

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: P159854

Luminaire Tested: **ENC-E01-LED-E1-BL3-7050-ULG**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P159854
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-BL3-7050-ULG
Description: ENTRI LED LUMINAIRE WITH UPLIGHT
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3088.4 lumens
Efficiency: N/A
Efficacy: 94.4 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

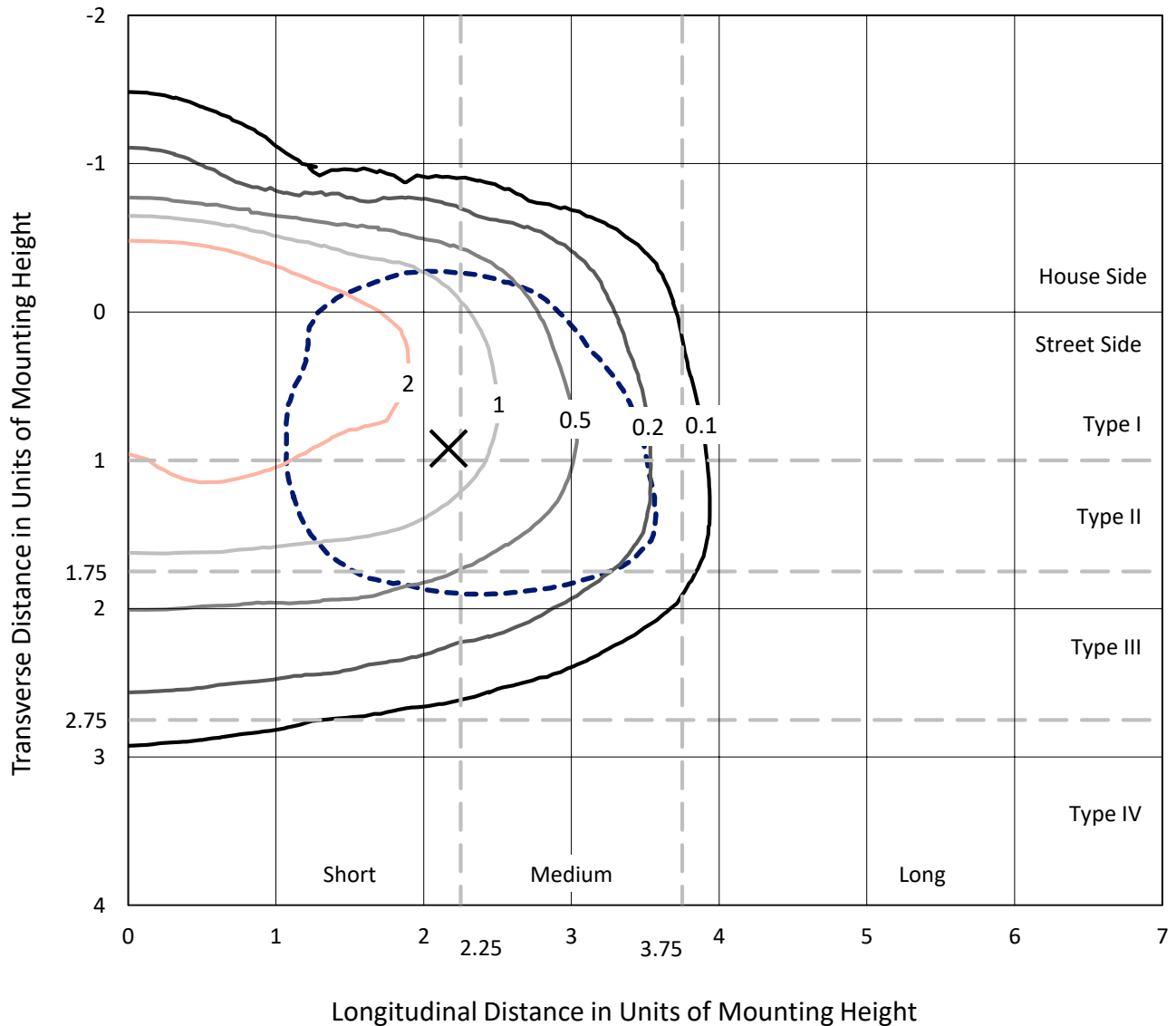
Input Watts (W): 32.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

