

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: P173852

Luminaire Tested: **ENV-FXX-LED-E1-BL3-ULG-BBB**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P173852  
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-BL3-ULG-BBB  
Description: ENTRI LED LUMINAIRE WITH UPLIGHT, EMERGENCY MODE  
LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL  
Light Source: (14) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1546.7 lumens  
Efficiency: N/A  
Efficacy: 281.2 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 - G1

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



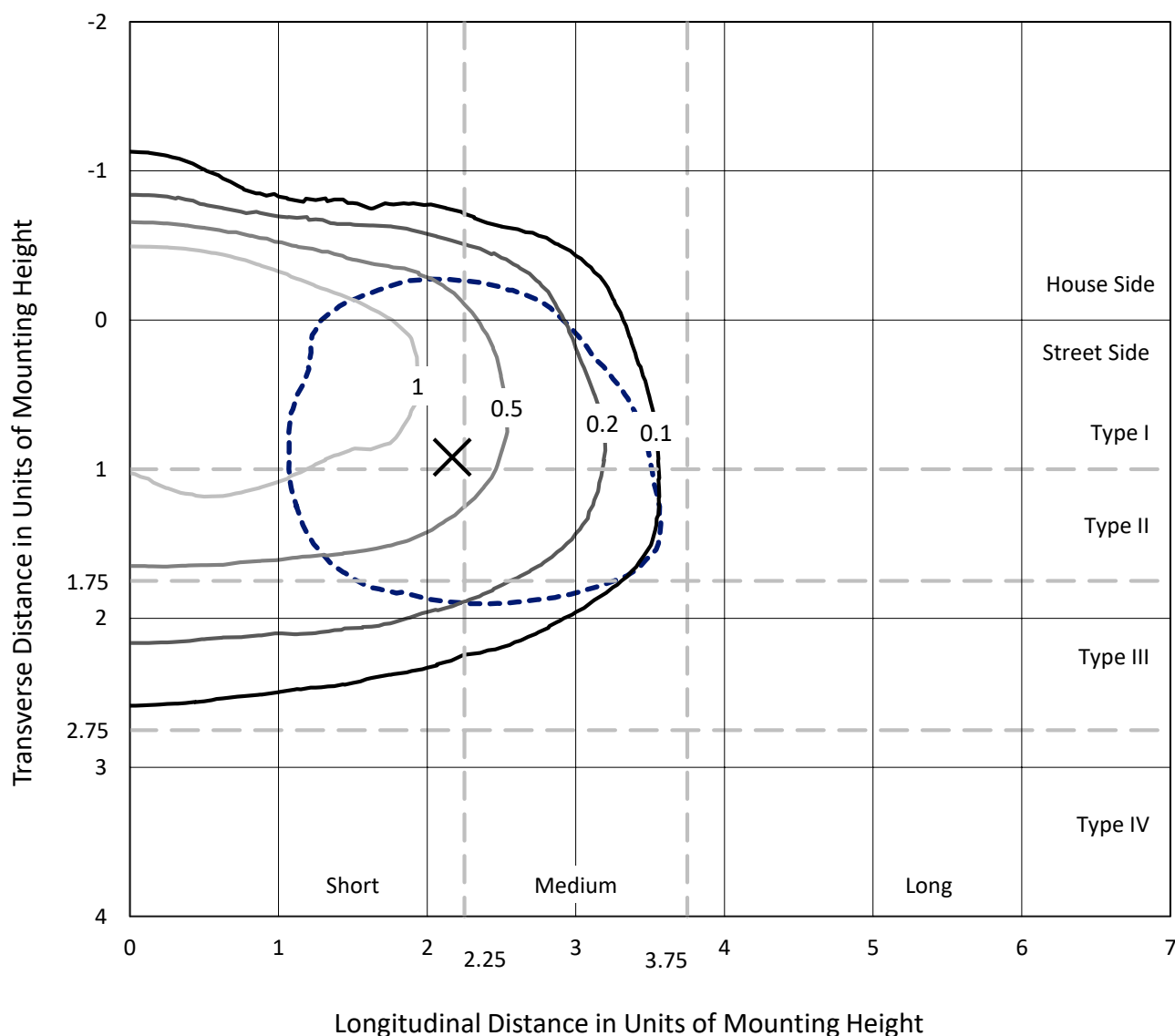
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

