

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: P159861

Luminaire Tested: **ENC-E01-LED-E1-BL4-8030-ULG**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P159861
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: ENC-E01-LED-E1-BL4-8030-ULG
Description: ENTRI LED LUMINAIRE WITH UPLIGHT
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2520.5 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U3 - G1

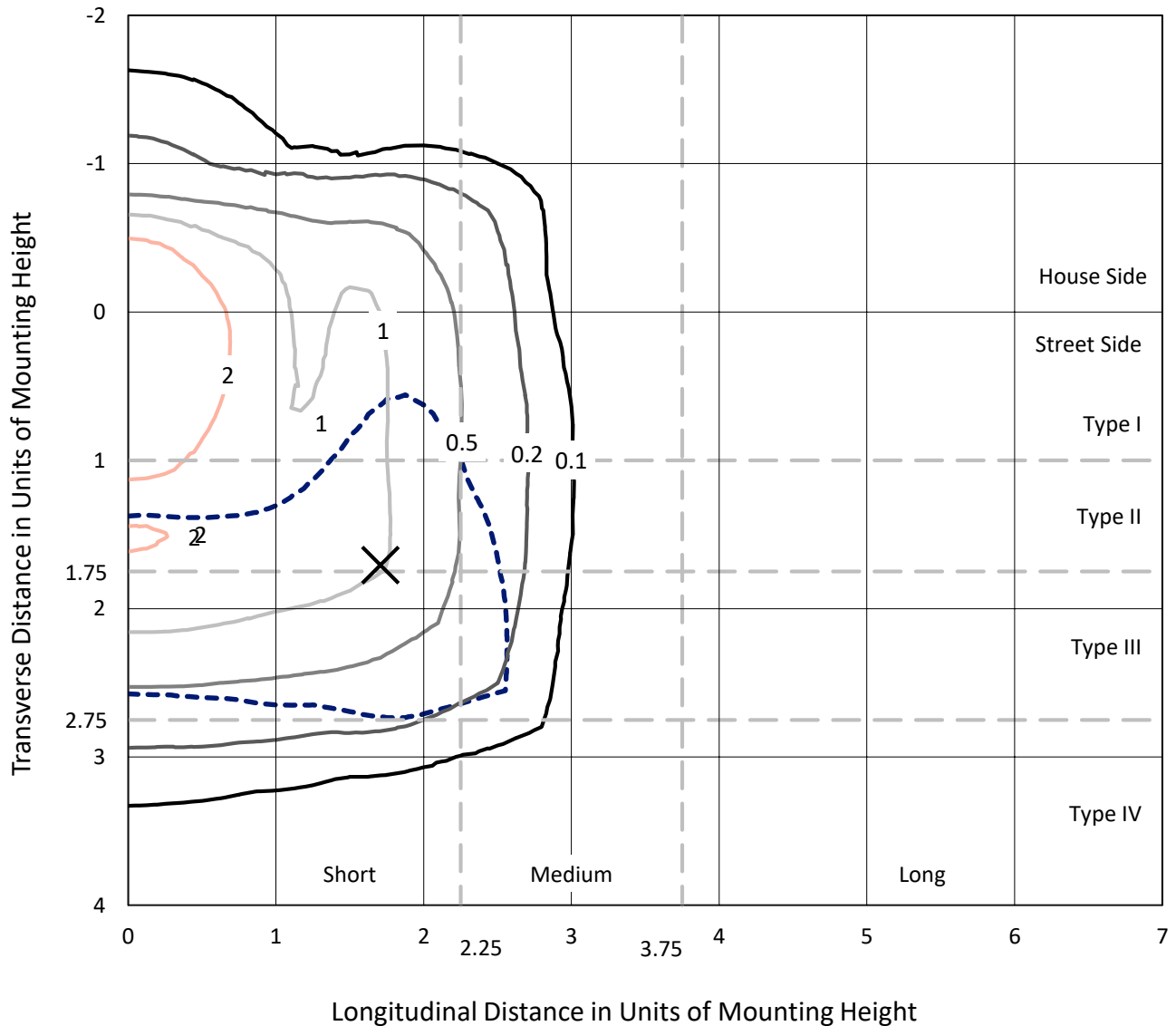
Input Watts (W): 32.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

