

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: P159977

Luminaire Tested: **ENT-E01-LED-E1-BL3-ULG**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P159977
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-BL3-ULG
Description: ENTRI LED LUMINAIRE WITH UPLIGHT
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3017.9 lumens
Efficiency: N/A
Efficacy: 92.3 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

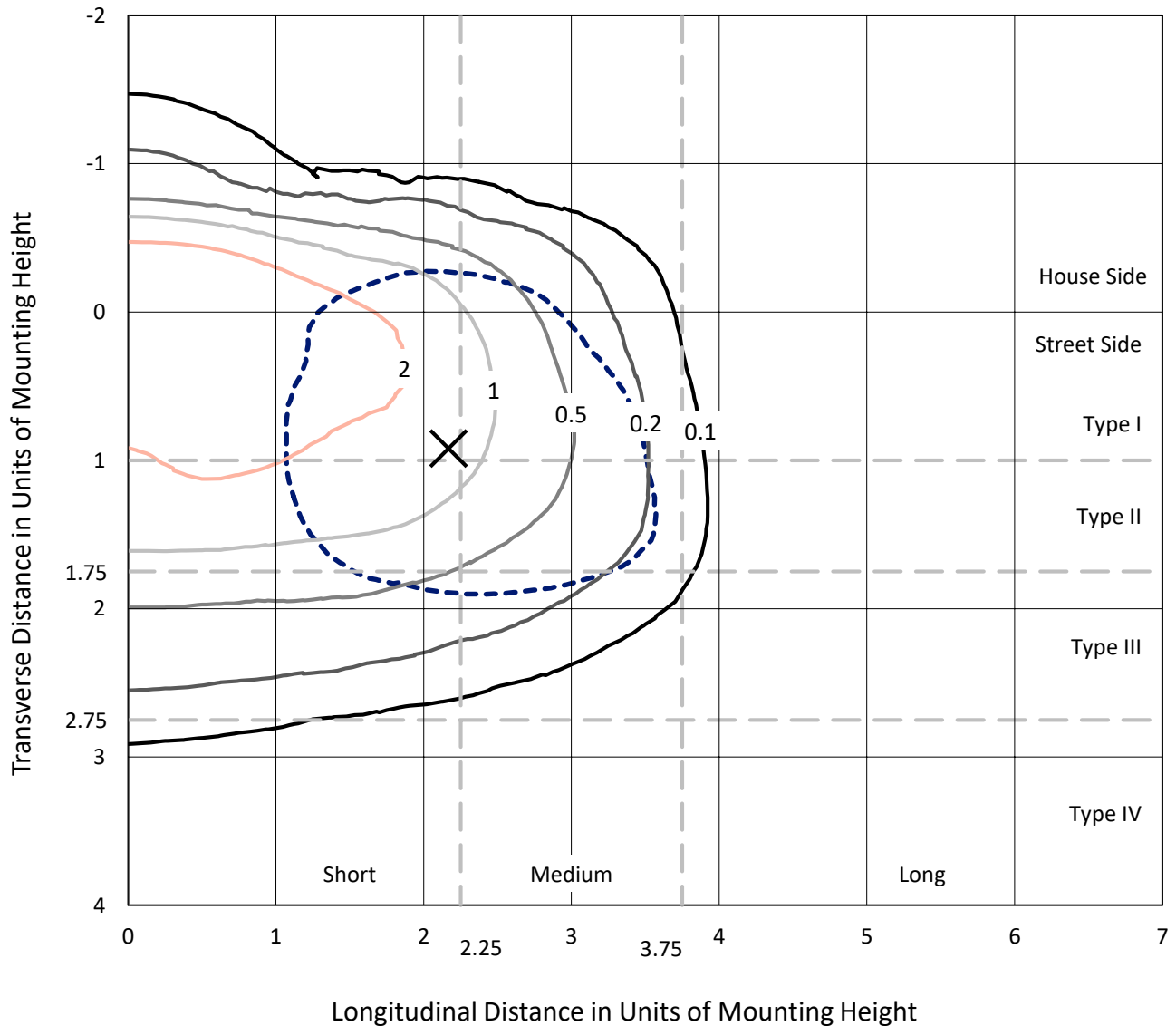


