3039.0 | 2854.8 | 2707.1 | 2554.5 | 2377.1 | 2234.4 | 1950.8 | 1755.0 | 1499.5 | 1313.8 |
| 74°    | 2960.9 | 2758.5 | 2564.5 | 2357.2 | 2181.4 | 1922.6 | 1778.3 | 1420.0 | 1225.8 | 967.0  | 741.6  |
| 75°    | 2717.1 | 2480.0 | 2260.9 | 1997.2 | 1833.0 | 1522.8 | 1386.7 | 1000.3 | 806.2  | 573.9  | 386.5  |
| 77.5°  | 1733.4 | 1449.8 | 1240.8 | 935.6  | 807.8  | 557.4  | 408.1  | 253.8  | 187.5  | 164.2  | 142.7  |
| 80°    | 778.0  | 554.1  | 439.6  | 303.5  | 253.8  | 194.0  | 164.2  | 132.7  | 121.1  | 106.2  | 101.1  |
| 82.5°  | 248.8  | 199.1  | 189.1  | 169.2  | 169.2  | 136.0  | 116.2  | 91.3   | 82.9   | 71.3   | 64.7   |
| 85°    | 107.9  | 101.1  | 104.6  | 96.2   | 97.8   | 74.6   | 59.6   | 44.7   | 44.7   | 31.5   | 28.2   |
| 87.5°  | 3.3    | 0.0    | 1.7    | 0.0    | 3.3    | 0.0    | 1.7    | 0.0    | 1.7    | 0.0    | 1.7    |
| 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°  | 10.8   | 11.8   | 12.8   | 11.3   | 9.8    | 8.4    | 6.8    | 6.4    | 5.9    | 5.4    | 4.9    |
| 100°   | 30.5   | 30.9   | 31.4   | 30.9   | 30.5   | 29.9   | 29.5   | 28.7   | 27.9   | 27.3   | 26.5   |
| 102.5° | 49.6   | 49.9   | 50.0   | 49.9   | 49.6   | 49.2   | 49.0   | 48.6   | 48.1   | 47.6   | 47.1   |
| 105°   | 69.2   | 69.5   | 69.7   | 69.7   | 69.7   | 69.7   | 69.7   | 69.2   | 68.7   | 68.2   | 67.7   |
| 107.5° | 90.3   | 90.8   | 91.3   | 91.1   | 90.8   | 90.5   | 90.3   | 90.1   | 89.8   | 89.5   | 89.3   |



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**CANDELA DISTRIBUTION (continued):**