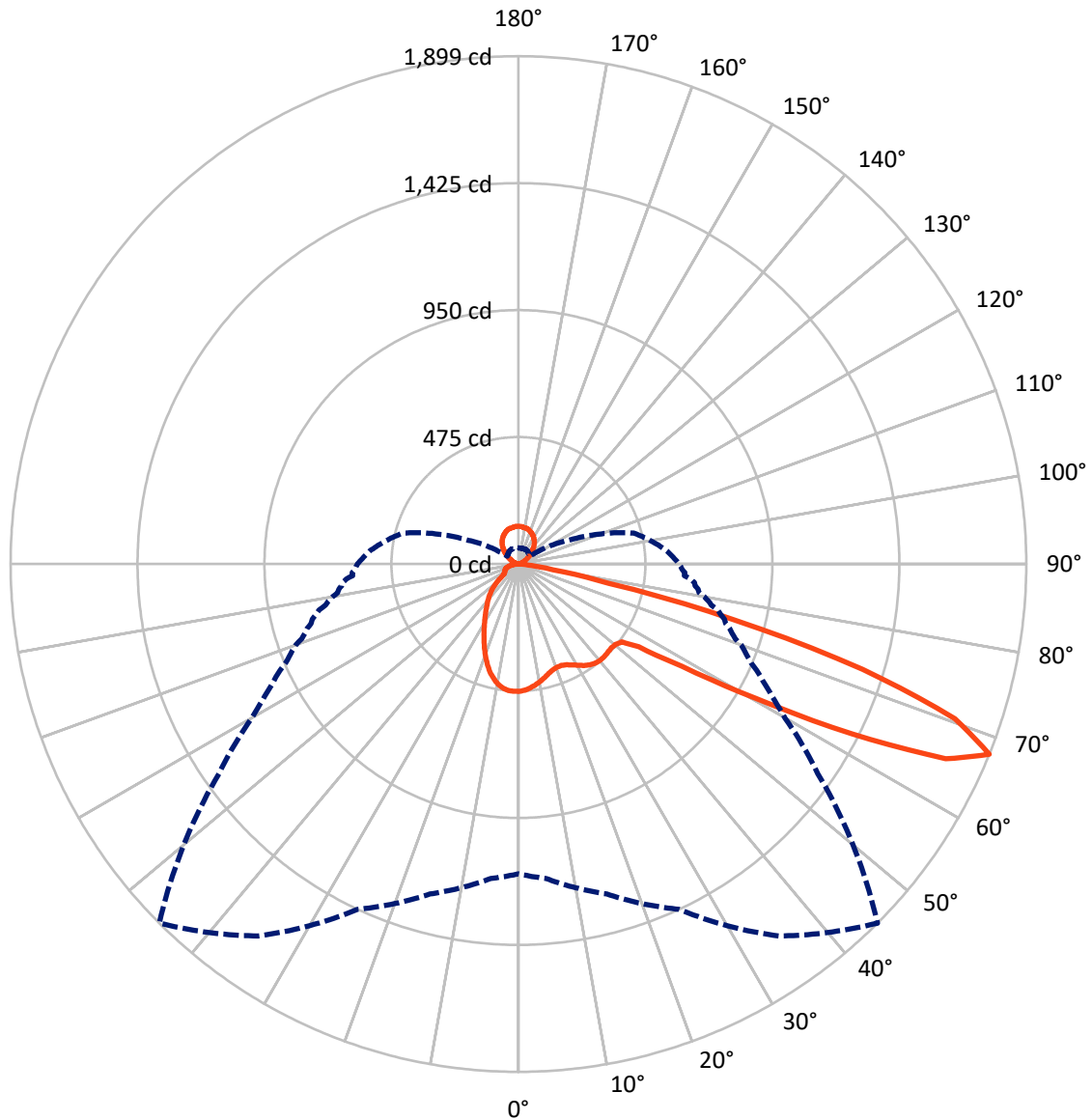
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - Non-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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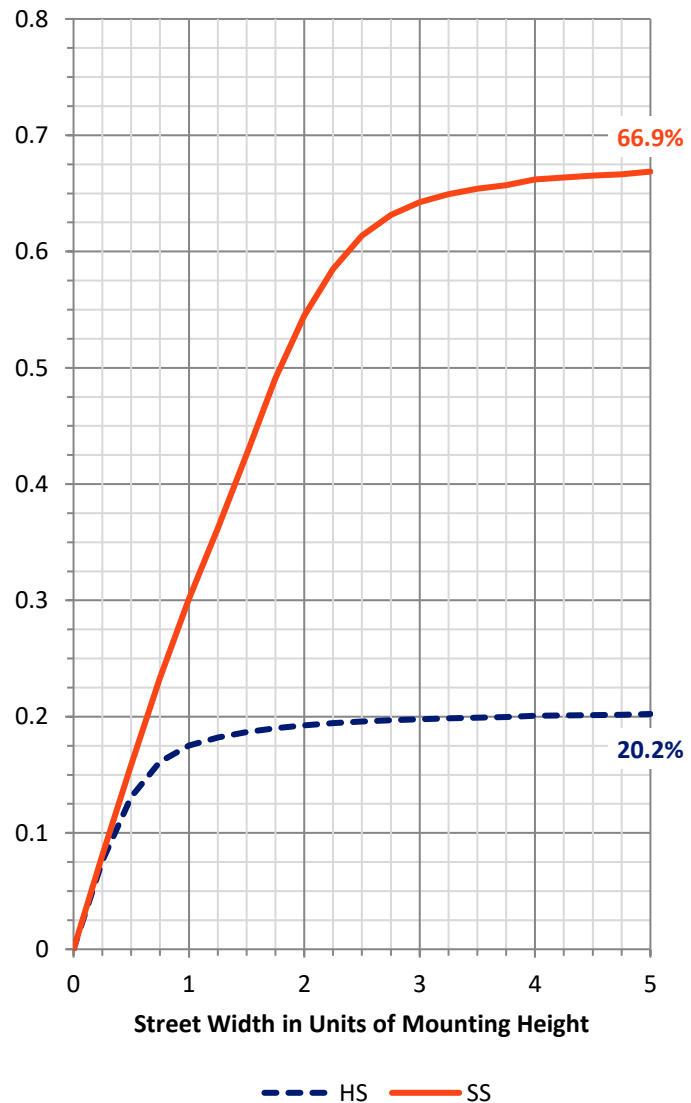
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 516.7 | 157.7 | 674.4 |
| | % Fixture | 20.5 | 6.3 | 26.8 |
| Street Side | Lumens | 1688.3 | 157.7 | 1846.0 |
| | % Fixture | 67.0 | 6.3 | 73.2 |
| Total | Lumens | 2205.0 | 315.5 | 2520.5 |
| | % Fixture | 87.5 | 12.5 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.2 | 1.8 |
| 10°-20° | 119.1 | 4.7 |
| 20°-30° | 171.7 | 6.8 |
| 30°-40° | 219.1 | 8.7 |
| 40°-50° | 258.6 | 10.3 |
| 50°-60° | 414.7 | 16.5 |
| 60°-70° | 698.0 | 27.7 |
| 70°-80° | 259.6 | 10.3 |
| 80°-90° | 19.7 | 0.8 |
| 90°-100° | 1.3 | 0.1 |
| 100°-110° | 12.3 | 0.5 |
| 110°-120° | 25.2 | 1.0 |
| 120°-130° | 43.0 | 1.7 |
| 130°-140° | 60.0 | 2.4 |
| 140°-150° | 65.4 | 2.6 |
| 150°-160° | 56.9 | 2.3 |
| 160°-170° | 38.2 | 1.5 |
| 170°-180° | 13.3 | 0.5 |
| 0°-90° | 2205.0 | 87.5 |
| 0°-180° | 2520.5 | 100.0 |



