

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: P173736

Luminaire Tested: **ENV-EXX-LED-E1-BL4-7030-ULG-BBB**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P173736  
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-BL4-7030-ULG-BBB  
Description: ENTRI LED LUMINAIRE WITH UPLIGHT, EMERGENCY MODE  
LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL  
Light Source: (42) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1647.2 lumens  
Efficiency: N/A  
Efficacy: 299.5 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



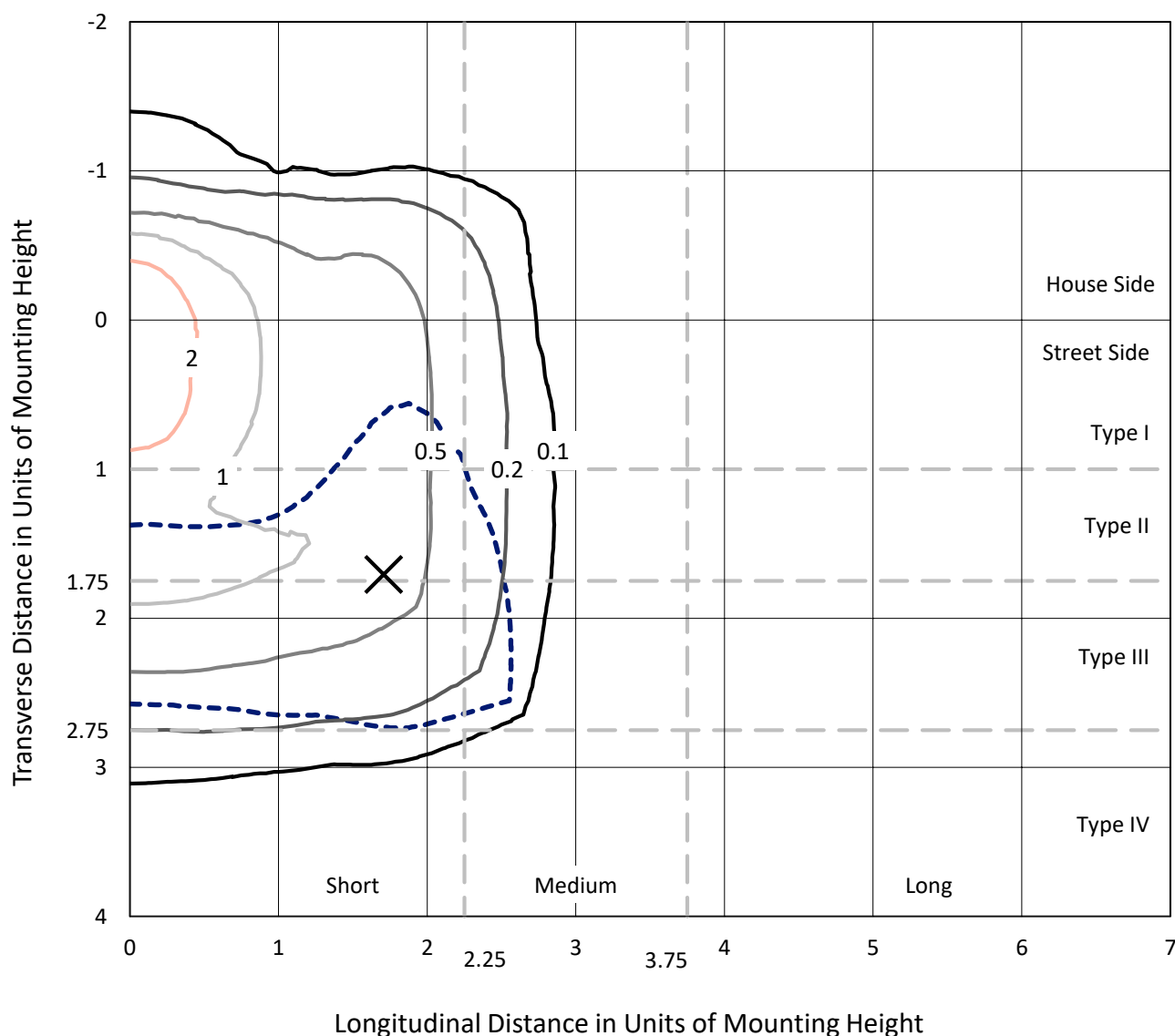
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

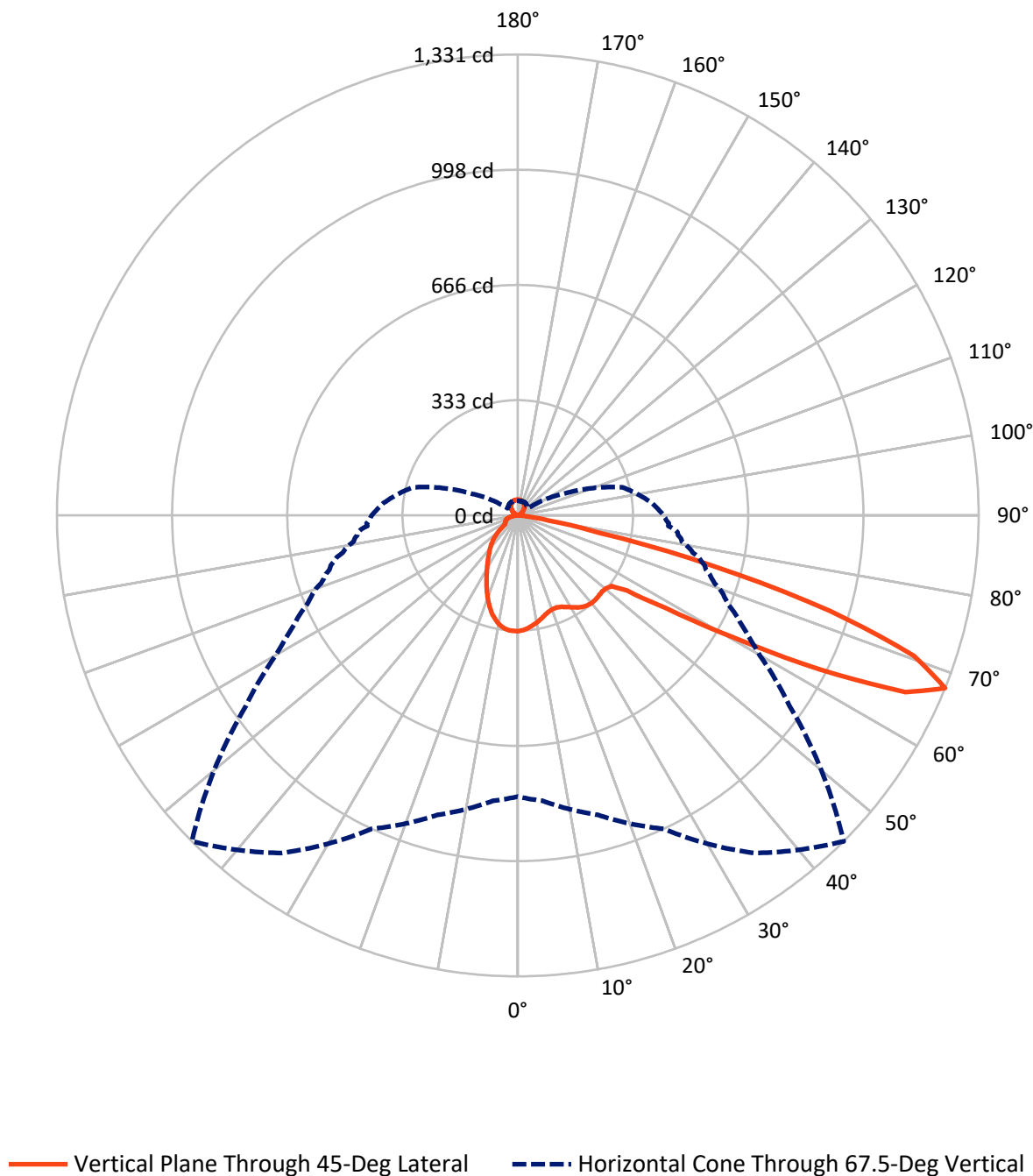


Based on 10 foot mounting height. Maximum calculated value = 3.3 fc  
 Type III - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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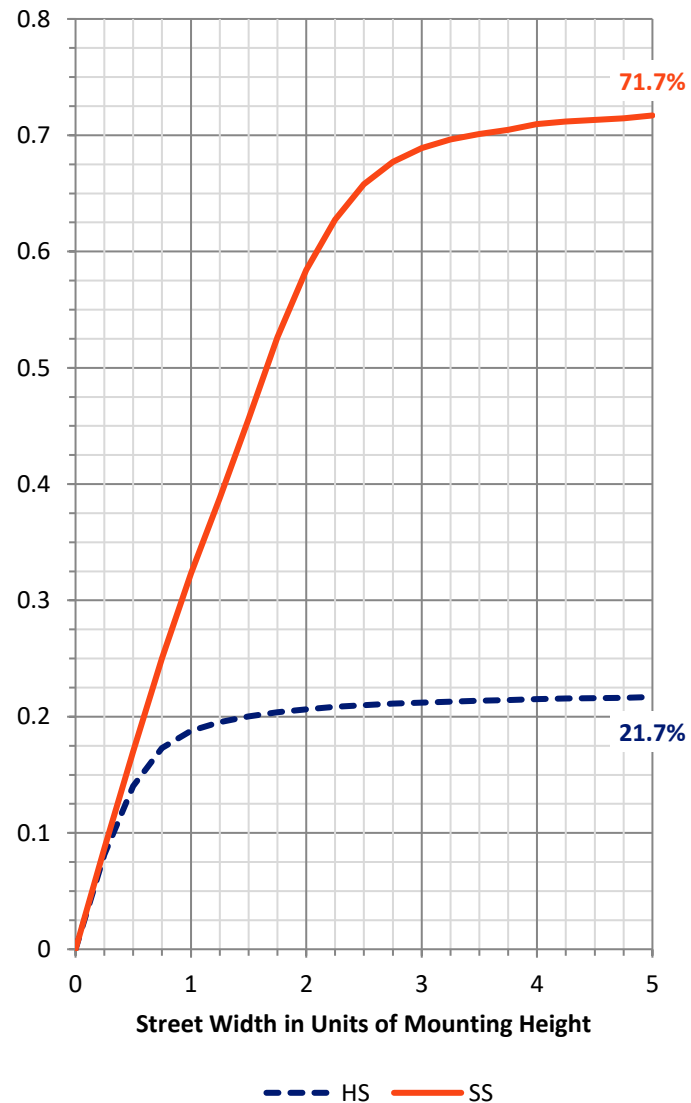
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 362.1    | 51.1   | 413.1  |
|                    | % Fixture | 22.0     | 3.1    | 25.1   |
| <b>Street Side</b> | Lumens    | 1183.0   | 51.1   | 1234.1 |
|                    | % Fixture | 71.8     | 3.1    | 74.9   |
| <b>Total</b>       | Lumens    | 1545.1   | 102.1  | 1647.2 |
|                    | % Fixture | 93.8     | 6.2    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 31.0   | 1.9       |
| 10°-20°   | 83.5   | 5.1       |
| 20°-30°   | 120.3  | 7.3       |
| 30°-40°   | 153.5  | 9.3       |
| 40°-50°   | 181.2  | 11.0      |
| 50°-60°   | 290.6  | 17.6      |
| 60°-70°   | 489.1  | 29.7      |
| 70°-80°   | 181.9  | 11.0      |
| 80°-90°   | 13.8   | 0.8       |