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

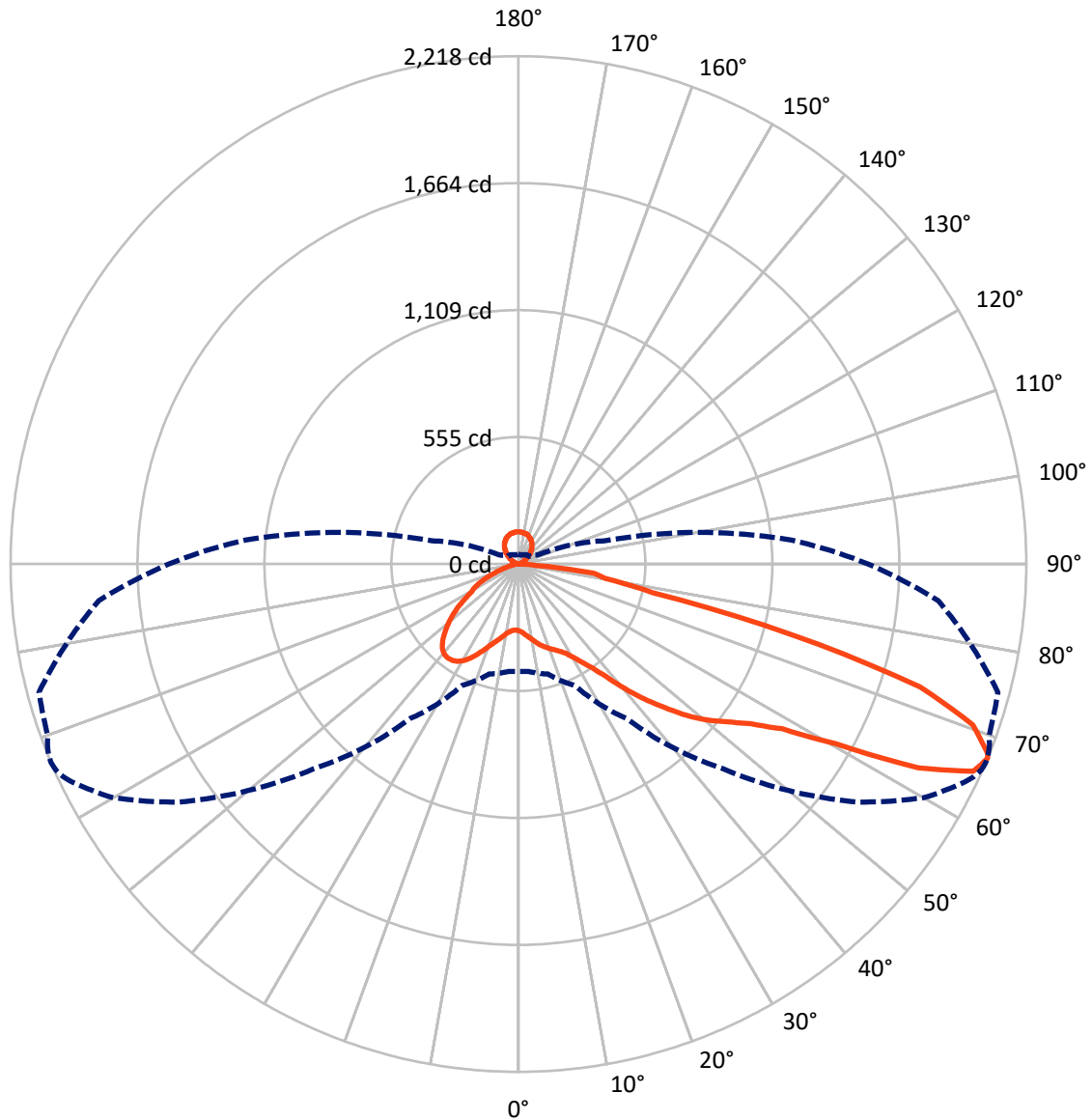


Based on 10 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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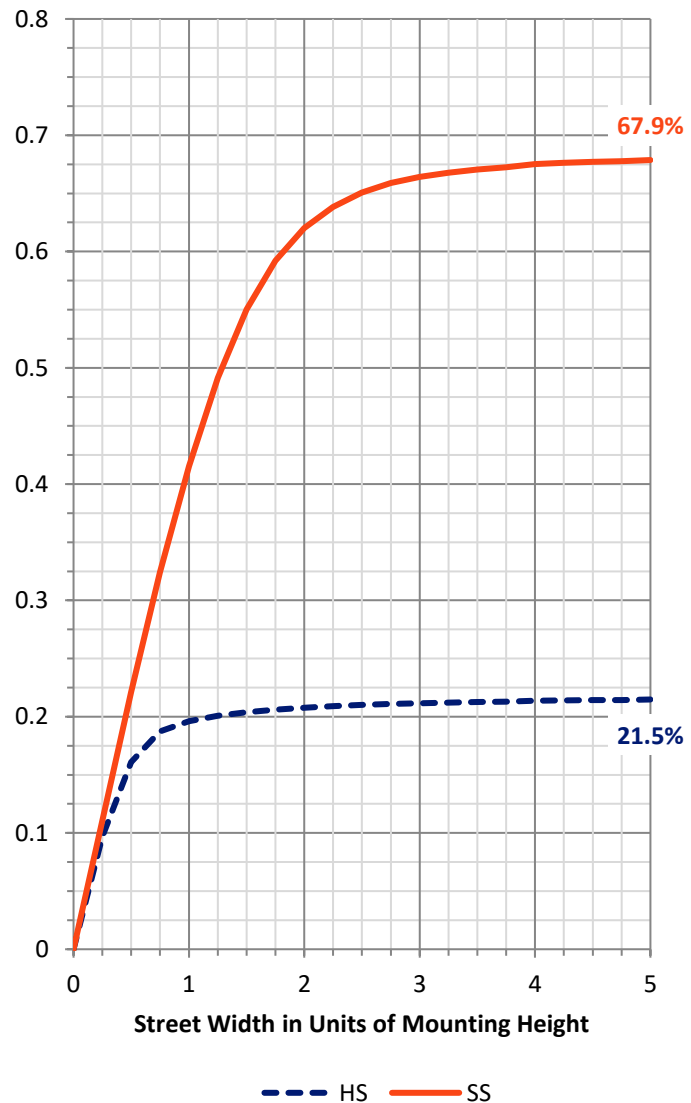
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 656.1 | 157.7 | 813.9 |
| | % Fixture | 21.7 | 5.2 | 27.0 |
| Street Side | Lumens | 2046.3 | 157.7 | 2204.0 |
| | % Fixture | 67.8 | 5.2 | 73.0 |
| Total | Lumens | 2702.4 | 315.5 | 3017.9 |
| | % Fixture | 89.5 | 10.5 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 29.3 | 1.0 |
| 10°-20° | 101.4 | 3.4 |
| 20°-30° | 183.9 | 6.1 |
| 30°-40° | 268.8 | 8.9 |
| 40°-50° | 407.3 | 13.5 |
| 50°-60° | 584.1 | 19.4 |
| 60°-70° | 746.4 | 24.7 |
| 70°-80° | 348.5 | 11.5 |
| 80°-90° | 32.6 | 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 | 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° | 2702.4 | 89.5 |
| 0°-180° | 3017.9 | 100.0 |