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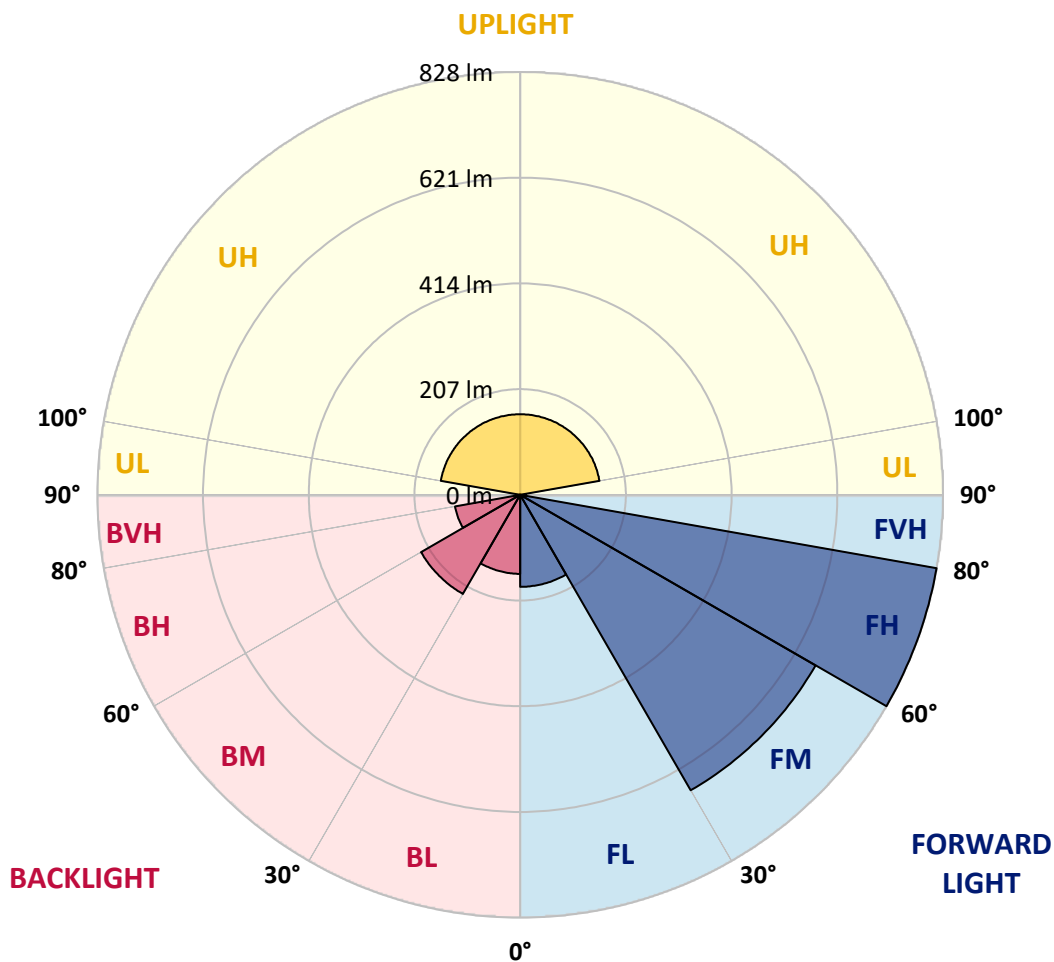
CATALOG NUMBER: ENC-E01-LED-E1-BL4-8030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|--------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 180.2 | 7.2 | | | |
| FM | (30°-60°) | 668.2 | 26.5 | | | |
| FH | (60°-80°) | 828.2 | 32.9 | | | G1/1800 |
| FVH | (80°-90°) | 11.7 | 0.5 | | | G1/100 |
| BL | (0°-30°) | 154.9 | 6.1 | B1/500 | | |
| BM | (30°-60°) | 224.3 | 8.9 | B1/1000 | | |
| BH | (60°-80°) | 129.5 | 5.1 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 8.0 | 0.3 | | | G0/10 |
| UL | (90°-100°) | 1.3 | 0.1 | | U1/10 | |
| UH | (100°-180°) | 157.7 | 6.3 | | U3/500 | |

