

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: P173740

Luminaire Tested: **ENV-EXX-LED-E1-BL4-7050-ULG-BBB**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P173740  
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-EXX-LED-E1-BL4-7050-ULG-BBB  
Description: ENTRI LED LUMINAIRE WITH UPLIGHT, EMERGENCY MODE  
LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL  
Light Source: (42) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1838 lumens  
Efficiency: N/A  
Efficacy: 334.2 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type III - Short - Cutoff  
BUG Rating: B1 - 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



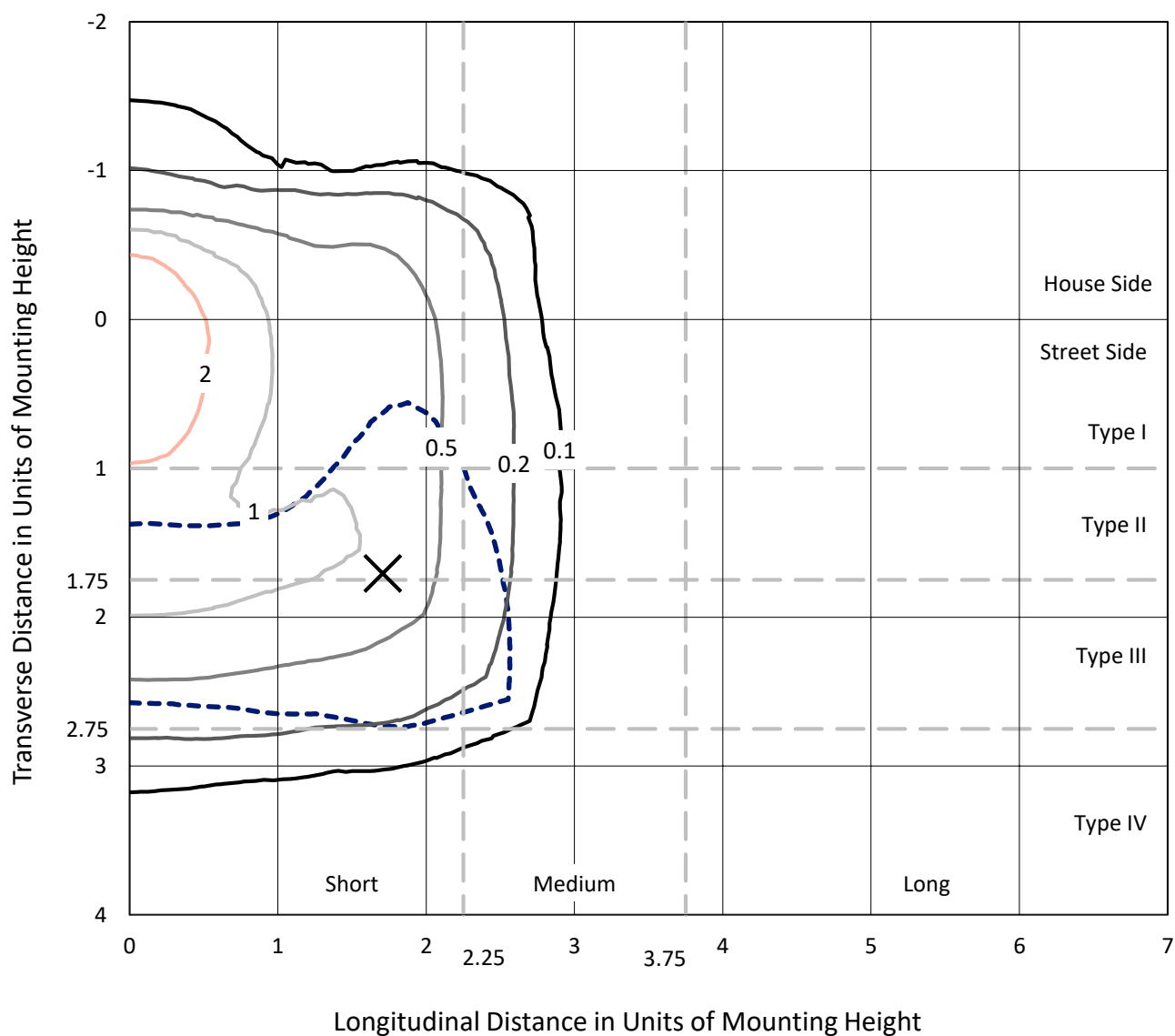
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

