

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: P160093

Luminaire Tested: **ENV-E01-LED-E1-BL3-7030-ULG**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P160093
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: ENV-E01-LED-E1-BL3-7030-ULG
Description: ENTRI LED LUMINAIRE WITH UPLIGHT
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2783.8 lumens
Efficiency: N/A
Efficacy: 85.1 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

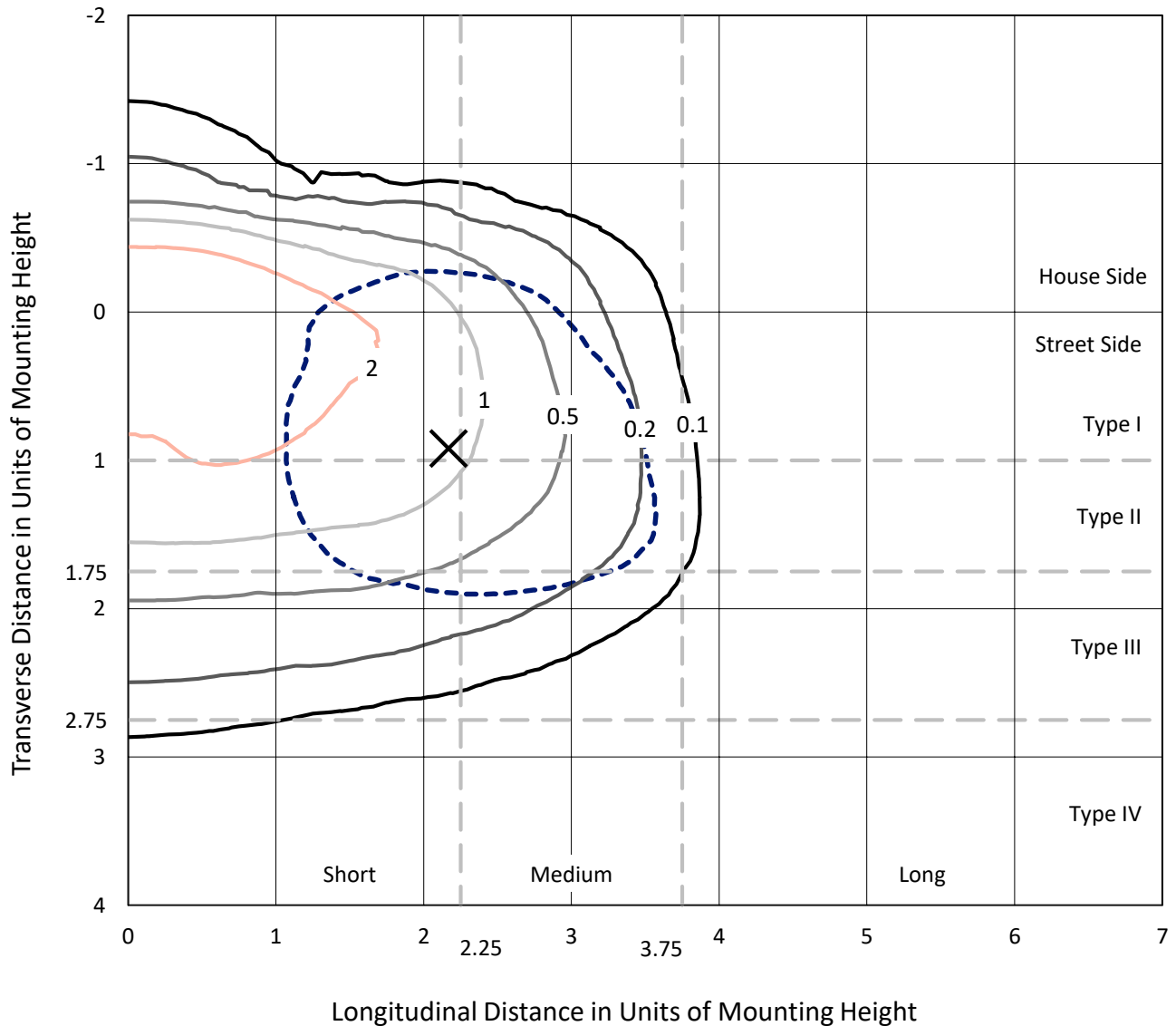
Input Watts (W): 32.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P160093
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Iso-Footcandle Lines of Horizontal Illumination

