

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: P173872

Luminaire Tested: **ENV-FXX-LED-E1-BL4-ULG-BBB**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P173872  
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P20107) AND DOWNLIGHT  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENV-FXX-LED-E1-BL4-ULG-BBB  
Description: ENTRi LED LUMINAIRE WITH UPLIGHT, EMERGENCY MODE  
LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL  
Light Source: (14) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1498.7 lumens  
Efficiency: N/A  
Efficacy: 272.5 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B0 - U3 - G0

Input Watts (W): 5.5  
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



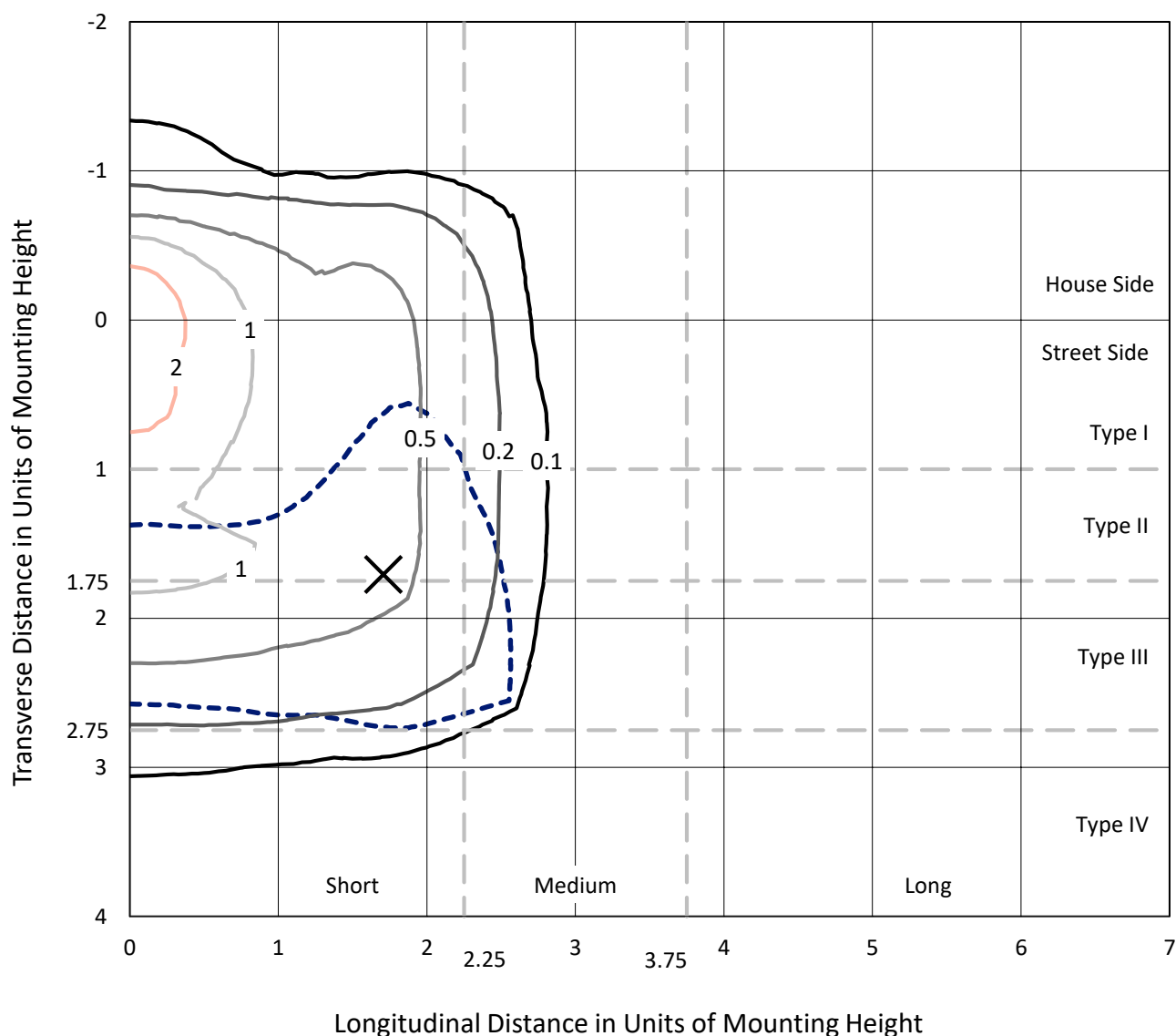
REPORT NUMBER: P173872

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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

