

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P159979

Luminaire Tested: **ENT-E01-LED-E1-BL4-7050-ULG**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P159979
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P20107) AND SCALED
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-E01-LED-E1-BL4-7050-ULG
Description: ENTRI LED LUMINAIRE WITH UPLIGHT
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2996.2 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U3 - G1

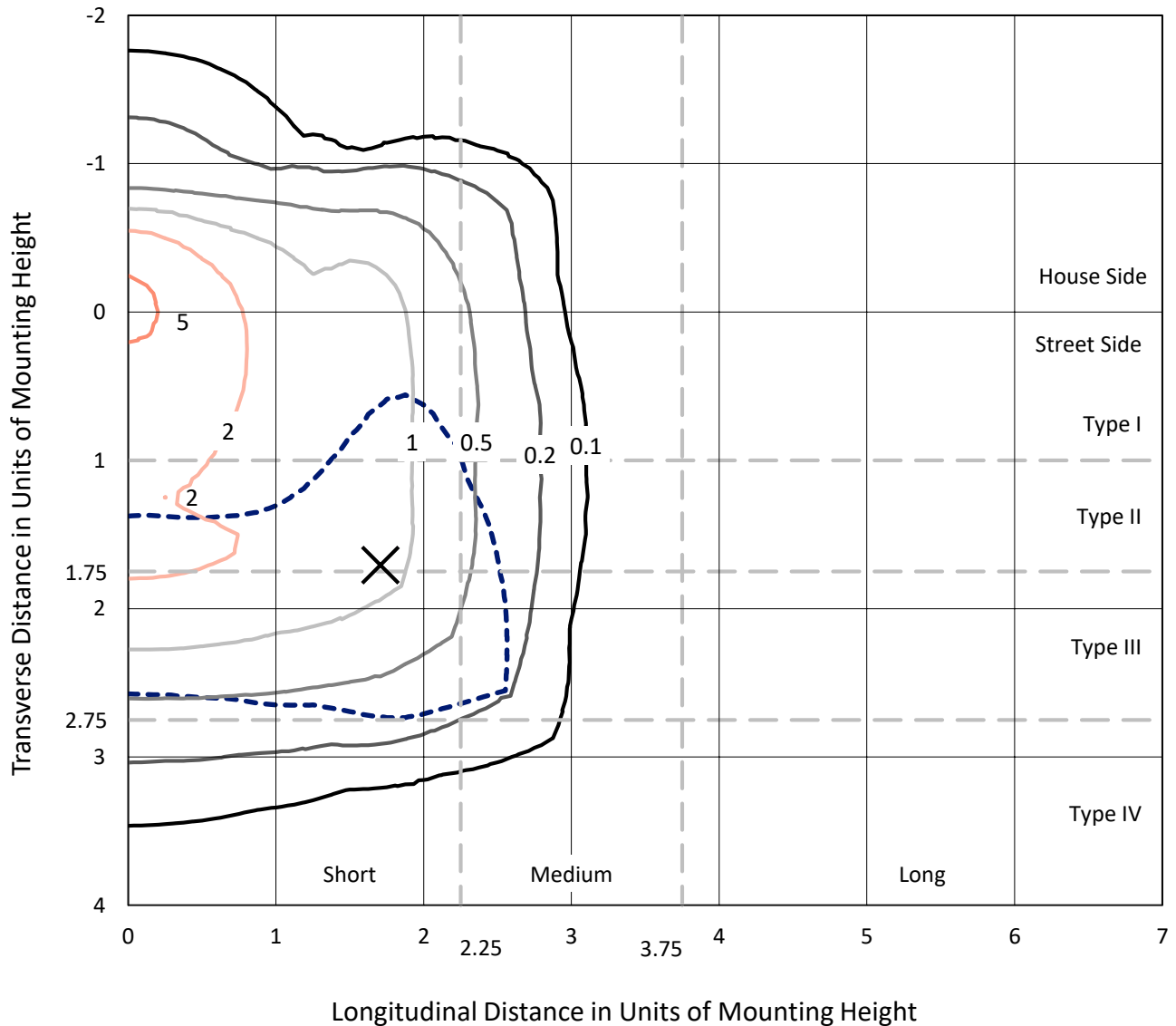
Input Watts (W): 32.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