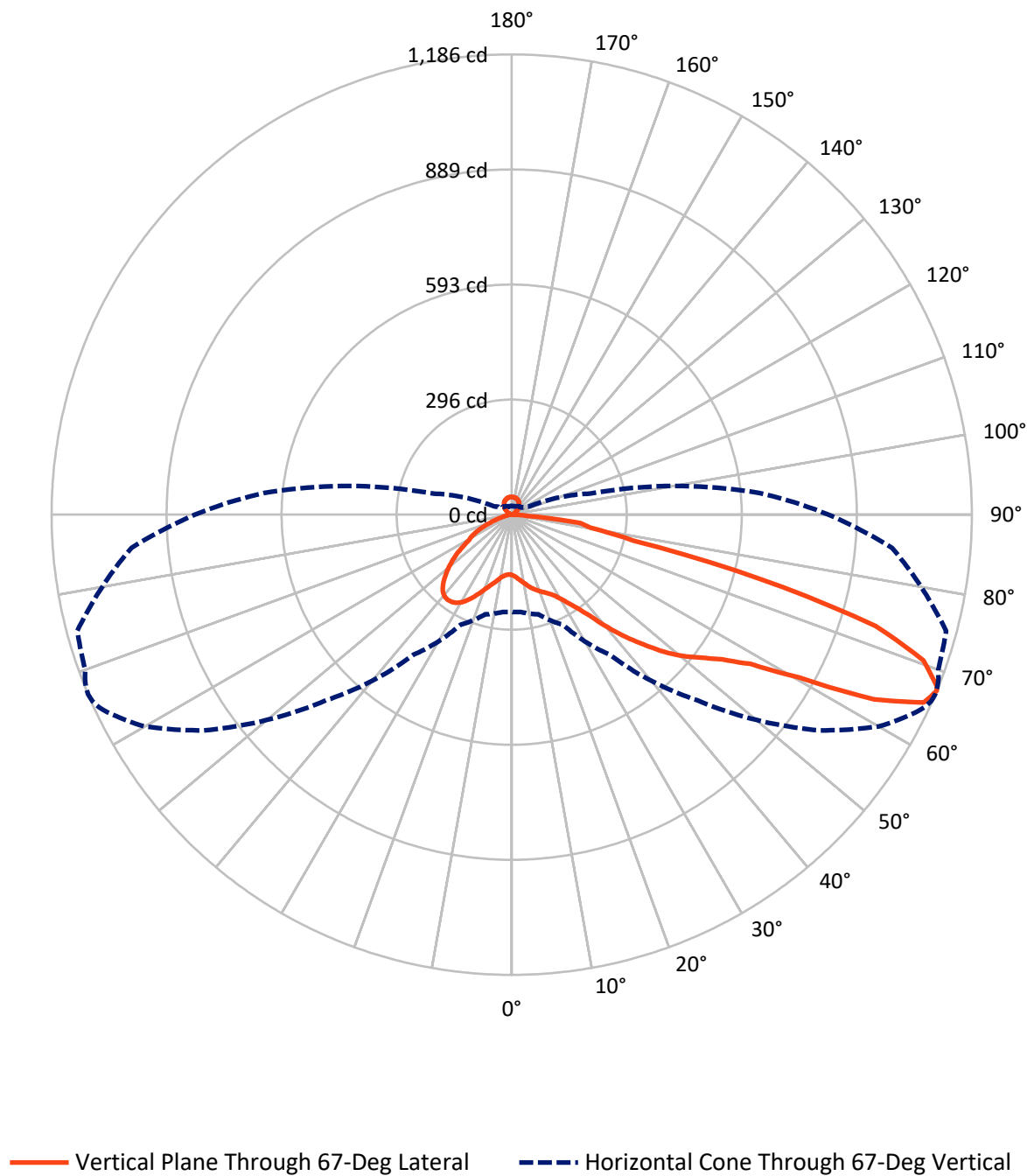


Based on 10 foot mounting height. Maximum calculated value = 2 fc  
 Type III - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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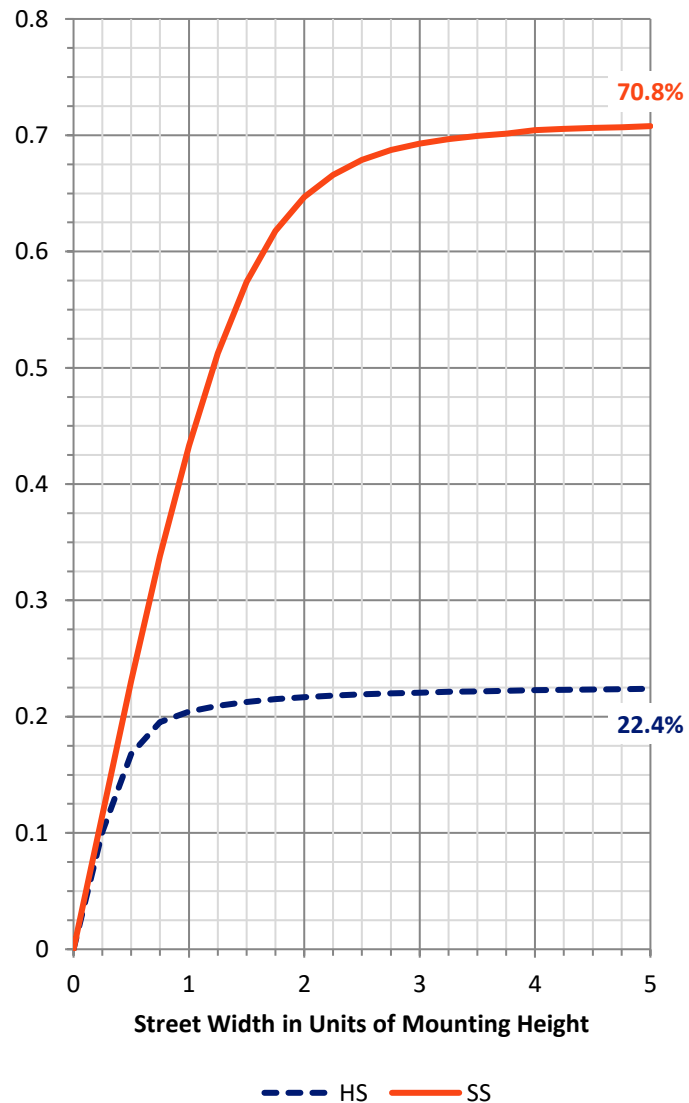
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 350.7    | 51.1   | 401.8  |
|                    | % Fixture | 22.7     | 3.3    | 26.0   |
| <b>Street Side</b> | Lumens    | 1093.8   | 51.1   | 1144.9 |
|                    | % Fixture | 70.7     | 3.3    | 74.0   |
| <b>Total</b>       | Lumens    | 1444.6   | 102.1  | 1546.7 |