BUG Rating: B1-U3-G1

Type III Short





REPORT NUMBER: P159861

CATALOG NUMBER: ENC-E01-LED-E1-BL4-8030-ULG

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 476.4 | 476.4 | 476.4 | 476.4 | 476.4 | 476.4 | 476.4 | 476.4 | 476.4 | 476.4 | 476.4 |
| 2.5° | 469.7 | 469.7 | 470.5 | 470.5 | 471.8 | 472.6 | 471.8 | 473.5 | 473.5 | 473.1 | 473.9 |
| 5° | 462.9 | 462.9 | 463.4 | 463.4 | 464.2 | 465.5 | 464.6 | 466.3 | 465.9 | 466.3 | 466.3 |
| 7.5° | 454.9 | 454.9 | 455.8 | 455.3 | 455.8 | 456.6 | 454.5 | 455.8 | 455.8 | 456.2 | 455.8 |
| 10° | 444.8 | 445.6 | 446.5 | 446.0 | 446.0 | 446.5 | 443.1 | 444.4 | 443.9 | 443.9 | 443.5 |
| 12.5° | 435.5 | 434.7 | 435.5 | 436.3 | 435.9 | 435.9 | 432.5 | 431.7 | 431.7 | 431.7 | 432.1 |
| 15° | 425.8 | 426.6 | 427.9 | 426.6 | 425.8 | 424.1 | 420.7 | 419.9 | 419.9 | 419.9 | 420.3 |
| 17.5° | 423.7 | 423.7 | 424.5 | 423.3 | 419.9 | 416.5 | 409.8 | 408.5 | 408.5 | 408.1 | 408.1 |
| 20° | 429.6 | 429.2 | 430.4 | 427.9 | 420.3 | 411.4 | 400.9 | 398.8 | 398.8 | 398.8 | 398.4 |
| 22.5° | 441.8 | 441.8 | 443.9 | 441.0 | 428.7 | 411.9 | 396.3 | 392.9 | 392.5 | 392.0 | 391.2 |
| 25° | 465.5 | 465.0 | 466.3 | 458.7 | 441.0 | 417.4 | 395.0 | 389.9 | 389.5 | 388.7 | 387.8 |
| 27.5° | 492.9 | 493.7 | 496.3 | 484.9 | 458.7 | 427.1 | 400.5 | 392.0 | 391.2 | 389.9 | 388.2 |
| 30° | 519.9 | 522.4 | 527.1 | 514.8 | 479.0 | 439.3 | 408.9 | 399.2 | 397.5 | 395.8 | 392.9 |
| 32.5° | 554.1 | 553.2 | 560.8 | 542.3 | 496.7 | 452.4 | 417.8 | 406.0 | 403.8 | 401.3 | 397.5 |
| 35° | 590.4 | 592.1 | 593.7 | 563.8 | 511.5 | 462.9 | 423.3 | 409.8 | 407.2 | 404.7 | 399.2 |
| 37.5° | 626.7 | 627.1 | 623.3 | 581.1 | 520.3 | 469.3 | 426.2 | 410.6 | 407.2 | 403.4 | 397.1 |
| 40° | 660.0 | 658.7 | 647.3 | 594.2 | 525.4 | 472.6 | 427.5 | 408.9 | 404.7 | 400.9 | 393.7 |
| 42.5° | 679.0 | 677.7 | 663.4 | 600.1 | 525.8 | 472.2 | 427.5 | 407.2 | 402.6 | 397.9 | 389.9 |
| 45° | 687.0 | 686.2 | 669.7 | 600.9 | 522.9 | 469.7 | 424.9 | 405.5 | 400.9 | 396.7 | 388.2 |
| 47.5° | 687.9 | 687.9 | 671.0 | 599.7 | 520.3 | 468.0 | 424.9 | 407.6 | 403.8 | 400.5 | 394.1 |
| 50° | 684.1 | 684.5 | 671.4 | 603.0 | 522.4 | 471.8 | 429.2 | 412.7 | 408.9 | 405.5 | 398.4 |
| 52.5° | 728.8 | 724.6 | 695.4 | 618.2 | 536.4 | 484.0 | 443.5 | 428.7 | 427.5 | 425.4 | 419.9 |
| 55° | 1070.6 | 1074.0 | 914.9 | 713.2 | 595.0 | 546.9 | 530.0 | 527.1 | 536.4 | 539.7 | 539.7 |
| 57.5° | 1359.2 | 1348.3 | 1288.4 | 1040.6 | 778.2 | 720.3 | 727.1 | 734.3 | 747.8 | 753.7 | 757.9 |
| 60° | 1429.7 | 1430.6 | 1428.9 | 1358.4 | 1148.7 | 1017.0 | 984.1 | 952.9 | 951.6 | 940.6 | 932.2 |
| 62.5° | 1421.3 | 1428.0 | 1459.7 | 1475.7 | 1496.4 | 1399.8 | 1198.9 | 1112.4 | 1095.5 | 1074.8 | 1045.3 |
| 65° | 1360.1 | 1370.2 | 1420.9 | 1498.9 | 1677.0 | 1756.3 | 1343.6 | 1188.8 | 1162.6 | 1137.7 | 1087.9 |
| 67.5° | 1158.8 | 1180.7 | 1277.8 | 1425.1 | 1698.5 | 1899.4 | 1367.3 | 1151.6 | 1117.0 | 1084.5 | 1025.4 |
| 70° | 715.3 | 726.7 | 876.5 | 1149.9 | 1539.0 | 1731.9 | 1241.5 | 977.3 | 933.5 | 892.1 | 811.5 |
| 72.5° | 461.7 | 457.9 | 483.2 | 647.8 | 1130.9 | 1345.7 | 853.7 | 649.9 | 614.0 | 581.1 | 529.2 |
| 75° | 323.2 | 323.7 | 312.3 | 308.9 | 524.5 | 833.4 | 386.5 | 277.7 | 261.6 | 254.9 | 243.9 |
| 77.5° | 210.6 | 213.1 | 210.2 | 218.2 | 210.2 | 346.5 | 177.7 | 130.4 | 124.1 | 119.8 | 113.1 |
| 80° | 127.0 | 135.5 | 138.0 | 139.7 | 141.8 | 130.8 | 105.5 | 76.8 | 69.2 | 62.0 | 51.1 |
| 82.5° | 22.4 | 21.9 | 30.4 | 40.9 | 53.6 | 61.2 | 44.3 | 27.9 | 26.2 | 25.3 | 23.2 |
| 85° | 0.0 | 0.0 | 0.4 | 0.4 | 0.8 | 3.0 | 4.6 | 5.5 | 5.1 | 5.5 | 5.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.4 | 0.4 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 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: P159861

CATALOG NUMBER: ENC-E01-LED-E1-BL4-8030-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: ENC-E01-LED-E1-BL4-8030-ULG