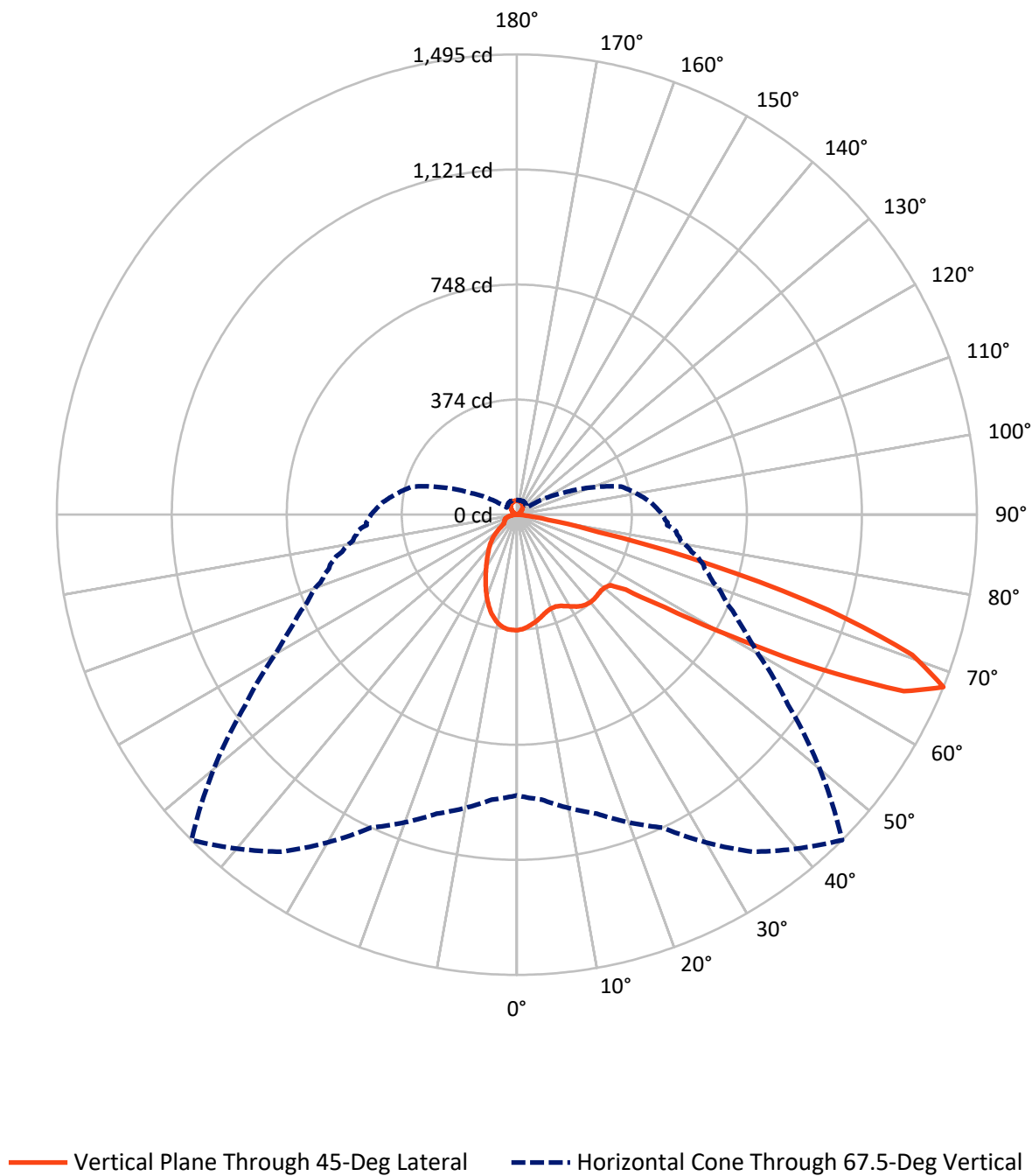


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc  
Type III - Short - Cutoff

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## Luminous Intensity Polar Plot



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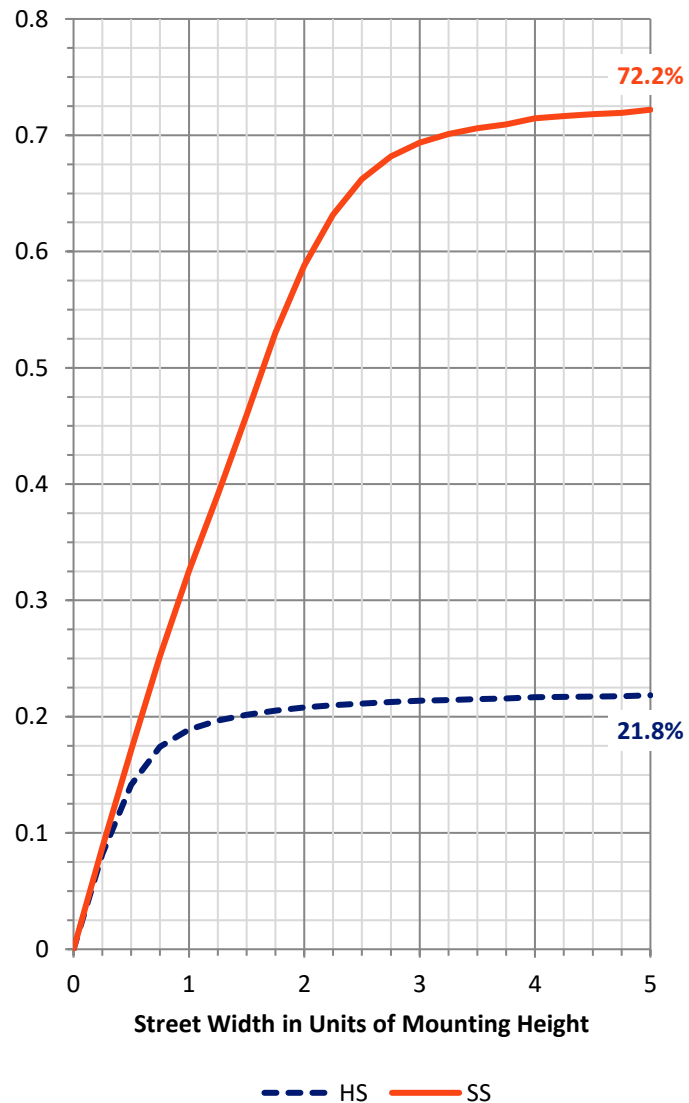
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 406.8    | 51.1   | 457.8  |
|                    | % Fixture | 22.1     | 2.8    | 24.9   |
| <b>Street Side</b> | Lumens    | 1329.1   | 51.1   | 1380.1 |
|                    | % Fixture | 72.3     | 2.8    | 75.1   |
| <b>Total</b>       | Lumens    | 1735.8   | 102.1  | 1838.0 |
|                    | % Fixture | 94.4     | 5.6    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 34.8   | 1.9       |
| 10°-20°   | 93.8   | 5.1       |
| 20°-30°   | 135.2  | 7.4       |
| 30°-40°   | 172.5  | 9.4       |
| 40°-50°   | 203.6  | 11.1      |
| 50°-60°   | 326.5  | 17.8      |
| 60°-70°   | 549.5  | 29.9      |
| 70°-80°   | 204.4  | 11.1      |
| 80°-90°   | 15.5   | 0.8       |
| 90°-100°  | 0.4    | 0.0       |
| 100°-110° | 4.0    | 0.2       |
| 110°-120° | 8.2    | 0.4       |
| 120°-130° | 13.9   | 0.8       |
| 130°-140° | 19.4   | 1.1       |
| 140°-150° | 21.2   | 1.2       |
| 150°-160° | 18.4   | 1.0       |
| 160°-170° | 12.4   | 0.7       |
| 170°-180° | 4.3    | 0.2       |
| 0°-90°    | 1735.8 | 94.4      |
| 0°-180°   | 1838.0 | 100.0     |