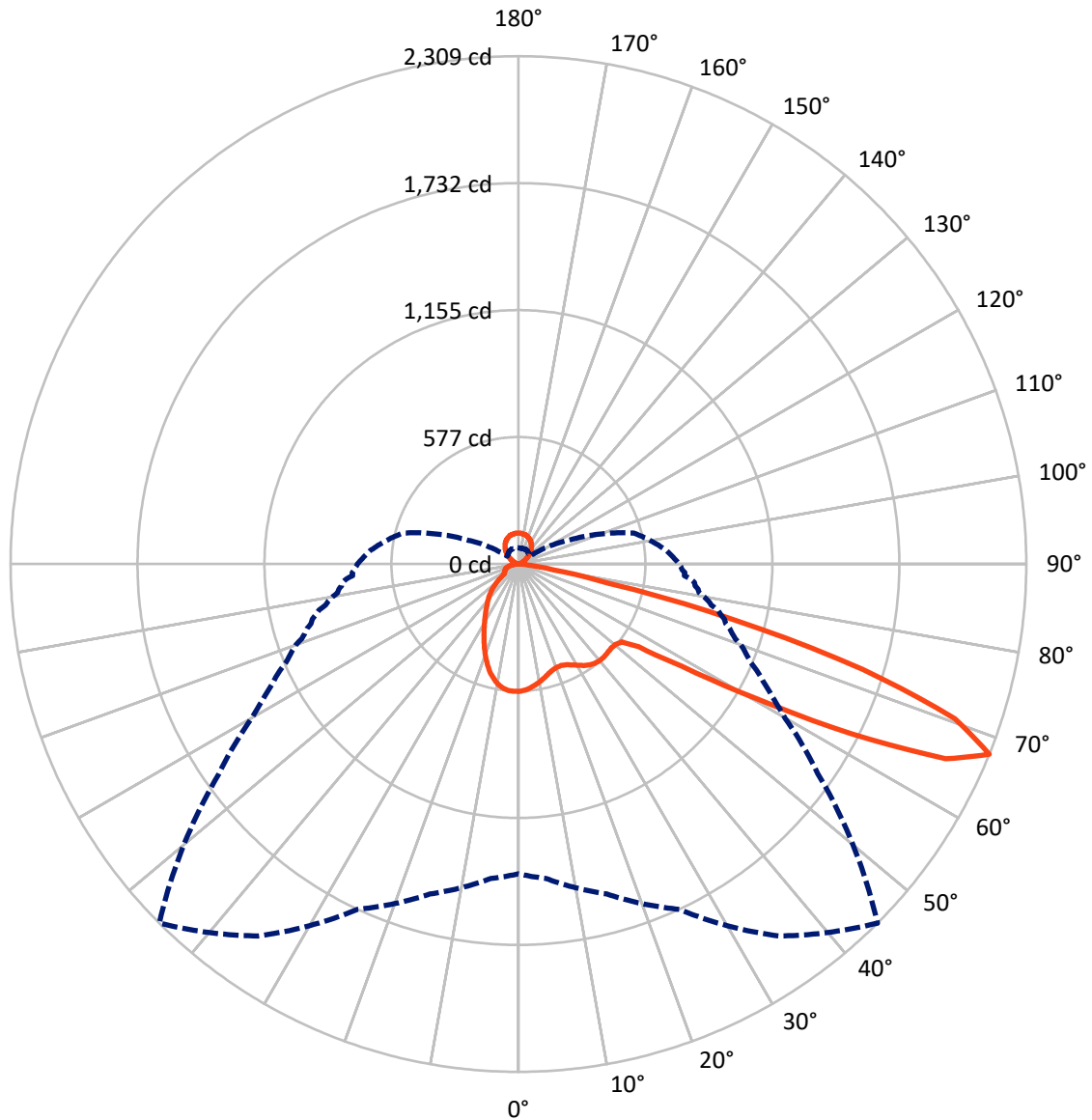
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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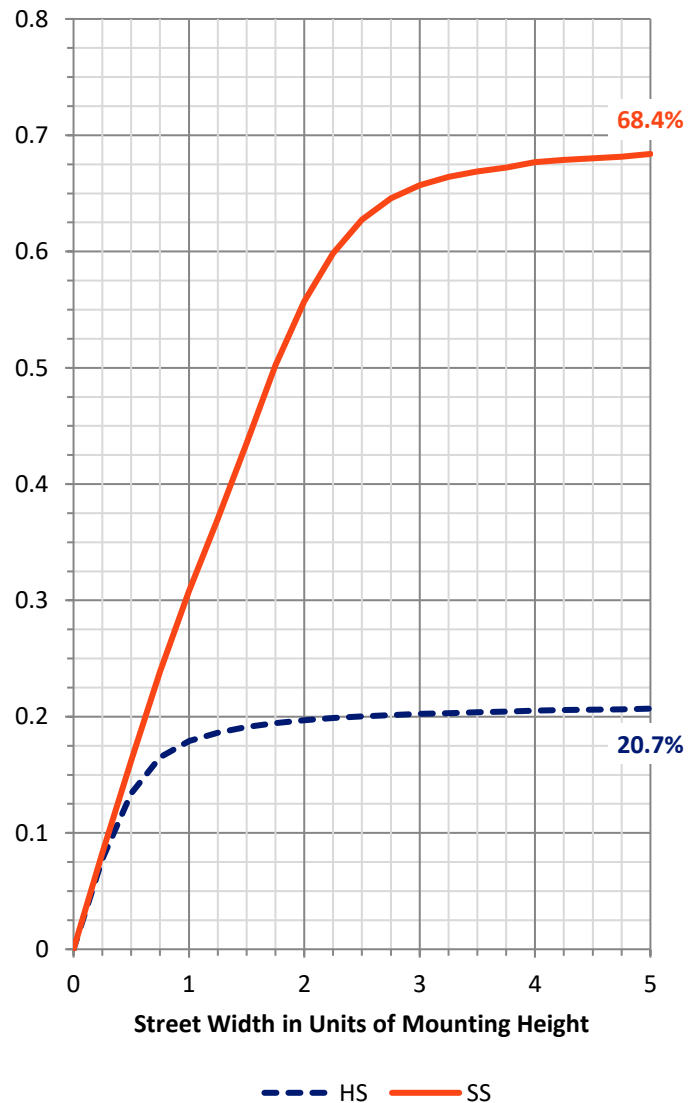
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 628.2 | 157.7 | 785.9 |
| | % Fixture | 21.0 | 5.3 | 26.2 |
| Street Side | Lumens | 2052.6 | 157.7 | 2210.3 |
| | % Fixture | 68.5 | 5.3 | 73.8 |
| Total | Lumens | 2680.7 | 315.5 | 2996.2 |
| | % Fixture | 89.5 | 10.5 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 53.8 | 1.8 |
| 10°-20° | 144.8 | 4.8 |
| 20°-30° | 208.8 | 7.0 |
| 30°-40° | 266.4 | 8.9 |
| 40°-50° | 314.4 | 10.5 |
| 50°-60° | 504.2 | 16.8 |
| 60°-70° | 848.6 | 28.3 |
| 70°-80° | 315.6 | 10.5 |
| 80°-90° | 24.0 | 0.8 |
| 90°-100° | 1.3 | 0.0 |
| 100°-110° | 12.3 | 0.4 |
| 110°-120° | 25.2 | 0.8 |
| 120°-130° | 43.0 | 1.4 |
| 130°-140° | 60.0 | 2.0 |
| 140°-150° | 65.4 | 2.2 |
| 150°-160° | 56.9 | 1.9 |
| 160°-170° | 38.2 | 1.3 |
| 170°-180° | 13.3 | 0.4 |
| 0°-90° | 2680.7 | 89.5 |
| 0°-180° | 2996.2 | 100.0 |