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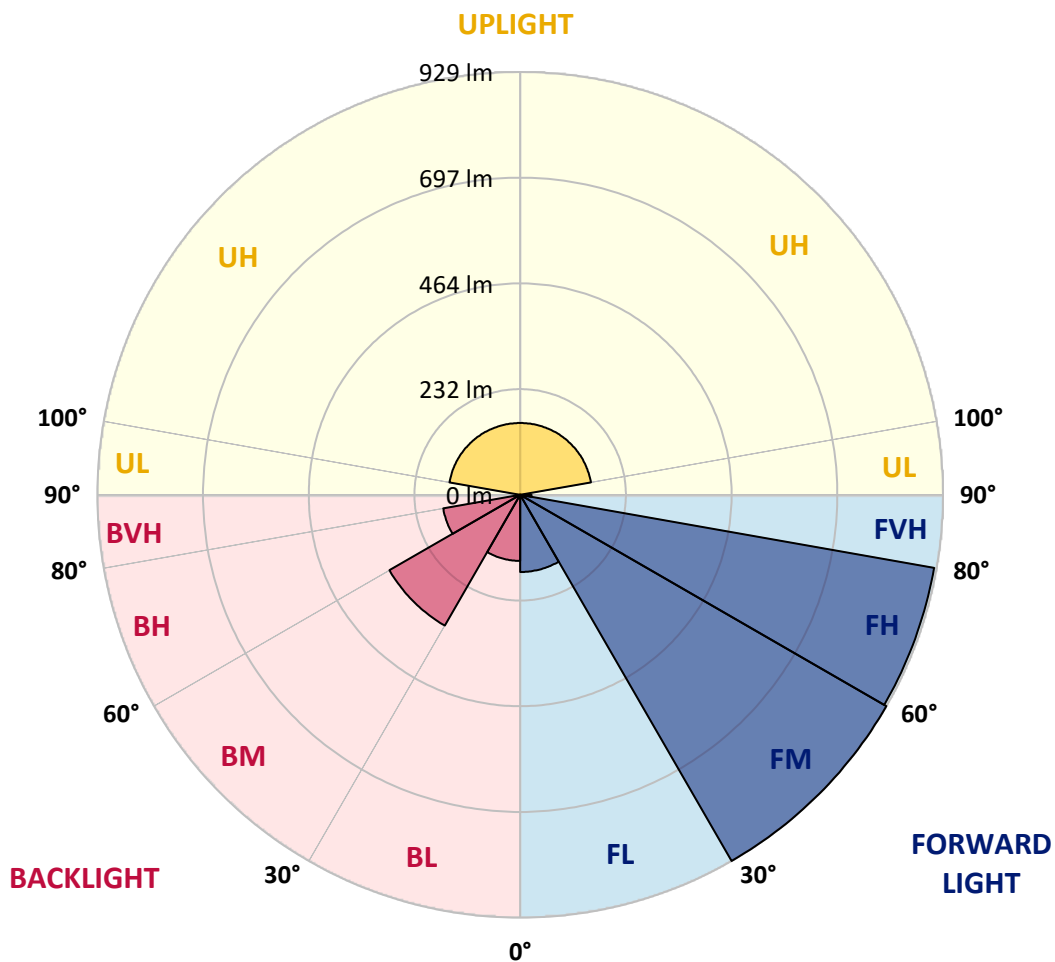
CATALOG NUMBER: ENT-E01-LED-E1-BL3-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|--------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 169.5 | 5.6 | | | |
| FM | (30°-60°) | 928.7 | 30.8 | | | |
| FH | (60°-80°) | 923.2 | 30.6 | | | G1/1800 |
| FVH | (80°-90°) | 24.8 | 0.8 | | | G1/100 |
| BL | (0°-30°) | 145.2 | 4.8 | B1/500 | | |
| BM | (30°-60°) | 331.5 | 11.0 | B1/1000 | | |
| BH | (60°-80°) | 171.6 | 5.7 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 7.9 | 0.3 | | | G0/10 |
| UL | (90°-100°) | 1.3 | 0.0 | | U1/10 | |
| UH | (100°-180°) | 157.7 | 5.2 | | U3/500 | |

BUG Rating: B1-U3-G1

Type III Short





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CATALOG NUMBER: ENT-E01-LED-E1-BL3-ULG