|        | 50°   | 52.5° | 55°   | 57.5° | 60°   | 62.5° | 65°   | 67.5° | 70°   | 72.5° | 75°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 110.9 | 111.4 | 111.9 | 111.9 | 111.9 | 111.9 | 111.9 | 111.7 | 111.4 | 111.1 | 110.9 |
| 112.5° | 132.5 | 132.9 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.3 | 132.9 | 132.7 | 132.5 |
| 115°   | 154.1 | 154.6 | 155.0 | 155.0 | 155.0 | 155.0 | 155.0 | 155.0 | 155.0 | 155.0 | 155.0 |
| 117.5° | 176.2 | 176.4 | 176.7 | 176.9 | 177.1 | 177.4 | 177.7 | 177.4 | 177.1 | 176.9 | 176.7 |
| 120°   | 199.2 | 199.7 | 200.2 | 200.2 | 200.2 | 200.2 | 200.2 | 200.2 | 200.2 | 200.2 | 200.2 |
| 122.5° | 223.3 | 223.6 | 223.8 | 223.8 | 223.8 | 223.8 | 223.8 | 223.9 | 224.3 | 224.6 | 224.8 |
| 125°   | 247.8 | 248.1 | 248.3 | 248.5 | 248.8 | 249.1 | 249.3 | 249.3 | 249.3 | 249.3 | 249.3 |
| 127.5° | 271.8 | 272.4 | 272.8 | 272.6 | 272.4 | 272.1 | 271.8 | 272.1 | 272.4 | 272.6 | 272.8 |
| 130°   | 294.5 | 294.9 | 295.5 | 295.5 | 295.5 | 295.5 | 295.5 | 295.6 | 295.9 | 296.2 | 296.4 |
| 132.5° | 317.6 | 318.2 | 319.0 | 319.0 | 319.0 | 319.0 | 319.0 | 319.2 | 319.4 | 319.8 | 320.0 |
| 135°   | 340.1 | 340.7 | 341.5 | 341.5 | 341.5 | 341.5 | 341.5 | 341.7 | 342.1 | 342.3 | 342.5 |
| 137.5° | 361.2 | 361.7 | 362.2 | 362.2 | 362.2 | 362.2 | 362.2 | 362.4 | 362.6 | 362.9 | 363.2 |
| 140°   | 382.3 | 382.6 | 382.8 | 382.8 | 382.8 | 382.8 | 382.8 | 383.3 | 383.8 | 384.3 | 384.7 |
| 142.5° | 403.4 | 403.9 | 404.3 | 404.3 | 404.3 | 404.3 | 404.3 | 404.6 | 404.9 | 405.1 | 405.3 |
| 145°   | 425.0 | 425.4 | 426.0 | 425.8 | 425.4 | 425.2 | 425.0 | 425.2 | 425.4 | 425.8 | 426.0 |
| 147.5° | 445.1 | 445.4 | 445.6 | 445.1 | 444.6 | 444.1 | 443.7 | 443.9 | 444.1 | 444.4 | 444.6 |
| 150°   | 461.8 | 462.1 | 462.3 | 461.8 | 461.3 | 460.8 | 460.3 | 460.3 | 460.3 | 460.3 | 460.3 |
| 152.5° | 477.4 | 477.8 | 478.0 | 477.8 | 477.4 | 477.2 | 477.0 | 477.0 | 477.0 | 477.0 | 477.0 |
| 155°   | 494.2 | 494.4 | 494.7 | 494.4 | 494.2 | 493.9 | 493.7 | 493.9 | 494.2 | 494.4 | 494.7 |
| 157.5° | 509.4 | 509.4 | 509.4 | 508.9 | 508.4 | 507.9 | 507.5 | 507.6 | 507.9 | 508.2 | 508.4 |
| 160°   | 522.2 | 522.2 | 522.2 | 521.6 | 521.2 | 520.7 | 520.2 | 520.2 | 520.2 | 520.2 | 520.2 |
| 162.5° | 531.4 | 531.8 | 532.0 | 531.4 | 531.0 | 530.4 | 530.0 | 529.6 | 529.0 | 528.6 | 528.0 |
| 165°   | 542.3 | 542.6 | 542.8 | 541.9 | 541.3 | 540.6 | 539.8 | 539.3 | 538.8 | 538.4 | 537.8 |
| 167.5° | 549.7 | 549.7 | 549.7 | 549.1 | 548.7 | 548.1 | 547.7 | 547.9 | 548.1 | 548.4 | 548.7 |
| 170°   | 555.1 | 554.7 | 554.5 | 554.3 | 554.1 | 553.7 | 553.5 | 554.1 | 554.5 | 555.1 | 555.5 |
| 172.5° | 557.9 | 558.3 | 558.5 | 557.9 | 557.5 | 556.9 | 556.5 | 556.7 | 556.9 | 557.3 | 557.5 |
| 175°   | 561.9 | 562.2 | 562.4 | 561.6 | 560.9 | 560.3 | 559.5 | 558.9 | 558.5 | 557.9 | 557.5 |
| 177.5° | 566.3 | 566.3 | 566.3 | 565.6 | 564.9 | 564.1 | 563.3 | 563.3 | 563.3 | 563.3 | 563.3 |
| 180°   | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 |



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CATALOG NUMBER: ISC-AF-1000-LED-E1-SL4-7027-ULG