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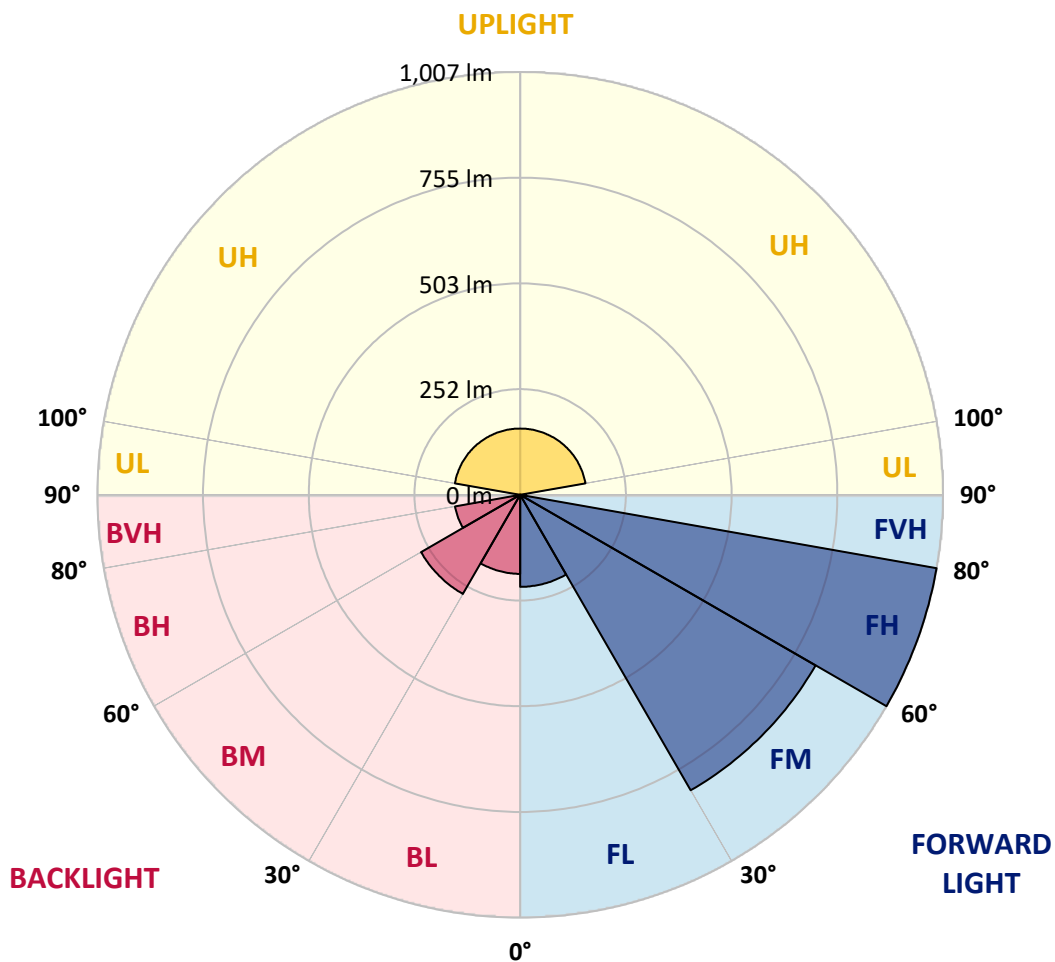
CATALOG NUMBER: ENT-E01-LED-E1-BL4-7050-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|--------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 219.1 | 7.3 | | | |
| FM | (30°-60°) | 812.3 | 27.1 | | | |
| FH | (60°-80°) | 1006.8 | 33.6 | | | G1/1800 |
| FVH | (80°-90°) | 14.2 | 0.5 | | | G1/100 |
| BL | (0°-30°) | 188.3 | 6.3 | B1/500 | | |
| BM | (30°-60°) | 272.7 | 9.1 | B1/1000 | | |
| BH | (60°-80°) | 157.4 | 5.3 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 9.8 | 0.3 | | | G0/10 |
| UL | (90°-100°) | 1.3 | 0.0 | | U1/10 | |
| UH | (100°-180°) | 157.7 | 5.3 | | U3/500 | |

BUG Rating: B1-U3-G1

Type III Short





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CATALOG NUMBER: ENT-E01-LED-E1-BL4-7050-ULG