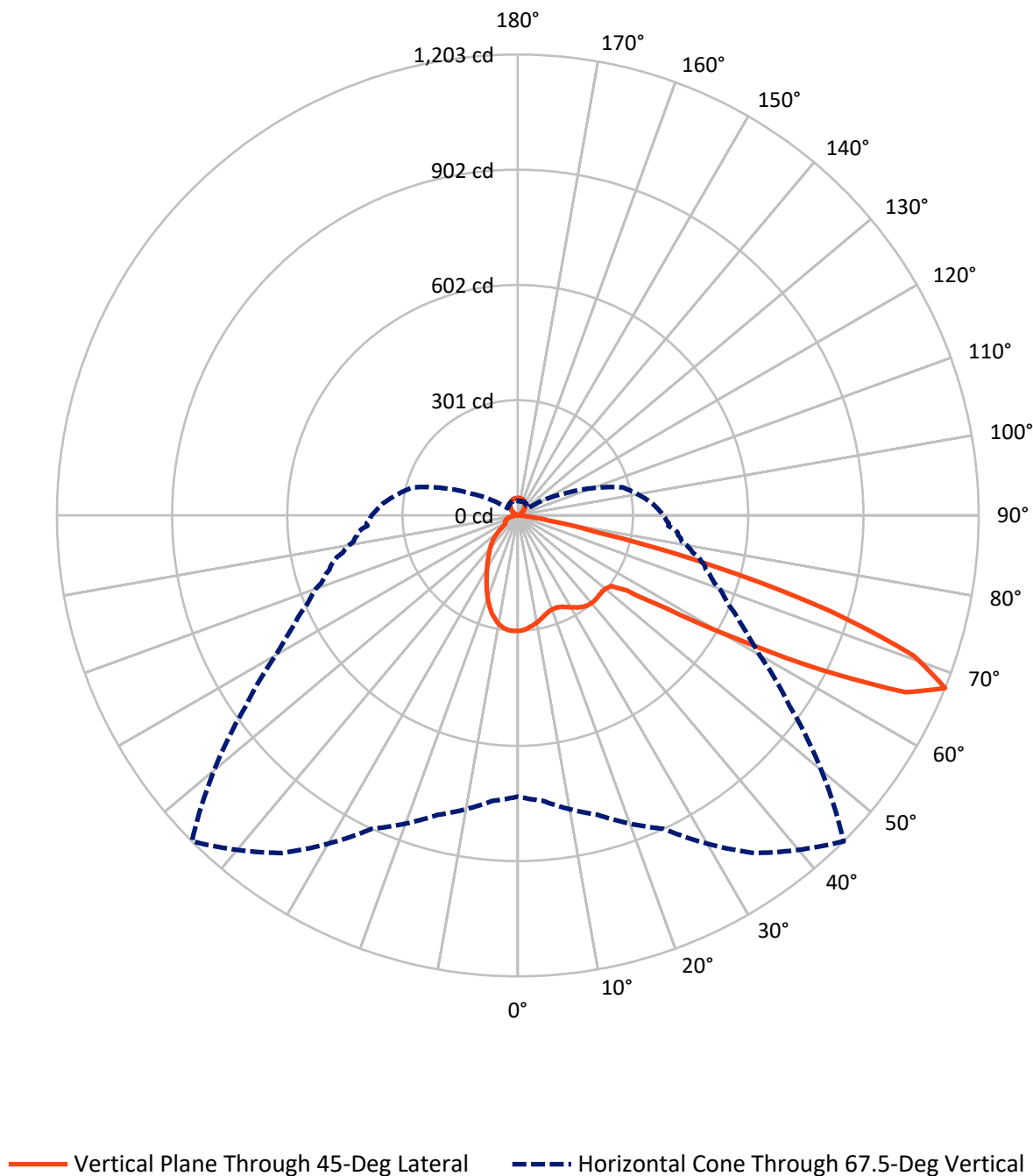


Based on 10 foot mounting height. Maximum calculated value = 3 fc  
 Type III - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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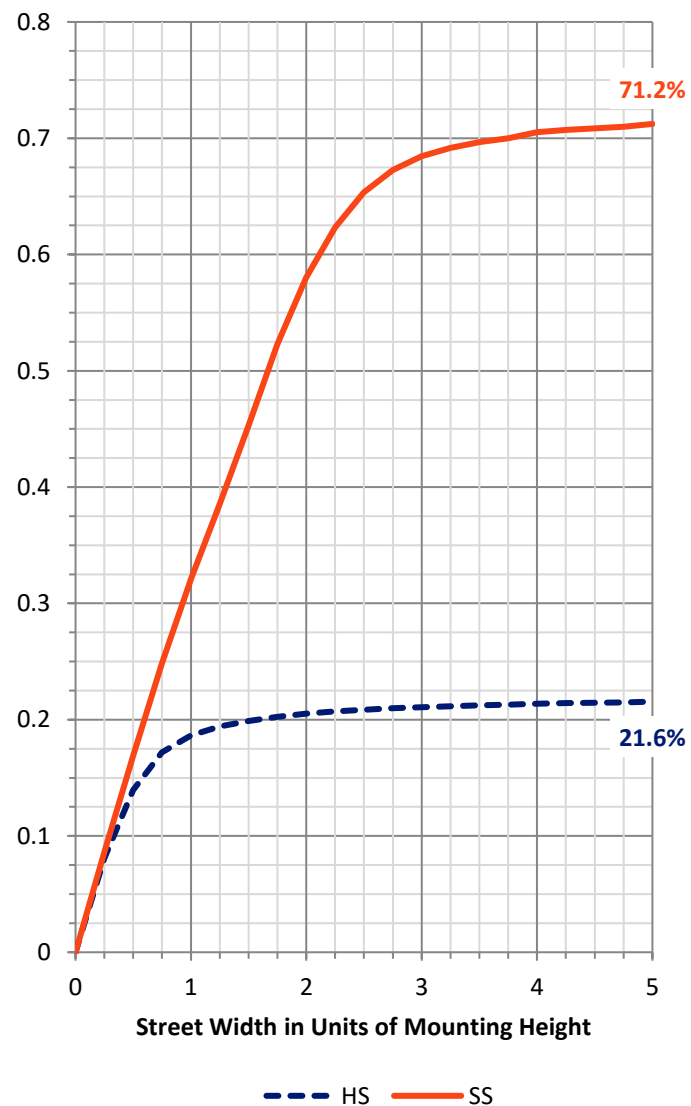
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 327.3    | 51.1   | 378.3  |
|                    | % Fixture | 21.8     | 3.4    | 25.2   |
| <b>Street Side</b> | Lumens    | 1069.3   | 51.1   | 1120.4 |
|                    | % Fixture | 71.3     | 3.4    | 74.8   |
| <b>Total</b>       | Lumens    | 1396.5   | 102.1  | 1498.7 |
|                    | % Fixture | 93.2     | 6.8    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 28.0   | 1.9       |
| 10°-20°   | 75.5   | 5.0       |
| 20°-30°   | 108.8  | 7.3       |
| 30°-40°   | 138.8  | 9.3       |
| 40°-50°   | 163.8  | 10.9      |
| 50°-60°   | 262.7  | 17.5      |
| 60°-70°   | 442.1  | 29.5      |
| 70°-80°   | 164.4  | 11.0      |
| 80°-90°   | 12.5   | 0.8       |
| 90°-100°  | 0.4    | 0.0       |
| 100°-110° | 4.0    | 0.3       |
| 110°-120° | 8.2    | 0.5       |
| 120°-130° | 13.9   | 0.9       |
| 130°-140° | 19.4   | 1.3       |
| 140°-150° | 21.2   | 1.4       |
| 150°-160° | 18.4   | 1.2       |
| 160°-170° | 12.4   | 0.8       |
| 170°-180° | 4.3    | 0.3       |
| 0°-90°    | 1396.5 | 93.2      |
| 0°-180°   | 1498.7 | 100.0     |