**CANDELA DISTRIBUTION (continued):**

|        | 77.5°  | 80°    | 85°    | 90°    | 95°   | 100°  | 102.5° | 105°  | 107.5° | 110°  | 112.5° |
|--------|--------|--------|--------|--------|-------|-------|--------|-------|--------|-------|--------|
| 0°     | 724.9  | 724.9  | 724.9  | 724.9  | 724.9 | 724.9 | 724.9  | 724.9 | 724.9  | 724.9 | 724.9  |
| 2.5°   | 721.6  | 724.9  | 723.2  | 716.6  | 714.9 | 710.0 | 698.3  | 700.0 | 693.4  | 698.3 | 690.1  |
| 5°     | 714.9  | 713.3  | 706.7  | 698.3  | 690.1 | 680.1 | 671.8  | 668.5 | 661.8  | 658.5 | 653.6  |
| 7.5°   | 705.0  | 698.3  | 686.8  | 673.5  | 661.8 | 648.6 | 642.0  | 630.3 | 627.1  | 615.4 | 613.7  |
| 10°    | 701.7  | 690.1  | 676.9  | 660.3  | 640.3 | 620.4 | 618.8  | 598.8 | 597.1  | 578.9 | 573.9  |
| 12.5°  | 708.3  | 693.4  | 676.9  | 656.9  | 633.7 | 605.5 | 605.5  | 575.6 | 573.9  | 549.0 | 540.8  |
| 15°    | 721.6  | 703.4  | 681.7  | 658.5  | 628.6 | 593.9 | 592.3  | 557.4 | 554.1  | 524.3 | 514.2  |
| 17.5°  | 733.2  | 708.3  | 688.4  | 656.9  | 622.1 | 582.2 | 573.9  | 539.2 | 532.4  | 497.6 | 484.4  |
| 20°    | 741.6  | 713.3  | 690.1  | 653.6  | 610.5 | 564.0 | 552.4  | 515.9 | 501.0  | 466.1 | 447.9  |
| 22.5°  | 751.4  | 724.9  | 693.4  | 651.9  | 603.8 | 549.0 | 524.3  | 491.0 | 469.5  | 432.9 | 408.1  |
| 25°    | 766.3  | 743.2  | 705.0  | 656.9  | 598.8 | 534.1 | 501.0  | 466.1 | 436.3  | 399.7 | 363.3  |
| 27.5°  | 789.6  | 766.3  | 721.6  | 663.5  | 597.1 | 519.2 | 482.7  | 439.6 | 403.1  | 363.3 | 321.9  |
| 30°    | 822.8  | 797.9  | 749.7  | 681.7  | 598.8 | 507.6 | 462.8  | 416.4 | 373.2  | 326.7 | 283.7  |
| 32.5°  | 865.9  | 845.9  | 786.3  | 701.7  | 605.5 | 497.6 | 444.5  | 391.5 | 338.4  | 293.6 | 255.5  |
| 35°    | 925.6  | 912.4  | 837.7  | 739.8  | 622.1 | 492.7 | 426.3  | 368.2 | 308.6  | 263.7 | 222.3  |
| 37.5°  | 1013.5 | 995.3  | 912.4  | 794.6  | 648.6 | 489.4 | 413.0  | 340.1 | 283.7  | 235.5 | 200.7  |
| 40°    | 1124.7 | 1099.7 | 1000.3 | 860.9  | 690.1 | 491.0 | 401.5  | 318.4 | 262.0  | 210.7 | 182.4  |
| 42.5°  | 1257.4 | 1220.9 | 1108.1 | 942.2  | 731.5 | 494.2 | 394.7  | 298.6 | 245.5  | 190.8 | 169.2  |
| 45°    | 1406.7 | 1365.2 | 1235.8 | 1043.4 | 791.2 | 502.6 | 389.9  | 282.0 | 230.5  | 175.9 | 160.9  |
| 47.5°  | 1552.6 | 1511.2 | 1366.8 | 1144.6 | 852.6 | 517.5 | 393.2  | 272.1 | 220.6  | 167.5 | 150.9  |
| 50°    | 1695.3 | 1652.2 | 1482.9 | 1235.8 | 905.7 | 537.5 | 406.4  | 273.7 | 219.0  | 164.2 | 146.0  |
| 52.5°  | 1821.3 | 1768.2 | 1582.5 | 1307.1 | 943.8 | 550.8 | 418.0  | 278.7 | 220.6  | 162.5 | 144.3  |
| 55°    | 1947.4 | 1879.4 | 1662.1 | 1363.5 | 967.0 | 552.4 | 418.0  | 280.3 | 222.3  | 162.5 | 142.7  |
| 57.5°  | 2041.9 | 1964.1 | 1723.5 | 1396.8 | 975.4 | 544.1 | 408.1  | 272.1 | 212.3  | 160.9 | 139.3  |
| 60°    | 2101.8 | 2018.7 | 1766.7 | 1418.2 | 963.7 | 509.2 | 355.0  | 240.6 | 187.5  | 149.3 | 129.4  |
| 62.5°  | 2151.5 | 2066.9 | 1779.9 | 1381.8 | 865.9 | 404.8 | 276.9  | 195.7 | 155.9  | 132.7 | 119.5  |
| 65°    | 2163.1 | 2061.9 | 1686.9 | 1220.9 | 676.9 | 280.3 | 200.7  | 154.3 | 127.6  | 117.8 | 107.9  |
| 67.5°  | 1987.2 | 1866.2 | 1418.2 | 955.4  | 461.1 | 192.5 | 149.3  | 126.0 | 109.4  | 104.6 | 101.1  |
| 70°    | 1615.7 | 1482.9 | 1038.4 | 625.4  | 257.2 | 134.4 | 114.4  | 104.6 | 94.5   | 94.5  | 89.7   |
| 72.5°  | 1041.8 | 904.1  | 532.4  | 267.1  | 131.1 | 102.9 | 92.9   | 89.7  | 81.3   | 82.9  | 78.0   |
| 74°    | 532.4  | 414.7  | 217.3  | 141.0  | 107.9 | 91.3  | 82.9   | 81.3  | 73.0   | 74.6  | 69.7   |
| 75°    | 270.4  | 214.0  | 152.6  | 117.8  | 99.5  | 86.2  | 76.3   | 76.3  | 66.4   | 68.0  | 63.0   |
| 77.5°  | 126.0  | 121.1  | 104.6  | 92.9   | 84.6  | 73.0  | 63.0   | 61.4  | 51.5   | 54.8  | 48.1   |
| 80°    | 87.9   | 87.9   | 81.3   | 78.0   | 69.7  | 59.6  | 48.1   | 48.1  | 38.2   | 39.9  | 34.9   |
| 82.5°  | 49.8   | 46.4   | 46.4   | 53.1   | 54.8  | 44.7  | 34.9   | 33.1  | 28.2   | 28.2  | 23.3   |
| 85°    | 21.6   | 25.0   | 29.8   | 36.5   | 39.9  | 34.9  | 25.0   | 23.3  | 14.9   | 14.9  | 8.4    |
| 87.5°  | 0.0    | 1.7    | 1.7    | 3.3    | 6.6   | 6.6   | 0.0    | 3.3   | 0.0    | 1.7   | 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°  | 4.7    | 4.4    | 4.0    | 4.0    | 4.0   | 4.4   | 4.7    | 4.9   | 5.4    | 5.9   | 6.4    |
| 100°   | 26.3   | 26.1   | 25.5   | 24.5   | 25.5  | 26.1  | 26.3   | 26.5  | 27.3   | 27.9  | 28.7   |
| 102.5° | 47.3   | 47.6   | 48.1   | 47.1   | 48.1  | 47.6  | 47.3   | 47.1  | 47.6   | 48.1  | 48.6   |
| 105°   | 68.2   | 68.7   | 69.7   | 67.7   | 69.7  | 68.7  | 68.2   | 67.7  | 68.2   | 68.7  | 69.2   |
| 107.5° | 89.5   | 89.8   | 90.3   | 89.3   | 90.3  | 89.8  | 89.5   | 89.3  | 89.5   | 89.8  | 90.1   |