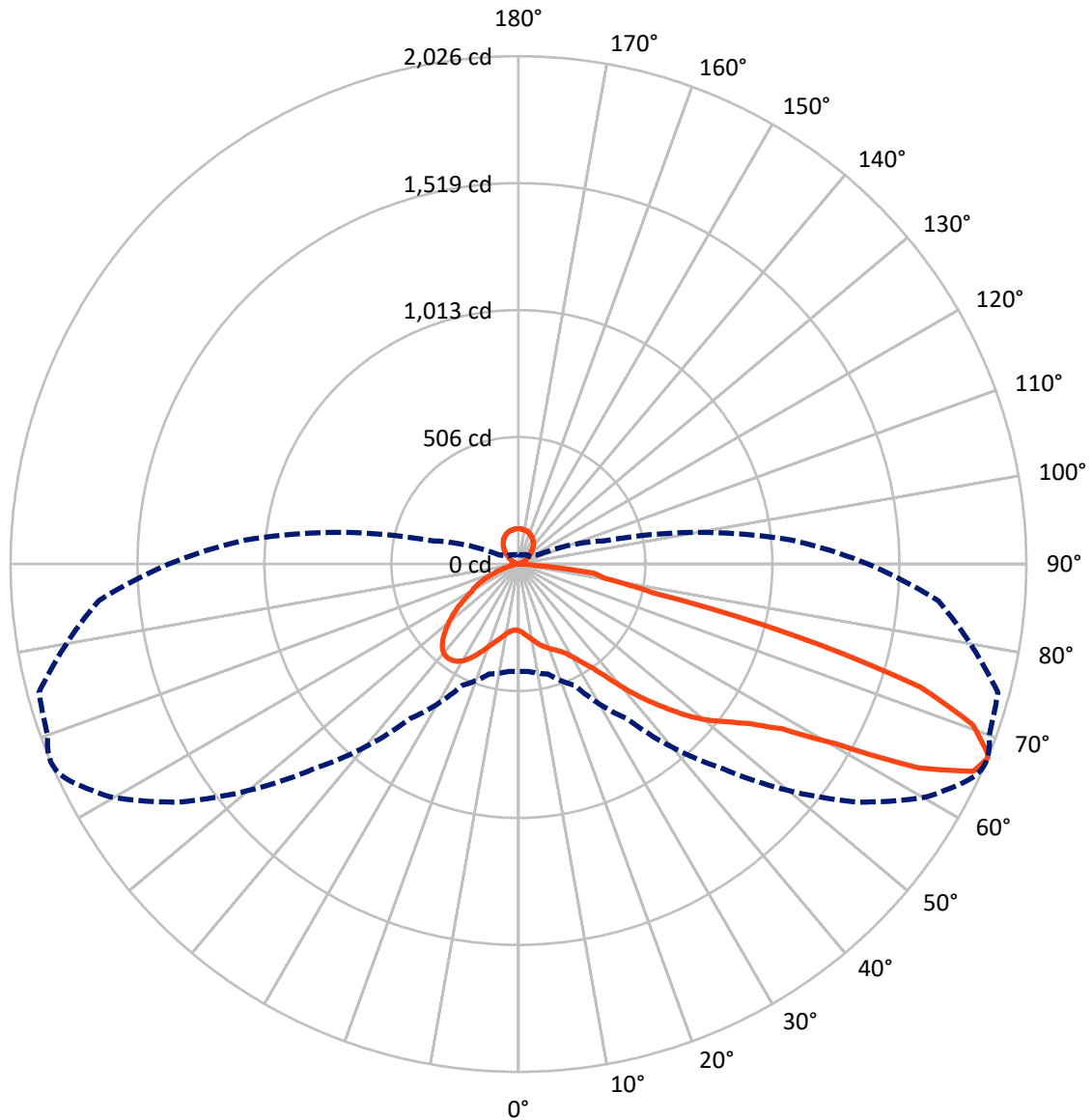
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Short - Non-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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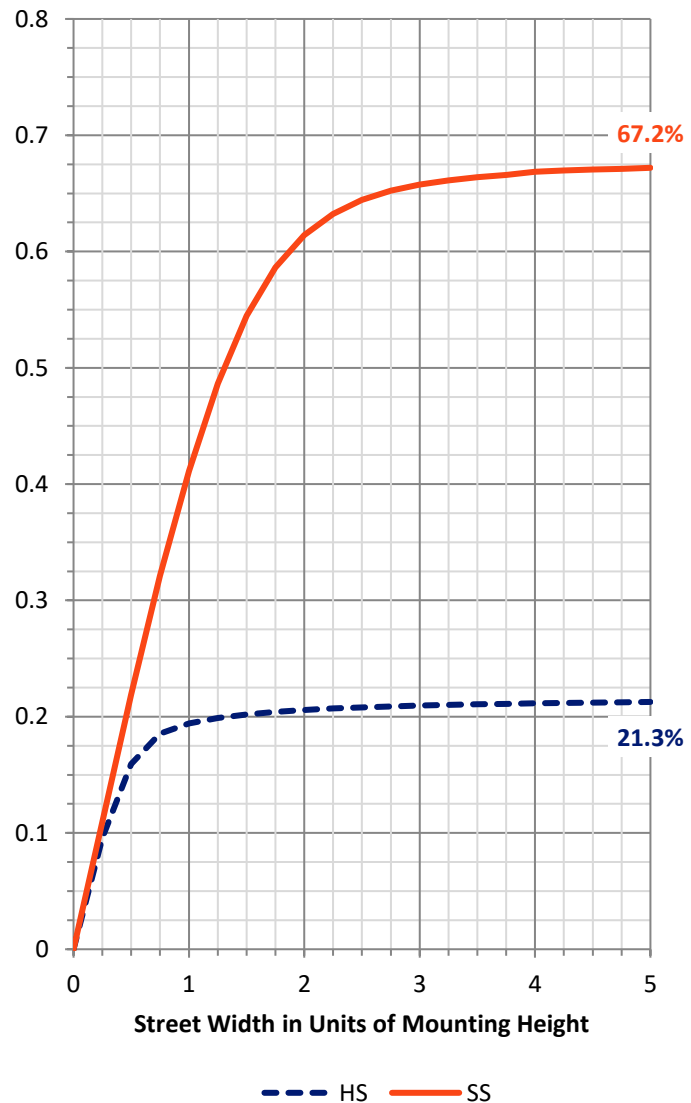
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 599.3 | 157.7 | 757.1 |
| | % Fixture | 21.5 | 5.7 | 27.2 |
| Street Side | Lumens | 1868.9 | 157.7 | 2026.7 |
| | % Fixture | 67.1 | 5.7 | 72.8 |
| Total | Lumens | 2468.3 | 315.5 | 2783.8 |
| | % Fixture | 88.7 | 11.3 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 26.8 | 1.0 |
| 10°-20° | 92.7 | 3.3 |
| 20°-30° | 168.0 | 6.0 |
| 30°-40° | 245.5 | 8.8 |
| 40°-50° | 372.0 | 13.4 |
| 50°-60° | 533.5 | 19.2 |
| 60°-70° | 681.7 | 24.5 |
| 70°-80° | 318.3 | 11.4 |
| 80°-90° | 29.8 | 1.1 |
| 90°-100° | 1.3 | 0.0 |
| 100°-110° | 12.3 | 0.4 |
| 110°-120° | 25.2 | 0.9 |
| 120°-130° | 43.0 | 1.5 |
| 130°-140° | 60.0 | 2.2 |
| 140°-150° | 65.4 | 2.3 |
| 150°-160° | 56.9 | 2.0 |
| 160°-170° | 38.2 | 1.4 |
| 170°-180° | 13.3 | 0.5 |
| 0°-90° | 2468.3 | 88.7 |
| 0°-180° | 2783.8 | 100.0 |