|                    | % Fixture | 93.4     | 6.6    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 15.7   | 1.0       |
| 10°-20°   | 54.2   | 3.5       |
| 20°-30°   | 98.3   | 6.4       |
| 30°-40°   | 143.7  | 9.3       |
| 40°-50°   | 217.7  | 14.1      |
| 50°-60°   | 312.2  | 20.2      |
| 60°-70°   | 399.0  | 25.8      |
| 70°-80°   | 186.3  | 12.0      |
| 80°-90°   | 17.4   | 1.1       |
| 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°    | 1444.6 | 93.4      |
| 0°-180°   | 1546.7 | 100.0     |

**Coefficient of Utilization**



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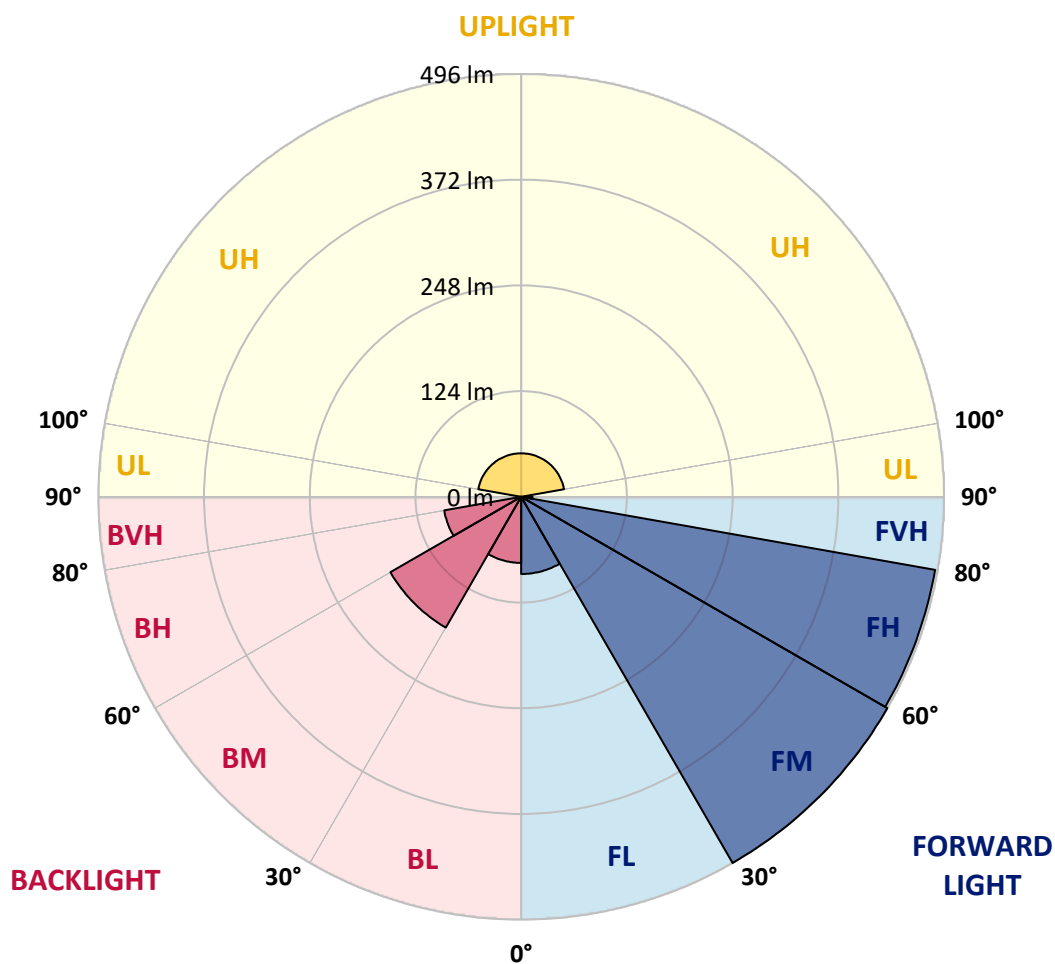
CATALOG NUMBER: ENV-FXX-LED-E1-BL3-ULG-BBB