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 71° | 72° | 73° | 74° | 75° |
|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 476.4 | 476.4 | 476.4 | 476.4 | 476.4 | 476.4 | 476.4 | 476.4 | 476.4 | 476.4 | 476.4 |
| 2.5° | 473.9 | 473.5 | 473.1 | 473.1 | 473.9 | 473.9 | 473.5 | 473.5 | 473.9 | 473.5 | 474.3 |
| 5° | 466.7 | 466.3 | 466.3 | 465.9 | 466.3 | 466.7 | 466.3 | 466.3 | 466.7 | 466.3 | 467.1 |
| 7.5° | 455.3 | 455.8 | 455.3 | 455.3 | 455.8 | 456.2 | 455.8 | 455.8 | 455.8 | 455.8 | 455.3 |
| 10° | 443.5 | 443.5 | 443.1 | 443.1 | 443.9 | 443.5 | 443.1 | 443.1 | 443.5 | 443.9 | 443.1 |
| 12.5° | 431.7 | 432.5 | 432.5 | 430.9 | 431.3 | 431.7 | 431.7 | 431.3 | 431.3 | 432.5 | 431.3 |
| 15° | 419.9 | 420.3 | 419.9 | 420.3 | 419.5 | 419.0 | 419.5 | 419.5 | 418.6 | 418.2 | 418.2 |
| 17.5° | 408.1 | 407.6 | 407.6 | 406.8 | 406.4 | 406.4 | 406.0 | 406.4 | 405.5 | 406.0 | 404.7 |
| 20° | 397.5 | 397.1 | 396.7 | 396.7 | 395.4 | 395.4 | 395.4 | 395.0 | 394.1 | 394.1 | 393.7 |
| 22.5° | 391.2 | 390.8 | 390.3 | 389.5 | 389.1 | 388.7 | 388.7 | 388.2 | 387.4 | 387.0 | 386.5 |
| 25° | 387.8 | 387.4 | 386.5 | 385.7 | 385.3 | 384.9 | 384.9 | 384.4 | 383.6 | 382.7 | 382.3 |
| 27.5° | 388.2 | 387.4 | 386.5 | 385.7 | 385.3 | 384.4 | 384.0 | 383.6 | 382.7 | 381.9 | 381.1 |
| 30° | 392.0 | 390.3 | 388.7 | 387.4 | 386.1 | 384.9 | 384.0 | 383.6 | 382.3 | 381.1 | 379.8 |
| 32.5° | 395.8 | 393.7 | 391.2 | 388.7 | 386.5 | 384.4 | 383.2 | 381.9 | 380.2 | 378.1 | 376.8 |
| 35° | 397.1 | 394.6 | 390.8 | 388.7 | 385.7 | 383.2 | 381.1 | 379.4 | 376.4 | 373.9 | 371.8 |
| 37.5° | 394.1 | 391.2 | 387.4 | 384.4 | 381.5 | 378.1 | 375.6 | 373.0 | 370.9 | 368.0 | 365.9 |
| 40° | 389.5 | 386.1 | 382.3 | 378.1 | 375.2 | 371.8 | 369.2 | 367.1 | 364.2 | 361.7 | 360.0 |
| 42.5° | 385.7 | 381.9 | 377.7 | 374.3 | 370.9 | 367.6 | 364.6 | 362.5 | 359.5 | 356.6 | 354.5 |
| 45° | 384.4 | 380.6 | 377.3 | 373.0 | 369.7 | 367.1 | 364.6 | 361.7 | 359.1 | 356.6 | 354.1 |
| 47.5° | 391.2 | 387.8 | 384.4 | 381.1 | 378.1 | 375.2 | 372.6 | 369.7 | 366.7 | 363.3 | 360.8 |
| 50° | 395.0 | 391.2 | 388.2 | 384.4 | 381.1 | 378.1 | 375.6 | 372.6 | 370.5 | 367.1 | 364.6 |
| 52.5° | 422.4 | 417.4 | 418.2 | 414.8 | 414.8 | 411.4 | 414.0 | 410.2 | 412.3 | 409.8 | 413.6 |
| 55° | 538.5 | 540.2 | 550.7 | 552.4 | 556.6 | 556.2 | 558.7 | 569.7 | 565.5 | 560.0 | 561.7 |
| 57.5° | 746.5 | 750.3 | 755.8 | 750.7 | 754.5 | 755.4 | 762.5 | 759.6 | 757.1 | 755.4 | 749.9 |
| 60° | 927.1 | 922.1 | 914.0 | 904.3 | 900.5 | 896.3 | 889.1 | 889.1 | 879.9 | 876.9 | 869.7 |
| 62.5° | 1033.0 | 1018.3 | 1008.1 | 992.5 | 981.6 | 974.0 | 961.3 | 951.6 | 938.9 | 929.2 | 917.8 |
| 65° | 1067.6 | 1042.8 | 1025.0 | 1005.6 | 988.3 | 971.9 | 953.7 | 939.8 | 924.2 | 913.6 | 895.5 |
| 67.5° | 1000.6 | 975.2 | 945.3 | 924.6 | 906.4 | 885.8 | 857.5 | 840.2 | 826.7 | 806.4 | 797.6 |
| 70° | 779.0 | 752.4 | 714.9 | 704.7 | 676.9 | 644.8 | 616.1 | 598.8 | 579.0 | 565.1 | 550.3 |
| 72.5° | 494.2 | 464.2 | 447.7 | 435.5 | 417.4 | 390.8 | 365.9 | 355.7 | 338.4 | 334.6 | 324.9 |
| 75° | 232.1 | 211.8 | 207.6 | 204.7 | 184.8 | 181.0 | 173.4 | 170.1 | 162.0 | 157.8 | 156.1 |
| 77.5° | 103.8 | 99.2 | 91.6 | 89.5 | 83.1 | 76.8 | 69.2 | 65.8 | 61.6 | 59.1 | 55.7 |
| 80° | 47.3 | 42.6 | 39.7 | 37.6 | 36.7 | 34.6 | 32.9 | 31.6 | 30.4 | 30.4 | 28.3 |
| 82.5° | 22.8 | 21.9 | 21.1 | 21.1 | 19.8 | 19.8 | 18.6 | 18.1 | 17.7 | 17.3 | 17.3 |
| 85° | 6.3 | 6.3 | 6.3 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 7.2 | 7.2 |
| 87.5° | 0.8 | 0.8 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 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: P159861

CATALOG NUMBER: ENC-E01-LED-E1-BL4-8030-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 |



REPORT NUMBER: P159861
 CATALOG NUMBER: ENC-E01-LED-E1-BL4-8030-ULG

CANDELA DISTRIBUTION (continued):

| | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° | 84° | 85° | 86° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 476.4 | 476.4 | 476.4 | 476.4 | 476.4 | 476.4 | 476.4 | 476.4 | 476.4 | 476.4 | 476.4 |
| 2.5° | 473.9 | 473.9 | 473.9 | 474.7 | 474.3 | 475.6 | 475.6 | 475.6 | 476.4 | 476.9 | 476.4 |
| 5° | 467.1 | 467.1 | 467.1 | 467.6 | 467.6 | 468.4 | 468.4 | 469.3 | 469.3 | 469.7 | 469.7 |
| 7.5° | 456.2 | 456.6 | 456.6 | 457.4 | 457.0 | 457.4 | 457.4 | 458.7 | 458.7 | 459.1 | 459.1 |
| 10° | 443.5 | 443.9 | 443.9 | 443.9 | 444.4 | 444.8 | 444.8 | 445.6 | 446.0 | 446.0 | 446.9 |
| 12.5° | 431.7 | 431.3 | 431.7 | 431.3 | 432.5 | 432.5 | 433.0 | 432.5 | 433.0 | 433.4 | 433.8 |
| 15° | 418.6 | 418.6 | 418.2 | 418.6 | 418.6 | 418.2 | 417.8 | 418.2 | 419.0 | 419.0 | 419.0 |
| 17.5° | 405.5 | 404.3 | 404.3 | 404.3 | 403.8 | 403.0 | 403.8 | 403.4 | 403.4 | 403.8 | 403.4 |
| 20° | 393.3 | 392.9 | 392.5 | 392.0 | 391.6 | 390.3 | 390.3 | 390.3 | 389.9 | 389.9 | 389.9 |
| 22.5° | 385.7 | 385.3 | 384.9 | 384.4 | 382.7 | 381.9 | 381.5 | 381.1 | 380.2 | 379.8 | 379.4 |
| 25° | 381.5 | 380.6 | 379.8 | 379.0 | 377.7 | 376.4 | 375.2 | 374.7 | 373.9 | 373.0 | 371.8 |
| 27.5° | 380.2 | 379.4 | 377.7 | 376.8 | 375.2 | 373.9 | 372.6 | 371.4 | 370.1 | 368.8 | 367.6 |
| 30° | 378.1 | 376.8 | 375.2 | 373.9 | 372.6 | 370.5 | 368.8 | 367.6 | 365.4 | 364.2 | 362.5 |
| 32.5° | 375.2 | 373.5 | 371.8 | 370.1 | 368.4 | 366.3 | 364.2 | 362.5 | 360.8 | 359.1 | 357.0 |
| 35° | 370.1 | 368.0 | 365.4 | 363.8 | 361.7 | 359.5 | 357.9 | 354.9 | 353.6 | 351.5 | 349.4 |
| 37.5° | 363.3 | 361.2 | 359.1 | 357.0 | 354.5 | 352.8 | 350.3 | 347.7 | 346.5 | 345.2 | 342.2 |
| 40° | 357.4 | 354.9 | 352.8 | 351.1 | 348.1 | 346.9 | 344.3 | 341.8 | 340.1 | 338.9 | 336.3 |
| 42.5° | 351.9 | 349.4 | 347.3 | 344.8 | 342.7 | 341.0 | 338.9 | 336.3 | 334.6 | 333.8 | 331.7 |
| 45° | 351.9 | 349.0 | 346.5 | 344.3 | 342.2 | 340.1 | 338.4 | 335.9 | 334.6 | 333.0 | 331.7 |
| 47.5° | 357.9 | 354.5 | 351.5 | 348.6 | 345.6 | 343.5 | 341.0 | 338.4 | 336.3 | 335.1 | 333.4 |
| 50° | 362.1 | 358.7 | 357.0 | 353.6 | 351.9 | 349.0 | 346.0 | 344.8 | 342.7 | 341.4 | 341.0 |
| 52.5° | 413.6 | 411.4 | 411.9 | 403.4 | 401.7 | 406.0 | 399.2 | 405.1 | 403.4 | 398.4 | 398.4 |
| 55° | 571.4 | 570.5 | 574.3 | 563.8 | 559.1 | 567.6 | 571.0 | 558.7 | 561.7 | 561.7 | 560.8 |
| 57.5° | 755.4 | 749.9 | 744.4 | 745.7 | 738.9 | 744.0 | 737.6 | 730.1 | 733.0 | 730.5 | 721.6 |
| 60° | 865.1 | 861.7 | 853.7 | 846.1 | 838.9 | 832.2 | 826.3 | 819.5 | 816.1 | 810.2 | 803.9 |
| 62.5° | 909.4 | 900.5 | 890.8 | 880.7 | 869.3 | 858.3 | 851.6 | 842.7 | 833.4 | 827.5 | 820.8 |
| 65° | 885.8 | 872.7 | 862.1 | 847.4 | 835.1 | 821.6 | 812.8 | 802.6 | 794.2 | 784.1 | 775.6 |
| 67.5° | 780.3 | 765.1 | 737.2 | 723.7 | 705.6 | 684.5 | 678.6 | 666.3 | 661.7 | 646.5 | 621.6 |
| 70° | 531.3 | 516.1 | 499.2 | 471.8 | 454.1 | 435.9 | 416.1 | 401.7 | 399.6 | 387.4 | 369.2 |
| 72.5° | 312.3 | 301.7 | 290.8 | 275.1 | 262.1 | 254.9 | 241.0 | 226.6 | 226.2 | 212.3 | 205.1 |
| 75° | 147.7 | 142.2 | 131.2 | 127.4 | 115.6 | 114.8 | 105.9 | 104.2 | 105.9 | 101.7 | 100.9 |
| 77.5° | 50.2 | 49.0 | 46.4 | 43.0 | 40.5 | 39.7 | 37.6 | 36.3 | 35.4 | 34.6 | 33.8 |
| 80° | 27.4 | 26.6 | 26.2 | 24.9 | 24.1 | 23.6 | 22.4 | 21.9 | 21.5 | 21.1 | 20.7 |
| 82.5° | 16.5 | 16.9 | 16.0 | 15.2 | 15.2 | 14.3 | 13.9 | 13.5 | 13.1 | 13.1 | 13.1 |
| 85° | 6.8 | 7.2 | 6.8 | 6.3 | 5.9 | 6.3 | 6.3 | 5.9 | 5.5 | 5.9 | 5.9 |
| 87.5° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 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: P159861
 CATALOG NUMBER: ENC-E01-LED-E1-BL4-8030-ULG