**Coefficient of Utilization**



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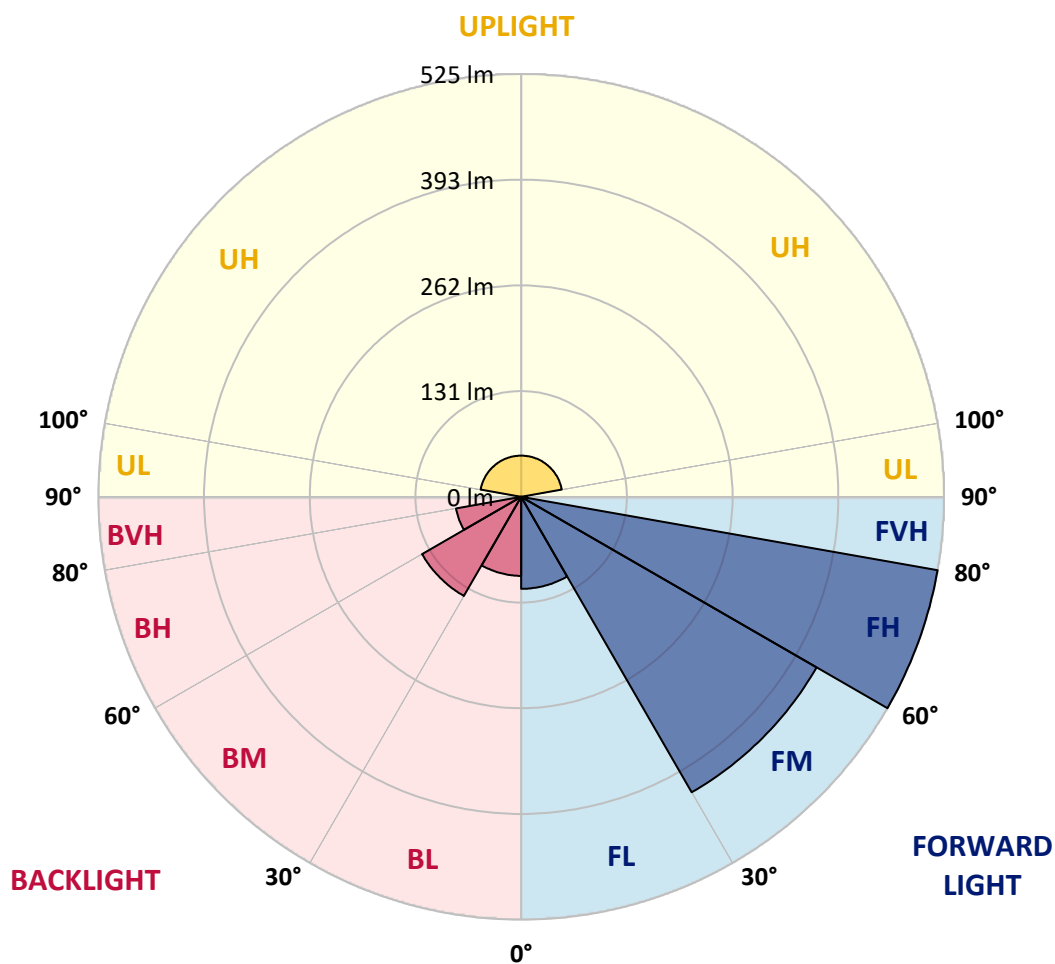
CATALOG NUMBER: ENV-FXX-LED-E1-BL4-ULG-BBB

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |        |        |
|------|-------------|--------|-----------|-------------------------|--------|--------|
|      |             |        |           | B                       | U      | G      |
| FL   | (0°-30°)    | 114.2  | 7.6       |                         |        |        |
| FM   | (30°-60°)   | 423.2  | 28.2      |                         |        |        |
| FH   | (60°-80°)   | 524.5  | 35.0      |                         |        | G0/660 |
| FVH  | (80°-90°)   | 7.4    | 0.5       |                         |        | G0/10  |
| BL   | (0°-30°)    | 98.1   | 6.5       | B0/110                  |        |        |
| BM   | (30°-60°)   | 142.1  | 9.5       | B0/220                  |        |        |
| BH   | (60°-80°)   | 82.0   | 5.5       | B0/110                  |        | G0/110 |
| BVH  | (80°-90°)   | 5.1    | 0.3       |                         |        | G0/10  |
| UL   | (90°-100°)  | 0.4    | 0.0       |                         | U1/10  |        |
| UH   | (100°-180°) | 51.1   | 3.4       |                         | U3/500 |        |

**BUG Rating: B0-U3-G0**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 15°   | 25°   | 35°    | 45°    | 55°   | 60°   | 61°   | 62°   | 64°   |
|--------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|
| 0°     | 301.7 | 301.7 | 301.7 | 301.7 | 301.7  | 301.7  | 301.7 | 301.7 | 301.7 | 301.7 | 301.7 |
| 2.5°   | 297.5 | 297.5 | 298.0 | 298.0 | 298.8  | 299.4  | 298.8 | 299.9 | 299.9 | 299.6 | 300.2 |
| 5°     | 293.2 | 293.2 | 293.5 | 293.5 | 294.0  | 294.8  | 294.3 | 295.3 | 295.1 | 295.3 | 295.3 |
| 7.5°   | 288.1 | 288.1 | 288.7 | 288.4 | 288.7  | 289.2  | 287.9 | 288.7 | 288.7 | 288.9 | 288.7 |
| 10°    | 281.7 | 282.3 | 282.8 | 282.5 | 282.5  | 282.8  | 280.6 | 281.4 | 281.2 | 281.2 | 280.9 |
| 12.5°  | 275.8 | 275.3 | 275.8 | 276.4 | 276.1  | 276.1  | 274.0 | 273.4 | 273.4 | 273.4 | 273.7 |
| 15°    | 269.7 | 270.2 | 271.0 | 270.2 | 269.7  | 268.6  | 266.5 | 265.9 | 265.9 | 265.9 | 266.2 |
| 17.5°  | 268.3 | 268.3 | 268.9 | 268.1 | 265.9  | 263.8  | 259.5 | 258.7 | 258.7 | 258.5 | 258.5 |
| 20°    | 272.1 | 271.8 | 272.6 | 271.0 | 266.2  | 260.6  | 253.9 | 252.6 | 252.6 | 252.6 | 252.3 |
| 22.5°  | 279.8 | 279.8 | 281.2 | 279.3 | 271.5  | 260.9  | 251.0 | 248.8 | 248.6 | 248.3 | 247.8 |
| 25°    | 294.8 | 294.5 | 295.3 | 290.5 | 279.3  | 264.3  | 250.2 | 247.0 | 246.7 | 246.2 | 245.6 |
| 27.5°  | 312.2 | 312.7 | 314.3 | 307.1 | 290.5  | 270.5  | 253.6 | 248.3 | 247.8 | 247.0 | 245.9 |
| 30°    | 329.3 | 330.9 | 333.8 | 326.1 | 303.4  | 278.2  | 259.0 | 252.8 | 251.8 | 250.7 | 248.8 |
| 32.5°  | 350.9 | 350.4 | 355.2 | 343.4 | 314.6  | 286.5  | 264.6 | 257.1 | 255.8 | 254.2 | 251.8 |
| 35°    | 373.9 | 375.0 | 376.0 | 357.1 | 323.9  | 293.2  | 268.1 | 259.5 | 257.9 | 256.3 | 252.8 |