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0° | 291.0 | 291.0 | 291.0 | 291.0 | 291.0 | 291.0 | 291.0 | 291.0 | 291.0 | 291.0 | 291.0 |
| 2.5° | 302.5 | 302.5 | 303.0 | 303.0 | 302.5 | 302.5 | 299.5 | 299.5 | 299.5 | 299.0 | 299.0 |
| 5° | 319.0 | 319.5 | 319.5 | 319.0 | 318.0 | 316.0 | 312.0 | 312.0 | 312.0 | 311.5 | 310.5 |
| 7.5° | 338.0 | 337.5 | 338.0 | 336.5 | 334.5 | 332.0 | 326.5 | 326.0 | 325.0 | 325.0 | 324.0 |
| 10° | 359.0 | 357.5 | 359.0 | 357.0 | 353.0 | 348.5 | 342.0 | 340.0 | 340.0 | 340.0 | 338.0 |
| 12.5° | 380.5 | 380.0 | 381.0 | 377.5 | 370.5 | 365.5 | 359.0 | 356.5 | 356.0 | 356.0 | 355.0 |
| 15° | 404.0 | 403.5 | 400.5 | 395.0 | 386.0 | 381.5 | 374.0 | 371.0 | 370.5 | 370.5 | 369.0 |
| 17.5° | 428.5 | 428.5 | 421.0 | 409.5 | 397.0 | 390.5 | 385.0 | 383.0 | 382.5 | 382.5 | 382.0 |
| 20° | 449.5 | 449.5 | 439.5 | 420.5 | 402.5 | 395.5 | 393.5 | 393.5 | 393.5 | 393.5 | 394.0 |
| 22.5° | 465.0 | 463.5 | 450.0 | 426.5 | 404.5 | 398.5 | 403.5 | 404.0 | 404.0 | 405.0 | 405.5 |
| 25° | 472.0 | 471.5 | 455.5 | 427.5 | 404.0 | 403.0 | 414.0 | 415.5 | 416.5 | 417.5 | 419.0 |
| 27.5° | 472.5 | 472.5 | 456.5 | 427.0 | 403.5 | 411.0 | 427.0 | 431.5 | 432.5 | 434.5 | 437.0 |
| 30° | 467.5 | 468.0 | 454.5 | 426.5 | 407.0 | 426.0 | 447.5 | 456.0 | 458.0 | 461.0 | 465.0 |
| 32.5° | 461.5 | 462.5 | 454.5 | 431.5 | 422.5 | 452.0 | 480.5 | 492.5 | 494.5 | 498.5 | 502.5 |
| 35° | 462.5 | 464.0 | 465.5 | 451.5 | 457.0 | 496.5 | 537.5 | 544.5 | 544.0 | 550.5 | 552.5 |
| 37.5° | 469.0 | 472.5 | 483.5 | 486.0 | 507.0 | 562.0 | 605.0 | 620.0 | 620.0 | 626.0 | 624.0 |
| 40° | 470.0 | 475.5 | 503.0 | 532.0 | 573.5 | 641.0 | 700.0 | 717.5 | 717.5 | 720.0 | 719.0 |
| 42.5° | 493.5 | 498.5 | 538.0 | 589.5 | 648.5 | 728.0 | 793.0 | 808.5 | 812.0 | 809.5 | 811.5 |
| 45° | 536.0 | 539.5 | 588.0 | 653.0 | 721.0 | 811.5 | 884.0 | 899.0 | 902.5 | 900.0 | 897.0 |
| 47.5° | 590.0 | 595.0 | 646.5 | 723.5 | 793.5 | 888.5 | 977.0 | 994.5 | 998.0 | 994.0 | 995.5 |
| 50° | 635.0 | 644.5 | 699.5 | 790.5 | 863.5 | 954.5 | 1049.0 | 1073.0 | 1076.0 | 1076.0 | 1077.0 |
| 52.5° | 676.0 | 684.5 | 737.5 | 839.0 | 920.0 | 1014.0 | 1102.5 | 1133.5 | 1137.0 | 1139.5 | 1141.5 |
| 55° | 693.0 | 701.5 | 754.5 | 860.0 | 954.5 | 1069.5 | 1164.5 | 1206.0 | 1208.0 | 1214.5 | 1223.0 |
| 57.5° | 693.5 | 700.5 | 752.5 | 859.5 | 972.5 | 1119.5 | 1249.0 | 1313.5 | 1321.5 | 1330.0 | 1344.5 |
| 60° | 646.5 | 655.0 | 707.0 | 834.5 | 987.5 | 1175.5 | 1377.0 | 1495.5 | 1507.0 | 1531.5 | 1563.5 |
| 62.5° | 575.5 | 581.5 | 626.5 | 752.0 | 987.5 | 1253.0 | 1583.0 | 1779.0 | 1817.5 | 1857.5 | 1916.5 |
| 65° | 509.5 | 514.0 | 542.5 | 651.0 | 917.5 | 1316.0 | 1798.5 | 2024.0 | 2065.5 | 2095.5 | 2145.5 |
| 67° | 468.5 | 470.5 | 497.5 | 586.0 | 823.5 | 1265.5 | 1813.0 | 2041.0 | 2076.5 | 2107.5 | 2170.5 |
| 67.5° | 454.5 | 456.0 | 481.5 | 569.5 | 794.5 | 1235.0 | 1791.0 | 2027.0 | 2065.5 | 2097.0 | 2161.0 |
| 70° | 349.5 | 345.0 | 367.0 | 448.0 | 642.0 | 985.5 | 1572.5 | 1844.5 | 1888.5 | 1930.5 | 2008.0 |
| 72.5° | 208.5 | 202.0 | 216.0 | 260.0 | 416.0 | 692.5 | 1192.5 | 1513.5 | 1569.5 | 1622.0 | 1723.5 |
| 75° | 125.5 | 126.0 | 136.5 | 167.0 | 227.0 | 435.5 | 770.5 | 985.0 | 1037.5 | 1087.0 | 1167.0 |
| 77.5° | 62.5 | 62.0 | 71.5 | 97.0 | 165.5 | 270.5 | 447.5 | 568.0 | 585.5 | 609.0 | 599.5 |
| 80° | 20.0 | 19.5 | 21.0 | 26.5 | 59.5 | 181.5 | 281.5 | 356.5 | 364.5 | 369.0 | 374.5 |
| 82.5° | 3.0 | 3.5 | 4.0 | 6.5 | 11.0 | 43.5 | 175.0 | 248.0 | 259.0 | 272.0 | 297.0 |
| 85° | 0.0 | 0.0 | 0.5 | 0.5 | 1.5 | 3.5 | 16.5 | 42.5 | 44.5 | 54.0 | 63.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.5 | 1.0 | 1.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 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 |