| 90°-100°  | 0.4    | 0.0       |
| 100°-110° | 4.0    | 0.2       |
| 110°-120° | 8.2    | 0.5       |
| 120°-130° | 13.9   | 0.8       |
| 130°-140° | 19.4   | 1.2       |
| 140°-150° | 21.2   | 1.3       |
| 150°-160° | 18.4   | 1.1       |
| 160°-170° | 12.4   | 0.8       |
| 170°-180° | 4.3    | 0.3       |
| 0°-90°    | 1545.1 | 93.8      |
| 0°-180°   | 1647.2 | 100.0     |

**Coefficient of Utilization**



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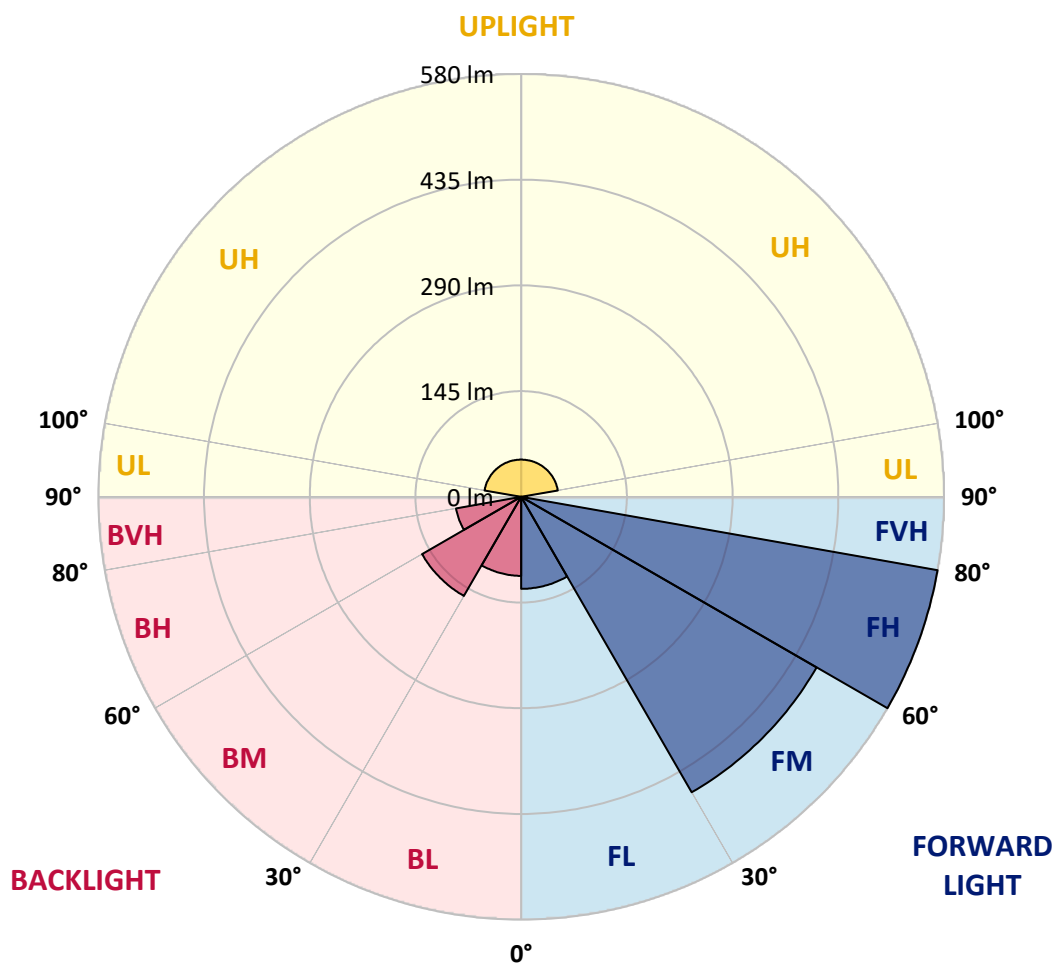
CATALOG NUMBER: ENV-EXX-LED-E1-BL4-7030-ULG-BBB

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |        |        |
|------|-------------|--------|-----------|-------------------------|--------|--------|
|      |             |        |           | B                       | U      | G      |
| FL   | (0°-30°)    | 126.3  | 7.7       |                         |        |        |
| FM   | (30°-60°)   | 468.2  | 28.4      |                         |        |        |
| FH   | (60°-80°)   | 580.3  | 35.2      |                         |        | G0/660 |
| FVH  | (80°-90°)   | 8.2    | 0.5       |                         |        | G0/10  |
| BL   | (0°-30°)    | 108.5  | 6.6       | B0/110                  |        |        |
| BM   | (30°-60°)   | 157.2  | 9.5       | B0/220                  |        |        |
| BH   | (60°-80°)   | 90.7   | 5.5       | B0/110                  |        | G0/110 |
| BVH  | (80°-90°)   | 5.6    | 0.3       |                         |        | G0/10  |
| UL   | (90°-100°)  | 0.4    | 0.0       |                         | U1/10  |        |