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 579.2 | 579.2 | 579.2 | 579.2 | 579.2 | 579.2 | 579.2 | 579.2 | 579.2 | 579.2 | 579.2 |
| 2.5° | 571.0 | 571.0 | 572.1 | 572.1 | 573.6 | 574.6 | 573.6 | 575.6 | 575.6 | 575.1 | 576.2 |
| 5° | 562.8 | 562.8 | 563.3 | 563.3 | 564.4 | 565.9 | 564.9 | 566.9 | 566.4 | 566.9 | 566.9 |
| 7.5° | 553.1 | 553.1 | 554.1 | 553.6 | 554.1 | 555.1 | 552.6 | 554.1 | 554.1 | 554.6 | 554.1 |
| 10° | 540.8 | 541.8 | 542.8 | 542.3 | 542.3 | 542.8 | 538.7 | 540.2 | 539.7 | 539.7 | 539.2 |
| 12.5° | 529.5 | 528.4 | 529.5 | 530.5 | 530.0 | 530.0 | 525.9 | 524.9 | 524.9 | 524.9 | 525.4 |
| 15° | 517.7 | 518.7 | 520.2 | 518.7 | 517.7 | 515.6 | 511.5 | 510.5 | 510.5 | 510.5 | 511.0 |
| 17.5° | 515.1 | 515.1 | 516.1 | 514.6 | 510.5 | 506.4 | 498.2 | 496.6 | 496.6 | 496.1 | 496.1 |
| 20° | 522.3 | 521.8 | 523.3 | 520.2 | 511.0 | 500.2 | 487.4 | 484.8 | 484.8 | 484.8 | 484.3 |
| 22.5° | 537.2 | 537.2 | 539.7 | 536.1 | 521.3 | 500.7 | 481.8 | 477.7 | 477.1 | 476.6 | 475.6 |
| 25° | 565.9 | 565.4 | 566.9 | 557.7 | 536.1 | 507.4 | 480.2 | 474.1 | 473.5 | 472.5 | 471.5 |
| 27.5° | 599.2 | 600.3 | 603.4 | 589.5 | 557.7 | 519.2 | 486.9 | 476.6 | 475.6 | 474.1 | 472.0 |
| 30° | 632.1 | 635.2 | 640.8 | 625.9 | 582.3 | 534.1 | 497.1 | 485.3 | 483.3 | 481.2 | 477.7 |
| 32.5° | 673.6 | 672.6 | 681.8 | 659.3 | 603.9 | 550.0 | 507.9 | 493.6 | 491.0 | 487.9 | 483.3 |
| 35° | 717.8 | 719.8 | 721.9 | 685.4 | 621.8 | 562.8 | 514.6 | 498.2 | 495.1 | 492.0 | 485.3 |
| 37.5° | 761.9 | 762.4 | 757.8 | 706.5 | 632.6 | 570.5 | 518.2 | 499.2 | 495.1 | 490.5 | 482.8 |
| 40° | 802.4 | 800.9 | 787.0 | 722.4 | 638.8 | 574.6 | 519.7 | 497.1 | 492.0 | 487.4 | 478.7 |
| 42.5° | 825.5 | 824.0 | 806.5 | 729.6 | 639.3 | 574.1 | 519.7 | 495.1 | 489.5 | 483.8 | 474.1 |
| 45° | 835.2 | 834.2 | 814.2 | 730.6 | 635.7 | 571.0 | 516.6 | 493.0 | 487.4 | 482.3 | 472.0 |
| 47.5° | 836.3 | 836.3 | 815.8 | 729.0 | 632.6 | 569.0 | 516.6 | 495.6 | 491.0 | 486.9 | 479.2 |
| 50° | 831.7 | 832.2 | 816.3 | 733.2 | 635.2 | 573.6 | 521.8 | 501.8 | 497.1 | 493.0 | 484.3 |
| 52.5° | 886.0 | 880.9 | 845.5 | 751.6 | 652.1 | 588.5 | 539.2 | 521.3 | 519.7 | 517.2 | 510.5 |
| 55° | 1301.6 | 1305.7 | 1112.3 | 867.1 | 723.4 | 664.9 | 644.4 | 640.8 | 652.1 | 656.2 | 656.2 |
| 57.5° | 1652.5 | 1639.2 | 1566.3 | 1265.2 | 946.1 | 875.8 | 884.0 | 892.7 | 909.1 | 916.3 | 921.4 |
| 60° | 1738.2 | 1739.2 | 1737.2 | 1651.5 | 1396.5 | 1236.5 | 1196.4 | 1158.5 | 1156.9 | 1143.6 | 1133.3 |
| 62.5° | 1728.0 | 1736.2 | 1774.6 | 1794.1 | 1819.3 | 1701.8 | 1457.6 | 1352.4 | 1331.9 | 1306.7 | 1270.8 |
| 65° | 1653.6 | 1665.9 | 1727.4 | 1822.4 | 2038.9 | 2135.3 | 1633.6 | 1445.3 | 1413.5 | 1383.2 | 1322.6 |
| 67.5° | 1408.8 | 1435.5 | 1553.5 | 1732.6 | 2065.0 | 2309.3 | 1662.3 | 1400.1 | 1358.1 | 1318.5 | 1246.7 |
| 70° | 869.6 | 883.5 | 1065.6 | 1398.1 | 1871.1 | 2105.6 | 1509.4 | 1188.2 | 1134.9 | 1084.6 | 986.6 |
| 72.5° | 561.3 | 556.7 | 587.4 | 787.5 | 1375.0 | 1636.1 | 1037.9 | 790.1 | 746.5 | 706.5 | 643.4 |
| 75° | 393.0 | 393.5 | 379.7 | 375.6 | 637.7 | 1013.3 | 470.0 | 337.6 | 318.1 | 309.9 | 296.5 |
| 77.5° | 256.0 | 259.1 | 255.5 | 265.2 | 255.5 | 421.2 | 216.0 | 158.5 | 150.8 | 145.7 | 137.5 |
| 80° | 154.4 | 164.7 | 167.8 | 169.8 | 172.4 | 159.0 | 128.3 | 93.4 | 84.1 | 75.4 | 62.1 |
| 82.5° | 27.2 | 26.7 | 36.9 | 49.8 | 65.2 | 74.4 | 53.9 | 33.9 | 31.8 | 30.8 | 28.2 |
| 85° | 0.0 | 0.0 | 0.5 | 0.5 | 1.0 | 3.6 | 5.6 | 6.7 | 6.2 | 6.7 | 7.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 90° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 92.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 95° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 97.5° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 100° | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| 102.5° | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 |
| 105° | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| 107.5° | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 |
| 110° | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 |



REPORT NUMBER: P159979

CATALOG NUMBER: ENT-E01-LED-E1-BL4-7050-ULG

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 |
| 115° | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 |
| 117.5° | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 |
| 120° | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 |
| 122.5° | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 |
| 125° | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 |
| 127.5° | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 |
| 130° | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 |
| 132.5° | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 |
| 135° | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 |
| 137.5° | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 |
| 140° | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 |
| 142.5° | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 |
| 145° | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 |
| 147.5° | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 |
| 150° | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 |
| 152.5° | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 |
| 155° | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 |
| 157.5° | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 |
| 160° | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 |
| 162.5° | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 |
| 165° | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 |
| 167.5° | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 |
| 170° | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 |
| 172.5° | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 |
| 175° | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 |
| 177.5° | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 |
| 180° | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 |



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CATALOG NUMBER: ENT-E01-LED-E1-BL4-7050-ULG