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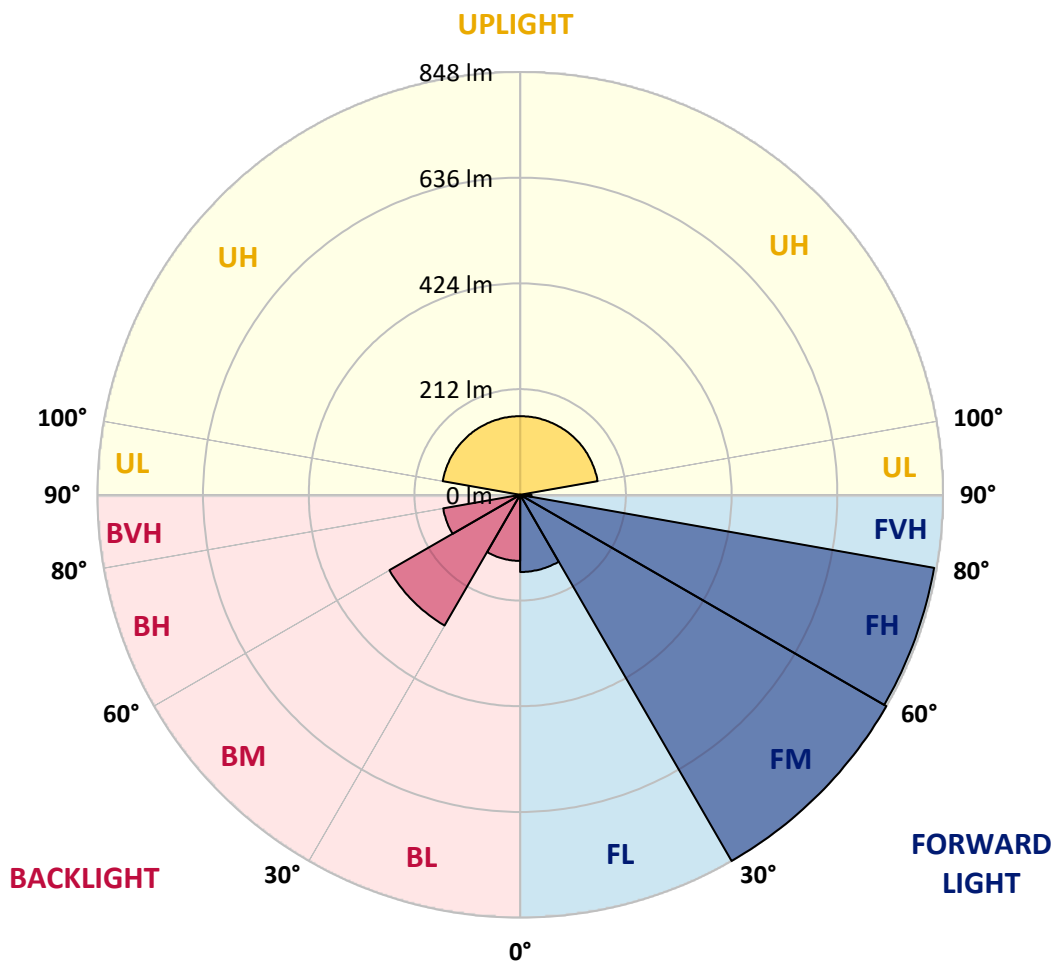
CATALOG NUMBER: ENV-E01-LED-E1-BL3-7030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|--------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 154.8 | 5.6 | | | |
| FM | (30°-60°) | 848.3 | 30.5 | | | |
| FH | (60°-80°) | 843.2 | 30.3 | | | G1/1800 |
| FVH | (80°-90°) | 22.6 | 0.8 | | | G1/100 |
| BL | (0°-30°) | 132.6 | 4.8 | B1/500 | | |
| BM | (30°-60°) | 302.7 | 10.9 | B1/1000 | | |
| BH | (60°-80°) | 156.8 | 5.6 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 7.2 | 0.3 | | | G0/10 |
| UL | (90°-100°) | 1.3 | 0.0 | | U1/10 | |
| UH | (100°-180°) | 157.7 | 5.7 | | U3/500 | |