**Coefficient of Utilization**



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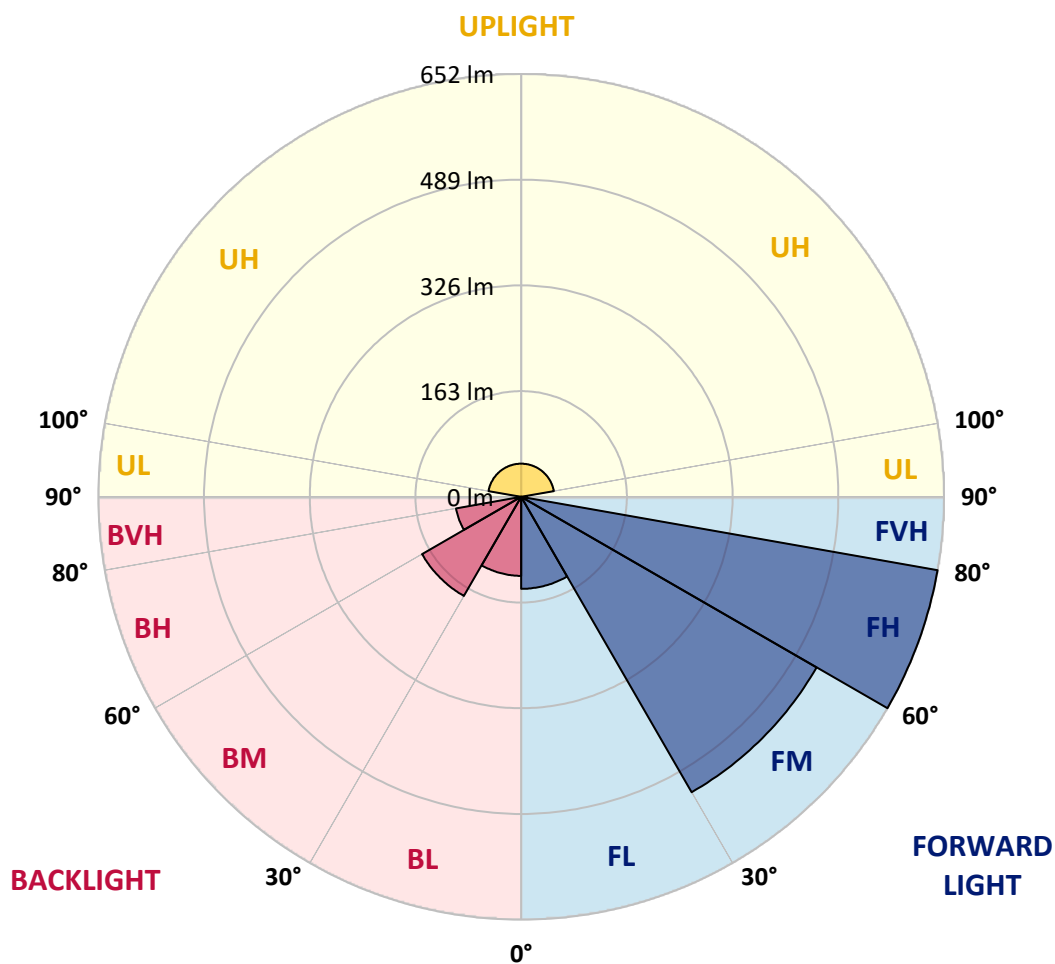
CATALOG NUMBER: ENV-EXX-LED-E1-BL4-7050-ULG-BBB

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |        |        |
|------|-------------|--------|-----------|-------------------------|--------|--------|
|      |             |        |           | B                       | U      | G      |
| FL   | (0°-30°)    | 141.9  | 7.7       |                         |        |        |
| FM   | (30°-60°)   | 526.0  | 28.6      |                         |        |        |
| FH   | (60°-80°)   | 652.0  | 35.5      |                         |        | G0/660 |
| FVH  | (80°-90°)   | 9.2    | 0.5       |                         |        | G0/10  |
| BL   | (0°-30°)    | 121.9  | 6.6       | B1/500                  |        |        |
| BM   | (30°-60°)   | 176.6  | 9.6       | B0/220                  |        |        |
| BH   | (60°-80°)   | 101.9  | 5.5       | B0/110                  |        | G0/110 |
| BVH  | (80°-90°)   | 6.3    | 0.3       |                         |        | G0/10  |
| UL   | (90°-100°)  | 0.4    | 0.0       |                         | U1/10  |        |
| UH   | (100°-180°) | 51.1   | 2.8       |                         | U3/500 |        |