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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°   | 111.1 | 111.4 | 111.9 | 110.9 | 111.9 | 111.4 | 111.1  | 110.9 | 111.1  | 111.4 | 111.7  | 0°     |
| 112.5° | 132.9 | 133.5 | 134.5 | 132.5 | 134.5 | 133.5 | 132.9  | 132.5 | 132.7  | 132.9 | 133.3  | 2.5°   |
| 115°   | 155.6 | 156.0 | 157.0 | 156.0 | 157.0 | 156.0 | 155.6  | 155.0 | 155.0  | 155.0 | 155.0  | 5°     |
| 117.5° | 177.1 | 177.7 | 178.7 | 176.7 | 178.7 | 177.7 | 177.1  | 176.7 | 176.9  | 177.1 | 177.4  | 7.5°   |
| 120°   | 200.7 | 201.2 | 202.2 | 200.2 | 202.2 | 201.2 | 200.7  | 200.2 | 200.2  | 200.2 | 200.2  | 10°    |
| 122.5° | 225.7 | 226.7 | 228.7 | 227.7 | 228.7 | 226.7 | 225.7  | 224.8 | 224.6  | 224.3 | 223.9  | 12.5°  |
| 125°   | 250.1 | 250.8 | 252.2 | 251.3 | 252.2 | 250.8 | 250.1  | 249.3 | 249.3  | 249.3 | 249.3  | 15°    |
| 127.5° | 273.6 | 274.3 | 275.8 | 272.8 | 275.8 | 274.3 | 273.6  | 272.8 | 272.6  | 272.4 | 272.1  | 17.5°  |
| 130°   | 297.2 | 297.9 | 299.3 | 297.4 | 299.3 | 297.9 | 297.2  | 296.4 | 296.2  | 295.9 | 295.6  | 20°    |
| 132.5° | 320.8 | 321.4 | 322.9 | 321.0 | 322.9 | 321.4 | 320.8  | 320.0 | 319.8  | 319.4 | 319.2  | 22.5°  |
| 135°   | 343.1 | 343.5 | 344.5 | 343.5 | 344.5 | 343.5 | 343.1  | 342.5 | 342.3  | 342.1 | 341.7  | 25°    |
| 137.5° | 364.2 | 365.1 | 367.0 | 365.1 | 367.0 | 365.1 | 364.2  | 363.2 | 362.9  | 362.6 | 362.4  | 27.5°  |
| 140°   | 385.7 | 386.7 | 388.7 | 386.7 | 388.7 | 386.7 | 385.7  | 384.7 | 384.3  | 383.8 | 383.3  | 30°    |
| 142.5° | 406.1 | 406.8 | 408.3 | 407.3 | 408.3 | 406.8 | 406.1  | 405.3 | 405.1  | 404.9 | 404.6  | 32.5°  |
| 145°   | 426.8 | 427.4 | 428.9 | 427.0 | 428.9 | 427.4 | 426.8  | 426.0 | 425.8  | 425.4 | 425.2  | 35°    |
| 147.5° | 445.4 | 446.1 | 447.5 | 444.6 | 447.5 | 446.1 | 445.4  | 444.6 | 444.4  | 444.1 | 443.9  | 37.5°  |
| 150°   | 461.3 | 462.3 | 464.2 | 461.3 | 464.2 | 462.3 | 461.3  | 460.3 | 460.3  | 460.3 | 460.3  | 40°    |
| 152.5° | 477.8 | 478.4 | 480.0 | 477.0 | 480.0 | 478.4 | 477.8  | 477.0 | 477.0  | 477.0 | 477.0  | 42.5°  |
| 155°   | 495.4 | 496.1 | 497.6 | 495.7 | 497.6 | 496.1 | 495.4  | 494.7 | 494.4  | 494.2 | 493.9  | 45°    |
| 157.5° | 509.6 | 510.9 | 513.3 | 510.3 | 513.3 | 510.9 | 509.6  | 508.4 | 508.2  | 507.9 | 507.6  | 47.5°  |
| 160°   | 520.9 | 521.6 | 523.2 | 521.2 | 523.2 | 521.6 | 520.9  | 520.2 | 520.2  | 520.2 | 520.2  | 50°    |
| 162.5° | 528.6 | 529.0 | 530.0 | 527.0 | 530.0 | 529.0 | 528.6  | 528.0 | 528.6  | 529.0 | 529.6  | 52.5°  |
| 165°   | 538.4 | 538.8 | 539.8 | 537.8 | 539.8 | 538.8 | 538.4  | 537.8 | 538.4  | 538.8 | 539.3  | 55°    |
| 167.5° | 549.7 | 550.6 | 552.5 | 550.6 | 552.5 | 550.6 | 549.7  | 548.7 | 548.4  | 548.1 | 547.9  | 57.5°  |
| 170°   | 556.7 | 557.9 | 560.5 | 558.5 | 560.5 | 557.9 | 556.7  | 555.5 | 555.1  | 554.5 | 554.1  | 60°    |
| 172.5° | 558.3 | 558.9 | 560.5 | 557.5 | 560.5 | 558.9 | 558.3  | 557.5 | 557.3  | 556.9 | 556.7  | 62.5°  |
| 175°   | 558.3 | 558.9 | 560.5 | 557.5 | 560.5 | 558.9 | 558.3  | 557.5 | 557.9  | 558.5 | 558.9  | 65°    |
| 177.5° | 564.1 | 564.9 | 566.3 | 563.3 | 566.3 | 564.9 | 564.1  | 563.3 | 563.3  | 563.3 | 563.3  | 67.5°  |
| 180°   | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3  | 565.3 | 565.3  | 565.3 | 565.3  | 70°    |
|        |       |       |       |       |       |       |        |       |        |       |        | 72.5°  |
|        |       |       |       |       |       |       |        |       |        |       |        | 74°    |
|        |       |       |       |       |       |       |        |       |        |       |        | 75°    |
|        |       |       |       |       |       |       |        |       |        |       |        | 77.5°  |
|        |       |       |       |       |       |       |        |       |        |       |        | 80°    |
|        |       |       |       |       |       |       |        |       |        |       |        | 82.5°  |
|        |       |       |       |       |       |       |        |       |        |       |        | 85°    |
|        |       |       |       |       |       |       |        |       |        |       |        | 87.5°  |
|        |       |       |       |       |       |       |        |       |        |       |        | 90°    |
|        |       |       |       |       |       |       |        |       |        |       |        | 92.5°  |
|        |       |       |       |       |       |       |        |       |        |       |        | 95°    |
|        |       |       |       |       |       |       |        |       |        |       |        | 97.5°  |
|        |       |       |       |       |       |       |        |       |        |       |        | 100°   |
|        |       |       |       |       |       |       |        |       |        |       |        | 102.5° |
|        |       |       |       |       |       |       |        |       |        |       |        | 105°   |
|        |       |       |       |       |       |       |        |       |        |       |        | 107.5° |