REPORT NUMBER: P159977

CATALOG NUMBER: ENT-E01-LED-E1-BL3-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: ENT-E01-LED-E1-BL3-ULG

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 75° | 85° | 90° | 95° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0° | 291.0 | 291.0 | 291.0 | 291.0 | 291.0 | 291.0 | 291.0 | 291.0 | 291.0 | 291.0 | 291.0 |
| 2.5° | 298.5 | 298.5 | 298.0 | 297.5 | 297.5 | 297.5 | 296.5 | 296.0 | 293.0 | 292.0 | 290.0 |
| 5° | 310.5 | 310.5 | 309.5 | 309.0 | 308.5 | 308.5 | 307.0 | 304.0 | 300.0 | 297.5 | 293.5 |
| 7.5° | 323.5 | 323.0 | 322.0 | 322.0 | 320.0 | 320.0 | 318.0 | 312.5 | 308.5 | 305.0 | 300.0 |
| 10° | 338.5 | 338.0 | 336.5 | 336.0 | 335.0 | 334.0 | 332.0 | 325.5 | 321.5 | 317.0 | 311.0 |
| 12.5° | 355.0 | 354.0 | 353.0 | 352.5 | 351.5 | 350.5 | 348.5 | 342.5 | 338.5 | 334.0 | 327.0 |
| 15° | 369.5 | 369.0 | 368.0 | 367.5 | 367.5 | 366.5 | 365.0 | 359.5 | 355.5 | 350.5 | 345.0 |
| 17.5° | 382.5 | 382.0 | 381.5 | 381.5 | 381.0 | 381.0 | 380.5 | 375.5 | 373.0 | 369.0 | 363.5 |
| 20° | 393.5 | 394.0 | 394.0 | 394.0 | 394.5 | 395.0 | 396.0 | 393.5 | 391.0 | 387.5 | 384.5 |
| 22.5° | 405.5 | 406.0 | 407.5 | 407.5 | 408.5 | 409.0 | 412.5 | 412.0 | 411.0 | 408.5 | 406.0 |
| 25° | 420.0 | 421.0 | 422.0 | 423.5 | 424.0 | 425.5 | 431.5 | 434.0 | 432.0 | 430.5 | 433.0 |
| 27.5° | 439.0 | 441.0 | 442.0 | 444.0 | 445.0 | 447.0 | 456.0 | 461.5 | 460.0 | 460.5 | 466.0 |
| 30° | 467.5 | 469.5 | 472.5 | 473.5 | 477.0 | 478.0 | 488.5 | 497.0 | 497.0 | 496.0 | 506.0 |
| 32.5° | 505.5 | 507.0 | 510.5 | 513.0 | 515.0 | 517.0 | 527.0 | 536.0 | 537.0 | 540.0 | 544.0 |
| 35° | 555.5 | 556.5 | 558.5 | 562.5 | 562.0 | 563.0 | 568.5 | 577.5 | 582.5 | 589.5 | 577.5 |
| 37.5° | 621.5 | 625.0 | 624.0 | 624.5 | 620.5 | 623.0 | 625.0 | 634.5 | 645.0 | 652.0 | 605.5 |
| 40° | 715.5 | 718.0 | 715.5 | 712.0 | 709.0 | 707.5 | 704.5 | 715.0 | 724.0 | 719.0 | 627.5 |
| 42.5° | 807.0 | 808.0 | 806.0 | 800.0 | 797.5 | 792.5 | 784.5 | 797.5 | 802.5 | 779.0 | 639.0 |