| 37.5°  | 396.9 | 397.2 | 394.8 | 368.0 | 329.6  | 297.2  | 270.0 | 260.0 | 257.9 | 255.5 | 251.5 |
| 40°    | 418.0 | 417.2 | 410.0 | 376.3 | 332.8  | 299.4  | 270.8 | 259.0 | 256.3 | 253.9 | 249.4 |
| 42.5°  | 430.1 | 429.2 | 420.1 | 380.1 | 333.0  | 299.1  | 270.8 | 257.9 | 255.0 | 252.0 | 247.0 |
| 45°    | 435.1 | 434.6 | 424.2 | 380.6 | 331.1  | 297.5  | 269.1 | 256.8 | 253.9 | 251.2 | 245.9 |
| 47.5°  | 435.7 | 435.7 | 425.0 | 379.8 | 329.6  | 296.4  | 269.1 | 258.2 | 255.8 | 253.6 | 249.6 |
| 50°    | 433.3 | 433.5 | 425.2 | 381.9 | 330.9  | 298.8  | 271.8 | 261.4 | 259.0 | 256.8 | 252.3 |
| 52.5°  | 461.6 | 458.9 | 440.5 | 391.6 | 339.7  | 306.6  | 280.9 | 271.5 | 270.8 | 269.4 | 265.9 |
| 55°    | 678.1 | 680.2 | 579.4 | 451.7 | 376.9  | 346.4  | 335.7 | 333.8 | 339.7 | 341.8 | 341.8 |
| 57.5°  | 860.9 | 854.0 | 816.0 | 659.1 | 492.9  | 456.2  | 460.5 | 465.1 | 473.6 | 477.4 | 480.0 |
| 60°    | 905.5 | 906.0 | 905.0 | 860.4 | 727.5  | 644.1  | 623.3 | 603.5 | 602.7 | 595.8 | 590.4 |
| 62.5°  | 900.2 | 904.5 | 924.5 | 934.7 | 947.7  | 886.6  | 759.3 | 704.5 | 693.9 | 680.7 | 662.0 |
| 65°    | 861.4 | 867.8 | 899.9 | 949.4 | 1062.1 | 1112.4 | 851.0 | 752.9 | 736.3 | 720.6 | 689.0 |
| 67.5°  | 733.9 | 747.8 | 809.3 | 902.6 | 1075.8 | 1203.0 | 866.0 | 729.4 | 707.5 | 686.9 | 649.5 |
| 70°    | 453.0 | 460.3 | 555.1 | 728.3 | 974.8  | 1096.9 | 786.3 | 619.0 | 591.2 | 565.0 | 514.0 |
| 72.5°  | 292.4 | 290.0 | 306.0 | 410.3 | 716.3  | 852.3  | 540.7 | 411.6 | 388.9 | 368.0 | 335.2 |
| 75°    | 204.7 | 205.0 | 197.8 | 195.6 | 332.2  | 527.9  | 244.8 | 175.9 | 165.7 | 161.4 | 154.5 |
| 77.5°  | 133.4 | 135.0 | 133.1 | 138.2 | 133.1  | 219.4  | 112.5 | 82.6  | 78.6  | 75.9  | 71.6  |
| 80°    | 80.5  | 85.8  | 87.4  | 88.5  | 89.8   | 82.9   | 66.8  | 48.6  | 43.8  | 39.3  | 32.3  |
| 82.5°  | 14.2  | 13.9  | 19.2  | 25.9  | 33.9   | 38.8   | 28.1  | 17.6  | 16.6  | 16.0  | 14.7  |
| 85°    | 0.0   | 0.0   | 0.3   | 0.3   | 0.6    | 1.9    | 2.9   | 3.5   | 3.2   | 3.5   | 3.8   |
| 87.5°  | 0.0   | 0.0   | 0.0   | 0.3   | 0.3    | 0.6    | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 90°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 92.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 95°    | 0.2   | 0.2   | 0.2   | 0.2   | 0.2    | 0.2    | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   |
| 97.5°  | 0.5   | 0.5   | 0.5   | 0.5   | 0.5    | 0.5    | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| 100°   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6    | 1.6    | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   |
| 102.5° | 2.8   | 2.8   | 2.8   | 2.8   | 2.8    | 2.8    | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   |
| 105°   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8    | 3.8    | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   |
| 107.5° | 4.8   | 4.8   | 4.8   | 4.8   | 4.8    | 4.8    | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   |
| 110°   | 5.8   | 5.8   | 5.8   | 5.8   | 5.8    | 5.8    | 5.8   | 5.8   | 5.8   | 5.8   | 5.8   |