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |        |        |
|------|-------------|--------|-----------|-------------------------|--------|--------|
|      |             |        |           | B                       | U      | G      |
| FL   | (0°-30°)    | 90.6   | 5.9       |                         |        |        |
| FM   | (30°-60°)   | 496.5  | 32.1      |                         |        |        |
| FH   | (60°-80°)   | 493.5  | 31.9      |                         |        | G0/660 |
| FVH  | (80°-90°)   | 13.2   | 0.9       |                         |        | G1/100 |
| BL   | (0°-30°)    | 77.6   | 5.0       | B0/110                  |        |        |
| BM   | (30°-60°)   | 177.2  | 11.5      | B0/220                  |        |        |
| BH   | (60°-80°)   | 91.8   | 5.9       | B0/110                  |        | G0/110 |
| BVH  | (80°-90°)   | 4.2    | 0.3       |                         |        | G0/10  |
| UL   | (90°-100°)  | 0.4    | 0.0       |                         | U1/10  |        |
| UH   | (100°-180°) | 51.1   | 3.3       |                         | U3/500 |        |

**BUG Rating: B0-U3-G1**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 60°    | 61°    | 62°    | 64°    |
|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 0°     | 155.6 | 155.6 | 155.6 | 155.6 | 155.6 | 155.6 | 155.6 | 155.6  | 155.6  | 155.6  | 155.6  |
| 2.5°   | 161.7 | 161.7 | 162.0 | 162.0 | 161.7 | 161.7 | 160.1 | 160.1  | 160.1  | 159.8  | 159.8  |
| 5°     | 170.5 | 170.8 | 170.8 | 170.5 | 170.0 | 168.9 | 166.8 | 166.8  | 166.8  | 166.5  | 166.0  |
| 7.5°   | 180.7 | 180.4 | 180.7 | 179.9 | 178.8 | 177.5 | 174.5 | 174.2  | 173.7  | 173.7  | 173.2  |
| 10°    | 191.9 | 191.1 | 191.9 | 190.8 | 188.7 | 186.3 | 182.8 | 181.8  | 181.8  | 181.8  | 180.7  |
| 12.5°  | 203.4 | 203.1 | 203.6 | 201.8 | 198.0 | 195.4 | 191.9 | 190.6  | 190.3  | 190.3  | 189.8  |
| 15°    | 215.9 | 215.7 | 214.1 | 211.2 | 206.3 | 203.9 | 199.9 | 198.3  | 198.0  | 198.0  | 197.2  |
| 17.5°  | 229.1 | 229.1 | 225.0 | 218.9 | 212.2 | 208.7 | 205.8 | 204.7  | 204.5  | 204.5  | 204.2  |
| 20°    | 240.3 | 240.3 | 234.9 | 224.8 | 215.1 | 211.4 | 210.3 | 210.3  | 210.3  | 210.3  | 210.6  |
| 22.5°  | 248.6 | 247.8 | 240.6 | 228.0 | 216.2 | 213.0 | 215.7 | 215.9  | 215.9  | 216.5  | 216.8  |
| 25°    | 252.3 | 252.0 | 243.5 | 228.5 | 215.9 | 215.4 | 221.3 | 222.1  | 222.7  | 223.2  | 224.0  |
| 27.5°  | 252.6 | 252.6 | 244.0 | 228.3 | 215.7 | 219.7 | 228.3 | 230.6  | 231.2  | 232.3  | 233.6  |
| 30°    | 249.9 | 250.2 | 243.0 | 228.0 | 217.6 | 227.7 | 239.2 | 243.8  | 244.8  | 246.4  | 248.6  |
| 32.5°  | 246.7 | 247.2 | 243.0 | 230.6 | 225.9 | 241.6 | 256.8 | 263.3  | 264.3  | 266.5  | 268.6  |
| 35°    | 247.2 | 248.0 | 248.8 | 241.3 | 244.3 | 265.4 | 287.3 | 291.1  | 290.8  | 294.3  | 295.3  |
| 37.5°  | 250.7 | 252.6 | 258.5 | 259.8 | 271.0 | 300.4 | 323.4 | 331.4  | 331.4  | 334.6  | 333.6  |
| 40°    | 251.2 | 254.2 | 268.9 | 284.4 | 306.6 | 342.6 | 374.2 | 383.5  | 383.5  | 384.9  | 384.3  |
| 42.5°  | 263.8 | 266.5 | 287.6 | 315.1 | 346.7 | 389.2 | 423.9 | 432.2  | 434.1  | 432.7  | 433.8  |