BUG Rating: B1-U3-G1

Type III Short





REPORT NUMBER: P160093

CATALOG NUMBER: ENV-E01-LED-E1-BL3-7030-ULG

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0° | 265.8 | 265.8 | 265.8 | 265.8 | 265.8 | 265.8 | 265.8 | 265.8 | 265.8 | 265.8 | 265.8 |
| 2.5° | 276.3 | 276.3 | 276.7 | 276.7 | 276.3 | 276.3 | 273.5 | 273.5 | 273.5 | 273.1 | 273.1 |
| 5° | 291.4 | 291.8 | 291.8 | 291.4 | 290.4 | 288.6 | 285.0 | 285.0 | 285.0 | 284.5 | 283.6 |
| 7.5° | 308.7 | 308.3 | 308.7 | 307.3 | 305.5 | 303.2 | 298.2 | 297.8 | 296.8 | 296.8 | 295.9 |
| 10° | 327.9 | 326.5 | 327.9 | 326.1 | 322.4 | 318.3 | 312.4 | 310.5 | 310.5 | 310.5 | 308.7 |
| 12.5° | 347.5 | 347.1 | 348.0 | 344.8 | 338.4 | 333.8 | 327.9 | 325.6 | 325.2 | 325.2 | 324.2 |
| 15° | 369.0 | 368.5 | 365.8 | 360.8 | 352.6 | 348.4 | 341.6 | 338.9 | 338.4 | 338.4 | 337.0 |
| 17.5° | 391.4 | 391.4 | 384.5 | 374.0 | 362.6 | 356.7 | 351.6 | 349.8 | 349.4 | 349.4 | 348.9 |
| 20° | 410.6 | 410.6 | 401.4 | 384.1 | 367.6 | 361.2 | 359.4 | 359.4 | 359.4 | 359.4 | 359.9 |
| 22.5° | 424.7 | 423.3 | 411.0 | 389.5 | 369.5 | 364.0 | 368.5 | 369.0 | 369.0 | 369.9 | 370.4 |
| 25° | 431.1 | 430.6 | 416.0 | 390.5 | 369.0 | 368.1 | 378.1 | 379.5 | 380.4 | 381.3 | 382.7 |
| 27.5° | 431.6 | 431.6 | 416.9 | 390.0 | 368.5 | 375.4 | 390.0 | 394.1 | 395.0 | 396.9 | 399.1 |
| 30° | 427.0 | 427.4 | 415.1 | 389.5 | 371.7 | 389.1 | 408.7 | 416.5 | 418.3 | 421.1 | 424.7 |
| 32.5° | 421.5 | 422.4 | 415.1 | 394.1 | 385.9 | 412.8 | 438.9 | 449.8 | 451.7 | 455.3 | 459.0 |
| 35° | 422.4 | 423.8 | 425.2 | 412.4 | 417.4 | 453.5 | 490.9 | 497.3 | 496.9 | 502.8 | 504.6 |
| 37.5° | 428.4 | 431.6 | 441.6 | 443.9 | 463.1 | 513.3 | 552.6 | 566.3 | 566.3 | 571.8 | 569.9 |
| 40° | 429.3 | 434.3 | 459.4 | 485.9 | 523.8 | 585.5 | 639.3 | 655.3 | 655.3 | 657.6 | 656.7 |
| 42.5° | 450.7 | 455.3 | 491.4 | 538.4 | 592.3 | 664.9 | 724.3 | 738.4 | 741.6 | 739.4 | 741.2 |
| 45° | 489.6 | 492.8 | 537.0 | 596.4 | 658.5 | 741.2 | 807.4 | 821.1 | 824.3 | 822.0 | 819.3 |
| 47.5° | 538.9 | 543.4 | 590.5 | 660.8 | 724.7 | 811.5 | 892.3 | 908.3 | 911.5 | 907.9 | 909.2 |
| 50° | 580.0 | 588.7 | 638.9 | 722.0 | 788.7 | 871.8 | 958.1 | 980.0 | 982.8 | 982.8 | 983.7 |
| 52.5° | 617.4 | 625.2 | 673.6 | 766.3 | 840.3 | 926.1 | 1007.0 | 1035.3 | 1038.5 | 1040.8 | 1042.6 |
| 55° | 633.0 | 640.7 | 689.1 | 785.5 | 871.8 | 976.8 | 1063.6 | 1101.5 | 1103.3 | 1109.3 | 1117.0 |
| 57.5° | 633.4 | 639.8 | 687.3 | 785.0 | 888.2 | 1022.5 | 1140.8 | 1199.7 | 1207.0 | 1214.8 | 1228.0 |
| 60° | 590.5 | 598.2 | 645.7 | 762.2 | 901.9 | 1073.6 | 1257.7 | 1365.9 | 1376.4 | 1398.8 | 1428.0 |
| 62.5° | 525.6 | 531.1 | 572.2 | 686.8 | 901.9 | 1144.4 | 1445.8 | 1624.9 | 1660.0 | 1696.5 | 1750.4 |
| 65° | 465.4 | 469.5 | 495.5 | 594.6 | 838.0 | 1202.0 | 1642.7 | 1848.6 | 1886.5 | 1913.9 | 1959.6 |
| 67° | 427.9 | 429.7 | 454.4 | 535.2 | 752.1 | 1155.8 | 1655.9 | 1864.1 | 1896.6 | 1924.9 | 1982.4 |
| 67.5° | 415.1 | 416.5 | 439.8 | 520.2 | 725.7 | 1128.0 | 1635.8 | 1851.4 | 1886.5 | 1915.3 | 1973.8 |
| 70° | 319.2 | 315.1 | 335.2 | 409.2 | 586.4 | 900.1 | 1436.2 | 1684.7 | 1724.9 | 1763.2 | 1834.0 |
| 72.5° | 190.4 | 184.5 | 197.3 | 237.5 | 380.0 | 632.5 | 1089.2 | 1382.4 | 1433.5 | 1481.5 | 1574.2 |
| 75° | 114.6 | 115.1 | 124.7 | 152.5 | 207.3 | 397.8 | 703.7 | 899.7 | 947.6 | 992.8 | 1065.9 |
| 77.5° | 57.1 | 56.6 | 65.3 | 88.6 | 151.2 | 247.1 | 408.7 | 518.8 | 534.8 | 556.2 | 547.6 |
| 80° | 18.3 | 17.8 | 19.2 | 24.2 | 54.3 | 165.8 | 257.1 | 325.6 | 332.9 | 337.0 | 342.0 |
| 82.5° | 2.7 | 3.2 | 3.7 | 5.9 | 10.0 | 39.7 | 159.8 | 226.5 | 236.6 | 248.4 | 271.3 |
| 85° | 0.0 | 0.0 | 0.5 | 0.5 | 1.4 | 3.2 | 15.1 | 38.8 | 40.6 | 49.3 | 58.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.5 | 0.9 | 1.4 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| 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 |