| 45° | 897.5 | 896.0 | 892.5 | 891.5 | 886.5 | 881.5 | 877.0 | 885.5 | 883.5 | 837.5 | 644.0 |
| 47.5° | 992.5 | 991.0 | 988.5 | 984.5 | 979.0 | 978.0 | 974.0 | 973.0 | 958.5 | 887.5 | 641.5 |
| 50° | 1075.5 | 1076.5 | 1071.0 | 1073.0 | 1070.5 | 1065.5 | 1062.0 | 1064.0 | 1029.5 | 931.5 | 636.5 |
| 52.5° | 1147.0 | 1147.0 | 1144.5 | 1147.0 | 1146.0 | 1143.5 | 1146.5 | 1179.0 | 1107.5 | 993.5 | 629.0 |
| 55° | 1230.0 | 1233.0 | 1231.0 | 1233.5 | 1235.0 | 1240.5 | 1253.0 | 1329.0 | 1224.0 | 1069.5 | 612.0 |
| 57.5° | 1351.5 | 1359.0 | 1357.0 | 1367.0 | 1376.0 | 1390.5 | 1436.0 | 1516.0 | 1368.5 | 1153.0 | 578.5 |
| 60° | 1569.5 | 1594.0 | 1593.0 | 1610.5 | 1628.5 | 1645.0 | 1724.5 | 1740.0 | 1532.0 | 1262.0 | 553.5 |
| 62.5° | 1932.5 | 1952.5 | 1961.0 | 1980.0 | 1991.5 | 1994.5 | 2058.5 | 1945.0 | 1678.0 | 1361.0 | 539.5 |
| 65° | 2167.5 | 2175.5 | 2183.0 | 2180.5 | 2173.5 | 2162.0 | 2166.0 | 1926.0 | 1629.5 | 1297.5 | 463.0 |
| 67° | 2195.5 | 2212.0 | 2218.0 | 2214.0 | 2203.5 | 2187.5 | 2168.0 | 1840.0 | 1526.5 | 1198.5 | 391.5 |
| 67.5° | 2187.5 | 2204.5 | 2210.0 | 2206.5 | 2197.5 | 2185.5 | 2162.5 | 1807.5 | 1491.5 | 1166.5 | 373.0 |
| 70° | 2059.0 | 2083.5 | 2106.0 | 2113.5 | 2114.0 | 2112.0 | 2089.0 | 1578.0 | 1269.5 | 979.5 | 283.0 |
| 72.5° | 1755.5 | 1787.0 | 1834.0 | 1819.0 | 1843.0 | 1827.5 | 1775.0 | 1078.5 | 870.0 | 700.0 | 198.5 |
| 75° | 1184.5 | 1198.5 | 1236.5 | 1193.0 | 1197.0 | 1169.5 | 965.5 | 626.5 | 539.5 | 455.5 | 119.5 |
| 77.5° | 596.0 | 605.0 | 599.0 | 573.0 | 563.0 | 540.5 | 418.0 | 136.0 | 136.0 | 162.0 | 62.5 |
| 80° | 378.0 | 381.5 | 385.5 | 391.5 | 399.0 | 400.0 | 290.0 | 40.0 | 36.0 | 37.5 | 34.0 |
| 82.5° | 310.0 | 319.5 | 332.0 | 334.5 | 337.5 | 340.0 | 200.0 | 22.0 | 18.0 | 20.0 | 24.0 |
| 85° | 72.0 | 78.0 | 74.5 | 66.0 | 70.5 | 54.5 | 28.0 | 9.0 | 8.0 | 10.0 | 16.5 |
| 87.5° | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.0 | 3.5 | 8.5 |
| 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 |