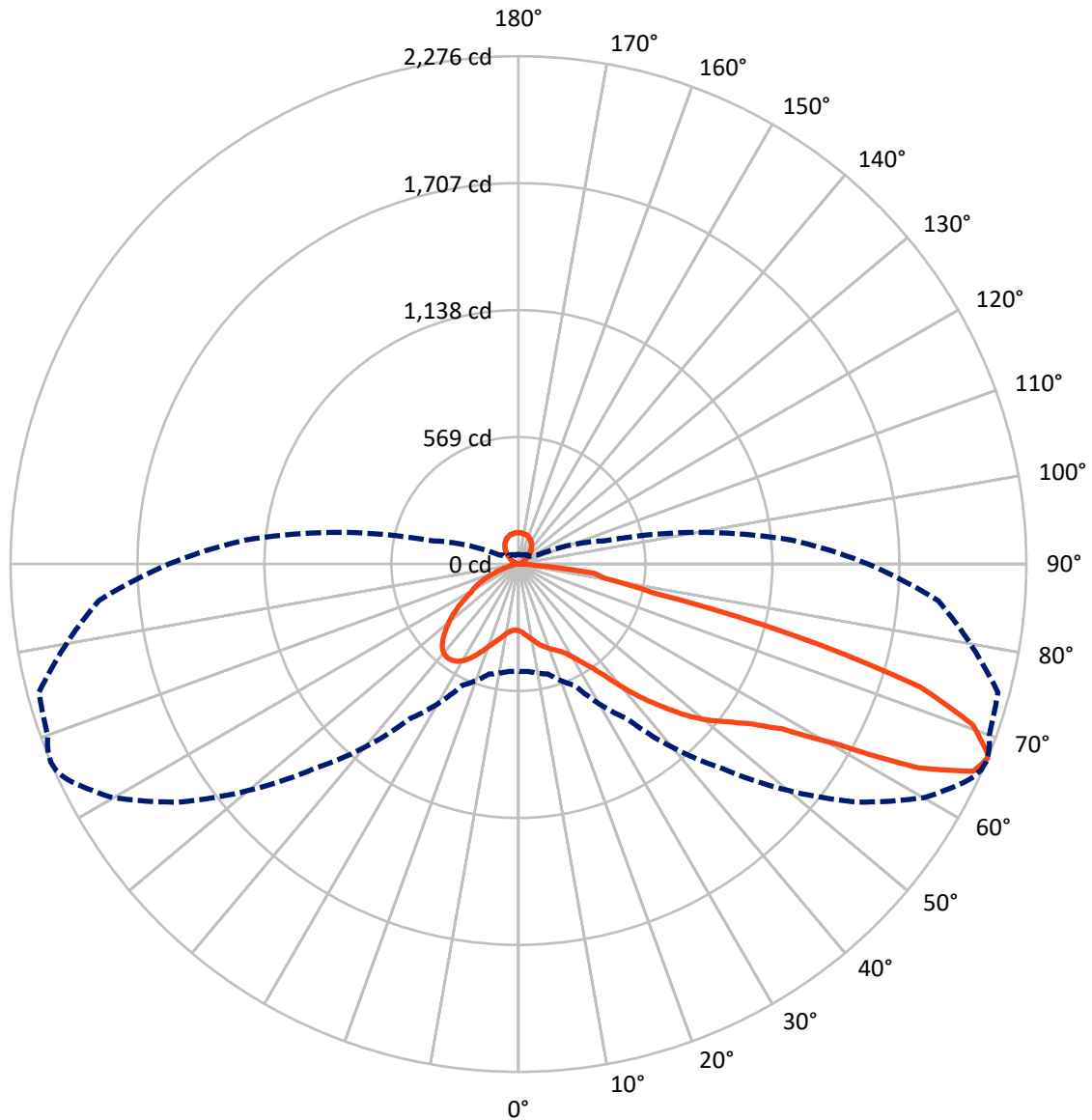
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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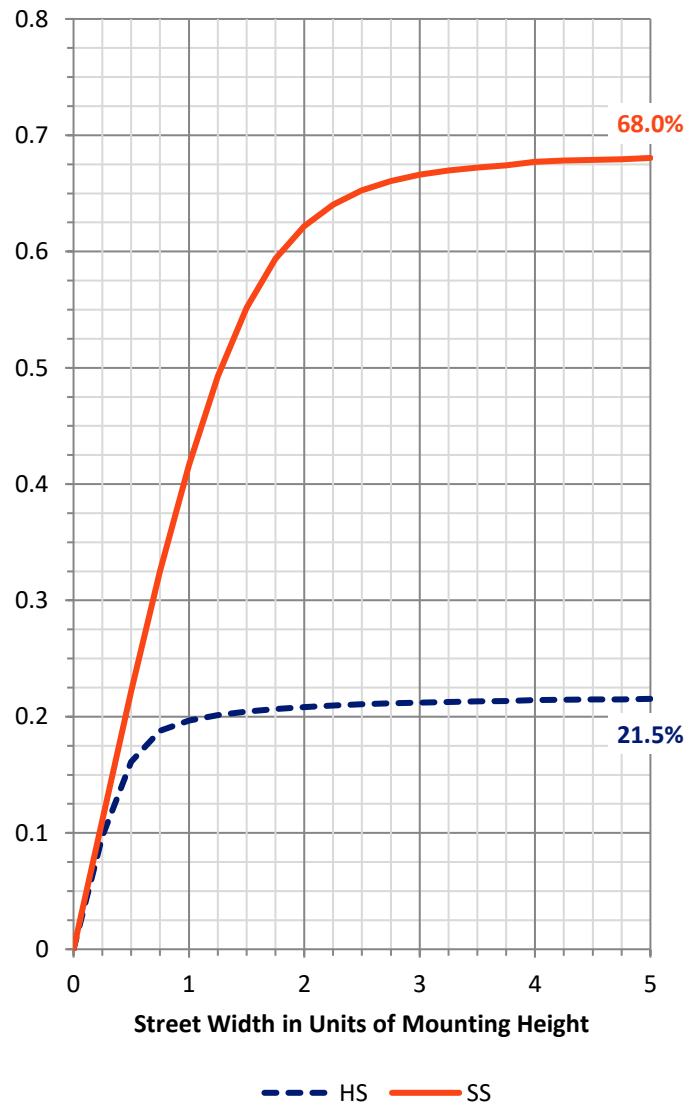
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 673.3 | 157.7 | 831.0 |
| | % Fixture | 21.8 | 5.1 | 26.9 |
| Street Side | Lumens | 2099.7 | 157.7 | 2257.4 |
| | % Fixture | 68.0 | 5.1 | 73.1 |
| Total | Lumens | 2772.9 | 315.5 | 3088.4 |
| | % Fixture | 89.8 | 10.2 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 30.1 | 1.0 |
| 10°-20° | 104.1 | 3.4 |
| 20°-30° | 188.7 | 6.1 |
| 30°-40° | 275.9 | 8.9 |
| 40°-50° | 417.9 | 13.5 |
| 50°-60° | 599.3 | 19.4 |
| 60°-70° | 765.9 | 24.8 |
| 70°-80° | 357.5 | 11.6 |
| 80°-90° | 33.5 | 1.1 |
| 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 | 1.9 |
| 140°-150° | 65.4 | 2.1 |
| 150°-160° | 56.9 | 1.8 |
| 160°-170° | 38.2 | 1.2 |
| 170°-180° | 13.3 | 0.4 |
| 0°-90° | 2772.9 | 89.8 |
| 0°-180° | 3088.4 | 100.0 |