| UH   | (100°-180°) | 51.1   | 3.1       |                         | 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°     | 333.9  | 333.9  | 333.9  | 333.9  | 333.9  | 333.9  | 333.9 | 333.9 | 333.9 | 333.9 | 333.9 |
| 2.5°   | 329.1  | 329.1  | 329.7  | 329.7  | 330.6  | 331.2  | 330.6 | 331.8 | 331.8 | 331.5 | 332.1 |
| 5°     | 324.4  | 324.4  | 324.7  | 324.7  | 325.3  | 326.2  | 325.6 | 326.8 | 326.4 | 326.8 | 326.8 |
| 7.5°   | 318.8  | 318.8  | 319.4  | 319.1  | 319.4  | 319.9  | 318.5 | 319.4 | 319.4 | 319.7 | 319.4 |
| 10°    | 311.7  | 312.3  | 312.9  | 312.6  | 312.6  | 312.9  | 310.5 | 311.4 | 311.1 | 311.1 | 310.8 |
| 12.5°  | 305.2  | 304.6  | 305.2  | 305.8  | 305.5  | 305.5  | 303.1 | 302.5 | 302.5 | 302.5 | 302.8 |
| 15°    | 298.4  | 299.0  | 299.8  | 299.0  | 298.4  | 297.2  | 294.8 | 294.2 | 294.2 | 294.2 | 294.5 |
| 17.5°  | 296.9  | 296.9  | 297.5  | 296.6  | 294.2  | 291.9  | 287.1 | 286.2 | 286.2 | 285.9 | 285.9 |
| 20°    | 301.0  | 300.7  | 301.6  | 299.8  | 294.5  | 288.3  | 280.9 | 279.4 | 279.4 | 279.4 | 279.1 |
| 22.5°  | 309.6  | 309.6  | 311.1  | 309.0  | 300.5  | 288.6  | 277.7 | 275.3 | 275.0 | 274.7 | 274.1 |
| 25°    | 326.2  | 325.9  | 326.8  | 321.4  | 309.0  | 292.5  | 276.8 | 273.2 | 272.9 | 272.3 | 271.8 |
| 27.5°  | 345.4  | 346.0  | 347.8  | 339.8  | 321.4  | 299.3  | 280.6 | 274.7 | 274.1 | 273.2 | 272.1 |
| 30°    | 364.3  | 366.1  | 369.3  | 360.8  | 335.6  | 307.8  | 286.5 | 279.7 | 278.6 | 277.4 | 275.3 |
| 32.5°  | 388.3  | 387.7  | 393.0  | 380.0  | 348.0  | 317.0  | 292.7 | 284.5 | 283.0 | 281.2 | 278.6 |
| 35°    | 413.7  | 414.9  | 416.1  | 395.1  | 358.4  | 324.4  | 296.6 | 287.1 | 285.4 | 283.6 | 279.7 |