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CATALOG NUMBER: ENV-FXX-LED-E1-BL4-ULG-BBB

**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 60°  | 61°  | 62°  | 64°  |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  |
| 115°   | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  |
| 117.5° | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  |
| 120°   | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 |
| 122.5° | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 |
| 125°   | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 |
| 127.5° | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 |
| 130°   | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 |
| 132.5° | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 |
| 135°   | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 |
| 137.5° | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 |
| 140°   | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 |
| 142.5° | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 |
| 145°   | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 |
| 147.5° | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 |
| 150°   | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 |
| 152.5° | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 |
| 155°   | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| 157.5° | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 |
| 160°   | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 |
| 162.5° | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 |
| 165°   | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 |
| 167.5° | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 |
| 170°   | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 |
| 172.5° | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 |
| 175°   | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 |
| 177.5° | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 |
| 180°   | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 |



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**CANDELA DISTRIBUTION (continued):**

|        | 65°   | 66°   | 67°   | 68°   | 69°   | 70°   | 71°   | 72°   | 73°   | 74°   | 75°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 301.7 | 301.7 | 301.7 | 301.7 | 301.7 | 301.7 | 301.7 | 301.7 | 301.7 | 301.7 | 301.7 |
| 2.5°   | 300.2 | 299.9 | 299.6 | 299.6 | 300.2 | 300.2 | 299.9 | 299.9 | 300.2 | 299.9 | 300.4 |
| 5°     | 295.6 | 295.3 | 295.3 | 295.1 | 295.3 | 295.6 | 295.3 | 295.3 | 295.6 | 295.3 | 295.9 |
| 7.5°   | 288.4 | 288.7 | 288.4 | 288.4 | 288.7 | 288.9 | 288.7 | 288.7 | 288.7 | 288.7 | 288.4 |
| 10°    | 280.9 | 280.9 | 280.6 | 280.6 | 281.2 | 280.9 | 280.6 | 280.6 | 280.9 | 281.2 | 280.6 |
| 12.5°  | 273.4 | 274.0 | 274.0 | 272.9 | 273.2 | 273.4 | 273.4 | 273.2 | 273.2 | 274.0 | 273.2 |
| 15°    | 265.9 | 266.2 | 265.9 | 266.2 | 265.7 | 265.4 | 265.7 | 265.7 | 265.1 | 264.9 | 264.9 |
| 17.5°  | 258.5 | 258.2 | 258.2 | 257.6 | 257.4 | 257.4 | 257.1 | 257.4 | 256.8 | 257.1 | 256.3 |
| 20°    | 251.8 | 251.5 | 251.2 | 251.2 | 250.4 | 250.4 | 250.4 | 250.2 | 249.6 | 249.6 | 249.4 |
| 22.5°  | 247.8 | 247.5 | 247.2 | 246.7 | 246.4 | 246.2 | 246.2 | 245.9 | 245.3 | 245.1 | 244.8 |
| 25°    | 245.6 | 245.3 | 244.8 | 244.3 | 244.0 | 243.8 | 243.8 | 243.5 | 243.0 | 242.4 | 242.1 |
| 27.5°  | 245.9 | 245.3 | 244.8 | 244.3 | 244.0 | 243.5 | 243.2 | 243.0 | 242.4 | 241.9 | 241.3 |
| 30°    | 248.3 | 247.2 | 246.2 | 245.3 | 244.6 | 243.8 | 243.2 | 243.0 | 242.1 | 241.3 | 240.6 |
| 32.5°  | 250.7 | 249.4 | 247.8 | 246.2 | 244.8 | 243.5 | 242.7 | 241.9 | 240.8 | 239.5 | 238.7 |
| 35°    | 251.5 | 249.9 | 247.5 | 246.2 | 244.3 | 242.7 | 241.3 | 240.3 | 238.4 | 236.8 | 235.5 |
| 37.5°  | 249.6 | 247.8 | 245.3 | 243.5 | 241.6 | 239.5 | 237.9 | 236.3 | 234.9 | 233.1 | 231.7 |
| 40°    | 246.7 | 244.6 | 242.1 | 239.5 | 237.6 | 235.5 | 233.9 | 232.5 | 230.6 | 229.1 | 228.0 |
| 42.5°  | 244.3 | 241.9 | 239.2 | 237.1 | 234.9 | 232.8 | 230.9 | 229.6 | 227.7 | 225.9 | 224.5 |
| 45°    | 243.5 | 241.1 | 238.9 | 236.3 | 234.1 | 232.5 | 230.9 | 229.1 | 227.4 | 225.9 | 224.2 |
| 47.5°  | 247.8 | 245.6 | 243.5 | 241.3 | 239.5 | 237.6 | 236.0 | 234.1 | 232.3 | 230.1 | 228.5 |
| 50°    | 250.2 | 247.8 | 245.9 | 243.5 | 241.3 | 239.5 | 237.9 | 236.0 | 234.7 | 232.5 | 230.9 |
| 52.5°  | 267.6 | 264.3 | 264.9 | 262.7 | 262.7 | 260.6 | 262.2 | 259.8 | 261.1 | 259.5 | 261.9 |
| 55°    | 341.1 | 342.1 | 348.8 | 349.9 | 352.5 | 352.3 | 353.9 | 360.8 | 358.1 | 354.7 | 355.7 |
| 57.5°  | 472.8 | 475.2 | 478.7 | 475.5 | 477.9 | 478.4 | 483.0 | 481.1 | 479.5 | 478.4 | 475.0 |
| 60°    | 587.2 | 584.0 | 578.9 | 572.8 | 570.4 | 567.7 | 563.2 | 563.2 | 557.3 | 555.4 | 550.8 |
| 62.5°  | 654.3 | 644.9 | 638.5 | 628.6 | 621.7 | 616.9 | 608.8 | 602.7 | 594.7 | 588.5 | 581.3 |
| 65°    | 676.2 | 660.4 | 649.2 | 636.9 | 626.0 | 615.5 | 604.0 | 595.2 | 585.3 | 578.7 | 567.2 |
| 67.5°  | 633.7 | 617.7 | 598.7 | 585.6 | 574.1 | 561.0 | 543.1 | 532.1 | 523.6 | 510.8 | 505.1 |
| 70°    | 493.4 | 476.5 | 452.7 | 446.3 | 428.7 | 408.4 | 390.2 | 379.3 | 366.7 | 357.9 | 348.5 |
| 72.5°  | 313.0 | 294.0 | 283.6 | 275.8 | 264.3 | 247.5 | 231.7 | 225.3 | 214.4 | 211.9 | 205.8 |
| 75°    | 147.0 | 134.2 | 131.5 | 129.6 | 117.1 | 114.7 | 109.9 | 107.7 | 102.6 | 99.9  | 98.9  |
| 77.5°  | 65.8  | 62.8  | 58.0  | 56.7  | 52.6  | 48.6  | 43.8  | 41.7  | 39.0  | 37.4  | 35.3  |
| 80°    | 29.9  | 27.0  | 25.1  | 23.8  | 23.2  | 21.9  | 20.9  | 20.0  | 19.2  | 19.2  | 17.9  |
| 82.5°  | 14.4  | 13.9  | 13.4  | 13.4  | 12.6  | 12.6  | 11.8  | 11.5  | 11.2  | 10.9  | 10.9  |
| 85°    | 4.0   | 4.0   | 4.0   | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   | 4.5   | 4.5   |
| 87.5°  | 0.6   | 0.6   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   |
| 90°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 92.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 95°    | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   |
| 97.5°  | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| 100°   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   |
| 102.5° | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   |
| 105°   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   |
| 107.5° | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   |
| 110°   | 5.8   | 5.8   | 5.8   | 5.8   | 5.8   | 5.8   | 5.8   | 5.8   | 5.8   | 5.8   | 5.8   |

REPORT NUMBER: P173872

CATALOG NUMBER: ENV-FXX-LED-E1-BL4-ULG-BBB

**CANDELA DISTRIBUTION (continued):**

|        | 65°  | 66°  | 67°  | 68°  | 69°  | 70°  | 71°  | 72°  | 73°  | 74°  | 75°  |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  |
| 115°   | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  |
| 117.5° | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  |
| 120°   | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 |
| 122.5° | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 |
| 125°   | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 |
| 127.5° | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 |
| 130°   | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 |
| 132.5° | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 |
| 135°   | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 |
| 137.5° | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 |
| 140°   | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 |
| 142.5° | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 |
| 145°   | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 |
| 147.5° | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 |
| 150°   | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 |
| 152.5° | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 |
| 155°   | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| 157.5° | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 |
| 160°   | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 |
| 162.5° | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 |
| 165°   | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 |
| 167.5° | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 |
| 170°   | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 |
| 172.5° | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 |
| 175°   | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 |
| 177.5° | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 |
| 180°   | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 |