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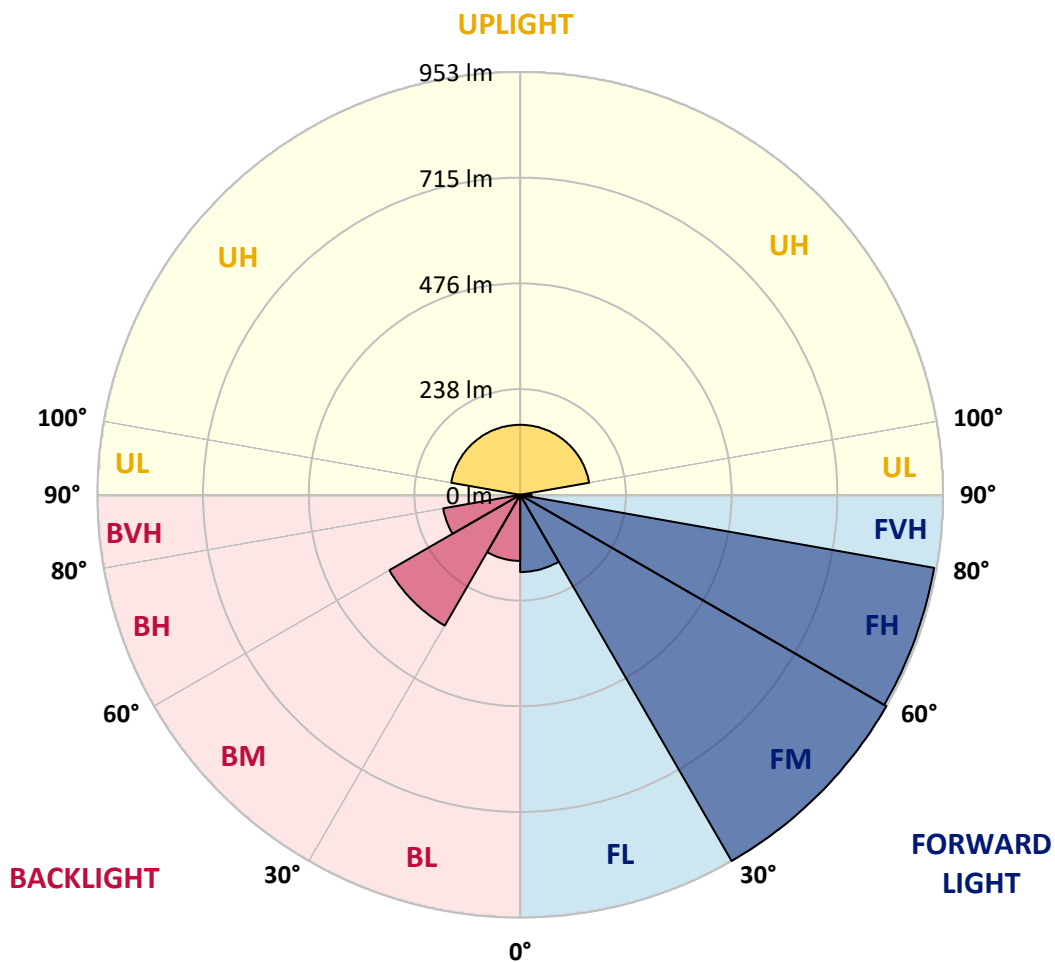
CATALOG NUMBER: ENC-E01-LED-E1-BL3-7050-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|--------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 173.9 | 5.6 | | | |
| FM | (30°-60°) | 953.0 | 30.9 | | | |
| FH | (60°-80°) | 947.3 | 30.7 | | | G1/1800 |
| FVH | (80°-90°) | 25.4 | 0.8 | | | G1/100 |
| BL | (0°-30°) | 149.0 | 4.8 | B1/500 | | |
| BM | (30°-60°) | 340.1 | 11.0 | B1/1000 | | |
| BH | (60°-80°) | 176.1 | 5.7 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 8.1 | 0.3 | | | G0/10 |
| UL | (90°-100°) | 1.3 | 0.0 | | U1/10 | |
| UH | (100°-180°) | 157.7 | 5.1 | | U3/500 | |