| 37.5°  | 439.1  | 439.4  | 436.8  | 407.2  | 364.6  | 328.8  | 298.7 | 287.7 | 285.4 | 282.7 | 278.3 |
| 40°    | 462.5  | 461.6  | 453.6  | 416.4  | 368.2  | 331.2  | 299.5 | 286.5 | 283.6 | 280.9 | 275.9 |
| 42.5°  | 475.8  | 474.9  | 464.9  | 420.5  | 368.4  | 330.9  | 299.5 | 285.4 | 282.1 | 278.9 | 273.2 |
| 45°    | 481.4  | 480.8  | 469.3  | 421.1  | 366.4  | 329.1  | 297.8 | 284.2 | 280.9 | 277.9 | 272.1 |
| 47.5°  | 482.0  | 482.0  | 470.2  | 420.2  | 364.6  | 327.9  | 297.8 | 285.7 | 283.0 | 280.6 | 276.2 |
| 50°    | 479.3  | 479.7  | 470.5  | 422.6  | 366.1  | 330.6  | 300.7 | 289.2 | 286.5 | 284.2 | 279.1 |
| 52.5°  | 510.7  | 507.7  | 487.3  | 433.2  | 375.9  | 339.2  | 310.8 | 300.5 | 299.5 | 298.1 | 294.2 |
| 55°    | 750.2  | 752.6  | 641.1  | 499.8  | 416.9  | 383.2  | 371.4 | 369.3 | 375.9 | 378.2 | 378.2 |
| 57.5°  | 952.5  | 944.8  | 902.8  | 729.2  | 545.3  | 504.8  | 509.5 | 514.5 | 524.0 | 528.1 | 531.1 |
| 60°    | 1001.8 | 1002.5 | 1001.3 | 951.9  | 804.9  | 712.7  | 689.6 | 667.7 | 666.8 | 659.1 | 653.2 |
| 62.5°  | 996.0  | 1000.7 | 1022.9 | 1034.1 | 1048.6 | 980.9  | 840.1 | 779.5 | 767.7 | 753.2 | 732.5 |
| 65°    | 953.1  | 960.1  | 995.7  | 1050.3 | 1175.2 | 1230.7 | 941.5 | 833.0 | 814.7 | 797.2 | 762.3 |
| 67.5°  | 812.0  | 827.4  | 895.4  | 998.6  | 1190.2 | 1331.0 | 958.1 | 807.0 | 782.7 | 760.0 | 718.6 |
| 70°    | 501.2  | 509.2  | 614.2  | 805.8  | 1078.5 | 1213.6 | 870.0 | 684.9 | 654.1 | 625.1 | 568.7 |
| 72.5°  | 323.5  | 320.8  | 338.6  | 453.9  | 792.5  | 943.0  | 598.2 | 455.4 | 430.2 | 407.2 | 370.8 |
| 75°    | 226.5  | 226.8  | 218.8  | 216.5  | 367.6  | 584.0  | 270.9 | 194.6 | 183.3 | 178.6 | 170.9 |