NUMBER: P271474  
 NUMBER: ISC-AF-1000-LED-E1-SL4-7027-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°  |
|-------|--------|-------|--------|-------|--------|-------|-------|-------|-------|-------|--------|-------|
| 724.9 | 724.9  | 724.9 | 724.9  | 724.9 | 724.9  | 724.9 | 724.9 | 724.9 | 724.9 | 724.9 | 110°   | 111.9 |
| 693.4 | 685.0  | 690.1 | 681.7  | 685.0 | 676.9  | 680.1 | 675.2 | 670.1 | 663.5 | 661.8 | 112.5° | 133.5 |
| 648.6 | 642.0  | 640.3 | 632.0  | 633.7 | 627.1  | 620.4 | 612.0 | 602.1 | 588.9 | 583.9 | 115°   | 155.0 |
| 598.8 | 597.1  | 585.5 | 580.6  | 573.9 | 567.3  | 555.7 | 542.5 | 522.5 | 504.3 | 492.7 | 117.5° | 177.7 |
| 555.7 | 550.8  | 534.1 | 525.9  | 515.9 | 507.6  | 491.0 | 472.8 | 444.5 | 416.4 | 401.5 | 120°   | 200.2 |
| 519.2 | 512.6  | 491.0 | 481.0  | 466.1 | 456.2  | 436.3 | 413.0 | 373.2 | 333.5 | 315.1 | 122.5° | 223.8 |
| 489.4 | 479.3  | 454.5 | 439.6  | 419.7 | 409.8  | 388.2 | 355.0 | 307.0 | 265.4 | 240.6 | 125°   | 249.3 |
| 454.5 | 441.2  | 414.7 | 396.4  | 376.6 | 358.3  | 336.8 | 301.9 | 247.1 | 209.0 | 184.2 | 127.5° | 271.8 |
| 416.4 | 399.7  | 371.6 | 346.7  | 325.2 | 308.6  | 287.0 | 252.2 | 197.4 | 167.5 | 154.3 | 130°   | 295.5 |
| 376.6 | 350.0  | 325.2 | 303.5  | 278.7 | 262.0  | 240.6 | 209.0 | 167.5 | 150.9 | 146.0 | 132.5° | 319.0 |
| 335.1 | 305.2  | 280.3 | 258.8  | 235.5 | 220.6  | 202.4 | 177.4 | 152.6 | 147.6 | 147.6 | 135°   | 341.5 |
| 293.6 | 263.7  | 240.6 | 219.0  | 199.1 | 189.1  | 172.6 | 155.9 | 144.3 | 146.0 | 147.6 | 137.5° | 362.2 |
| 255.5 | 225.7  | 204.1 | 187.5  | 169.2 | 162.5  | 149.3 | 139.3 | 137.7 | 142.7 | 144.3 | 140°   | 382.8 |
| 222.3 | 195.7  | 175.9 | 162.5  | 147.6 | 144.3  | 132.7 | 127.6 | 132.7 | 139.3 | 137.7 | 142.5° | 404.3 |
| 194.0 | 172.6  | 152.6 | 144.3  | 131.1 | 129.4  | 121.1 | 117.8 | 124.4 | 132.7 | 132.7 | 145°   | 425.0 |
| 172.6 | 152.6  | 137.7 | 131.1  | 121.1 | 119.5  | 112.7 | 109.4 | 114.4 | 126.0 | 129.4 | 147.5° | 443.7 |
| 154.3 | 142.7  | 127.6 | 121.1  | 114.4 | 111.1  | 107.9 | 104.6 | 106.2 | 121.1 | 122.8 | 150°   | 460.3 |
| 142.7 | 134.4  | 121.1 | 117.8  | 109.4 | 107.9  | 102.9 | 99.5  | 101.1 | 112.7 | 117.8 | 152.5° | 477.0 |
| 134.4 | 127.6  | 116.2 | 114.4  | 106.2 | 104.6  | 99.5  | 96.2  | 97.8  | 107.9 | 112.7 | 155°   | 493.7 |
| 127.6 | 121.1  | 111.1 | 107.9  | 102.9 | 101.1  | 97.8  | 94.5  | 94.5  | 104.6 | 109.4 | 157.5° | 507.5 |