BUG Rating: B1-U3-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|--------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 298.6 | 298.6 | 298.6 | 298.6 | 298.6 | 298.6 | 298.6 | 298.6 | 298.6 | 298.6 | 298.6 |
| 2.5° | 310.4 | 310.4 | 310.9 | 310.9 | 310.4 | 310.4 | 307.3 | 307.3 | 307.3 | 306.8 | 306.8 |
| 5° | 327.3 | 327.8 | 327.8 | 327.3 | 326.3 | 324.2 | 320.1 | 320.1 | 320.1 | 319.6 | 318.6 |
| 7.5° | 346.8 | 346.3 | 346.8 | 345.3 | 343.2 | 340.7 | 335.0 | 334.5 | 333.5 | 333.5 | 332.5 |
| 10° | 368.4 | 366.8 | 368.4 | 366.3 | 362.2 | 357.6 | 350.9 | 348.9 | 348.9 | 348.9 | 346.8 |
| 12.5° | 390.4 | 389.9 | 390.9 | 387.4 | 380.2 | 375.0 | 368.4 | 365.8 | 365.3 | 365.3 | 364.3 |
| 15° | 414.5 | 414.0 | 411.0 | 405.3 | 396.1 | 391.5 | 383.8 | 380.7 | 380.2 | 380.2 | 378.6 |
| 17.5° | 439.7 | 439.7 | 432.0 | 420.2 | 407.4 | 400.7 | 395.1 | 393.0 | 392.5 | 392.5 | 392.0 |
| 20° | 461.2 | 461.2 | 451.0 | 431.5 | 413.0 | 405.8 | 403.8 | 403.8 | 403.8 | 403.8 | 404.3 |
| 22.5° | 477.1 | 475.6 | 461.7 | 437.6 | 415.1 | 408.9 | 414.0 | 414.5 | 414.5 | 415.6 | 416.1 |
| 25° | 484.3 | 483.8 | 467.4 | 438.7 | 414.5 | 413.5 | 424.8 | 426.3 | 427.4 | 428.4 | 429.9 |
| 27.5° | 484.8 | 484.8 | 468.4 | 438.1 | 414.0 | 421.7 | 438.1 | 442.8 | 443.8 | 445.8 | 448.4 |
| 30° | 479.7 | 480.2 | 466.4 | 437.6 | 417.6 | 437.1 | 459.2 | 467.9 | 470.0 | 473.0 | 477.1 |
| 32.5° | 473.5 | 474.6 | 466.4 | 442.8 | 433.5 | 463.8 | 493.0 | 505.4 | 507.4 | 511.5 | 515.6 |
| 35° | 474.6 | 476.1 | 477.7 | 463.3 | 468.9 | 509.5 | 551.5 | 558.7 | 558.2 | 564.9 | 566.9 |
| 37.5° | 481.2 | 484.8 | 496.1 | 498.7 | 520.2 | 576.7 | 620.8 | 636.2 | 636.2 | 642.3 | 640.3 |
| 40° | 482.3 | 487.9 | 516.1 | 545.9 | 588.5 | 657.7 | 718.3 | 736.2 | 736.2 | 738.8 | 737.8 |
| 42.5° | 506.4 | 511.5 | 552.0 | 604.9 | 665.4 | 747.0 | 813.7 | 829.6 | 833.2 | 830.6 | 832.7 |
| 45° | 550.0 | 553.6 | 603.4 | 670.0 | 739.8 | 832.7 | 907.1 | 922.5 | 926.1 | 923.5 | 920.4 |
| 47.5° | 605.4 | 610.5 | 663.4 | 742.4 | 814.2 | 911.7 | 1002.5 | 1020.5 | 1024.1 | 1019.9 | 1021.5 |
| 50° | 651.6 | 661.3 | 717.8 | 811.1 | 886.0 | 979.4 | 1076.4 | 1101.0 | 1104.1 | 1104.1 | 1105.1 |
| 52.5° | 693.6 | 702.4 | 756.8 | 860.9 | 944.0 | 1040.5 | 1131.3 | 1163.1 | 1166.7 | 1169.2 | 1171.3 |
| 55° | 711.1 | 719.8 | 774.2 | 882.5 | 979.4 | 1097.4 | 1194.9 | 1237.5 | 1239.5 | 1246.2 | 1254.9 |
| 57.5° | 711.6 | 718.8 | 772.1 | 881.9 | 997.9 | 1148.7 | 1281.6 | 1347.8 | 1356.0 | 1364.7 | 1379.6 |
| 60° | 663.4 | 672.1 | 725.5 | 856.3 | 1013.3 | 1206.2 | 1412.9 | 1534.5 | 1546.3 | 1571.5 | 1604.3 |
| 62.5° | 590.5 | 596.7 | 642.9 | 771.6 | 1013.3 | 1285.7 | 1624.3 | 1825.4 | 1864.9 | 1906.0 | 1966.5 |
| 65° | 522.8 | 527.4 | 556.7 | 668.0 | 941.5 | 1350.4 | 1845.5 | 2076.8 | 2119.4 | 2150.2 | 2201.5 |
| 67° | 480.7 | 482.8 | 510.5 | 601.3 | 845.0 | 1298.5 | 1860.3 | 2094.3 | 2130.7 | 2162.5 | 2227.2 |
| 67.5° | 466.4 | 467.9 | 494.1 | 584.4 | 815.2 | 1267.2 | 1837.8 | 2079.9 | 2119.4 | 2151.7 | 2217.4 |
| 70° | 358.6 | 354.0 | 376.6 | 459.7 | 658.8 | 1011.2 | 1613.6 | 1892.7 | 1937.8 | 1980.9 | 2060.4 |
| 72.5° | 213.9 | 207.3 | 221.6 | 266.8 | 426.9 | 710.6 | 1223.6 | 1553.0 | 1610.5 | 1664.3 | 1768.5 |
| 75° | 128.8 | 129.3 | 140.1 | 171.4 | 232.9 | 446.9 | 790.6 | 1010.7 | 1064.6 | 1115.4 | 1197.5 |
| 77.5° | 64.1 | 63.6 | 73.4 | 99.5 | 169.8 | 277.6 | 459.2 | 582.8 | 600.8 | 624.9 | 615.2 |
| 80° | 20.5 | 20.0 | 21.5 | 27.2 | 61.1 | 186.2 | 288.8 | 365.8 | 374.0 | 378.6 | 384.3 |
| 82.5° | 3.1 | 3.6 | 4.1 | 6.7 | 11.3 | 44.6 | 179.6 | 254.5 | 265.8 | 279.1 | 304.8 |
| 85° | 0.0 | 0.0 | 0.5 | 0.5 | 1.5 | 3.6 | 16.9 | 43.6 | 45.7 | 55.4 | 65.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.5 | 1.0 | 1.5 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| 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 |