| 77.5°  | 147.6  | 149.3  | 147.2  | 152.9  | 147.2  | 242.8  | 124.5 | 91.4  | 86.9  | 84.0  | 79.3  |
| 80°    | 89.0   | 94.9   | 96.7   | 97.9   | 99.4   | 91.7   | 73.9  | 53.8  | 48.5  | 43.5  | 35.8  |
| 82.5°  | 15.7   | 15.4   | 21.3   | 28.7   | 37.6   | 42.9   | 31.0  | 19.5  | 18.3  | 17.7  | 16.3  |
| 85°    | 0.0    | 0.0    | 0.3    | 0.3    | 0.6    | 2.1    | 3.2   | 3.9   | 3.6   | 3.9   | 4.1   |
| 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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**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°     | 333.9 | 333.9 | 333.9 | 333.9 | 333.9 | 333.9 | 333.9 | 333.9 | 333.9 | 333.9 | 333.9 |
| 2.5°   | 332.1 | 331.8 | 331.5 | 331.5 | 332.1 | 332.1 | 331.8 | 331.8 | 332.1 | 331.8 | 332.4 |
| 5°     | 327.1 | 326.8 | 326.8 | 326.4 | 326.8 | 327.1 | 326.8 | 326.8 | 327.1 | 326.8 | 327.4 |
| 7.5°   | 319.1 | 319.4 | 319.1 | 319.1 | 319.4 | 319.7 | 319.4 | 319.4 | 319.4 | 319.4 | 319.1 |
| 10°    | 310.8 | 310.8 | 310.5 | 310.5 | 311.1 | 310.8 | 310.5 | 310.5 | 310.8 | 311.1 | 310.5 |
| 12.5°  | 302.5 | 303.1 | 303.1 | 301.9 | 302.2 | 302.5 | 302.5 | 302.2 | 302.2 | 303.1 | 302.2 |
| 15°    | 294.2 | 294.5 | 294.2 | 294.5 | 293.9 | 293.7 | 293.9 | 293.9 | 293.3 | 293.0 | 293.0 |
| 17.5°  | 285.9 | 285.7 | 285.7 | 285.1 | 284.8 | 284.8 | 284.5 | 284.8 | 284.2 | 284.5 | 283.6 |
| 20°    | 278.6 | 278.3 | 277.9 | 277.9 | 277.1 | 277.1 | 277.1 | 276.8 | 276.2 | 276.2 | 275.9 |
| 22.5°  | 274.1 | 273.8 | 273.5 | 272.9 | 272.6 | 272.3 | 272.3 | 272.1 | 271.5 | 271.2 | 270.9 |
| 25°    | 271.8 | 271.5 | 270.9 | 270.3 | 270.0 | 269.7 | 269.7 | 269.4 | 268.8 | 268.2 | 267.9 |