**BUG Rating: B1-U3-G0**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°   | 61°   | 62°   | 64°   |
|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0°     | 375.1  | 375.1  | 375.1  | 375.1  | 375.1  | 375.1  | 375.1  | 375.1 | 375.1 | 375.1 | 375.1 |
| 2.5°   | 369.8  | 369.8  | 370.4  | 370.4  | 371.4  | 372.1  | 371.4  | 372.7 | 372.7 | 372.4 | 373.1 |
| 5°     | 364.4  | 364.4  | 364.8  | 364.8  | 365.4  | 366.4  | 365.8  | 367.1 | 366.8 | 367.1 | 367.1 |
| 7.5°   | 358.1  | 358.1  | 358.8  | 358.5  | 358.8  | 359.4  | 357.8  | 358.8 | 358.8 | 359.1 | 358.8 |
| 10°    | 350.1  | 350.8  | 351.5  | 351.2  | 351.2  | 351.5  | 348.8  | 349.8 | 349.5 | 349.5 | 349.1 |
| 12.5°  | 342.8  | 342.2  | 342.8  | 343.5  | 343.2  | 343.2  | 340.5  | 339.9 | 339.9 | 339.9 | 340.2 |
| 15°    | 335.2  | 335.9  | 336.9  | 335.9  | 335.2  | 333.9  | 331.2  | 330.6 | 330.6 | 330.6 | 330.9 |
| 17.5°  | 333.5  | 333.5  | 334.2  | 333.2  | 330.6  | 327.9  | 322.6  | 321.6 | 321.6 | 321.2 | 321.2 |
| 20°    | 338.2  | 337.8  | 338.8  | 336.9  | 330.9  | 323.9  | 315.6  | 314.0 | 314.0 | 314.0 | 313.6 |
| 22.5°  | 347.8  | 347.8  | 349.5  | 347.2  | 337.5  | 324.2  | 311.9  | 309.3 | 309.0 | 308.6 | 308.0 |
| 25°    | 366.4  | 366.1  | 367.1  | 361.1  | 347.2  | 328.6  | 310.9  | 307.0 | 306.6 | 306.0 | 305.3 |
| 27.5°  | 388.0  | 388.7  | 390.7  | 381.7  | 361.1  | 336.2  | 315.3  | 308.6 | 308.0 | 307.0 | 305.6 |
| 30°    | 409.3  | 411.3  | 414.9  | 405.3  | 377.1  | 345.8  | 321.9  | 314.3 | 312.9 | 311.6 | 309.3 |
| 32.5°  | 436.2  | 435.5  | 441.5  | 426.9  | 391.0  | 356.1  | 328.9  | 319.6 | 317.9 | 315.9 | 312.9 |
| 35°    | 464.8  | 466.1  | 467.4  | 443.8  | 402.6  | 364.4  | 333.2  | 322.6 | 320.6 | 318.6 | 314.3 |
| 37.5°  | 493.3  | 493.7  | 490.7  | 457.4  | 409.6  | 369.4  | 335.5  | 323.2 | 320.6 | 317.6 | 312.6 |
| 40°    | 519.6  | 518.6  | 509.6  | 467.8  | 413.6  | 372.1  | 336.5  | 321.9 | 318.6 | 315.6 | 310.0 |
| 42.5°  | 534.5  | 533.5  | 522.2  | 472.4  | 413.9  | 371.7  | 336.5  | 320.6 | 316.9 | 313.3 | 307.0 |
| 45°    | 540.8  | 540.2  | 527.2  | 473.1  | 411.6  | 369.8  | 334.5  | 319.3 | 315.6 | 312.3 | 305.6 |
| 47.5°  | 541.5  | 541.5  | 528.2  | 472.1  | 409.6  | 368.4  | 334.5  | 320.9 | 317.9 | 315.3 | 310.3 |
| 50°    | 538.5  | 538.8  | 528.5  | 474.7  | 411.3  | 371.4  | 337.8  | 324.9 | 321.9 | 319.3 | 313.6 |
| 52.5°  | 573.7  | 570.4  | 547.5  | 486.7  | 422.3  | 381.0  | 349.1  | 337.5 | 336.5 | 334.9 | 330.6 |
| 55°    | 842.8  | 845.5  | 720.2  | 561.4  | 468.4  | 430.5  | 417.3  | 414.9 | 422.3 | 424.9 | 424.9 |
| 57.5°  | 1070.1 | 1061.4 | 1014.2 | 819.2  | 612.6  | 567.1  | 572.4  | 578.0 | 588.7 | 593.3 | 596.7 |
| 60°    | 1125.5 | 1126.2 | 1124.9 | 1069.4 | 904.3  | 800.6  | 774.7  | 750.1 | 749.2 | 740.5 | 733.9 |
| 62.5°  | 1118.9 | 1124.2 | 1149.1 | 1161.8 | 1178.0 | 1102.0 | 943.8  | 875.7 | 862.4 | 846.2 | 822.9 |
| 65°    | 1070.7 | 1078.7 | 1118.6 | 1180.0 | 1320.2 | 1382.7 | 1057.8 | 935.8 | 915.2 | 895.7 | 856.4 |
| 67.5°  | 912.3  | 929.5  | 1005.9 | 1121.9 | 1337.2 | 1495.3 | 1076.4 | 906.6 | 879.4 | 853.8 | 807.3 |
| 70°    | 563.1  | 572.1  | 690.0  | 905.3  | 1211.6 | 1363.4 | 977.4  | 769.4 | 734.8 | 702.3 | 638.8 |
| 72.5°  | 363.5  | 360.4  | 380.4  | 510.0  | 890.3  | 1059.4 | 672.1  | 511.6 | 483.4 | 457.4 | 416.6 |
| 75°    | 254.5  | 254.8  | 245.8  | 243.2  | 412.9  | 656.1  | 304.3  | 218.6 | 206.0 | 200.7 | 192.0 |
| 77.5°  | 165.8  | 167.8  | 165.4  | 171.8  | 165.4  | 272.7  | 139.9  | 102.7 | 97.7  | 94.3  | 89.0  |
| 80°    | 100.0  | 106.6  | 108.6  | 109.9  | 111.6  | 103.0  | 83.0   | 60.5  | 54.5  | 48.8  | 40.2  |
| 82.5°  | 17.6   | 17.3   | 23.9   | 32.2   | 42.2   | 48.2   | 34.9   | 21.9  | 20.6  | 19.9  | 18.3  |
| 85°    | 0.0    | 0.0    | 0.3    | 0.3    | 0.7    | 2.3    | 3.7    | 4.3   | 4.0   | 4.3   | 4.7   |