| 45°    | 286.5 | 288.4 | 314.3 | 349.0 | 385.4 | 433.8 | 472.5 | 480.6  | 482.4  | 481.1  | 479.5  |
| 47.5°  | 315.4 | 318.1 | 345.6 | 386.7 | 424.2 | 475.0 | 522.3 | 531.6  | 533.5  | 531.3  | 532.1  |
| 50°    | 339.4 | 344.5 | 373.9 | 422.6 | 461.6 | 510.2 | 560.8 | 573.6  | 575.2  | 575.2  | 575.7  |
| 52.5°  | 361.4 | 365.9 | 394.2 | 448.5 | 491.8 | 542.0 | 589.3 | 605.9  | 607.8  | 609.1  | 610.2  |
| 55°    | 370.4 | 375.0 | 403.3 | 459.7 | 510.2 | 571.7 | 622.5 | 644.7  | 645.7  | 649.2  | 653.7  |
| 57.5°  | 370.7 | 374.5 | 402.2 | 459.5 | 519.8 | 598.4 | 667.7 | 702.1  | 706.4  | 710.9  | 718.7  |
| 60°    | 345.6 | 350.1 | 377.9 | 446.1 | 527.9 | 628.4 | 736.1 | 799.4  | 805.6  | 818.7  | 835.8  |
| 62.5°  | 307.6 | 310.8 | 334.9 | 402.0 | 527.9 | 669.8 | 846.2 | 951.0  | 971.5  | 992.9  | 1024.4 |
| 65°    | 272.3 | 274.7 | 290.0 | 348.0 | 490.4 | 703.5 | 961.4 | 1081.9 | 1104.1 | 1120.2 | 1146.9 |
| 67°    | 250.4 | 251.5 | 265.9 | 313.2 | 440.2 | 676.5 | 969.1 | 1091.0 | 1110.0 | 1126.6 | 1160.2 |
| 67.5°  | 243.0 | 243.8 | 257.4 | 304.4 | 424.7 | 660.2 | 957.4 | 1083.5 | 1104.1 | 1121.0 | 1155.2 |
| 70°    | 186.8 | 184.4 | 196.2 | 239.5 | 343.2 | 526.8 | 840.6 | 986.0  | 1009.5 | 1032.0 | 1073.4 |
| 72.5°  | 111.4 | 108.0 | 115.5 | 139.0 | 222.4 | 370.2 | 637.5 | 809.0  | 839.0  | 867.0  | 921.3  |
| 75°    | 67.1  | 67.3  | 73.0  | 89.3  | 121.3 | 232.8 | 411.9 | 526.5  | 554.6  | 581.1  | 623.8  |
| 77.5°  | 33.4  | 33.2  | 38.2  | 51.9  | 88.5  | 144.6 | 239.2 | 303.6  | 313.0  | 325.5  | 320.5  |
| 80°    | 10.7  | 10.4  | 11.2  | 14.2  | 31.8  | 97.0  | 150.5 | 190.6  | 194.8  | 197.2  | 200.2  |
| 82.5°  | 1.6   | 1.9   | 2.1   | 3.5   | 5.9   | 23.2  | 93.5  | 132.6  | 138.4  | 145.4  | 158.8  |
| 85°    | 0.0   | 0.0   | 0.3   | 0.3   | 0.8   | 1.9   | 8.8   | 22.7   | 23.8   | 28.9   | 33.9   |
| 87.5°  | 0.0   | 0.0   | 0.0   | 0.3   | 0.6   | 0.8   | 1.3   | 1.3    | 1.3    | 1.3    | 1.3    |
| 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    |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 60°  | 61°  | 62°  | 64°  |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 110°   | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  |
| 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°    | 75°    | 85°    | 90°   | 95°   | 105°  |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0°     | 155.6  | 155.6  | 155.6  | 155.6  | 155.6  | 155.6  | 155.6  | 155.6  | 155.6 | 155.6 | 155.6 |
| 2.5°   | 159.6  | 159.6  | 159.3  | 159.0  | 159.0  | 159.0  | 158.5  | 158.2  | 156.6 | 156.1 | 155.0 |
| 5°     | 166.0  | 166.0  | 165.4  | 165.2  | 164.9  | 164.9  | 164.1  | 162.5  | 160.4 | 159.0 | 156.9 |
| 7.5°   | 172.9  | 172.7  | 172.1  | 172.1  | 171.0  | 171.0  | 170.0  | 167.1  | 164.9 | 163.0 | 160.4 |
| 10°    | 181.0  | 180.7  | 179.9  | 179.6  | 179.1  | 178.6  | 177.5  | 174.0  | 171.9 | 169.5 | 166.3 |
| 12.5°  | 189.8  | 189.2  | 188.7  | 188.4  | 187.9  | 187.4  | 186.3  | 183.1  | 181.0 | 178.6 | 174.8 |
| 15°    | 197.5  | 197.2  | 196.7  | 196.5  | 196.5  | 195.9  | 195.1  | 192.2  | 190.0 | 187.4 | 184.4 |
| 17.5°  | 204.5  | 204.2  | 203.9  | 203.9  | 203.6  | 203.6  | 203.4  | 200.7  | 199.4 | 197.2 | 194.3 |