| 27.5°  | 272.1 | 271.5 | 270.9 | 270.3 | 270.0 | 269.4 | 269.1 | 268.8 | 268.2 | 267.6 | 267.0 |
| 30°    | 274.7 | 273.5 | 272.3 | 271.5 | 270.6 | 269.7 | 269.1 | 268.8 | 267.9 | 267.0 | 266.1 |
| 32.5°  | 277.4 | 275.9 | 274.1 | 272.3 | 270.9 | 269.4 | 268.5 | 267.6 | 266.4 | 265.0 | 264.1 |
| 35°    | 278.3 | 276.5 | 273.8 | 272.3 | 270.3 | 268.5 | 267.0 | 265.8 | 263.8 | 262.0 | 260.5 |
| 37.5°  | 276.2 | 274.1 | 271.5 | 269.4 | 267.3 | 265.0 | 263.2 | 261.4 | 259.9 | 257.8 | 256.4 |
| 40°    | 272.9 | 270.6 | 267.9 | 265.0 | 262.9 | 260.5 | 258.8 | 257.3 | 255.2 | 253.4 | 252.2 |
| 42.5°  | 270.3 | 267.6 | 264.6 | 262.3 | 259.9 | 257.6 | 255.5 | 254.0 | 252.0 | 249.9 | 248.4 |
| 45°    | 269.4 | 266.7 | 264.4 | 261.4 | 259.0 | 257.3 | 255.5 | 253.4 | 251.7 | 249.9 | 248.1 |
| 47.5°  | 274.1 | 271.8 | 269.4 | 267.0 | 265.0 | 262.9 | 261.1 | 259.0 | 257.0 | 254.6 | 252.8 |
| 50°    | 276.8 | 274.1 | 272.1 | 269.4 | 267.0 | 265.0 | 263.2 | 261.1 | 259.6 | 257.3 | 255.5 |
| 52.5°  | 296.0 | 292.5 | 293.0 | 290.7 | 290.7 | 288.3 | 290.1 | 287.4 | 288.9 | 287.1 | 289.8 |
| 55°    | 377.3 | 378.5 | 385.9 | 387.1 | 390.0 | 389.7 | 391.5 | 399.2 | 396.3 | 392.4 | 393.6 |
| 57.5°  | 523.1 | 525.8 | 529.6 | 526.1 | 528.7 | 529.3 | 534.3 | 532.3 | 530.5 | 529.3 | 525.5 |
| 60°    | 649.7 | 646.1 | 640.5 | 633.7 | 631.0 | 628.1 | 623.0 | 623.0 | 616.5 | 614.5 | 609.5 |
| 62.5°  | 723.9 | 713.5 | 706.4 | 695.5 | 687.8 | 682.5 | 673.6 | 666.8 | 657.9 | 651.2 | 643.2 |
| 65°    | 748.1 | 730.7 | 718.3 | 704.7 | 692.6 | 681.0 | 668.3 | 658.5 | 647.6 | 640.2 | 627.5 |
| 67.5°  | 701.1 | 683.4 | 662.4 | 647.9 | 635.2 | 620.7 | 600.9 | 588.8 | 579.3 | 565.1 | 558.9 |