REPORT NUMBER: P173872

CATALOG NUMBER: ENV-FXX-LED-E1-BL4-ULG-BBB

**CANDELA DISTRIBUTION (continued):**

|        | 76°   | 77°   | 78°   | 79°   | 80°   | 81°   | 82°   | 83°   | 84°   | 85°   | 86°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 301.7 | 301.7 | 301.7 | 301.7 | 301.7 | 301.7 | 301.7 | 301.7 | 301.7 | 301.7 | 301.7 |
| 2.5°   | 300.2 | 300.2 | 300.2 | 300.7 | 300.4 | 301.2 | 301.2 | 301.2 | 301.7 | 302.0 | 301.7 |
| 5°     | 295.9 | 295.9 | 295.9 | 296.1 | 296.1 | 296.7 | 296.7 | 297.2 | 297.2 | 297.5 | 297.5 |
| 7.5°   | 288.9 | 289.2 | 289.2 | 289.7 | 289.4 | 289.7 | 289.7 | 290.5 | 290.5 | 290.8 | 290.8 |
| 10°    | 280.9 | 281.2 | 281.2 | 281.2 | 281.4 | 281.7 | 281.7 | 282.3 | 282.5 | 282.5 | 283.0 |
| 12.5°  | 273.4 | 273.2 | 273.4 | 273.2 | 274.0 | 274.0 | 274.2 | 274.0 | 274.2 | 274.5 | 274.7 |
| 15°    | 265.1 | 265.1 | 264.9 | 265.1 | 265.1 | 264.9 | 264.6 | 264.9 | 265.4 | 265.4 | 265.4 |
| 17.5°  | 256.8 | 256.1 | 256.1 | 256.1 | 255.8 | 255.3 | 255.8 | 255.5 | 255.5 | 255.8 | 255.5 |
| 20°    | 249.1 | 248.8 | 248.6 | 248.3 | 248.0 | 247.2 | 247.2 | 247.2 | 247.0 | 247.0 | 247.0 |
| 22.5°  | 244.3 | 244.0 | 243.8 | 243.5 | 242.4 | 241.9 | 241.6 | 241.3 | 240.8 | 240.6 | 240.3 |
| 25°    | 241.6 | 241.1 | 240.6 | 240.0 | 239.2 | 238.4 | 237.6 | 237.4 | 236.8 | 236.3 | 235.5 |
| 27.5°  | 240.8 | 240.3 | 239.2 | 238.7 | 237.6 | 236.8 | 236.0 | 235.2 | 234.4 | 233.6 | 232.8 |
| 30°    | 239.5 | 238.7 | 237.6 | 236.8 | 236.0 | 234.7 | 233.6 | 232.8 | 231.5 | 230.6 | 229.6 |
| 32.5°  | 237.6 | 236.5 | 235.5 | 234.4 | 233.3 | 232.0 | 230.6 | 229.6 | 228.5 | 227.4 | 226.1 |
| 35°    | 234.4 | 233.1 | 231.5 | 230.4 | 229.1 | 227.7 | 226.6 | 224.8 | 224.0 | 222.7 | 221.3 |
| 37.5°  | 230.1 | 228.8 | 227.4 | 226.1 | 224.5 | 223.4 | 221.8 | 220.2 | 219.4 | 218.6 | 216.8 |
| 40°    | 226.4 | 224.8 | 223.4 | 222.4 | 220.5 | 219.7 | 218.1 | 216.5 | 215.4 | 214.6 | 213.0 |
| 42.5°  | 222.9 | 221.3 | 220.0 | 218.4 | 217.0 | 215.9 | 214.6 | 213.0 | 211.9 | 211.4 | 210.1 |
| 45°    | 222.9 | 221.0 | 219.4 | 218.1 | 216.8 | 215.4 | 214.4 | 212.7 | 211.9 | 210.9 | 210.1 |
| 47.5°  | 226.6 | 224.5 | 222.7 | 220.8 | 218.9 | 217.6 | 215.9 | 214.4 | 213.0 | 212.2 | 211.2 |
| 50°    | 229.3 | 227.2 | 226.1 | 224.0 | 222.9 | 221.0 | 219.2 | 218.4 | 217.0 | 216.2 | 215.9 |
| 52.5°  | 261.9 | 260.6 | 260.9 | 255.5 | 254.4 | 257.1 | 252.8 | 256.6 | 255.5 | 252.3 | 252.3 |
| 55°    | 361.9 | 361.4 | 363.7 | 357.1 | 354.1 | 359.5 | 361.6 | 353.9 | 355.7 | 355.7 | 355.2 |
| 57.5°  | 478.4 | 475.0 | 471.5 | 472.3 | 468.0 | 471.2 | 467.2 | 462.4 | 464.2 | 462.7 | 457.0 |
| 60°    | 547.9 | 545.8 | 540.7 | 535.9 | 531.3 | 527.1 | 523.3 | 519.1 | 516.9 | 513.2 | 509.1 |
| 62.5°  | 576.0 | 570.4 | 564.2 | 557.8 | 550.6 | 543.6 | 539.4 | 533.8 | 527.9 | 524.1 | 519.8 |
| 65°    | 561.0 | 552.7 | 546.0 | 536.7 | 528.9 | 520.4 | 514.8 | 508.3 | 503.0 | 496.6 | 491.2 |
| 67.5°  | 494.2 | 484.6 | 466.9 | 458.4 | 446.9 | 433.5 | 429.8 | 422.0 | 419.1 | 409.5 | 393.7 |
| 70°    | 336.5 | 326.9 | 316.2 | 298.8 | 287.6 | 276.1 | 263.5 | 254.4 | 253.1 | 245.3 | 233.9 |
| 72.5°  | 197.8 | 191.1 | 184.2 | 174.2 | 166.0 | 161.4 | 152.6 | 143.5 | 143.3 | 134.4 | 129.9 |
| 75°    | 93.5  | 90.1  | 83.1  | 80.7  | 73.2  | 72.7  | 67.1  | 66.0  | 67.1  | 64.4  | 63.9  |
| 77.5°  | 31.8  | 31.0  | 29.4  | 27.3  | 25.7  | 25.1  | 23.8  | 23.0  | 22.4  | 21.9  | 21.4  |
| 80°    | 17.4  | 16.8  | 16.6  | 15.8  | 15.2  | 15.0  | 14.2  | 13.9  | 13.6  | 13.4  | 13.1  |
| 82.5°  | 10.4  | 10.7  | 10.2  | 9.6   | 9.6   | 9.1   | 8.8   | 8.5   | 8.3   | 8.3   | 8.3   |
| 85°    | 4.3   | 4.5   | 4.3   | 4.0   | 3.8   | 4.0   | 4.0   | 3.8   | 3.5   | 3.8   | 3.8   |
| 87.5°  | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   |
| 90°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 92.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 95°    | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   |
| 97.5°  | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| 100°   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   |
| 102.5° | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   |
| 105°   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   |
| 107.5° | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   |
| 110°   | 5.8   | 5.8   | 5.8   | 5.8   | 5.8   | 5.8   | 5.8   | 5.8   | 5.8   | 5.8   | 5.8   |

REPORT NUMBER: P173872

REPORT N

CATALOG NUMBER: ENV-FXX-LED-E1-BL4-ULG-BBB

CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

|        | 76°  | 77°  | 78°  | 79°  | 80°  | 81°  | 82°  | 83°  | 84°  | 85°  | 86°  |        |
|--------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 112.5° | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 0°     |
| 115°   | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 2.5°   |
| 117.5° | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 5°     |
| 120°   | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 7.5°   |
| 122.5° | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 10°    |
| 125°   | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 12.5°  |
| 127.5° | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 15°    |
| 130°   | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 17.5°  |
| 132.5° | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 20°    |
| 135°   | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 22.5°  |
| 137.5° | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 25°    |
| 140°   | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 27.5°  |
| 142.5° | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 30°    |
| 145°   | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 32.5°  |
| 147.5° | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35°    |
| 150°   | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.5°  |
| 152.5° | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 40°    |
| 155°   | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 42.5°  |
| 157.5° | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 45°    |
| 160°   | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 47.5°  |
| 162.5° | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 50°    |
| 165°   | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 52.5°  |
| 167.5° | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 55°    |
| 170°   | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 57.5°  |
| 172.5° | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 60°    |
| 175°   | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 62.5°  |
| 177.5° | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 65°    |
| 180°   | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 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: P173872