| 124.4 | 117.8  | 107.9 | 104.6  | 99.5  | 97.8   | 94.5  | 91.3  | 92.9  | 101.1 | 104.6 | 160°   | 520.2 |
| 122.8 | 114.4  | 106.2 | 101.1  | 97.8  | 94.5   | 91.3  | 87.9  | 89.7  | 97.8  | 101.1 | 162.5° | 530.0 |
| 122.8 | 112.7  | 106.2 | 101.1  | 96.2  | 91.3   | 89.7  | 84.6  | 87.9  | 94.5  | 99.5  | 165°   | 539.8 |
| 122.8 | 112.7  | 106.2 | 101.1  | 97.8  | 92.9   | 89.7  | 86.2  | 87.9  | 94.5  | 99.5  | 167.5° | 547.7 |
| 119.5 | 111.1  | 107.9 | 102.9  | 101.1 | 96.2   | 94.5  | 91.3  | 91.3  | 99.5  | 107.9 | 170°   | 553.5 |
| 114.4 | 109.4  | 107.9 | 104.6  | 104.6 | 101.1  | 101.1 | 97.8  | 97.8  | 107.9 | 116.2 | 172.5° | 556.5 |
| 107.9 | 104.6  | 106.2 | 104.6  | 104.6 | 104.6  | 102.9 | 102.9 | 102.9 | 111.1 | 121.1 | 175°   | 559.5 |
| 101.1 | 99.5   | 101.1 | 101.1  | 102.9 | 101.1  | 102.9 | 101.1 | 101.1 | 109.4 | 119.5 | 177.5° | 563.3 |
| 91.3  | 91.3   | 92.9  | 91.3   | 92.9  | 92.9   | 94.5  | 94.5  | 94.5  | 99.5  | 109.4 | 180°   | 565.3 |
| 79.6  | 78.0   | 79.6  | 78.0   | 81.3  | 78.0   | 81.3  | 82.9  | 81.3  | 82.9  | 87.9  |        |       |
| 71.3  | 69.7   | 71.3  | 69.7   | 73.0  | 69.7   | 71.3  | 71.3  | 69.7  | 56.4  | 48.1  |        |       |
| 64.7  | 63.0   | 64.7  | 63.0   | 66.4  | 63.0   | 66.4  | 64.7  | 61.4  | 41.5  | 39.9  |        |       |
| 51.5  | 46.4   | 51.5  | 46.4   | 49.8  | 44.7   | 48.1  | 41.5  | 31.5  | 29.8  | 29.8  |        |       |
| 38.2  | 33.1   | 36.5  | 31.5   | 29.8  | 23.3   | 25.0  | 23.3  | 21.6  | 23.3  | 23.3  |        |       |
| 23.3  | 16.6   | 19.9  | 14.9   | 18.2  | 13.3   | 16.6  | 14.9  | 13.3  | 13.3  | 13.3  |        |       |
| 11.6  | 8.4    | 11.6  | 6.6    | 9.9   | 6.6    | 8.4   | 8.4   | 5.0   | 5.0   | 5.0   |        |       |
| 1.7   | 0.0    | 3.3   | 0.0    | 3.3   | 0.0    | 1.7   | 1.7   | 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   |        |       |
| 6.8   | 8.4    | 9.8   | 11.3   | 12.8  | 11.8   | 10.8  | 8.8   | 4.0   | 3.0   | 2.0   |        |       |
| 29.5  | 29.9   | 30.5  | 30.9   | 31.4  | 30.9   | 30.5  | 29.5  | 21.6  | 13.7  | 9.8   |        |       |
| 49.0  | 49.2   | 49.6  | 49.9   | 50.0  | 49.9   | 49.6  | 49.0  | 44.2  | 37.3  | 31.4  |        |       |
| 69.7  | 69.7   | 69.7  | 69.7   | 69.7  | 69.5   | 69.2  | 68.7  | 64.8  | 59.8  | 55.0  |        |       |
| 90.3  | 90.5   | 90.8  | 91.1   | 91.3  | 90.8   | 90.3  | 89.3  | 86.3  | 82.5  | 78.5  |        |       |