| 20°    | 210.3  | 210.6  | 210.6  | 210.6  | 210.9  | 211.2  | 211.7  | 210.3  | 209.0 | 207.1 | 205.5 |
| 22.5°  | 216.8  | 217.0  | 217.8  | 217.8  | 218.4  | 218.6  | 220.5  | 220.2  | 219.7 | 218.4 | 217.0 |
| 25°    | 224.5  | 225.0  | 225.6  | 226.4  | 226.6  | 227.4  | 230.6  | 232.0  | 230.9 | 230.1 | 231.5 |
| 27.5°  | 234.7  | 235.7  | 236.3  | 237.4  | 237.9  | 238.9  | 243.8  | 246.7  | 245.9 | 246.2 | 249.1 |
| 30°    | 249.9  | 251.0  | 252.6  | 253.1  | 255.0  | 255.5  | 261.1  | 265.7  | 265.7 | 265.1 | 270.5 |
| 32.5°  | 270.2  | 271.0  | 272.9  | 274.2  | 275.3  | 276.4  | 281.7  | 286.5  | 287.0 | 288.7 | 290.8 |
| 35°    | 297.0  | 297.5  | 298.5  | 300.7  | 300.4  | 300.9  | 303.9  | 308.7  | 311.4 | 315.1 | 308.7 |
| 37.5°  | 332.2  | 334.1  | 333.6  | 333.8  | 331.7  | 333.0  | 334.1  | 339.2  | 344.8 | 348.5 | 323.7 |
| 40°    | 382.5  | 383.8  | 382.5  | 380.6  | 379.0  | 378.2  | 376.6  | 382.2  | 387.0 | 384.3 | 335.4 |
| 42.5°  | 431.4  | 431.9  | 430.8  | 427.6  | 426.3  | 423.6  | 419.3  | 426.3  | 429.0 | 416.4 | 341.6 |
| 45°    | 479.8  | 478.9  | 477.1  | 476.5  | 473.9  | 471.2  | 468.8  | 473.3  | 472.3 | 447.7 | 344.3 |
| 47.5°  | 530.5  | 529.7  | 528.4  | 526.3  | 523.3  | 522.8  | 520.6  | 520.1  | 512.4 | 474.4 | 342.9 |
| 50°    | 574.9  | 575.5  | 572.5  | 573.6  | 572.2  | 569.6  | 567.7  | 568.8  | 550.3 | 497.9 | 340.2 |
| 52.5°  | 613.1  | 613.1  | 611.8  | 613.1  | 612.6  | 611.3  | 612.8  | 630.2  | 592.0 | 531.1 | 336.2 |
| 55°    | 657.5  | 659.1  | 658.0  | 659.4  | 660.2  | 663.1  | 669.8  | 710.4  | 654.3 | 571.7 | 327.1 |
| 57.5°  | 722.4  | 726.5  | 725.4  | 730.7  | 735.5  | 743.3  | 767.6  | 810.4  | 731.5 | 616.3 | 309.2 |
| 60°    | 839.0  | 852.1  | 851.5  | 860.9  | 870.5  | 879.3  | 921.8  | 930.1  | 818.9 | 674.6 | 295.9 |
| 62.5°  | 1033.0 | 1043.7 | 1048.2 | 1058.4 | 1064.6 | 1066.1 | 1100.4 | 1039.7 | 897.0 | 727.5 | 288.4 |
| 65°    | 1158.6 | 1162.9 | 1166.9 | 1165.6 | 1161.9 | 1155.7 | 1157.8 | 1029.5 | 871.0 | 693.6 | 247.5 |
| 67°    | 1173.6 | 1182.4 | 1185.6 | 1183.5 | 1177.9 | 1169.3 | 1158.9 | 983.6  | 816.0 | 640.7 | 209.3 |
| 67.5°  | 1169.3 | 1178.4 | 1181.3 | 1179.5 | 1174.7 | 1168.3 | 1156.0 | 966.2  | 797.3 | 623.5 | 199.4 |
| 70°    | 1100.6 | 1113.7 | 1125.8 | 1129.8 | 1130.0 | 1129.0 | 1116.7 | 843.5  | 678.6 | 523.6 | 151.3 |
| 72.5°  | 938.4  | 955.2  | 980.4  | 972.4  | 985.2  | 976.9  | 948.8  | 576.5  | 465.1 | 374.2 | 106.1 |
| 75°    | 633.2  | 640.7  | 661.0  | 637.7  | 639.9  | 625.2  | 516.1  | 334.9  | 288.4 | 243.5 | 63.9  |
| 77.5°  | 318.6  | 323.4  | 320.2  | 306.3  | 300.9  | 288.9  | 223.4  | 72.7   | 72.7  | 86.6  | 33.4  |
| 80°    | 202.1  | 203.9  | 206.1  | 209.3  | 213.3  | 213.8  | 155.0  | 21.4   | 19.2  | 20.0  | 18.2  |
| 82.5°  | 165.7  | 170.8  | 177.5  | 178.8  | 180.4  | 181.8  | 106.9  | 11.8   | 9.6   | 10.7  | 12.8  |
| 85°    | 38.5   | 41.7   | 39.8   | 35.3   | 37.7   | 29.1   | 15.0   | 4.8    | 4.3   | 5.3   | 8.8   |
| 87.5°  | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.1   | 1.9   | 4.5   |
| 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   |