NUMBER: ENV-FXX-LED-E1-BL4-ULG-BBB

REPORT NUMBER: P

CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

| 87°   | 88°   | 89°   | 90°   | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 112.5° | 87°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|------|
| 301.7 | 301.7 | 301.7 | 301.7 | 301.7 | 301.7 | 301.7 | 301.7 | 301.7 | 301.7 | 301.7 | 112.5° | 6.9  |
| 301.2 | 300.9 | 300.9 | 300.7 | 300.4 | 300.9 | 301.5 | 302.3 | 301.7 | 302.3 | 302.6 | 115°   | 8.1  |
| 297.0 | 297.0 | 297.0 | 297.2 | 297.0 | 297.7 | 298.8 | 300.4 | 300.7 | 301.7 | 302.6 | 117.5° | 9.6  |
| 290.0 | 290.0 | 290.3 | 290.5 | 290.3 | 291.3 | 293.2 | 295.1 | 296.4 | 298.3 | 299.9 | 120°   | 11.3 |
| 282.0 | 282.0 | 282.0 | 282.0 | 282.3 | 283.6 | 284.9 | 287.0 | 289.2 | 292.1 | 294.5 | 122.5° | 13.2 |
| 274.7 | 274.0 | 274.2 | 274.7 | 274.2 | 274.2 | 275.6 | 277.2 | 278.5 | 282.3 | 286.5 | 125°   | 15.5 |
| 265.1 | 265.1 | 264.6 | 264.9 | 263.5 | 263.3 | 263.8 | 264.9 | 265.9 | 269.1 | 273.7 | 127.5° | 17.9 |
| 255.0 | 255.0 | 255.0 | 254.2 | 253.1 | 250.4 | 250.2 | 250.2 | 250.2 | 252.6 | 257.9 | 130°   | 20.4 |
| 245.9 | 245.9 | 245.3 | 244.8 | 242.4 | 237.9 | 234.1 | 232.5 | 232.0 | 236.0 | 238.4 | 132.5° | 22.8 |
| 239.5 | 239.2 | 238.1 | 237.6 | 233.9 | 226.6 | 220.8 | 216.2 | 214.9 | 216.2 | 217.0 | 135°   | 25.2 |
| 234.4 | 233.9 | 232.8 | 231.7 | 226.6 | 216.8 | 207.4 | 199.7 | 195.9 | 194.8 | 192.2 | 137.5° | 27.6 |
| 231.5 | 230.6 | 229.1 | 228.0 | 221.3 | 208.7 | 196.5 | 186.3 | 179.3 | 174.2 | 169.5 | 140°   | 29.9 |
| 228.3 | 226.9 | 225.3 | 223.7 | 216.2 | 202.3 | 188.2 | 175.6 | 163.3 | 154.5 | 147.5 | 142.5° | 32.1 |
| 224.5 | 223.2 | 221.6 | 220.0 | 211.7 | 196.5 | 181.5 | 166.0 | 148.9 | 136.9 | 126.4 | 145°   | 34.0 |
| 220.0 | 218.6 | 217.0 | 215.1 | 206.9 | 191.6 | 176.9 | 156.6 | 136.0 | 120.5 | 106.9 | 147.5° | 35.6 |
| 215.4 | 214.1 | 212.5 | 210.6 | 202.3 | 189.2 | 174.2 | 147.8 | 124.3 | 105.3 | 87.4  | 150°   | 37.3 |
| 211.9 | 210.6 | 209.0 | 207.4 | 199.9 | 188.2 | 172.9 | 140.3 | 113.9 | 90.3  | 69.8  | 152.5° | 38.8 |
| 209.0 | 207.7 | 206.3 | 204.7 | 198.3 | 188.7 | 170.0 | 133.9 | 103.7 | 75.4  | 54.8  | 155°   | 40.0 |
| 208.7 | 208.0 | 206.3 | 205.0 | 198.9 | 191.1 | 167.6 | 128.3 | 93.3  | 60.9  | 46.2  | 157.5° | 41.1 |
| 210.6 | 209.5 | 208.5 | 207.4 | 202.6 | 197.2 | 166.0 | 122.4 | 81.5  | 49.2  | 44.1  | 160°   | 42.2 |
| 215.1 | 214.1 | 213.6 | 213.0 | 210.1 | 205.5 | 166.0 | 116.3 | 67.9  | 43.3  | 43.8  | 162.5° | 43.2 |
| 251.8 | 248.8 | 248.0 | 250.2 | 242.1 | 219.4 | 167.1 | 108.8 | 53.2  | 41.4  | 44.1  | 165°   | 44.0 |
| 354.1 | 357.1 | 349.6 | 345.8 | 332.0 | 253.9 | 167.8 | 97.5  | 43.3  | 41.2  | 43.6  | 167.5° | 44.4 |
| 457.6 | 457.6 | 454.9 | 449.0 | 431.9 | 312.7 | 171.6 | 79.6  | 39.6  | 40.6  | 43.0  | 170°   | 44.5 |
| 508.1 | 504.9 | 502.2 | 498.7 | 472.8 | 353.6 | 177.2 | 58.8  | 37.9  | 40.4  | 42.5  | 172.5° | 44.9 |
| 517.2 | 512.1 | 508.6 | 504.1 | 469.6 | 355.7 | 179.6 | 44.1  | 36.4  | 40.4  | 41.2  | 175°   | 45.5 |
| 487.2 | 481.9 | 477.4 | 469.9 | 427.9 | 322.1 | 167.6 | 36.1  | 35.3  | 39.3  | 39.8  | 177.5° | 45.7 |
| 394.8 | 388.4 | 384.9 | 381.1 | 353.3 | 282.8 | 135.5 | 32.3  | 33.9  | 37.4  | 38.5  | 180°   | 45.6 |
| 225.9 | 218.9 | 214.9 | 215.7 | 198.9 | 223.7 | 108.2 | 29.7  | 32.1  | 35.3  | 36.9  |        |      |
| 121.6 | 114.1 | 111.7 | 104.0 | 88.7  | 112.8 | 83.4  | 27.3  | 29.7  | 32.1  | 33.7  |        |      |
| 60.1  | 57.5  | 58.3  | 54.5  | 46.2  | 34.7  | 53.7  | 24.3  | 26.5  | 28.9  | 29.9  |        |      |
| 20.9  | 20.3  | 20.0  | 19.8  | 19.2  | 18.5  | 24.6  | 20.9  | 22.7  | 24.6  | 25.7  |        |      |
| 12.8  | 12.6  | 12.8  | 12.6  | 12.3  | 14.2  | 15.8  | 16.6  | 18.2  | 20.6  | 20.9  |        |      |
| 7.7   | 7.7   | 7.7   | 7.7   | 7.7   | 9.9   | 11.2  | 12.8  | 14.2  | 15.8  | 17.1  |        |      |
| 3.8   | 3.8   | 3.8   | 3.8   | 4.0   | 6.7   | 7.5   | 9.4   | 9.9   | 11.2  | 12.3  |        |      |
| 0.8   | 0.8   | 0.8   | 0.8   | 1.1   | 3.5   | 4.5   | 5.6   | 5.9   | 5.9   | 6.7   |        |      |
| 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |        |      |
| 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |        |      |
| 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   |        |      |
| 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |        |      |
| 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   |        |      |
| 2.8   | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   |        |      |
| 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   |        |      |
| 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   |        |      |
| 5.8   | 5.8   | 5.8   | 5.8   | 5.8   | 5.8   | 5.8   | 5.8   | 5.8   | 5.8   | 5.8   |        |      |