'271474  
 ISC-AF-1000-LED-E1-SL4-7027-ULG

REPORT NUMBER: P271474  
 CATALOG NUMBER: ISC-AF-10

**TION (continued):**

**CANDELA DISTRIBUTION (con**

| 117.5° | 120°  | 122.5° | 125°  | 127.5° | 130°  | 135°  | 145°  | 155°  | 165°  |        | 175°  | 180°  |
|--------|-------|--------|-------|--------|-------|-------|-------|-------|-------|--------|-------|-------|
| 111.9  | 111.9 | 111.9  | 111.9 | 111.4  | 110.9 | 110.0 | 108.0 | 104.0 | 101.1 | 0°     | 724.9 | 724.9 |
| 133.5  | 133.5 | 133.5  | 133.5 | 132.9  | 132.5 | 131.5 | 129.5 | 126.6 | 123.7 | 2.5°   | 656.9 | 658.5 |
| 155.0  | 155.0 | 155.0  | 155.0 | 154.6  | 154.1 | 153.1 | 151.2 | 148.2 | 146.2 | 5°     | 575.6 | 580.6 |
| 177.4  | 177.1 | 176.9  | 176.7 | 176.4  | 176.2 | 175.7 | 173.7 | 170.8 | 168.8 | 7.5°   | 486.1 | 489.4 |
| 200.2  | 200.2 | 200.2  | 200.2 | 199.7  | 199.2 | 198.3 | 197.3 | 194.3 | 192.3 | 10°    | 391.5 | 394.7 |
| 223.8  | 223.8 | 223.8  | 223.8 | 223.6  | 223.3 | 222.8 | 221.8 | 218.8 | 216.9 | 12.5°  | 301.9 | 305.2 |
| 249.1  | 248.8 | 248.5  | 248.3 | 248.1  | 247.8 | 247.3 | 246.3 | 243.4 | 242.5 | 15°    | 227.2 | 223.9 |
| 272.1  | 272.4 | 272.6  | 272.8 | 272.4  | 271.8 | 270.9 | 269.0 | 267.0 | 265.0 | 17.5°  | 174.2 | 170.9 |
| 295.5  | 295.5 | 295.5  | 295.5 | 294.9  | 294.5 | 293.5 | 292.5 | 288.5 | 287.5 | 20°    | 147.6 | 147.6 |
| 319.0  | 319.0 | 319.0  | 319.0 | 318.2  | 317.6 | 316.0 | 315.0 | 312.1 | 311.2 | 22.5°  | 144.3 | 142.7 |
| 341.5  | 341.5 | 341.5  | 341.5 | 340.7  | 340.1 | 338.6 | 338.6 | 334.7 | 332.7 | 25°    | 146.0 | 144.3 |
| 362.2  | 362.2 | 362.2  | 362.2 | 361.7  | 361.2 | 360.2 | 360.2 | 357.3 | 356.3 | 27.5°  | 146.0 | 144.3 |
| 382.8  | 382.8 | 382.8  | 382.8 | 382.6  | 382.3 | 381.8 | 380.8 | 378.8 | 377.8 | 30°    | 142.7 | 141.0 |
| 404.3  | 404.3 | 404.3  | 404.3 | 403.9  | 403.4 | 402.4 | 402.4 | 399.5 | 400.5 | 32.5°  | 137.7 | 136.0 |
| 425.2  | 425.4 | 425.8  | 426.0 | 425.4  | 425.0 | 424.0 | 423.0 | 420.0 | 420.0 | 35°    | 132.7 | 132.7 |
| 444.1  | 444.6 | 445.1  | 445.6 | 445.4  | 445.1 | 444.6 | 443.7 | 439.7 | 438.7 | 37.5°  | 129.4 | 131.1 |
| 460.8  | 461.3 | 461.8  | 462.3 | 462.1  | 461.8 | 461.3 | 460.3 | 456.4 | 455.4 | 40°    | 124.4 | 126.0 |
| 477.2  | 477.4 | 477.8  | 478.0 | 477.8  | 477.4 | 477.0 | 476.0 | 473.0 | 474.0 | 42.5°  | 119.5 | 121.1 |
| 493.9  | 494.2 | 494.4  | 494.7 | 494.4  | 494.2 | 493.7 | 493.7 | 491.7 | 492.7 | 45°    | 114.4 | 116.2 |
| 507.9  | 508.4 | 508.9  | 509.4 | 509.4  | 509.4 | 509.4 | 509.4 | 506.5 | 507.5 | 47.5°  | 109.4 | 109.4 |
| 520.7  | 521.2 | 521.6  | 522.2 | 522.2  | 522.2 | 522.2 | 522.2 | 519.2 | 519.2 | 50°    | 102.9 | 102.9 |
| 530.4  | 531.0 | 531.4  | 532.0 | 531.8  | 531.4 | 531.0 | 531.0 | 528.0 | 529.0 | 52.5°  | 101.1 | 101.1 |
| 540.6  | 541.3 | 541.9  | 542.8 | 542.6  | 542.3 | 541.8 | 541.8 | 537.8 | 538.8 | 55°    | 101.1 | 101.1 |
| 548.1  | 548.7 | 549.1  | 549.7 | 549.7  | 549.7 | 549.7 | 550.6 | 547.7 | 548.7 | 57.5°  | 104.6 | 104.6 |
| 553.7  | 554.1 | 554.3  | 554.5 | 554.7  | 555.1 | 555.5 | 556.5 | 554.5 | 555.5 | 60°    | 114.4 | 116.2 |
| 556.9  | 557.5 | 557.9  | 558.5 | 558.3  | 557.9 | 557.5 | 558.5 | 556.5 | 558.5 | 62.5°  | 134.4 | 136.0 |
| 560.3  | 560.9 | 561.6  | 562.4 | 562.2  | 561.9 | 561.4 | 561.4 | 558.5 | 559.5 | 65°    | 154.3 | 157.7 |
| 564.1  | 564.9 | 565.6  | 566.3 | 566.3  | 566.3 | 566.3 | 567.3 | 563.3 | 564.3 | 67.5°  | 155.9 | 160.9 |
| 565.3  | 565.3 | 565.3  | 565.3 | 565.3  | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 70°    | 150.9 | 155.9 |
|        |       |        |       |        |       |       |       |       |       | 72.5°  | 104.6 | 104.6 |
|        |       |        |       |        |       |       |       |       |       | 74°    | 46.4  | 44.7  |
|        |       |        |       |        |       |       |       |       |       | 75°    | 39.9  | 38.2  |
|        |       |        |       |        |       |       |       |       |       | 77.5°  | 29.8  | 29.8  |
|        |       |        |       |        |       |       |       |       |       | 80°    | 21.6  | 19.9  |
|        |       |        |       |        |       |       |       |       |       | 82.5°  | 11.6  | 11.6  |
|        |       |        |       |        |       |       |       |       |       | 85°    | 3.3   | 3.3   |
|        |       |        |       |        |       |       |       |       |       | 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°   | 7.8   | 7.8   |
|        |       |        |       |        |       |       |       |       |       | 102.5° | 27.5  | 27.5  |
|        |       |        |       |        |       |       |       |       |       | 105°   | 53.0  | 53.0  |
|        |       |        |       |        |       |       |       |       |       | 107.5° | 75.5  | 76.5  |