REPORT NUMBER: P160093

CATALOG NUMBER: ENV-E01-LED-E1-BL3-7030-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 |



REPORT NUMBER: P160093

CATALOG NUMBER: ENV-E01-LED-E1-BL3-7030-ULG

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 75° | 85° | 90° | 95° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0° | 265.8 | 265.8 | 265.8 | 265.8 | 265.8 | 265.8 | 265.8 | 265.8 | 265.8 | 265.8 | 265.8 |
| 2.5° | 272.6 | 272.6 | 272.2 | 271.7 | 271.7 | 271.7 | 270.8 | 270.4 | 267.6 | 266.7 | 264.9 |
| 5° | 283.6 | 283.6 | 282.7 | 282.2 | 281.8 | 281.8 | 280.4 | 277.7 | 274.0 | 271.7 | 268.1 |
| 7.5° | 295.5 | 295.0 | 294.1 | 294.1 | 292.3 | 292.3 | 290.4 | 285.4 | 281.8 | 278.6 | 274.0 |
| 10° | 309.2 | 308.7 | 307.3 | 306.9 | 306.0 | 305.1 | 303.2 | 297.3 | 293.6 | 289.5 | 284.1 |
| 12.5° | 324.2 | 323.3 | 322.4 | 322.0 | 321.0 | 320.1 | 318.3 | 312.8 | 309.2 | 305.1 | 298.7 |
| 15° | 337.5 | 337.0 | 336.1 | 335.7 | 335.7 | 334.7 | 333.4 | 328.3 | 324.7 | 320.1 | 315.1 |
| 17.5° | 349.4 | 348.9 | 348.4 | 348.4 | 348.0 | 348.0 | 347.5 | 343.0 | 340.7 | 337.0 | 332.0 |
| 20° | 359.4 | 359.9 | 359.9 | 359.9 | 360.3 | 360.8 | 361.7 | 359.4 | 357.1 | 353.9 | 351.2 |
| 22.5° | 370.4 | 370.8 | 372.2 | 372.2 | 373.1 | 373.6 | 376.8 | 376.3 | 375.4 | 373.1 | 370.8 |
| 25° | 383.6 | 384.5 | 385.4 | 386.8 | 387.3 | 388.6 | 394.1 | 396.4 | 394.6 | 393.2 | 395.5 |
| 27.5° | 401.0 | 402.8 | 403.7 | 405.5 | 406.4 | 408.3 | 416.5 | 421.5 | 420.1 | 420.6 | 425.6 |
| 30° | 427.0 | 428.8 | 431.6 | 432.5 | 435.7 | 436.6 | 446.2 | 453.9 | 453.9 | 453.0 | 462.2 |
| 32.5° | 461.7 | 463.1 | 466.3 | 468.5 | 470.4 | 472.2 | 481.3 | 489.6 | 490.5 | 493.2 | 496.9 |
| 35° | 507.4 | 508.3 | 510.1 | 513.8 | 513.3 | 514.2 | 519.2 | 527.5 | 532.0 | 538.4 | 527.5 |
| 37.5° | 567.6 | 570.8 | 569.9 | 570.4 | 566.7 | 569.0 | 570.8 | 579.5 | 589.1 | 595.5 | 553.0 |
| 40° | 653.5 | 655.8 | 653.5 | 650.3 | 647.6 | 646.2 | 643.5 | 653.0 | 661.3 | 656.7 | 573.1 |
| 42.5° | 737.1 | 738.0 | 736.2 | 730.7 | 728.4 | 723.8 | 716.5 | 728.4 | 733.0 | 711.5 | 583.6 |
| 45° | 819.7 | 818.4 | 815.2 | 814.3 | 809.7 | 805.1 | 801.0 | 808.8 | 806.9 | 764.9 | 588.2 |