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CATALOG NUMBER: ENC-E01-LED-E1-BL3-7050-ULG

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110° | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 |
| 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-BL3-7050-ULG

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 75° | 85° | 90° | 95° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0° | 298.6 | 298.6 | 298.6 | 298.6 | 298.6 | 298.6 | 298.6 | 298.6 | 298.6 | 298.6 | 298.6 |
| 2.5° | 306.3 | 306.3 | 305.8 | 305.3 | 305.3 | 305.3 | 304.2 | 303.7 | 300.6 | 299.6 | 297.6 |
| 5° | 318.6 | 318.6 | 317.6 | 317.1 | 316.6 | 316.6 | 315.0 | 311.9 | 307.8 | 305.3 | 301.2 |
| 7.5° | 331.9 | 331.4 | 330.4 | 330.4 | 328.4 | 328.4 | 326.3 | 320.7 | 316.6 | 313.0 | 307.8 |
| 10° | 347.3 | 346.8 | 345.3 | 344.8 | 343.7 | 342.7 | 340.7 | 334.0 | 329.9 | 325.3 | 319.1 |
| 12.5° | 364.3 | 363.2 | 362.2 | 361.7 | 360.7 | 359.6 | 357.6 | 351.4 | 347.3 | 342.7 | 335.5 |
| 15° | 379.1 | 378.6 | 377.6 | 377.1 | 377.1 | 376.1 | 374.5 | 368.9 | 364.8 | 359.6 | 354.0 |
| 17.5° | 392.5 | 392.0 | 391.5 | 391.5 | 390.9 | 390.9 | 390.4 | 385.3 | 382.7 | 378.6 | 373.0 |
| 20° | 403.8 | 404.3 | 404.3 | 404.3 | 404.8 | 405.3 | 406.3 | 403.8 | 401.2 | 397.6 | 394.5 |
| 22.5° | 416.1 | 416.6 | 418.1 | 418.1 | 419.2 | 419.7 | 423.3 | 422.8 | 421.7 | 419.2 | 416.6 |
| 25° | 431.0 | 432.0 | 433.0 | 434.6 | 435.1 | 436.6 | 442.8 | 445.3 | 443.3 | 441.7 | 444.3 |
| 27.5° | 450.5 | 452.5 | 453.5 | 455.6 | 456.6 | 458.7 | 467.9 | 473.5 | 472.0 | 472.5 | 478.2 |
| 30° | 479.7 | 481.8 | 484.8 | 485.9 | 489.5 | 490.5 | 501.3 | 510.0 | 510.0 | 508.9 | 519.2 |
| 32.5° | 518.7 | 520.2 | 523.8 | 526.4 | 528.4 | 530.5 | 540.8 | 550.0 | 551.0 | 554.1 | 558.2 |
| 35° | 570.0 | 571.0 | 573.1 | 577.2 | 576.7 | 577.7 | 583.3 | 592.6 | 597.7 | 604.9 | 592.6 |
| 37.5° | 637.7 | 641.3 | 640.3 | 640.8 | 636.7 | 639.3 | 641.3 | 651.1 | 661.8 | 669.0 | 621.3 |
| 40° | 734.2 | 736.7 | 734.2 | 730.6 | 727.5 | 726.0 | 722.9 | 733.7 | 742.9 | 737.8 | 643.9 |