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: P159861
 NUMBER: ENC-E01-LED-E1-BL4-8030-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° | 157.5° | 160° | 162.5° | 165° | 167.5° | 170° | 172.5° | 175° | 177.5° | 180° | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--|--|
| 476.4 | 476.4 | 476.4 | 476.4 | 476.4 | 476.4 | 476.4 | 476.4 | 476.4 | 476.4 | 476.4 | 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° | 157.5° | 160° | 162.5° | 165° | 167.5° | 170° | 172.5° | 175° | 177.5° | 180° | | |
| 475.6 | 475.2 | 475.2 | 474.7 | 474.3 | 475.2 | 476.0 | 477.3 | 476.4 | 477.3 | 477.7 | 21.2 | 25.0 | 29.5 | 34.8 | 40.9 | 47.8 | 55.3 | 63.0 | 70.5 | 77.9 | 85.3 | 92.5 | 99.2 | 104.9 | 110.1 | 115.1 | 119.7 | 123.7 | 127.0 | 130.3 | 133.5 | 136.0 | 137.1 | 137.4 | 138.6 | 140.5 | 141.1 | 140.8 | | |
| 468.8 | 468.8 | 468.8 | 469.3 | 468.8 | 470.1 | 471.8 | 474.3 | 474.7 | 476.4 | 477.7 | 29.5 | 34.8 | 40.9 | 47.8 | 55.3 | 63.0 | 70.5 | 77.9 | 85.3 | 92.5 | 99.2 | 104.9 | 110.1 | 115.1 | 119.7 | 123.7 | 127.0 | 130.3 | 133.5 | 136.0 | 137.1 | 137.4 | 138.6 | 140.5 | 141.1 | 140.8 | | | | |
| 457.9 | 457.9 | 458.3 | 458.7 | 458.3 | 460.0 | 462.9 | 465.9 | 468.0 | 470.9 | 473.5 | 34.8 | 40.9 | 47.8 | 55.3 | 63.0 | 70.5 | 77.9 | 85.3 | 92.5 | 99.2 | 104.9 | 110.1 | 115.1 | 119.7 | 123.7 | 127.0 | 130.3 | 133.5 | 136.0 | 137.1 | 137.4 | 138.6 | 140.5 | 141.1 | 140.8 | | | | | |
| 445.2 | 445.2 | 445.2 | 445.2 | 445.6 | 447.7 | 449.8 | 453.2 | 456.6 | 461.2 | 465.0 | 40.9 | 47.8 | 55.3 | 63.0 | 70.5 | 77.9 | 85.3 | 92.5 | 99.2 | 104.9 | 110.1 | 115.1 | 119.7 | 123.7 | 127.0 | 130.3 | 133.5 | 136.0 | 137.1 | 137.4 | 138.6 | 140.5 | 141.1 | 140.8 | | | | | | |
| 433.8 | 432.5 | 433.0 | 433.8 | 433.0 | 433.0 | 435.1 | 437.6 | 439.7 | 445.6 | 452.4 | 47.8 | 55.3 | 63.0 | 70.5 | 77.9 | 85.3 | 92.5 | 99.2 | 104.9 | 110.1 | 115.1 | 119.7 | 123.7 | 127.0 | 130.3 | 133.5 | 136.0 | 137.1 | 137.4 | 138.6 | 140.5 | 141.1 | 140.8 | | | | | | | |
| 418.6 | 418.6 | 417.8 | 418.2 | 416.1 | 415.7 | 416.5 | 418.2 | 419.9 | 424.9 | 432.1 | 55.3 | 63.0 | 70.5 | 77.9 | 85.3 | 92.5 | 99.2 | 104.9 | 110.1 | 115.1 | 119.7 | 123.7 | 127.0 | 130.3 | 133.5 | 136.0 | 137.1 | 137.4 | 138.6 | 140.5 | 141.1 | 140.8 | | | | | | | | |
| 402.6 | 402.6 | 402.6 | 401.3 | 399.6 | 395.4 | 395.0 | 395.0 | 395.0 | 398.8 | 407.2 | 63.0 | 70.5 | 77.9 | 85.3 | 92.5 | 99.2 | 104.9 | 110.1 | 115.1 | 119.7 | 123.7 | 127.0 | 130.3 | 133.5 | 136.0 | 137.1 | 137.4 | 138.6 | 140.5 | 141.1 | 140.8 | | | | | | | | | |
| 388.2 | 388.2 | 387.4 | 386.5 | 382.7 | 375.6 | 369.7 | 367.1 | 366.3 | 372.6 | 376.4 | 70.5 | 77.9 | 85.3 | 92.5 | 99.2 | 104.9 | 110.1 | 115.1 | 119.7 | 123.7 | 127.0 | 130.3 | 133.5 | 136.0 | 137.1 | 137.4 | 138.6 | 140.5 | 141.1 | 140.8 | | | | | | | | | | |
| 378.1 | 377.7 | 376.0 | 375.2 | 369.2 | 357.9 | 348.6 | 341.4 | 339.3 | 341.4 | 342.7 | 77.9 | 85.3 | 92.5 | 99.2 | 104.9 | 110.1 | 115.1 | 119.7 | 123.7 | 127.0 | 130.3 | 133.5 | 136.0 | 137.1 | 137.4 | 138.6 | 140.5 | 141.1 | 140.8 | | | | | | | | | | | |
| 370.1 | 369.2 | 367.6 | 365.9 | 357.9 | 342.2 | 327.5 | 315.2 | 309.3 | 307.6 | 303.4 | 85.3 | 92.5 | 99.2 | 104.9 | 110.1 | 115.1 | 119.7 | 123.7 | 127.0 | 130.3 | 133.5 | 136.0 | 137.1 | 137.4 | 138.6 | 140.5 | 141.1 | 140.8 | | | | | | | | | | | | |
| 365.4 | 364.2 | 361.7 | 360.0 | 349.4 | 329.6 | 310.2 | 294.1 | 283.2 | 275.1 | 267.5 | 92.5 | 99.2 | 104.9 | 110.1 | 115.1 | 119.7 | 123.7 | 127.0 | 130.3 | 133.5 | 136.0 | 137.1 | 137.4 | 138.6 | 140.5 | 141.1 | 140.8 | | | | | | | | | | | | | |
| 360.4 | 358.3 | 355.7 | 353.2 | 341.4 | 319.5 | 297.1 | 277.3 | 257.8 | 243.9 | 232.9 | 99.2 | 104.9 | 110.1 | 115.1 | 119.7 | 123.7 | 127.0 | 130.3 | 133.5 | 136.0 | 137.1 | 137.4 | 138.6 | 140.5 | 141.1 | 140.8 | | | | | | | | | | | | | | |
| 354.5 | 352.4 | 349.8 | 347.3 | 334.2 | 310.2 | 286.5 | 262.1 | 235.1 | 216.1 | 199.6 | 104.9 | 110.1 | 115.1 | 119.7 | 123.7 | 127.0 | 130.3 | 133.5 | 136.0 | 137.1 | 137.4 | 138.6 | 140.5 | 141.1 | 140.8 | | | | | | | | | | | | | | | |
| 347.3 | 345.2 | 342.7 | 339.7 | 326.6 | 302.6 | 279.4 | 247.3 | 214.8 | 190.3 | 168.8 | 110.1 | 115.1 | 119.7 | 123.7 | 127.0 | 130.3 | 133.5 | 136.0 | 137.1 | 137.4 | 138.6 | 140.5 | 141.1 | 140.8 | | | | | | | | | | | | | | | | |
| 340.1 | 338.0 | 335.5 | 332.5 | 319.5 | 298.8 | 275.1 | 233.4 | 196.2 | 166.3 | 138.0 | 115.1 | 119.7 | 123.7 | 127.0 | 130.3 | 133.5 | 136.0 | 137.1 | 137.4 | 138.6 | 140.5 | 141.1 | 140.8 | | | | | | | | | | | | | | | | | |
| 334.6 | 332.5 | 330.0 | 327.5 | 315.7 | 297.1 | 273.0 | 221.5 | 179.8 | 142.6 | 110.1 | 119.7 | 123.7 | 127.0 | 130.3 | 133.5 | 136.0 | 137.1 | 137.4 | 138.6 | 140.5 | 141.1 | 140.8 | | | | | | | | | | | | | | | | | | |
| 330.0 | 327.9 | 325.8 | 323.2 | 313.1 | 297.9 | 268.4 | 211.4 | 163.7 | 119.0 | 86.5 | 119.7 | 123.7 | 127.0 | 130.3 | 133.5 | 136.0 | 137.1 | 137.4 | 138.6 | 140.5 | 141.1 | 140.8 | | | | | | | | | | | | | | | | | | |
| 329.6 | 328.3 | 325.8 | 323.7 | 314.0 | 301.7 | 264.6 | 202.6 | 147.3 | 96.2 | 73.0 | 123.7 | 127.0 | 130.3 | 133.5 | 136.0 | 137.1 | 137.4 | 138.6 | 140.5 | 141.1 | 140.8 | | | | | | | | | | | | | | | | | | | |
| 332.5 | 330.8 | 329.2 | 327.5 | 319.9 | 311.4 | 262.1 | 193.3 | 128.7 | 77.6 | 69.6 | 130.3 | 133.5 | 136.0 | 137.1 | 137.4 | 138.6 | 140.5 | 141.1 | 140.8 | | | | | | | | | | | | | | | | | | | | | |
| 339.7 | 338.0 | 337.2 | 336.3 | 331.7 | 324.5 | 262.1 | 183.6 | 107.2 | 68.4 | 69.2 | 133.5 | 136.0 | 137.1 | 137.4 | 138.6 | 140.5 | 141.1 | 140.8 | | | | | | | | | | | | | | | | | | | | | | |
| 397.5 | 392.9 | 391.6 | 395.0 | 382.3 | 346.5 | 263.7 | 171.8 | 84.0 | 65.4 | 69.6 | 136.0 | 137.1 | 137.4 | 138.6 | 140.5 | 141.1 | 140.8 | | | | | | | | | | | | | | | | | | | | | | | |
| 559.1 | 563.8 | 552.0 | 546.1 | 524.1 | 400.9 | 265.0 | 154.0 | 68.4 | 65.0 | 68.8 | 137.1 | 137.4 | 138.6 | 140.5 | 141.1 | 140.8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 722.5 | 722.5 | 718.2 | 709.0 | 681.9 | 493.7 | 270.9 | 125.8 | 62.5 | 64.1 | 67.9 | 137.4 | 138.6 | 140.5 | 141.1 | 140.8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 802.2 | 797.1 | 792.9 | 787.4 | 746.5 | 558.3 | 279.8 | 92.8 | 59.9 | 63.7 | 67.1 | 138.6 | 140.5 | 141.1 | 140.8 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 816.6 | 808.5 | 803.1 | 795.9 | 741.4 | 561.7 | 283.6 | 69.6 | 57.4 | 63.7 | 65.0 | 140.5 | 141.1 | 140.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 769.3 | 760.9 | 753.7 | 741.9 | 675.6 | 508.5 | 264.6 | 57.0 | 55.7 | 62.0 | 62.9 | 141.1 | 140.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 623.3 | 613.2 | 607.7 | 601.8 | 557.9 | 446.5 | 214.0 | 51.1 | 53.6 | 59.1 | 60.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 356.6 | 345.6 | 339.3 | 340.6 | 314.0 | 353.2 | 170.9 | 46.8 | 50.6 | 55.7 | 58.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 192.0 | 180.2 | 176.4 | 164.2 | 140.1 | 178.1 | 131.7 | 43.0 | 46.8 | 50.6 | 53.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 94.9 | 90.7 | 92.0 | 86.1 | 73.0 | 54.9 | 84.8 | 38.4 | 41.8 | 45.6 | 47.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32.9 | 32.1 | 31.6 | 31.2 | 30.4 | 29.1 | 38.8 | 32.9 | 35.9 | 38.8 | 40.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20.3 | 19.8 | 20.3 | 19.8 | 19.4 | 22.4 | 24.9 | 26.2 | 28.7 | 32.5 | 32.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | 15.6 | 17.7 | 20.3 | 22.4 | 24.9 | 27.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.9 | 5.9 | 5.9 | 5.9 | 6.3 | 10.5 | 11.8 | 14.8 | 15.6 | 17.7 | 19.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.3 | 1.3 | 1.3 | 1.3 | 1.7 | 5.5 | 7.2 | 8.9 | 9.3 | 9.3 | 10.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