'173872  
ENV-FXX-LED-E1-BL4-ULG-BBB

REPORT NUMBER: P173872  
CATALOG NUMBER: ENV-FXX-I

**TION (continued):**

**CANDELA DISTRIBUTION (con**

| 88°  | 89°  | 90°  | 95°  | 105° | 115° | 125° | 135° | 145° | 155° |        | 165°  | 175°  |
|------|------|------|------|------|------|------|------|------|------|--------|-------|-------|
| 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 0°     | 301.7 | 301.7 |
| 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 2.5°   | 302.3 | 301.7 |
| 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 5°     | 303.1 | 302.6 |
| 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 7.5°   | 300.9 | 301.2 |
| 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 10°    | 296.4 | 297.2 |
| 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 12.5°  | 289.2 | 290.8 |
| 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 15°    | 277.2 | 279.6 |
| 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 17.5°  | 261.1 | 264.1 |
| 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 20°    | 241.1 | 242.4 |
| 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 22.5°  | 216.5 | 217.0 |
| 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 25°    | 190.6 | 190.6 |
| 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 27.5°  | 166.5 | 165.2 |
| 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 30°    | 143.5 | 140.1 |
| 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 32.5°  | 119.2 | 113.3 |
| 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35°    | 94.6  | 89.8  |
| 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.5°  | 73.5  | 68.2  |
| 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 40°    | 56.4  | 52.4  |
| 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 42.5°  | 47.6  | 46.8  |
| 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 45°    | 45.4  | 46.5  |
| 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 47.5°  | 45.7  | 47.0  |
| 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 50°    | 46.0  | 47.3  |
| 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 52.5°  | 46.0  | 46.8  |
| 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 55°    | 45.4  | 45.4  |
| 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 57.5°  | 44.4  | 44.1  |
| 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 60°    | 43.6  | 43.6  |
| 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 62.5°  | 42.2  | 42.2  |
| 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 65°    | 40.1  | 40.4  |
| 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 67.5°  | 37.9  | 37.9  |
|      |      |      |      |      |      |      |      |      |      | 70°    | 35.3  | 35.3  |
|      |      |      |      |      |      |      |      |      |      | 72.5°  | 32.6  | 33.7  |
|      |      |      |      |      |      |      |      |      |      | 75°    | 30.7  | 32.6  |
|      |      |      |      |      |      |      |      |      |      | 77.5°  | 27.0  | 28.9  |
|      |      |      |      |      |      |      |      |      |      | 80°    | 22.2  | 22.4  |
|      |      |      |      |      |      |      |      |      |      | 82.5°  | 17.6  | 17.1  |
|      |      |      |      |      |      |      |      |      |      | 85°    | 12.6  | 11.8  |
|      |      |      |      |      |      |      |      |      |      | 87.5°  | 6.7   | 6.4   |
|      |      |      |      |      |      |      |      |      |      | 90°    | 0.0   | 0.0   |
|      |      |      |      |      |      |      |      |      |      | 92.5°  | 0.0   | 0.0   |
|      |      |      |      |      |      |      |      |      |      | 95°    | 0.2   | 0.2   |
|      |      |      |      |      |      |      |      |      |      | 97.5°  | 0.5   | 0.5   |
|      |      |      |      |      |      |      |      |      |      | 100°   | 1.6   | 1.6   |
|      |      |      |      |      |      |      |      |      |      | 102.5° | 2.8   | 2.8   |
|      |      |      |      |      |      |      |      |      |      | 105°   | 3.8   | 3.8   |
|      |      |      |      |      |      |      |      |      |      | 107.5° | 4.8   | 4.8   |
|      |      |      |      |      |      |      |      |      |      | 110°   | 5.8   | 5.8   |



LED-E1-BL4-ULG-BBB

REPORT NUMBER: P173872

CATALOG NUMBER: ENV-FXX-LED-E1-BL4

**Continued):**

| 180°  |
|-------|
| 301.7 |
| 301.5 |
| 302.3 |
| 300.9 |
| 297.5 |
| 291.9 |
| 279.0 |
| 264.1 |
| 241.6 |
| 216.2 |
| 189.5 |
| 164.4 |
| 139.0 |
| 113.3 |
| 88.5  |
| 66.6  |
| 52.1  |
| 47.0  |
| 46.5  |
| 47.3  |
| 47.6  |
| 46.8  |
| 45.4  |
| 44.6  |
| 43.6  |
| 42.2  |
| 40.4  |
| 37.9  |
| 35.8  |
| 34.2  |
| 33.4  |
| 29.9  |
| 22.4  |
| 16.3  |
| 11.8  |
| 6.7   |
| 0.0   |
| 0.0   |
| 0.2   |
| 0.5   |
| 1.6   |
| 2.8   |
| 3.8   |
| 4.8   |
| 5.8   |

**CANDELA DISTRIBUTION (continued):**

|        | 165° | 175° | 180° |
|--------|------|------|------|
| 112.5° | 6.9  | 6.9  | 6.9  |
| 115°   | 8.1  | 8.1  | 8.1  |
| 117.5° | 9.6  | 9.6  | 9.6  |
| 120°   | 11.3 | 11.3 | 11.3 |
| 122.5° | 13.2 | 13.2 | 13.2 |
| 125°   | 15.5 | 15.5 | 15.5 |
| 127.5° | 17.9 | 17.9 | 17.9 |
| 130°   | 20.4 | 20.4 | 20.4 |
| 132.5° | 22.8 | 22.8 | 22.8 |
| 135°   | 25.2 | 25.2 | 25.2 |
| 137.5° | 27.6 | 27.6 | 27.6 |
| 140°   | 29.9 | 29.9 | 29.9 |
| 142.5° | 32.1 | 32.1 | 32.1 |
| 145°   | 34.0 | 34.0 | 34.0 |
| 147.5° | 35.6 | 35.6 | 35.6 |
| 150°   | 37.3 | 37.3 | 37.3 |
| 152.5° | 38.8 | 38.8 | 38.8 |
| 155°   | 40.0 | 40.0 | 40.0 |
| 157.5° | 41.1 | 41.1 | 41.1 |
| 160°   | 42.2 | 42.2 | 42.2 |
| 162.5° | 43.2 | 43.2 | 43.2 |
| 165°   | 44.0 | 44.0 | 44.0 |
| 167.5° | 44.4 | 44.4 | 44.4 |
| 170°   | 44.5 | 44.5 | 44.5 |
| 172.5° | 44.9 | 44.9 | 44.9 |
| 175°   | 45.5 | 45.5 | 45.5 |
| 177.5° | 45.7 | 45.7 | 45.7 |
| 180°   | 45.6 | 45.6 | 45.6 |

(END OF F