| 70°    | 545.9 | 527.2 | 500.9 | 493.8 | 474.3 | 451.8 | 431.7 | 419.6 | 405.7 | 396.0 | 385.6 |
| 72.5°  | 346.3 | 325.3 | 313.8 | 305.2 | 292.5 | 273.8 | 256.4 | 249.3 | 237.2 | 234.5 | 227.7 |
| 75°    | 162.6 | 148.4 | 145.5 | 143.4 | 129.5 | 126.9 | 121.5 | 119.2 | 113.5 | 110.6 | 109.4 |
| 77.5°  | 72.7  | 69.5  | 64.2  | 62.7  | 58.2  | 53.8  | 48.5  | 46.1  | 43.2  | 41.4  | 39.0  |
| 80°    | 33.1  | 29.9  | 27.8  | 26.3  | 25.7  | 24.2  | 23.1  | 22.2  | 21.3  | 21.3  | 19.8  |
| 82.5°  | 16.0  | 15.4  | 14.8  | 14.8  | 13.9  | 13.9  | 13.0  | 12.7  | 12.4  | 12.1  | 12.1  |
| 85°    | 4.4   | 4.4   | 4.4   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 5.0   | 5.0   |
| 87.5°  | 0.6   | 0.6   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   |
| 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: P173736

CATALOG NUMBER: ENV-EXX-LED-E1-BL4-7030-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 |

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CATALOG NUMBER: ENV-EXX-LED-E1-BL4-7030-ULG-BBB

**CANDELA DISTRIBUTION (continued):**

|        | 76°   | 77°   | 78°   | 79°   | 80°   | 81°   | 82°   | 83°   | 84°   | 85°   | 86°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 333.9 | 333.9 | 333.9 | 333.9 | 333.9 | 333.9 | 333.9 | 333.9 | 333.9 | 333.9 | 333.9 |
| 2.5°   | 332.1 | 332.1 | 332.1 | 332.7 | 332.4 | 333.2 | 333.2 | 333.2 | 333.9 | 334.2 | 333.9 |
| 5°     | 327.4 | 327.4 | 327.4 | 327.6 | 327.6 | 328.2 | 328.2 | 328.8 | 328.8 | 329.1 | 329.1 |
| 7.5°   | 319.7 | 319.9 | 319.9 | 320.6 | 320.3 | 320.6 | 320.6 | 321.4 | 321.4 | 321.7 | 321.7 |
| 10°    | 310.8 | 311.1 | 311.1 | 311.1 | 311.4 | 311.7 | 311.7 | 312.3 | 312.6 | 312.6 | 313.1 |