| 42.5° | 828.1 | 829.1 | 827.0 | 820.9 | 818.3 | 813.2 | 805.0 | 818.3 | 823.4 | 799.3 | 655.7 |
| 45° | 920.9 | 919.4 | 915.8 | 914.8 | 909.6 | 904.5 | 899.9 | 908.6 | 906.6 | 859.4 | 660.8 |
| 47.5° | 1018.4 | 1016.9 | 1014.3 | 1010.2 | 1004.6 | 1003.5 | 999.4 | 998.4 | 983.5 | 910.7 | 658.2 |
| 50° | 1103.6 | 1104.6 | 1099.0 | 1101.0 | 1098.4 | 1093.3 | 1089.7 | 1091.8 | 1056.4 | 955.8 | 653.1 |
| 52.5° | 1176.9 | 1176.9 | 1174.4 | 1176.9 | 1175.9 | 1173.4 | 1176.4 | 1209.8 | 1136.4 | 1019.4 | 645.4 |
| 55° | 1262.1 | 1265.2 | 1263.1 | 1265.7 | 1267.2 | 1272.9 | 1285.7 | 1363.7 | 1256.0 | 1097.4 | 628.0 |
| 57.5° | 1386.8 | 1394.5 | 1392.4 | 1402.7 | 1411.9 | 1426.8 | 1473.5 | 1555.6 | 1404.2 | 1183.1 | 593.6 |
| 60° | 1610.5 | 1635.6 | 1634.6 | 1652.5 | 1671.0 | 1687.9 | 1769.5 | 1785.4 | 1572.0 | 1294.9 | 567.9 |
| 62.5° | 1982.9 | 2003.5 | 2012.2 | 2031.7 | 2043.5 | 2046.6 | 2112.2 | 1995.8 | 1721.8 | 1396.5 | 553.6 |
| 65° | 2224.1 | 2232.3 | 2240.0 | 2237.4 | 2230.2 | 2218.4 | 2222.5 | 1976.3 | 1672.0 | 1331.4 | 475.1 |
| 67° | 2252.8 | 2269.7 | 2275.9 | 2271.8 | 2261.0 | 2244.6 | 2224.6 | 1888.0 | 1566.3 | 1229.8 | 401.7 |
| 67.5° | 2244.6 | 2262.0 | 2267.7 | 2264.1 | 2254.9 | 2242.6 | 2219.0 | 1854.7 | 1530.4 | 1197.0 | 382.7 |
| 70° | 2112.8 | 2137.9 | 2161.0 | 2168.7 | 2169.2 | 2167.1 | 2143.5 | 1619.2 | 1302.6 | 1005.1 | 290.4 |
| 72.5° | 1801.3 | 1833.7 | 1881.9 | 1866.5 | 1891.1 | 1875.2 | 1821.3 | 1106.7 | 892.7 | 718.3 | 203.7 |
| 75° | 1215.4 | 1229.8 | 1268.8 | 1224.1 | 1228.2 | 1200.0 | 990.7 | 642.9 | 553.6 | 467.4 | 122.6 |
| 77.5° | 611.6 | 620.8 | 614.6 | 588.0 | 577.7 | 554.6 | 428.9 | 139.6 | 139.6 | 166.2 | 64.1 |
| 80° | 387.9 | 391.5 | 395.6 | 401.7 | 409.4 | 410.4 | 297.6 | 41.0 | 36.9 | 38.5 | 34.9 |
| 82.5° | 318.1 | 327.8 | 340.7 | 343.2 | 346.3 | 348.9 | 205.2 | 22.6 | 18.5 | 20.5 | 24.6 |
| 85° | 73.9 | 80.0 | 76.4 | 67.7 | 72.3 | 55.9 | 28.7 | 9.2 | 8.2 | 10.3 | 16.9 |
| 87.5° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.1 | 3.6 | 8.7 |
| 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 |