REPORT NUMBER: P173852

CATALOG NUMBER: ENV-FXX-LED-E1-BL3-ULG-BBB

**CANDELA DISTRIBUTION (continued):**

|        | 65°  | 66°  | 67°  | 68°  | 69°  | 70°  | 75°  | 85°  | 90°  | 95°  | 105° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 110°   | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  |
| 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: P173852

CATALOG NUMBER: ENV-FXX-LED-E1-BL3-ULG-BBB

**CANDELA DISTRIBUTION (continued):**

|        | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 155.6 | 155.6 | 155.6 | 155.6 | 155.6 | 155.6 | 155.6 | 155.6 |
| 2.5°   | 153.9 | 153.1 | 152.1 | 151.8 | 151.6 | 151.0 | 150.7 | 150.5 |
| 5°     | 154.8 | 153.1 | 151.6 | 150.5 | 149.9 | 149.4 | 148.9 | 148.9 |
| 7.5°   | 158.0 | 156.1 | 153.7 | 152.6 | 151.6 | 150.7 | 150.2 | 150.2 |
| 10°    | 163.3 | 161.2 | 158.2 | 156.9 | 155.6 | 154.8 | 154.2 | 153.7 |
| 12.5°  | 171.3 | 168.6 | 165.2 | 163.0 | 161.7 | 161.4 | 160.9 | 160.6 |
| 15°    | 181.2 | 178.3 | 174.5 | 172.4 | 170.3 | 169.7 | 169.2 | 168.9 |
| 17.5°  | 191.1 | 188.7 | 185.7 | 182.0 | 177.7 | 174.2 | 172.7 | 172.4 |
| 20°    | 202.3 | 201.3 | 196.7 | 188.4 | 179.1 | 171.9 | 168.9 | 168.9 |
| 22.5°  | 216.5 | 213.6 | 202.6 | 187.9 | 174.0 | 163.8 | 159.8 | 159.8 |
| 25°    | 232.0 | 222.1 | 201.8 | 182.0 | 164.9 | 152.3 | 147.0 | 147.0 |
| 27.5°  | 245.6 | 224.5 | 197.0 | 172.1 | 151.3 | 137.6 | 131.5 | 131.2 |
| 30°    | 256.3 | 223.2 | 188.4 | 158.2 | 135.2 | 119.7 | 112.8 | 112.8 |
| 32.5°  | 262.2 | 218.6 | 176.7 | 141.9 | 115.7 | 98.1  | 89.6  | 89.8  |
| 35°    | 263.8 | 210.9 | 161.2 | 120.3 | 92.2  | 74.8  | 67.1  | 67.1  |
| 37.5°  | 262.2 | 198.6 | 141.9 | 96.5  | 69.0  | 56.7  | 50.8  | 50.2  |
| 40°    | 256.8 | 180.1 | 116.3 | 70.5  | 51.3  | 44.1  | 41.7  | 41.2  |
| 42.5°  | 246.2 | 158.0 | 87.4  | 50.5  | 41.2  | 38.2  | 37.7  | 37.4  |
| 45°    | 229.3 | 128.0 | 60.7  | 39.6  | 36.9  | 36.1  | 36.1  | 35.8  |
| 47.5°  | 208.2 | 97.8  | 43.3  | 35.0  | 34.7  | 34.7  | 34.7  | 34.7  |
| 50°    | 184.7 | 69.2  | 35.3  | 33.2  | 32.9  | 33.4  | 33.7  | 33.7  |
| 52.5°  | 160.4 | 48.4  | 32.3  | 31.8  | 31.3  | 32.1  | 32.3  | 32.3  |
| 55°    | 133.9 | 37.9  | 31.0  | 30.5  | 29.7  | 29.9  | 30.5  | 30.5  |
| 57.5°  | 106.6 | 33.7  | 30.5  | 29.7  | 28.1  | 28.1  | 28.6  | 28.6  |
| 60°    | 84.7  | 32.3  | 30.2  | 28.3  | 26.2  | 26.2  | 26.7  | 27.0  |