| 87.5°  | 0.0    | 0.0    | 0.0    | 0.3    | 0.3    | 0.7    | 0.7    | 0.7   | 0.7   | 0.7   | 0.7   |
| 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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**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°     | 375.1 | 375.1 | 375.1 | 375.1 | 375.1 | 375.1 | 375.1 | 375.1 | 375.1 | 375.1 | 375.1 |
| 2.5°   | 373.1 | 372.7 | 372.4 | 372.4 | 373.1 | 373.1 | 372.7 | 372.7 | 373.1 | 372.7 | 373.4 |
| 5°     | 367.4 | 367.1 | 367.1 | 366.8 | 367.1 | 367.4 | 367.1 | 367.1 | 367.4 | 367.1 | 367.8 |
| 7.5°   | 358.5 | 358.8 | 358.5 | 358.5 | 358.8 | 359.1 | 358.8 | 358.8 | 358.8 | 358.8 | 358.5 |
| 10°    | 349.1 | 349.1 | 348.8 | 348.8 | 349.5 | 349.1 | 348.8 | 348.8 | 349.1 | 349.5 | 348.8 |
| 12.5°  | 339.9 | 340.5 | 340.5 | 339.2 | 339.5 | 339.9 | 339.9 | 339.5 | 339.5 | 340.5 | 339.5 |
| 15°    | 330.6 | 330.9 | 330.6 | 330.9 | 330.2 | 329.9 | 330.2 | 330.2 | 329.6 | 329.2 | 329.2 |
| 17.5°  | 321.2 | 320.9 | 320.9 | 320.3 | 319.9 | 319.9 | 319.6 | 319.9 | 319.3 | 319.6 | 318.6 |
| 20°    | 312.9 | 312.6 | 312.3 | 312.3 | 311.3 | 311.3 | 311.3 | 310.9 | 310.3 | 310.3 | 310.0 |
| 22.5°  | 308.0 | 307.6 | 307.3 | 306.6 | 306.3 | 306.0 | 306.0 | 305.6 | 305.0 | 304.6 | 304.3 |
| 25°    | 305.3 | 305.0 | 304.3 | 303.7 | 303.3 | 303.0 | 303.0 | 302.7 | 302.0 | 301.3 | 301.0 |
| 27.5°  | 305.6 | 305.0 | 304.3 | 303.7 | 303.3 | 302.7 | 302.3 | 302.0 | 301.3 | 300.6 | 300.0 |
| 30°    | 308.6 | 307.3 | 306.0 | 305.0 | 304.0 | 303.0 | 302.3 | 302.0 | 301.0 | 300.0 | 299.0 |
| 32.5°  | 311.6 | 310.0 | 308.0 | 306.0 | 304.3 | 302.7 | 301.6 | 300.6 | 299.3 | 297.7 | 296.7 |
| 35°    | 312.6 | 310.6 | 307.6 | 306.0 | 303.7 | 301.6 | 300.0 | 298.7 | 296.3 | 294.3 | 292.7 |
| 37.5°  | 310.3 | 308.0 | 305.0 | 302.7 | 300.3 | 297.7 | 295.7 | 293.7 | 292.0 | 289.7 | 288.0 |
| 40°    | 306.6 | 304.0 | 301.0 | 297.7 | 295.3 | 292.7 | 290.7 | 289.0 | 286.7 | 284.7 | 283.4 |
| 42.5°  | 303.7 | 300.6 | 297.3 | 294.7 | 292.0 | 289.3 | 287.0 | 285.4 | 283.0 | 280.7 | 279.1 |
| 45°    | 302.7 | 299.6 | 297.0 | 293.7 | 291.0 | 289.0 | 287.0 | 284.7 | 282.7 | 280.7 | 278.7 |
| 47.5°  | 308.0 | 305.3 | 302.7 | 300.0 | 297.7 | 295.3 | 293.4 | 291.0 | 288.7 | 286.0 | 284.0 |
| 50°    | 310.9 | 308.0 | 305.6 | 302.7 | 300.0 | 297.7 | 295.7 | 293.4 | 291.7 | 289.0 | 287.0 |
| 52.5°  | 332.5 | 328.6 | 329.2 | 326.6 | 326.6 | 323.9 | 325.9 | 322.9 | 324.6 | 322.6 | 325.6 |
| 55°    | 423.9 | 425.2 | 433.6 | 434.9 | 438.2 | 437.9 | 439.9 | 448.5 | 445.2 | 440.8 | 442.2 |
| 57.5°  | 587.7 | 590.7 | 595.0 | 591.0 | 594.0 | 594.7 | 600.3 | 598.0 | 596.0 | 594.7 | 590.3 |
| 60°    | 729.9 | 725.9 | 719.6 | 711.9 | 708.9 | 705.6 | 700.0 | 700.0 | 692.7 | 690.3 | 684.7 |
| 62.5°  | 813.3 | 801.6 | 793.7 | 781.4 | 772.7 | 766.8 | 756.8 | 749.2 | 739.2 | 731.5 | 722.6 |
| 65°    | 840.5 | 820.9 | 806.9 | 791.7 | 778.0 | 765.1 | 750.8 | 739.8 | 727.6 | 719.2 | 705.0 |
| 67.5°  | 787.7 | 767.7 | 744.2 | 727.9 | 713.6 | 697.3 | 675.0 | 661.4 | 650.8 | 634.9 | 627.9 |
| 70°    | 613.3 | 592.3 | 562.8 | 554.8 | 532.9 | 507.6 | 485.0 | 471.4 | 455.8 | 444.8 | 433.2 |
| 72.5°  | 389.0 | 365.4 | 352.5 | 342.8 | 328.6 | 307.6 | 288.0 | 280.1 | 266.4 | 263.4 | 255.8 |
| 75°    | 182.7 | 166.8 | 163.4 | 161.1 | 145.5 | 142.5 | 136.5 | 133.9 | 127.6 | 124.3 | 122.9 |
| 77.5°  | 81.7  | 78.1  | 72.1  | 70.4  | 65.4  | 60.5  | 54.5  | 51.8  | 48.5  | 46.5  | 43.8  |
| 80°    | 37.2  | 33.5  | 31.2  | 29.6  | 28.9  | 27.2  | 25.9  | 24.9  | 23.9  | 23.9  | 22.2  |
| 82.5°  | 17.9  | 17.3  | 16.6  | 16.6  | 15.6  | 15.6  | 14.6  | 14.3  | 14.0  | 13.6  | 13.6  |
| 85°    | 5.0   | 5.0   | 5.0   | 5.3   | 5.3   | 5.3   | 5.3   | 5.3   | 5.3   | 5.6   | 5.6   |
| 87.5°  | 0.7   | 0.7   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |
| 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: P173740