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 71° | 72° | 73° | 74° | 75° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 579.2 | 579.2 | 579.2 | 579.2 | 579.2 | 579.2 | 579.2 | 579.2 | 579.2 | 579.2 | 579.2 |
| 2.5° | 576.2 | 575.6 | 575.1 | 575.1 | 576.2 | 576.2 | 575.6 | 575.6 | 576.2 | 575.6 | 576.7 |
| 5° | 567.4 | 566.9 | 566.9 | 566.4 | 566.9 | 567.4 | 566.9 | 566.9 | 567.4 | 566.9 | 567.9 |
| 7.5° | 553.6 | 554.1 | 553.6 | 553.6 | 554.1 | 554.6 | 554.1 | 554.1 | 554.1 | 554.1 | 553.6 |
| 10° | 539.2 | 539.2 | 538.7 | 538.7 | 539.7 | 539.2 | 538.7 | 538.7 | 539.2 | 539.7 | 538.7 |
| 12.5° | 524.9 | 525.9 | 525.9 | 523.8 | 524.3 | 524.9 | 524.9 | 524.3 | 524.3 | 525.9 | 524.3 |
| 15° | 510.5 | 511.0 | 510.5 | 511.0 | 510.0 | 509.5 | 510.0 | 510.0 | 508.9 | 508.4 | 508.4 |
| 17.5° | 496.1 | 495.6 | 495.6 | 494.6 | 494.1 | 494.1 | 493.6 | 494.1 | 493.0 | 493.6 | 492.0 |
| 20° | 483.3 | 482.8 | 482.3 | 482.3 | 480.7 | 480.7 | 480.7 | 480.2 | 479.2 | 479.2 | 478.7 |
| 22.5° | 475.6 | 475.1 | 474.6 | 473.5 | 473.0 | 472.5 | 472.5 | 472.0 | 471.0 | 470.5 | 470.0 |
| 25° | 471.5 | 471.0 | 470.0 | 468.9 | 468.4 | 467.9 | 467.9 | 467.4 | 466.4 | 465.3 | 464.8 |
| 27.5° | 472.0 | 471.0 | 470.0 | 468.9 | 468.4 | 467.4 | 466.9 | 466.4 | 465.3 | 464.3 | 463.3 |
| 30° | 476.6 | 474.6 | 472.5 | 471.0 | 469.4 | 467.9 | 466.9 | 466.4 | 464.8 | 463.3 | 461.7 |
| 32.5° | 481.2 | 478.7 | 475.6 | 472.5 | 470.0 | 467.4 | 465.9 | 464.3 | 462.3 | 459.7 | 458.2 |
| 35° | 482.8 | 479.7 | 475.1 | 472.5 | 468.9 | 465.9 | 463.3 | 461.2 | 457.6 | 454.6 | 452.0 |
| 37.5° | 479.2 | 475.6 | 471.0 | 467.4 | 463.8 | 459.7 | 456.6 | 453.5 | 451.0 | 447.4 | 444.8 |
| 40° | 473.5 | 469.4 | 464.8 | 459.7 | 456.1 | 452.0 | 448.9 | 446.4 | 442.8 | 439.7 | 437.6 |
| 42.5° | 468.9 | 464.3 | 459.2 | 455.1 | 451.0 | 446.9 | 443.3 | 440.7 | 437.1 | 433.5 | 431.0 |
| 45° | 467.4 | 462.8 | 458.7 | 453.5 | 449.4 | 446.4 | 443.3 | 439.7 | 436.6 | 433.5 | 430.5 |
| 47.5° | 475.6 | 471.5 | 467.4 | 463.3 | 459.7 | 456.1 | 453.0 | 449.4 | 445.8 | 441.7 | 438.7 |
| 50° | 480.2 | 475.6 | 472.0 | 467.4 | 463.3 | 459.7 | 456.6 | 453.0 | 450.5 | 446.4 | 443.3 |
| 52.5° | 513.6 | 507.4 | 508.4 | 504.3 | 504.3 | 500.2 | 503.3 | 498.7 | 501.3 | 498.2 | 502.8 |
| 55° | 654.7 | 656.7 | 669.5 | 671.6 | 676.7 | 676.2 | 679.3 | 692.6 | 687.5 | 680.8 | 682.9 |
| 57.5° | 907.6 | 912.2 | 918.9 | 912.7 | 917.3 | 918.4 | 927.1 | 923.5 | 920.4 | 918.4 | 911.7 |
| 60° | 1127.2 | 1121.0 | 1111.3 | 1099.5 | 1094.9 | 1089.7 | 1081.0 | 1081.0 | 1069.7 | 1066.1 | 1057.4 |
| 62.5° | 1256.0 | 1238.0 | 1225.7 | 1206.7 | 1193.4 | 1184.1 | 1168.7 | 1156.9 | 1141.5 | 1129.7 | 1115.9 |
| 65° | 1298.0 | 1267.8 | 1246.2 | 1222.6 | 1201.6 | 1181.6 | 1159.5 | 1142.6 | 1123.6 | 1110.8 | 1088.7 |
| 67.5° | 1216.4 | 1185.7 | 1149.2 | 1124.1 | 1102.0 | 1076.9 | 1042.5 | 1021.5 | 1005.1 | 980.4 | 969.7 |
| 70° | 947.1 | 914.8 | 869.1 | 856.8 | 822.9 | 783.9 | 749.1 | 728.0 | 703.9 | 687.0 | 669.0 |
| 72.5° | 600.8 | 564.4 | 544.3 | 529.5 | 507.4 | 475.1 | 444.8 | 432.5 | 411.5 | 406.9 | 395.1 |
| 75° | 282.2 | 257.6 | 252.4 | 248.8 | 224.7 | 220.1 | 210.9 | 206.8 | 197.0 | 191.9 | 189.8 |
| 77.5° | 126.2 | 120.6 | 111.3 | 108.8 | 101.1 | 93.4 | 84.1 | 80.0 | 74.9 | 71.8 | 67.7 |
| 80° | 57.5 | 51.8 | 48.2 | 45.7 | 44.6 | 42.1 | 40.0 | 38.5 | 36.9 | 36.9 | 34.4 |
| 82.5° | 27.7 | 26.7 | 25.7 | 25.7 | 24.1 | 24.1 | 22.6 | 22.1 | 21.5 | 21.0 | 21.0 |
| 85° | 7.7 | 7.7 | 7.7 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.7 | 8.7 |
| 87.5° | 1.0 | 1.0 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 90° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 92.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 95° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 97.5° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 100° | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| 102.5° | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 |
| 105° | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| 107.5° | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 |
| 110° | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 |



REPORT NUMBER: P159979

CATALOG NUMBER: ENT-E01-LED-E1-BL4-7050-ULG

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 71° | 72° | 73° | 74° | 75° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 |
| 115° | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 |
| 117.5° | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 |
| 120° | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 |
| 122.5° | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 |
| 125° | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 |
| 127.5° | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 |
| 130° | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 |
| 132.5° | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 |
| 135° | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 |
| 137.5° | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 |
| 140° | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 |
| 142.5° | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 |
| 145° | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 |
| 147.5° | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 |
| 150° | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 |
| 152.5° | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 |
| 155° | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 |
| 157.5° | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 |
| 160° | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 |
| 162.5° | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 |
| 165° | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 |
| 167.5° | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 |
| 170° | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 |
| 172.5° | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 |
| 175° | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 |
| 177.5° | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 |
| 180° | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 |



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CATALOG NUMBER: ENT-E01-LED-E1-BL4-7050-ULG

CANDELA DISTRIBUTION (continued):

| | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° | 84° | 85° | 86° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0° | 579.2 | 579.2 | 579.2 | 579.2 | 579.2 | 579.2 | 579.2 | 579.2 | 579.2 | 579.2 | 579.2 |
| 2.5° | 576.2 | 576.2 | 576.2 | 577.2 | 576.7 | 578.2 | 578.2 | 578.2 | 579.2 | 579.7 | 579.2 |
| 5° | 567.9 | 567.9 | 567.9 | 568.5 | 568.5 | 569.5 | 569.5 | 570.5 | 570.5 | 571.0 | 571.0 |
| 7.5° | 554.6 | 555.1 | 555.1 | 556.1 | 555.6 | 556.1 | 556.1 | 557.7 | 557.7 | 558.2 | 558.2 |
| 10° | 539.2 | 539.7 | 539.7 | 539.7 | 540.2 | 540.8 | 540.8 | 541.8 | 542.3 | 542.3 | 543.3 |
| 12.5° | 524.9 | 524.3 | 524.9 | 524.3 | 525.9 | 525.9 | 526.4 | 525.9 | 526.4 | 526.9 | 527.4 |
| 15° | 508.9 | 508.9 | 508.4 | 508.9 | 508.9 | 508.4 | 507.9 | 508.4 | 509.5 | 509.5 | 509.5 |
| 17.5° | 493.0 | 491.5 | 491.5 | 491.5 | 491.0 | 490.0 | 491.0 | 490.5 | 490.5 | 491.0 | 490.5 |
| 20° | 478.2 | 477.7 | 477.1 | 476.6 | 476.1 | 474.6 | 474.6 | 474.6 | 474.1 | 474.1 | 474.1 |
| 22.5° | 468.9 | 468.4 | 467.9 | 467.4 | 465.3 | 464.3 | 463.8 | 463.3 | 462.3 | 461.7 | 461.2 |
| 25° | 463.8 | 462.8 | 461.7 | 460.7 | 459.2 | 457.6 | 456.1 | 455.6 | 454.6 | 453.5 | 452.0 |
| 27.5° | 462.3 | 461.2 | 459.2 | 458.2 | 456.1 | 454.6 | 453.0 | 451.5 | 449.9 | 448.4 | 446.9 |
| 30° | 459.7 | 458.2 | 456.1 | 454.6 | 453.0 | 450.5 | 448.4 | 446.9 | 444.3 | 442.8 | 440.7 |
| 32.5° | 456.1 | 454.1 | 452.0 | 449.9 | 447.9 | 445.3 | 442.8 | 440.7 | 438.7 | 436.6 | 434.0 |
| 35° | 449.9 | 447.4 | 444.3 | 442.3 | 439.7 | 437.1 | 435.1 | 431.5 | 429.9 | 427.4 | 424.8 |
| 37.5° | 441.7 | 439.2 | 436.6 | 434.0 | 431.0 | 428.9 | 425.8 | 422.8 | 421.2 | 419.7 | 416.1 |
| 40° | 434.6 | 431.5 | 428.9 | 426.9 | 423.3 | 421.7 | 418.7 | 415.6 | 413.5 | 412.0 | 408.9 |
| 42.5° | 427.9 | 424.8 | 422.2 | 419.2 | 416.6 | 414.5 | 412.0 | 408.9 | 406.9 | 405.8 | 403.3 |
| 45° | 427.9 | 424.3 | 421.2 | 418.7 | 416.1 | 413.5 | 411.5 | 408.4 | 406.9 | 404.8 | 403.3 |
| 47.5° | 435.1 | 431.0 | 427.4 | 423.8 | 420.2 | 417.6 | 414.5 | 411.5 | 408.9 | 407.4 | 405.3 |
| 50° | 440.2 | 436.1 | 434.0 | 429.9 | 427.9 | 424.3 | 420.7 | 419.2 | 416.6 | 415.1 | 414.5 |
| 52.5° | 502.8 | 500.2 | 500.7 | 490.5 | 488.4 | 493.6 | 485.3 | 492.5 | 490.5 | 484.3 | 484.3 |
| 55° | 694.7 | 693.6 | 698.3 | 685.4 | 679.8 | 690.1 | 694.2 | 679.3 | 682.9 | 682.9 | 681.8 |
| 57.5° | 918.4 | 911.7 | 905.0 | 906.6 | 898.4 | 904.5 | 896.8 | 887.6 | 891.2 | 888.1 | 877.3 |
| 60° | 1051.8 | 1047.7 | 1037.9 | 1028.7 | 1019.9 | 1011.7 | 1004.6 | 996.3 | 992.2 | 985.1 | 977.4 |
| 62.5° | 1105.6 | 1094.9 | 1083.1 | 1070.7 | 1056.9 | 1043.5 | 1035.3 | 1024.6 | 1013.3 | 1006.1 | 997.9 |
| 65° | 1076.9 | 1061.0 | 1048.2 | 1030.2 | 1015.3 | 998.9 | 988.1 | 975.8 | 965.6 | 953.3 | 943.0 |
| 67.5° | 948.6 | 930.2 | 896.3 | 879.9 | 857.8 | 832.2 | 825.0 | 810.1 | 804.5 | 786.0 | 755.7 |
| 70° | 645.9 | 627.5 | 606.9 | 573.6 | 552.0 | 530.0 | 505.9 | 488.4 | 485.9 | 471.0 | 448.9 |
| 72.5° | 379.7 | 366.8 | 353.5 | 334.5 | 318.6 | 309.9 | 293.0 | 275.5 | 275.0 | 258.1 | 249.3 |
| 75° | 179.6 | 172.9 | 159.6 | 154.9 | 140.6 | 139.6 | 128.8 | 126.7 | 128.8 | 123.6 | 122.6 |
| 77.5° | 61.1 | 59.5 | 56.4 | 52.3 | 49.3 | 48.2 | 45.7 | 44.1 | 43.1 | 42.1 | 41.0 |
| 80° | 33.3 | 32.3 | 31.8 | 30.3 | 29.2 | 28.7 | 27.2 | 26.7 | 26.2 | 25.7 | 25.1 |
| 82.5° | 20.0 | 20.5 | 19.5 | 18.5 | 18.5 | 17.4 | 16.9 | 16.4 | 15.9 | 15.9 | 15.9 |
| 85° | 8.2 | 8.7 | 8.2 | 7.7 | 7.2 | 7.7 | 7.7 | 7.2 | 6.7 | 7.2 | 7.2 |
| 87.5° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 90° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 92.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 95° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 97.5° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 100° | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| 102.5° | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 |
| 105° | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| 107.5° | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 |
| 110° | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 |