REPORT NUMBER: P159854

CATALOG NUMBER: ENC-E01-LED-E1-BL3-7050-ULG

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 75° | 85° | 90° | 95° | 105° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110° | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 |
| 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: P159854

CATALOG NUMBER: ENC-E01-LED-E1-BL3-7050-ULG

CANDELA DISTRIBUTION (continued):

| | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 298.6 | 298.6 | 298.6 | 298.6 | 298.6 | 298.6 | 298.6 | 298.6 |
| 2.5° | 295.5 | 294.0 | 291.9 | 291.4 | 290.9 | 289.9 | 289.4 | 288.8 |
| 5° | 297.1 | 294.0 | 290.9 | 288.8 | 287.8 | 286.8 | 285.8 | 285.8 |
| 7.5° | 303.2 | 299.6 | 295.0 | 293.0 | 290.9 | 289.4 | 288.3 | 288.3 |
| 10° | 313.5 | 309.4 | 303.7 | 301.2 | 298.6 | 297.1 | 296.0 | 295.0 |
| 12.5° | 328.9 | 323.7 | 317.1 | 313.0 | 310.4 | 309.9 | 308.9 | 308.3 |
| 15° | 347.8 | 342.2 | 335.0 | 330.9 | 326.8 | 325.8 | 324.8 | 324.2 |
| 17.5° | 366.8 | 362.2 | 356.6 | 349.4 | 341.2 | 334.5 | 331.4 | 330.9 |
| 20° | 388.4 | 386.3 | 377.6 | 361.7 | 343.7 | 329.9 | 324.2 | 324.2 |
| 22.5° | 415.6 | 409.9 | 388.9 | 360.7 | 334.0 | 314.5 | 306.8 | 306.8 |
| 25° | 445.3 | 426.3 | 387.4 | 349.4 | 316.6 | 292.4 | 282.2 | 282.2 |
| 27.5° | 471.5 | 431.0 | 378.1 | 330.4 | 290.4 | 264.2 | 252.4 | 251.9 |
| 30° | 492.0 | 428.4 | 361.7 | 303.7 | 259.6 | 229.8 | 216.5 | 216.5 |
| 32.5° | 503.3 | 419.7 | 339.1 | 272.4 | 222.2 | 188.3 | 171.9 | 172.4 |
| 35° | 506.4 | 404.8 | 309.4 | 230.9 | 177.0 | 143.7 | 128.8 | 128.8 |
| 37.5° | 503.3 | 381.2 | 272.4 | 185.2 | 132.4 | 108.8 | 97.5 | 96.5 |
| 40° | 493.0 | 345.8 | 223.2 | 135.4 | 98.5 | 84.7 | 80.0 | 79.0 |
| 42.5° | 472.5 | 303.2 | 167.8 | 97.0 | 79.0 | 73.4 | 72.3 | 71.8 |
| 45° | 440.2 | 245.8 | 116.5 | 75.9 | 70.8 | 69.3 | 69.3 | 68.7 |
| 47.5° | 399.7 | 187.8 | 83.1 | 67.2 | 66.7 | 66.7 | 66.7 | 66.7 |
| 50° | 354.5 | 132.9 | 67.7 | 63.6 | 63.1 | 64.1 | 64.6 | 64.6 |
| 52.5° | 307.8 | 92.9 | 62.1 | 61.1 | 60.0 | 61.6 | 62.1 | 62.1 |
| 55° | 257.0 | 72.9 | 59.5 | 58.5 | 56.9 | 57.5 | 58.5 | 58.5 |
| 57.5° | 204.7 | 64.6 | 58.5 | 56.9 | 53.9 | 53.9 | 54.9 | 54.9 |
| 60° | 162.6 | 62.1 | 58.0 | 54.4 | 50.3 | 50.3 | 51.3 | 51.8 |
| 62.5° | 136.0 | 61.6 | 58.0 | 51.8 | 48.7 | 47.2 | 48.2 | 48.2 |
| 65° | 113.4 | 61.6 | 56.4 | 51.8 | 46.2 | 44.1 | 45.1 | 45.1 |
| 67° | 94.9 | 60.5 | 55.4 | 51.8 | 45.1 | 42.6 | 42.6 | 42.6 |
| 67.5° | 89.8 | 60.0 | 55.9 | 51.8 | 44.6 | 42.1 | 41.6 | 41.6 |
| 70° | 67.2 | 54.4 | 55.9 | 52.3 | 43.6 | 38.5 | 37.5 | 37.5 |
| 72.5° | 52.3 | 49.8 | 54.4 | 53.9 | 42.6 | 35.4 | 33.3 | 32.8 |
| 75° | 42.6 | 45.1 | 54.9 | 52.3 | 40.0 | 32.3 | 29.2 | 28.7 |
| 77.5° | 36.4 | 38.5 | 46.2 | 42.1 | 33.3 | 28.7 | 25.7 | 25.1 |
| 80° | 28.7 | 32.8 | 32.8 | 28.7 | 24.6 | 23.1 | 21.5 | 21.5 |
| 82.5° | 23.1 | 25.1 | 21.5 | 19.5 | 18.5 | 18.0 | 16.9 | 16.9 |
| 85° | 19.0 | 20.5 | 15.9 | 14.4 | 13.9 | 13.3 | 12.3 | 12.3 |
| 87.5° | 14.9 | 12.8 | 8.2 | 7.7 | 7.7 | 7.2 | 7.2 | 7.7 |
| 90° | 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 |
| 95° | 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 |
| 100° | 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 |
| 105° | 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 |



REPORT NUMBER: P159854

CATALOG NUMBER: ENC-E01-LED-E1-BL3-7050-ULG

CANDELA DISTRIBUTION (continued):

| | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110° | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 |
| 112.5° | 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 |
| 117.5° | 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 |
| 122.5° | 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 |
| 127.5° | 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 |
| 132.5° | 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 |
| 137.5° | 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 |
| 142.5° | 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 |
| 147.5° | 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 |
| 152.5° | 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 |
| 157.5° | 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 |
| 162.5° | 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 |
| 167.5° | 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 |
| 172.5° | 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 |
| 177.5° | 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 |

(END OF REPORT)