CATALOG NUMBER: ENV-EXX-LED-E1-BL4-7050-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: P173740

CATALOG NUMBER: ENV-EXX-LED-E1-BL4-7050-ULG-BBB

**CANDELA DISTRIBUTION (continued):**

|        | 76°   | 77°   | 78°   | 79°   | 80°   | 81°   | 82°   | 83°   | 84°   | 85°   | 86°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 375.1 | 375.1 | 375.1 | 375.1 | 375.1 | 375.1 | 375.1 | 375.1 | 375.1 | 375.1 | 375.1 |
| 2.5°   | 373.1 | 373.1 | 373.1 | 373.8 | 373.4 | 374.4 | 374.4 | 374.4 | 375.1 | 375.4 | 375.1 |
| 5°     | 367.8 | 367.8 | 367.8 | 368.1 | 368.1 | 368.8 | 368.8 | 369.4 | 369.4 | 369.8 | 369.8 |
| 7.5°   | 359.1 | 359.4 | 359.4 | 360.1 | 359.8 | 360.1 | 360.1 | 361.1 | 361.1 | 361.4 | 361.4 |
| 10°    | 349.1 | 349.5 | 349.5 | 349.5 | 349.8 | 350.1 | 350.1 | 350.8 | 351.2 | 351.2 | 351.8 |
| 12.5°  | 339.9 | 339.5 | 339.9 | 339.5 | 340.5 | 340.5 | 340.9 | 340.5 | 340.9 | 341.2 | 341.5 |
| 15°    | 329.6 | 329.6 | 329.2 | 329.6 | 329.6 | 329.2 | 328.9 | 329.2 | 329.9 | 329.9 | 329.9 |
| 17.5°  | 319.3 | 318.3 | 318.3 | 318.3 | 317.9 | 317.3 | 317.9 | 317.6 | 317.6 | 317.9 | 317.6 |
| 20°    | 309.6 | 309.3 | 309.0 | 308.6 | 308.3 | 307.3 | 307.3 | 307.3 | 307.0 | 307.0 | 307.0 |
| 22.5°  | 303.7 | 303.3 | 303.0 | 302.7 | 301.3 | 300.6 | 300.3 | 300.0 | 299.3 | 299.0 | 298.7 |
| 25°    | 300.3 | 299.6 | 299.0 | 298.3 | 297.3 | 296.3 | 295.3 | 295.0 | 294.3 | 293.7 | 292.7 |
| 27.5°  | 299.3 | 298.7 | 297.3 | 296.7 | 295.3 | 294.3 | 293.4 | 292.4 | 291.4 | 290.3 | 289.3 |
| 30°    | 297.7 | 296.7 | 295.3 | 294.3 | 293.4 | 291.7 | 290.3 | 289.3 | 287.7 | 286.7 | 285.4 |
| 32.5°  | 295.3 | 294.0 | 292.7 | 291.4 | 290.0 | 288.4 | 286.7 | 285.4 | 284.0 | 282.7 | 281.1 |
| 35°    | 291.4 | 289.7 | 287.7 | 286.4 | 284.7 | 283.0 | 281.7 | 279.4 | 278.4 | 276.7 | 275.1 |
| 37.5°  | 286.0 | 284.4 | 282.7 | 281.1 | 279.1 | 277.7 | 275.7 | 273.7 | 272.7 | 271.8 | 269.4 |
| 40°    | 281.4 | 279.4 | 277.7 | 276.4 | 274.1 | 273.1 | 271.1 | 269.1 | 267.8 | 266.8 | 264.8 |
| 42.5°  | 277.1 | 275.1 | 273.4 | 271.4 | 269.8 | 268.4 | 266.8 | 264.8 | 263.4 | 262.8 | 261.1 |
| 45°    | 277.1 | 274.7 | 272.7 | 271.1 | 269.4 | 267.8 | 266.4 | 264.4 | 263.4 | 262.1 | 261.1 |
| 47.5°  | 281.7 | 279.1 | 276.7 | 274.4 | 272.1 | 270.4 | 268.4 | 266.4 | 264.8 | 263.8 | 262.4 |
| 50°    | 285.0 | 282.4 | 281.1 | 278.4 | 277.1 | 274.7 | 272.4 | 271.4 | 269.8 | 268.8 | 268.4 |
| 52.5°  | 325.6 | 323.9 | 324.2 | 317.6 | 316.3 | 319.6 | 314.3 | 318.9 | 317.6 | 313.6 | 313.6 |
| 55°    | 449.8 | 449.2 | 452.1 | 443.8 | 440.2 | 446.8 | 449.5 | 439.9 | 442.2 | 442.2 | 441.5 |
| 57.5°  | 594.7 | 590.3 | 586.0 | 587.0 | 581.7 | 585.7 | 580.7 | 574.7 | 577.0 | 575.1 | 568.1 |
| 60°    | 681.0 | 678.4 | 672.1 | 666.1 | 660.4 | 655.1 | 650.5 | 645.2 | 642.5 | 637.8 | 632.9 |
| 62.5°  | 715.9 | 708.9 | 701.3 | 693.3 | 684.4 | 675.7 | 670.4 | 663.4 | 656.1 | 651.5 | 646.2 |
| 65°    | 697.3 | 687.0 | 678.7 | 667.1 | 657.5 | 646.8 | 639.9 | 631.9 | 625.2 | 617.3 | 610.6 |
| 67.5°  | 614.3 | 602.3 | 580.4 | 569.8 | 555.4 | 538.8 | 534.2 | 524.6 | 520.9 | 509.0 | 489.4 |
| 70°    | 418.3 | 406.3 | 393.0 | 371.4 | 357.5 | 343.2 | 327.6 | 316.3 | 314.6 | 305.0 | 290.7 |
| 72.5°  | 245.8 | 237.5 | 228.9 | 216.6 | 206.3 | 200.7 | 189.7 | 178.4 | 178.1 | 167.1 | 161.5 |
| 75°    | 116.3 | 112.0 | 103.3 | 100.3 | 91.0  | 90.4  | 83.4  | 82.0  | 83.4  | 80.1  | 79.4  |
| 77.5°  | 39.5  | 38.5  | 36.6  | 33.9  | 31.9  | 31.2  | 29.6  | 28.6  | 27.9  | 27.2  | 26.6  |
| 80°    | 21.6  | 20.9  | 20.6  | 19.6  | 18.9  | 18.6  | 17.6  | 17.3  | 16.9  | 16.6  | 16.3  |
| 82.5°  | 13.0  | 13.3  | 12.6  | 11.9  | 11.9  | 11.3  | 11.0  | 10.6  | 10.3  | 10.3  | 10.3  |
| 85°    | 5.3   | 5.6   | 5.3   | 5.0   | 4.7   | 5.0   | 5.0   | 4.7   | 4.3   | 4.7   | 4.7   |
| 87.5°  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |
| 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: P173740