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

| | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° | 84° | 85° | 86° | |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 112.5° | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 0° |
| 115° | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 2.5° |
| 117.5° | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 5° |
| 120° | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 7.5° |
| 122.5° | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 10° |
| 125° | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 12.5° |
| 127.5° | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 15° |
| 130° | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 17.5° |
| 132.5° | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 20° |
| 135° | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 22.5° |
| 137.5° | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 25° |
| 140° | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 27.5° |
| 142.5° | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 30° |
| 145° | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 32.5° |
| 147.5° | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 35° |
| 150° | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 37.5° |
| 152.5° | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 40° |
| 155° | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 42.5° |
| 157.5° | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 45° |
| 160° | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 47.5° |
| 162.5° | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 50° |
| 165° | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 52.5° |
| 167.5° | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 55° |
| 170° | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 57.5° |
| 172.5° | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 60° |
| 175° | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 62.5° |
| 177.5° | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 65° |
| 180° | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 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: P159979
 NUMBER: ENT-E01-LED-E1-BL4-7050-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

| 87° | 88° | 89° | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 112.5° | 115° | 117.5° | 120° | 122.5° | 125° | 127.5° | 130° | 132.5° | 135° | 137.5° | 140° | 142.5° | 145° | 147.5° | 150° | 152.5° | 155° | 160° | 162.5° | 165° | 167.5° | 170° | 172.5° | 175° | 177.5° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|------|--------|------|--------|------|--------|------|--------|------|
| 579.2 | 579.2 | 579.2 | 579.2 | 579.2 | 579.2 | 579.2 | 579.2 | 579.2 | 579.2 | 579.2 | 112.5° | 21.2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 578.2 | 577.7 | 577.7 | 577.2 | 576.7 | 577.7 | 578.7 | 580.3 | 579.2 | 580.3 | 580.8 | 115° | 25.0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 570.0 | 570.0 | 570.0 | 570.5 | 570.0 | 571.5 | 573.6 | 576.7 | 577.2 | 579.2 | 580.8 | 117.5° | 29.5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 556.7 | 556.7 | 557.2 | 557.7 | 557.2 | 559.2 | 562.8 | 566.4 | 569.0 | 572.6 | 575.6 | 120° | 34.8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 541.3 | 541.3 | 541.3 | 541.3 | 541.8 | 544.3 | 546.9 | 551.0 | 555.1 | 560.8 | 565.4 | 122.5° | 40.9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 527.4 | 525.9 | 526.4 | 527.4 | 526.4 | 526.4 | 529.0 | 532.0 | 534.6 | 541.8 | 550.0 | 125° | 47.8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 508.9 | 508.9 | 507.9 | 508.4 | 505.9 | 505.4 | 506.4 | 508.4 | 510.5 | 516.6 | 525.4 | 127.5° | 55.3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 489.5 | 489.5 | 489.5 | 487.9 | 485.9 | 480.7 | 480.2 | 480.2 | 480.2 | 484.8 | 495.1 | 130° | 63.0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 472.0 | 472.0 | 471.0 | 470.0 | 465.3 | 456.6 | 449.4 | 446.4 | 445.3 | 453.0 | 457.6 | 132.5° | 70.5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 459.7 | 459.2 | 457.1 | 456.1 | 448.9 | 435.1 | 423.8 | 415.1 | 412.5 | 415.1 | 416.6 | 135° | 77.9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 449.9 | 448.9 | 446.9 | 444.8 | 435.1 | 416.1 | 398.1 | 383.3 | 376.1 | 374.0 | 368.9 | 137.5° | 85.3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 444.3 | 442.8 | 439.7 | 437.6 | 424.8 | 400.7 | 377.1 | 357.6 | 344.3 | 334.5 | 325.3 | 140° | 92.5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 438.1 | 435.6 | 432.5 | 429.4 | 415.1 | 388.4 | 361.2 | 337.1 | 313.5 | 296.5 | 283.2 | 142.5° | 99.2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 431.0 | 428.4 | 425.3 | 422.2 | 406.3 | 377.1 | 348.4 | 318.6 | 285.8 | 262.7 | 242.7 | 145° | 104.9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 422.2 | 419.7 | 416.6 | 413.0 | 397.1 | 367.9 | 339.6 | 300.6 | 261.1 | 231.4 | 205.2 | 147.5° | 110.1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 413.5 | 411.0 | 407.9 | 404.3 | 388.4 | 363.2 | 334.5 | 283.7 | 238.6 | 202.1 | 167.8 | 150° | 115.1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 406.9 | 404.3 | 401.2 | 398.1 | 383.8 | 361.2 | 331.9 | 269.4 | 218.6 | 173.4 | 133.9 | 152.5° | 119.7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 401.2 | 398.6 | 396.1 | 393.0 | 380.7 | 362.2 | 326.3 | 257.0 | 199.1 | 144.7 | 105.2 | 155° | 123.7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400.7 | 399.2 | 396.1 | 393.5 | 381.7 | 366.8 | 321.7 | 246.3 | 179.1 | 117.0 | 88.8 | 157.5° | 127.0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 404.3 | 402.2 | 400.2 | 398.1 | 388.9 | 378.6 | 318.6 | 235.0 | 156.5 | 94.4 | 84.7 | 160° | 130.3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 413.0 | 411.0 | 409.9 | 408.9 | 403.3 | 394.5 | 318.6 | 223.2 | 130.3 | 83.1 | 84.1 | 162.5° | 133.5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 483.3 | 477.7 | 476.1 | 480.2 | 464.8 | 421.2 | 320.7 | 208.8 | 102.1 | 79.5 | 84.7 | 165° | 136.0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 679.8 | 685.4 | 671.1 | 663.9 | 637.2 | 487.4 | 322.2 | 187.3 | 83.1 | 79.0 | 83.6 | 167.5° | 137.1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 878.3 | 878.3 | 873.2 | 861.9 | 829.1 | 600.3 | 329.4 | 152.9 | 75.9 | 78.0 | 82.6 | 170° | 137.4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 975.3 | 969.2 | 964.0 | 957.4 | 907.6 | 678.8 | 340.2 | 112.9 | 72.9 | 77.5 | 81.6 | 172.5° | 138.6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 992.8 | 983.0 | 976.3 | 967.6 | 901.4 | 682.9 | 344.8 | 84.7 | 69.8 | 77.5 | 79.0 | 175° | 140.5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 935.3 | 925.0 | 916.3 | 901.9 | 821.4 | 618.2 | 321.7 | 69.3 | 67.7 | 75.4 | 76.4 | 177.5° | 141.1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 757.8 | 745.5 | 738.8 | 731.6 | 678.3 | 542.8 | 260.1 | 62.1 | 65.2 | 71.8 | 73.9 | 180° | 140.8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 433.5 | 420.2 | 412.5 | 414.0 | 381.7 | 429.4 | 207.8 | 56.9 | 61.6 | 67.7 | 70.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 233.4 | 219.1 | 214.5 | 199.6 | 170.3 | 216.5 | 160.1 | 52.3 | 56.9 | 61.6 | 64.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 115.4 | 110.3 | 111.8 | 104.7 | 88.8 | 66.7 | 103.1 | 46.7 | 50.8 | 55.4 | 57.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40.0 | 39.0 | 38.5 | 38.0 | 36.9 | 35.4 | 47.2 | 40.0 | 43.6 | 47.2 | 49.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24.6 | 24.1 | 24.6 | 24.1 | 23.6 | 27.2 | 30.3 | 31.8 | 34.9 | 39.5 | 40.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | 19.0 | 21.5 | 24.6 | 27.2 | 30.3 | 32.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.2 | 7.2 | 7.2 | 7.2 | 7.7 | 12.8 | 14.4 | 18.0 | 19.0 | 21.5 | 23.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.5 | 1.5 | 1.5 | 1.5 | 2.1 | 6.7 | 8.7 | 10.8 | 11.3 | 11.3 | 12.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