REPORT NUMBER: P159977

CATALOG NUMBER: ENT-E01-LED-E1-BL3-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: P159977

CATALOG NUMBER: ENT-E01-LED-E1-BL3-ULG

CANDELA DISTRIBUTION (continued):

| | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 291.0 | 291.0 | 291.0 | 291.0 | 291.0 | 291.0 | 291.0 | 291.0 |
| 2.5° | 288.0 | 286.5 | 284.5 | 284.0 | 283.5 | 282.5 | 282.0 | 281.5 |
| 5° | 289.5 | 286.5 | 283.5 | 281.5 | 280.5 | 279.5 | 278.5 | 278.5 |
| 7.5° | 295.5 | 292.0 | 287.5 | 285.5 | 283.5 | 282.0 | 281.0 | 281.0 |
| 10° | 305.5 | 301.5 | 296.0 | 293.5 | 291.0 | 289.5 | 288.5 | 287.5 |
| 12.5° | 320.5 | 315.5 | 309.0 | 305.0 | 302.5 | 302.0 | 301.0 | 300.5 |
| 15° | 339.0 | 333.5 | 326.5 | 322.5 | 318.5 | 317.5 | 316.5 | 316.0 |
| 17.5° | 357.5 | 353.0 | 347.5 | 340.5 | 332.5 | 326.0 | 323.0 | 322.5 |
| 20° | 378.5 | 376.5 | 368.0 | 352.5 | 335.0 | 321.5 | 316.0 | 316.0 |
| 22.5° | 405.0 | 399.5 | 379.0 | 351.5 | 325.5 | 306.5 | 299.0 | 299.0 |
| 25° | 434.0 | 415.5 | 377.5 | 340.5 | 308.5 | 285.0 | 275.0 | 275.0 |
| 27.5° | 459.5 | 420.0 | 368.5 | 322.0 | 283.0 | 257.5 | 246.0 | 245.5 |
| 30° | 479.5 | 417.5 | 352.5 | 296.0 | 253.0 | 224.0 | 211.0 | 211.0 |
| 32.5° | 490.5 | 409.0 | 330.5 | 265.5 | 216.5 | 183.5 | 167.5 | 168.0 |
| 35° | 493.5 | 394.5 | 301.5 | 225.0 | 172.5 | 140.0 | 125.5 | 125.5 |
| 37.5° | 490.5 | 371.5 | 265.5 | 180.5 | 129.0 | 106.0 | 95.0 | 94.0 |
| 40° | 480.5 | 337.0 | 217.5 | 132.0 | 96.0 | 82.5 | 78.0 | 77.0 |
| 42.5° | 460.5 | 295.5 | 163.5 | 94.5 | 77.0 | 71.5 | 70.5 | 70.0 |
| 45° | 429.0 | 239.5 | 113.5 | 74.0 | 69.0 | 67.5 | 67.5 | 67.0 |
| 47.5° | 389.5 | 183.0 | 81.0 | 65.5 | 65.0 | 65.0 | 65.0 | 65.0 |
| 50° | 345.5 | 129.5 | 66.0 | 62.0 | 61.5 | 62.5 | 63.0 | 63.0 |
| 52.5° | 300.0 | 90.5 | 60.5 | 59.5 | 58.5 | 60.0 | 60.5 | 60.5 |
| 55° | 250.5 | 71.0 | 58.0 | 57.0 | 55.5 | 56.0 | 57.0 | 57.0 |
| 57.5° | 199.5 | 63.0 | 57.0 | 55.5 | 52.5 | 52.5 | 53.5 | 53.5 |
| 60° | 158.5 | 60.5 | 56.5 | 53.0 | 49.0 | 49.0 | 50.0 | 50.5 |
| 62.5° | 132.5 | 60.0 | 56.5 | 50.5 | 47.5 | 46.0 | 47.0 | 47.0 |
| 65° | 110.5 | 60.0 | 55.0 | 50.5 | 45.0 | 43.0 | 44.0 | 44.0 |
| 67° | 92.5 | 59.0 | 54.0 | 50.5 | 44.0 | 41.5 | 41.5 | 41.5 |
| 67.5° | 87.5 | 58.5 | 54.5 | 50.5 | 43.5 | 41.0 | 40.5 | 40.5 |
| 70° | 65.5 | 53.0 | 54.5 | 51.0 | 42.5 | 37.5 | 36.5 | 36.5 |
| 72.5° | 51.0 | 48.5 | 53.0 | 52.5 | 41.5 | 34.5 | 32.5 | 32.0 |
| 75° | 41.5 | 44.0 | 53.5 | 51.0 | 39.0 | 31.5 | 28.5 | 28.0 |
| 77.5° | 35.5 | 37.5 | 45.0 | 41.0 | 32.5 | 28.0 | 25.0 | 24.5 |
| 80° | 28.0 | 32.0 | 32.0 | 28.0 | 24.0 | 22.5 | 21.0 | 21.0 |
| 82.5° | 22.5 | 24.5 | 21.0 | 19.0 | 18.0 | 17.5 | 16.5 | 16.5 |
| 85° | 18.5 | 20.0 | 15.5 | 14.0 | 13.5 | 13.0 | 12.0 | 12.0 |
| 87.5° | 14.5 | 12.5 | 8.0 | 7.5 | 7.5 | 7.0 | 7.0 | 7.5 |
| 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: P159977

CATALOG NUMBER: ENT-E01-LED-E1-BL3-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)