REPORT N

CATALOG NUMBER: ENV-EXX-LED-E1-BL4-7050-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: P173740

NUMBER: ENV-EXX-LED-E1-BL4-7050-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°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|------|
| 375.1 | 375.1 | 375.1 | 375.1 | 375.1 | 375.1 | 375.1 | 375.1 | 375.1 | 375.1 | 375.1 | 112.5° | 6.9  |
| 374.4 | 374.1 | 374.1 | 373.8 | 373.4 | 374.1 | 374.7 | 375.7 | 375.1 | 375.7 | 376.1 | 115°   | 8.1  |
| 369.1 | 369.1 | 369.1 | 369.4 | 369.1 | 370.1 | 371.4 | 373.4 | 373.8 | 375.1 | 376.1 | 117.5° | 9.6  |
| 360.4 | 360.4 | 360.8 | 361.1 | 360.8 | 362.1 | 364.4 | 366.8 | 368.4 | 370.7 | 372.7 | 120°   | 11.3 |
| 350.5 | 350.5 | 350.5 | 350.5 | 350.8 | 352.5 | 354.1 | 356.8 | 359.4 | 363.1 | 366.1 | 122.5° | 13.2 |
| 341.5 | 340.5 | 340.9 | 341.5 | 340.9 | 340.9 | 342.5 | 344.5 | 346.2 | 350.8 | 356.1 | 125°   | 15.5 |
| 329.6 | 329.6 | 328.9 | 329.2 | 327.6 | 327.2 | 327.9 | 329.2 | 330.6 | 334.5 | 340.2 | 127.5° | 17.9 |
| 316.9 | 316.9 | 316.9 | 315.9 | 314.6 | 311.3 | 310.9 | 310.9 | 310.9 | 314.0 | 320.6 | 130°   | 20.4 |
| 305.6 | 305.6 | 305.0 | 304.3 | 301.3 | 295.7 | 291.0 | 289.0 | 288.4 | 293.4 | 296.3 | 132.5° | 22.8 |
| 297.7 | 297.3 | 296.0 | 295.3 | 290.7 | 281.7 | 274.4 | 268.8 | 267.1 | 268.8 | 269.8 | 135°   | 25.2 |
| 291.4 | 290.7 | 289.3 | 288.0 | 281.7 | 269.4 | 257.8 | 248.2 | 243.5 | 242.2 | 238.9 | 137.5° | 27.6 |
| 287.7 | 286.7 | 284.7 | 283.4 | 275.1 | 259.5 | 244.2 | 231.6 | 222.9 | 216.6 | 210.6 | 140°   | 29.9 |
| 283.7 | 282.1 | 280.1 | 278.1 | 268.8 | 251.5 | 233.9 | 218.3 | 203.0 | 192.0 | 183.4 | 142.5° | 32.1 |
| 279.1 | 277.4 | 275.4 | 273.4 | 263.1 | 244.2 | 225.6 | 206.3 | 185.0 | 170.1 | 157.1 | 145°   | 34.0 |
| 273.4 | 271.8 | 269.8 | 267.4 | 257.1 | 238.2 | 219.9 | 194.7 | 169.1 | 149.8 | 132.9 | 147.5° | 35.6 |
| 267.8 | 266.1 | 264.1 | 261.8 | 251.5 | 235.2 | 216.6 | 183.7 | 154.5 | 130.9 | 108.6 | 150°   | 37.3 |
| 263.4 | 261.8 | 259.8 | 257.8 | 248.5 | 233.9 | 214.9 | 174.4 | 141.5 | 112.3 | 86.7  | 152.5° | 38.8 |
| 259.8 | 258.1 | 256.5 | 254.5 | 246.5 | 234.5 | 211.3 | 166.4 | 128.9 | 93.7  | 68.1  | 155°   | 40.0 |
| 259.5 | 258.5 | 256.5 | 254.8 | 247.2 | 237.5 | 208.3 | 159.5 | 115.9 | 75.8  | 57.5  | 157.5° | 41.1 |
| 261.8 | 260.5 | 259.1 | 257.8 | 251.8 | 245.2 | 206.3 | 152.2 | 101.3 | 61.1  | 54.8  | 160°   | 42.2 |
| 267.4 | 266.1 | 265.5 | 264.8 | 261.1 | 255.5 | 206.3 | 144.5 | 84.4  | 53.8  | 54.5  | 162.5° | 43.2 |
| 312.9 | 309.3 | 308.3 | 310.9 | 301.0 | 272.7 | 207.6 | 135.2 | 66.1  | 51.5  | 54.8  | 165°   | 44.0 |
| 440.2 | 443.8 | 434.5 | 429.9 | 412.6 | 315.6 | 208.6 | 121.2 | 53.8  | 51.2  | 54.2  | 167.5° | 44.4 |
| 568.8 | 568.8 | 565.4 | 558.1 | 536.9 | 388.7 | 213.3 | 99.0  | 49.2  | 50.5  | 53.5  | 170°   | 44.5 |
| 631.5 | 627.5 | 624.2 | 619.9 | 587.7 | 439.5 | 220.3 | 73.1  | 47.2  | 50.2  | 52.8  | 172.5° | 44.9 |
| 642.8 | 636.5 | 632.2 | 626.5 | 583.7 | 442.2 | 223.2 | 54.8  | 45.2  | 50.2  | 51.2  | 175°   | 45.5 |
| 605.6 | 599.0 | 593.3 | 584.0 | 531.9 | 400.3 | 208.3 | 44.8  | 43.8  | 48.8  | 49.5  | 177.5° | 45.7 |
| 490.7 | 482.7 | 478.4 | 473.7 | 439.2 | 351.5 | 168.4 | 40.2  | 42.2  | 46.5  | 47.9  | 180°   | 45.6 |
| 280.7 | 272.1 | 267.1 | 268.1 | 247.2 | 278.1 | 134.6 | 36.9  | 39.9  | 43.8  | 45.8  |        |      |
| 151.2 | 141.8 | 138.9 | 129.2 | 110.3 | 140.2 | 103.6 | 33.9  | 36.9  | 39.9  | 41.9  |        |      |
| 74.8  | 71.4  | 72.4  | 67.8  | 57.5  | 43.2  | 66.8  | 30.2  | 32.9  | 35.9  | 37.2  |        |      |
| 25.9  | 25.3  | 24.9  | 24.6  | 23.9  | 22.9  | 30.6  | 25.9  | 28.2  | 30.6  | 31.9  |        |      |
| 16.0  | 15.6  | 16.0  | 15.6  | 15.3  | 17.6  | 19.6  | 20.6  | 22.6  | 25.6  | 25.9  |        |      |
| 9.6   | 9.6   | 9.6   | 9.6   | 9.6   | 12.3  | 14.0  | 16.0  | 17.6  | 19.6  | 21.3  |        |      |
| 4.7   | 4.7   | 4.7   | 4.7   | 5.0   | 8.3   | 9.3   | 11.6  | 12.3  | 14.0  | 15.3  |        |      |
| 1.0   | 1.0   | 1.0   | 1.0   | 1.3   | 4.3   | 5.6   | 7.0   | 7.3   | 7.3   | 8.3   |        |      |
| 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   |        |      |