'159861
 ENC-E01-LED-E1-BL4-8030-ULG

REPORT NUMBER: P159861
 CATALOG NUMBER: ENC-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° | 476.4 | 476.4 |
| 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 2.5° | 477.3 | 476.4 |
| 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 5° | 478.5 | 477.7 |
| 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 7.5° | 475.2 | 475.6 |
| 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 10° | 468.0 | 469.3 |
| 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 12.5° | 456.6 | 459.1 |
| 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 15° | 437.6 | 441.4 |
| 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 17.5° | 412.3 | 416.9 |
| 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 20° | 380.6 | 382.7 |
| 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 22.5° | 341.8 | 342.7 |
| 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 25° | 300.9 | 300.9 |
| 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 27.5° | 262.9 | 260.8 |
| 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 30° | 226.6 | 221.1 |
| 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 32.5° | 188.2 | 178.9 |
| 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 35° | 149.4 | 141.8 |
| 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 37.5° | 116.0 | 107.6 |
| 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 40° | 89.0 | 82.7 |
| 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 42.5° | 75.1 | 73.8 |
| 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 45° | 71.7 | 73.4 |
| 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 47.5° | 72.2 | 74.3 |
| 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 50° | 72.6 | 74.7 |
| 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 52.5° | 72.6 | 73.8 |
| 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 55° | 71.7 | 71.7 |
| 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 57.5° | 70.1 | 69.6 |
| 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 60° | 68.8 | 68.8 |
| 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 62.5° | 66.7 | 66.7 |
| 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 65° | 63.3 | 63.7 |
| 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 67.5° | 59.9 | 59.9 |
| | | | | | | | | | | 70° | 55.7 | 55.7 |
| | | | | | | | | | | 72.5° | 51.5 | 53.2 |
| | | | | | | | | | | 75° | 48.5 | 51.5 |
| | | | | | | | | | | 77.5° | 42.6 | 45.6 |
| | | | | | | | | | | 80° | 35.0 | 35.4 |
| | | | | | | | | | | 82.5° | 27.9 | 27.0 |
| | | | | | | | | | | 85° | 19.8 | 18.6 |
| | | | | | | | | | | 87.5° | 10.5 | 10.1 |
| | | | | | | | | | | 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 |



LED-E1-BL4-8030-ULG

REPORT NUMBER: P159861

CATALOG NUMBER: ENC-E01-LED-E1-BL4

tinued):

| 180° |
|-------|
| 476.4 |
| 476.0 |
| 477.3 |
| 475.2 |
| 469.7 |
| 460.8 |
| 440.6 |
| 416.9 |
| 381.5 |
| 341.4 |
| 299.2 |
| 259.5 |
| 219.4 |
| 178.9 |
| 139.7 |
| 105.1 |
| 82.3 |
| 74.3 |
| 73.4 |
| 74.7 |
| 75.1 |
| 73.8 |
| 71.7 |
| 70.5 |
| 68.8 |
| 66.7 |
| 63.7 |
| 59.9 |
| 56.5 |
| 54.0 |
| 52.7 |
| 47.3 |
| 35.4 |
| 25.7 |
| 18.6 |
| 10.5 |
| 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