| 62.5°  | 70.8  | 32.1  | 30.2  | 27.0  | 25.4  | 24.6  | 25.1  | 25.1  |
| 65°    | 59.1  | 32.1  | 29.4  | 27.0  | 24.1  | 23.0  | 23.5  | 23.5  |
| 67°    | 49.4  | 31.5  | 28.9  | 27.0  | 23.5  | 22.2  | 22.2  | 22.2  |
| 67.5°  | 46.8  | 31.3  | 29.1  | 27.0  | 23.2  | 21.9  | 21.7  | 21.7  |
| 70°    | 35.0  | 28.3  | 29.1  | 27.3  | 22.7  | 20.0  | 19.5  | 19.5  |
| 72.5°  | 27.3  | 25.9  | 28.3  | 28.1  | 22.2  | 18.5  | 17.4  | 17.1  |
| 75°    | 22.2  | 23.5  | 28.6  | 27.3  | 20.9  | 16.8  | 15.2  | 15.0  |
| 77.5°  | 19.0  | 20.0  | 24.1  | 21.9  | 17.4  | 15.0  | 13.4  | 13.1  |
| 80°    | 15.0  | 17.1  | 17.1  | 15.0  | 12.8  | 12.0  | 11.2  | 11.2  |
| 82.5°  | 12.0  | 13.1  | 11.2  | 10.2  | 9.6   | 9.4   | 8.8   | 8.8   |
| 85°    | 9.9   | 10.7  | 8.3   | 7.5   | 7.2   | 7.0   | 6.4   | 6.4   |
| 87.5°  | 7.7   | 6.7   | 4.3   | 4.0   | 4.0   | 3.8   | 3.8   | 4.0   |
| 90°    | 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   |
| 95°    | 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   |
| 100°   | 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   |
| 105°   | 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   |

REPORT NUMBER: P173852

CATALOG NUMBER: ENV-FXX-LED-E1-BL3-ULG-BBB

**CANDELA DISTRIBUTION (continued):**

|        | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|------|------|------|------|------|------|------|------|
| 110°   | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  |
| 112.5° | 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  |
| 117.5° | 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 |
| 122.5° | 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 |
| 127.5° | 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 |
| 132.5° | 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 |
| 137.5° | 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 |
| 142.5° | 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 |
| 147.5° | 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 |
| 152.5° | 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 |
| 157.5° | 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 |
| 162.5° | 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 |
| 167.5° | 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 |
| 172.5° | 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 |
| 177.5° | 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 |

(END OF REPORT)