'173740  
ENV-EXX-LED-E1-BL4-7050-ULG-BBB

REPORT NUMBER: P173740  
CATALOG NUMBER: ENV-EXX-

**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°     | 375.1 | 375.1 |
| 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 2.5°   | 375.7 | 375.1 |
| 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 5°     | 376.7 | 376.1 |
| 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 7.5°   | 374.1 | 374.4 |
| 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 10°    | 368.4 | 369.4 |
| 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 12.5°  | 359.4 | 361.4 |
| 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 15°    | 344.5 | 347.5 |
| 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 17.5°  | 324.6 | 328.2 |
| 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 20°    | 299.6 | 301.3 |
| 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 22.5°  | 269.1 | 269.8 |
| 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 25°    | 236.9 | 236.9 |
| 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 27.5°  | 207.0 | 205.3 |
| 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 30°    | 178.4 | 174.1 |
| 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 32.5°  | 148.2 | 140.9 |
| 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35°    | 117.6 | 111.6 |
| 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.5°  | 91.4  | 84.7  |
| 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 40°    | 70.1  | 65.1  |
| 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 42.5°  | 59.1  | 58.1  |
| 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 45°    | 56.5  | 57.8  |
| 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 47.5°  | 56.8  | 58.5  |
| 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 50°    | 57.1  | 58.8  |
| 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 52.5°  | 57.1  | 58.1  |
| 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 55°    | 56.5  | 56.5  |
| 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 57.5°  | 55.1  | 54.8  |
| 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 60°    | 54.2  | 54.2  |
| 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 62.5°  | 52.5  | 52.5  |
| 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 65°    | 49.8  | 50.2  |
| 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 67.5°  | 47.2  | 47.2  |
|      |      |      |      |      |      |      |      |      |      | 70°    | 43.8  | 43.8  |
|      |      |      |      |      |      |      |      |      |      | 72.5°  | 40.5  | 41.9  |
|      |      |      |      |      |      |      |      |      |      | 75°    | 38.2  | 40.5  |
|      |      |      |      |      |      |      |      |      |      | 77.5°  | 33.5  | 35.9  |
|      |      |      |      |      |      |      |      |      |      | 80°    | 27.6  | 27.9  |
|      |      |      |      |      |      |      |      |      |      | 82.5°  | 21.9  | 21.3  |
|      |      |      |      |      |      |      |      |      |      | 85°    | 15.6  | 14.6  |
|      |      |      |      |      |      |      |      |      |      | 87.5°  | 8.3   | 8.0   |
|      |      |      |      |      |      |      |      |      |      | 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-BL4-7050-ULG-BBB

REPORT NUMBER: P173740

CATALOG NUMBER: ENV-EXX-LED-E1-BL

**tinued):**

| 180°  |
|-------|
| 375.1 |
| 374.7 |
| 375.7 |
| 374.1 |
| 369.8 |
| 362.8 |
| 346.8 |
| 328.2 |
| 300.3 |
| 268.8 |
| 235.5 |
| 204.3 |
| 172.8 |
| 140.9 |
| 109.9 |
| 82.7  |
| 64.8  |
| 58.5  |
| 57.8  |
| 58.8  |
| 59.1  |
| 58.1  |
| 56.5  |
| 55.5  |
| 54.2  |
| 52.5  |
| 50.2  |
| 47.2  |
| 44.5  |
| 42.5  |
| 41.5  |
| 37.2  |
| 27.9  |
| 20.3  |
| 14.6  |
| 8.3   |
| 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