| 47.5° | 906.5 | 905.1 | 902.8 | 899.2 | 894.2 | 893.3 | 889.6 | 888.7 | 875.4 | 810.6 | 585.9 |
| 50° | 982.3 | 983.2 | 978.2 | 980.0 | 977.7 | 973.2 | 970.0 | 971.8 | 940.3 | 850.8 | 581.3 |
| 52.5° | 1047.6 | 1047.6 | 1045.3 | 1047.6 | 1046.7 | 1044.4 | 1047.2 | 1076.8 | 1011.5 | 907.4 | 574.5 |
| 55° | 1123.4 | 1126.2 | 1124.3 | 1126.6 | 1128.0 | 1133.0 | 1144.4 | 1213.8 | 1117.9 | 976.8 | 559.0 |
| 57.5° | 1234.4 | 1241.2 | 1239.4 | 1248.5 | 1256.8 | 1270.0 | 1311.6 | 1384.6 | 1249.9 | 1053.1 | 528.4 |
| 60° | 1433.5 | 1455.9 | 1455.0 | 1471.0 | 1487.4 | 1502.5 | 1575.1 | 1589.2 | 1399.3 | 1152.6 | 505.5 |
| 62.5° | 1765.0 | 1783.3 | 1791.1 | 1808.4 | 1818.9 | 1821.7 | 1880.1 | 1776.5 | 1532.6 | 1243.1 | 492.8 |
| 65° | 1979.7 | 1987.0 | 1993.8 | 1991.6 | 1985.2 | 1974.7 | 1978.3 | 1759.1 | 1488.3 | 1185.1 | 422.9 |
| 67° | 2005.3 | 2020.3 | 2025.8 | 2022.2 | 2012.6 | 1998.0 | 1980.1 | 1680.6 | 1394.2 | 1094.7 | 357.6 |
| 67.5° | 1998.0 | 2013.5 | 2018.5 | 2015.3 | 2007.1 | 1996.1 | 1975.1 | 1650.9 | 1362.3 | 1065.4 | 340.7 |
| 70° | 1880.6 | 1903.0 | 1923.5 | 1930.4 | 1930.8 | 1929.0 | 1908.0 | 1441.3 | 1159.5 | 894.6 | 258.5 |
| 72.5° | 1603.4 | 1632.2 | 1675.1 | 1661.4 | 1683.3 | 1669.1 | 1621.2 | 985.0 | 794.6 | 639.3 | 181.3 |
| 75° | 1081.9 | 1094.7 | 1129.4 | 1089.6 | 1093.3 | 1068.2 | 881.8 | 572.2 | 492.8 | 416.0 | 109.1 |
| 77.5° | 544.4 | 552.6 | 547.1 | 523.3 | 514.2 | 493.7 | 381.8 | 124.2 | 124.2 | 148.0 | 57.1 |
| 80° | 345.2 | 348.4 | 352.1 | 357.6 | 364.4 | 365.3 | 264.9 | 36.5 | 32.9 | 34.3 | 31.1 |
| 82.5° | 283.1 | 291.8 | 303.2 | 305.5 | 308.3 | 310.5 | 182.7 | 20.1 | 16.4 | 18.3 | 21.9 |
| 85° | 65.8 | 71.2 | 68.0 | 60.3 | 64.4 | 49.8 | 25.6 | 8.2 | 7.3 | 9.1 | 15.1 |
| 87.5° | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 1.8 | 3.2 | 7.8 |
| 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 |



REPORT NUMBER: P160093

CATALOG NUMBER: ENV-E01-LED-E1-BL3-7030-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: P160093

CATALOG NUMBER: ENV-E01-LED-E1-BL3-7030-ULG

CANDELA DISTRIBUTION (continued):

| | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 265.8 | 265.8 | 265.8 | 265.8 | 265.8 | 265.8 | 265.8 | 265.8 |
| 2.5° | 263.0 | 261.7 | 259.8 | 259.4 | 258.9 | 258.0 | 257.6 | 257.1 |
| 5° | 264.4 | 261.7 | 258.9 | 257.1 | 256.2 | 255.3 | 254.4 | 254.4 |
| 7.5° | 269.9 | 266.7 | 262.6 | 260.8 | 258.9 | 257.6 | 256.7 | 256.7 |
| 10° | 279.0 | 275.4 | 270.4 | 268.1 | 265.8 | 264.4 | 263.5 | 262.6 |
| 12.5° | 292.7 | 288.2 | 282.2 | 278.6 | 276.3 | 275.8 | 274.9 | 274.5 |
| 15° | 309.6 | 304.6 | 298.2 | 294.6 | 290.9 | 290.0 | 289.1 | 288.6 |
| 17.5° | 326.5 | 322.4 | 317.4 | 311.0 | 303.7 | 297.8 | 295.0 | 294.6 |
| 20° | 345.7 | 343.9 | 336.1 | 322.0 | 306.0 | 293.6 | 288.6 | 288.6 |
| 22.5° | 369.9 | 364.9 | 346.2 | 321.0 | 297.3 | 279.9 | 273.1 | 273.1 |
| 25° | 396.4 | 379.5 | 344.8 | 311.0 | 281.8 | 260.3 | 251.2 | 251.2 |
| 27.5° | 419.7 | 383.6 | 336.6 | 294.1 | 258.5 | 235.2 | 224.7 | 224.2 |
| 30° | 438.0 | 381.3 | 322.0 | 270.4 | 231.1 | 204.6 | 192.7 | 192.7 |
| 32.5° | 448.0 | 373.6 | 301.9 | 242.5 | 197.7 | 167.6 | 153.0 | 153.4 |
| 35° | 450.7 | 360.3 | 275.4 | 205.5 | 157.6 | 127.9 | 114.6 | 114.6 |
| 37.5° | 448.0 | 339.3 | 242.5 | 164.9 | 117.8 | 96.8 | 86.8 | 85.9 |
| 40° | 438.9 | 307.8 | 198.7 | 120.6 | 87.7 | 75.4 | 71.2 | 70.3 |
| 42.5° | 420.6 | 269.9 | 149.3 | 86.3 | 70.3 | 65.3 | 64.4 | 63.9 |
| 45° | 391.8 | 218.7 | 103.7 | 67.6 | 63.0 | 61.7 | 61.7 | 61.2 |
| 47.5° | 355.7 | 167.1 | 74.0 | 59.8 | 59.4 | 59.4 | 59.4 | 59.4 |
| 50° | 315.6 | 118.3 | 60.3 | 56.6 | 56.2 | 57.1 | 57.5 | 57.5 |
| 52.5° | 274.0 | 82.7 | 55.3 | 54.3 | 53.4 | 54.8 | 55.3 | 55.3 |
| 55° | 228.8 | 64.8 | 53.0 | 52.1 | 50.7 | 51.1 | 52.1 | 52.1 |
| 57.5° | 182.2 | 57.5 | 52.1 | 50.7 | 48.0 | 48.0 | 48.9 | 48.9 |
| 60° | 144.8 | 55.3 | 51.6 | 48.4 | 44.8 | 44.8 | 45.7 | 46.1 |
| 62.5° | 121.0 | 54.8 | 51.6 | 46.1 | 43.4 | 42.0 | 42.9 | 42.9 |
| 65° | 100.9 | 54.8 | 50.2 | 46.1 | 41.1 | 39.3 | 40.2 | 40.2 |
| 67° | 84.5 | 53.9 | 49.3 | 46.1 | 40.2 | 37.9 | 37.9 | 37.9 |
| 67.5° | 79.9 | 53.4 | 49.8 | 46.1 | 39.7 | 37.4 | 37.0 | 37.0 |
| 70° | 59.8 | 48.4 | 49.8 | 46.6 | 38.8 | 34.3 | 33.3 | 33.3 |
| 72.5° | 46.6 | 44.3 | 48.4 | 48.0 | 37.9 | 31.5 | 29.7 | 29.2 |
| 75° | 37.9 | 40.2 | 48.9 | 46.6 | 35.6 | 28.8 | 26.0 | 25.6 |
| 77.5° | 32.4 | 34.3 | 41.1 | 37.4 | 29.7 | 25.6 | 22.8 | 22.4 |
| 80° | 25.6 | 29.2 | 29.2 | 25.6 | 21.9 | 20.6 | 19.2 | 19.2 |
| 82.5° | 20.6 | 22.4 | 19.2 | 17.4 | 16.4 | 16.0 | 15.1 | 15.1 |
| 85° | 16.9 | 18.3 | 14.2 | 12.8 | 12.3 | 11.9 | 11.0 | 11.0 |
| 87.5° | 13.2 | 11.4 | 7.3 | 6.9 | 6.9 | 6.4 | 6.4 | 6.9 |
| 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: P160093

CATALOG NUMBER: ENV-E01-LED-E1-BL3-7030-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)