'159979
 ENT-E01-LED-E1-BL4-7050-ULG

REPORT NUMBER: P159979
 CATALOG NUMBER: ENT-E01-I

TION (continued):

CANDELA DISTRIBUTION (con

| 88° | 89° | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | | 165° | 175° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 0° | 579.2 | 579.2 |
| 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 2.5° | 580.3 | 579.2 |
| 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 5° | 581.8 | 580.8 |
| 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 7.5° | 577.7 | 578.2 |
| 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 10° | 569.0 | 570.5 |
| 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 12.5° | 555.1 | 558.2 |
| 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 15° | 532.0 | 536.7 |
| 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 17.5° | 501.3 | 506.9 |
| 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 20° | 462.8 | 465.3 |
| 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 22.5° | 415.6 | 416.6 |
| 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 25° | 365.8 | 365.8 |
| 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 27.5° | 319.6 | 317.1 |
| 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 30° | 275.5 | 268.8 |
| 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 32.5° | 228.8 | 217.5 |
| 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 35° | 181.6 | 172.4 |
| 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 37.5° | 141.1 | 130.8 |
| 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 40° | 108.3 | 100.6 |
| 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 42.5° | 91.3 | 89.8 |
| 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 45° | 87.2 | 89.3 |
| 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 47.5° | 87.7 | 90.3 |
| 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 50° | 88.2 | 90.8 |
| 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 52.5° | 88.2 | 89.8 |
| 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 55° | 87.2 | 87.2 |
| 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 57.5° | 85.2 | 84.7 |
| 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 60° | 83.6 | 83.6 |
| 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 62.5° | 81.1 | 81.1 |
| 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 65° | 77.0 | 77.5 |
| 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 67.5° | 72.9 | 72.9 |
| | | | | | | | | | | 70° | 67.7 | 67.7 |
| | | | | | | | | | | 72.5° | 62.6 | 64.6 |
| | | | | | | | | | | 75° | 59.0 | 62.6 |
| | | | | | | | | | | 77.5° | 51.8 | 55.4 |
| | | | | | | | | | | 80° | 42.6 | 43.1 |
| | | | | | | | | | | 82.5° | 33.9 | 32.8 |
| | | | | | | | | | | 85° | 24.1 | 22.6 |
| | | | | | | | | | | 87.5° | 12.8 | 12.3 |
| | | | | | | | | | | 90° | 0.1 | 0.1 |
| | | | | | | | | | | 92.5° | 0.1 | 0.1 |
| | | | | | | | | | | 95° | 0.5 | 0.5 |
| | | | | | | | | | | 97.5° | 1.5 | 1.5 |
| | | | | | | | | | | 100° | 5.0 | 5.0 |
| | | | | | | | | | | 102.5° | 8.8 | 8.8 |
| | | | | | | | | | | 105° | 11.8 | 11.8 |
| | | | | | | | | | | 107.5° | 14.7 | 14.7 |
| | | | | | | | | | | 110° | 17.8 | 17.8 |

REPORT NUMBER: P159979

CATALOG NUMBER: ENT-E01-LED-E1-BL

LED-E1-BL4-7050-ULG

tinued):

| |
|-------|
| 180° |
| 579.2 |
| 578.7 |
| 580.3 |
| 577.7 |
| 571.0 |
| 560.3 |
| 535.6 |
| 506.9 |
| 463.8 |
| 415.1 |
| 363.8 |
| 315.5 |
| 266.8 |
| 217.5 |
| 169.8 |
| 127.8 |
| 100.0 |
| 90.3 |
| 89.3 |
| 90.8 |
| 91.3 |
| 89.8 |
| 87.2 |
| 85.7 |
| 83.6 |
| 81.1 |
| 77.5 |
| 72.9 |
| 68.7 |
| 65.7 |
| 64.1 |
| 57.5 |
| 43.1 |
| 31.3 |
| 22.6 |
| 12.8 |
| 0.1 |
| 0.1 |
| 0.5 |
| 1.5 |
| 5.0 |
| 8.8 |
| 11.8 |
| 14.7 |
| 17.8 |

CANDELA DISTRIBUTION (continued):

| | 165° | 175° | 180° |
|--------|-------|-------|-------|
| 112.5° | 21.2 | 21.2 | 21.2 |
| 115° | 25.0 | 25.0 | 25.0 |
| 117.5° | 29.5 | 29.5 | 29.5 |
| 120° | 34.8 | 34.8 | 34.8 |
| 122.5° | 40.9 | 40.9 | 40.9 |
| 125° | 47.8 | 47.8 | 47.8 |
| 127.5° | 55.3 | 55.3 | 55.3 |
| 130° | 63.0 | 63.0 | 63.0 |
| 132.5° | 70.5 | 70.5 | 70.5 |
| 135° | 77.9 | 77.9 | 77.9 |
| 137.5° | 85.3 | 85.3 | 85.3 |
| 140° | 92.5 | 92.5 | 92.5 |
| 142.5° | 99.2 | 99.2 | 99.2 |
| 145° | 104.9 | 104.9 | 104.9 |
| 147.5° | 110.1 | 110.1 | 110.1 |
| 150° | 115.1 | 115.1 | 115.1 |
| 152.5° | 119.7 | 119.7 | 119.7 |
| 155° | 123.7 | 123.7 | 123.7 |
| 157.5° | 127.0 | 127.0 | 127.0 |
| 160° | 130.3 | 130.3 | 130.3 |
| 162.5° | 133.5 | 133.5 | 133.5 |
| 165° | 136.0 | 136.0 | 136.0 |
| 167.5° | 137.1 | 137.1 | 137.1 |
| 170° | 137.4 | 137.4 | 137.4 |
| 172.5° | 138.6 | 138.6 | 138.6 |
| 175° | 140.5 | 140.5 | 140.5 |
| 177.5° | 141.1 | 141.1 | 141.1 |
| 180° | 140.8 | 140.8 | 140.8 |

(END OF F

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

Scaled Data Report