REPORT NUMBER: P271474

CATALOG NUMBER: ISC-AF-1000-LED-E1

**CANDELA DISTRIBUTION (continued):**

|        | 175°  | 180°  |
|--------|-------|-------|
| 110°   | 100.1 | 99.2  |
| 112.5° | 121.7 | 121.7 |
| 115°   | 144.3 | 143.3 |
| 117.5° | 166.8 | 165.8 |
| 120°   | 191.4 | 189.5 |
| 122.5° | 216.0 | 215.0 |
| 125°   | 241.5 | 239.5 |
| 127.5° | 264.0 | 262.0 |
| 130°   | 286.6 | 284.7 |
| 132.5° | 308.2 | 307.2 |
| 135°   | 330.8 | 329.8 |
| 137.5° | 353.3 | 352.3 |
| 140°   | 375.9 | 375.0 |
| 142.5° | 398.5 | 396.5 |
| 145°   | 418.1 | 417.2 |
| 147.5° | 435.8 | 435.8 |
| 150°   | 453.5 | 452.5 |
| 152.5° | 471.1 | 470.2 |
| 155°   | 490.7 | 489.8 |
| 157.5° | 505.5 | 503.5 |
| 160°   | 517.2 | 515.3 |
| 162.5° | 526.0 | 525.1 |
| 165°   | 536.8 | 535.9 |
| 167.5° | 545.7 | 544.7 |
| 170°   | 552.5 | 551.6 |
| 172.5° | 555.5 | 554.5 |
| 175°   | 558.5 | 556.5 |
| 177.5° | 562.4 | 561.4 |
| 180°   | 565.3 | 565.3 |

(END OF REPORT)

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

Scaled Data Report



-SL4-7027-ULG