| 12.5°  | 302.5 | 302.2 | 302.5 | 302.2 | 303.1 | 303.1 | 303.4 | 303.1 | 303.4 | 303.7 | 304.0 |
| 15°    | 293.3 | 293.3 | 293.0 | 293.3 | 293.3 | 293.0 | 292.7 | 293.0 | 293.7 | 293.7 | 293.7 |
| 17.5°  | 284.2 | 283.3 | 283.3 | 283.3 | 283.0 | 282.4 | 283.0 | 282.7 | 282.7 | 283.0 | 282.7 |
| 20°    | 275.6 | 275.3 | 275.0 | 274.7 | 274.4 | 273.5 | 273.5 | 273.5 | 273.2 | 273.2 | 273.2 |
| 22.5°  | 270.3 | 270.0 | 269.7 | 269.4 | 268.2 | 267.6 | 267.3 | 267.0 | 266.4 | 266.1 | 265.8 |
| 25°    | 267.3 | 266.7 | 266.1 | 265.5 | 264.6 | 263.8 | 262.9 | 262.6 | 262.0 | 261.4 | 260.5 |
| 27.5°  | 266.4 | 265.8 | 264.6 | 264.1 | 262.9 | 262.0 | 261.1 | 260.2 | 259.3 | 258.5 | 257.6 |
| 30°    | 265.0 | 264.1 | 262.9 | 262.0 | 261.1 | 259.6 | 258.5 | 257.6 | 256.1 | 255.2 | 254.0 |
| 32.5°  | 262.9 | 261.7 | 260.5 | 259.3 | 258.2 | 256.7 | 255.2 | 254.0 | 252.8 | 251.7 | 250.2 |
| 35°    | 259.3 | 257.8 | 256.1 | 254.9 | 253.4 | 252.0 | 250.8 | 248.7 | 247.8 | 246.3 | 244.9 |
| 37.5°  | 254.6 | 253.1 | 251.7 | 250.2 | 248.4 | 247.2 | 245.4 | 243.7 | 242.8 | 241.9 | 239.8 |
| 40°    | 250.5 | 248.7 | 247.2 | 246.0 | 244.0 | 243.1 | 241.3 | 239.5 | 238.4 | 237.4 | 235.7 |
| 42.5°  | 246.6 | 244.9 | 243.4 | 241.6 | 240.1 | 238.9 | 237.4 | 235.7 | 234.5 | 233.9 | 232.4 |
| 45°    | 246.6 | 244.5 | 242.8 | 241.3 | 239.8 | 238.4 | 237.2 | 235.4 | 234.5 | 233.3 | 232.4 |
| 47.5°  | 250.8 | 248.4 | 246.3 | 244.2 | 242.2 | 240.7 | 238.9 | 237.2 | 235.7 | 234.8 | 233.6 |
| 50°    | 253.7 | 251.3 | 250.2 | 247.8 | 246.6 | 244.5 | 242.5 | 241.6 | 240.1 | 239.2 | 238.9 |
| 52.5°  | 289.8 | 288.3 | 288.6 | 282.7 | 281.5 | 284.5 | 279.7 | 283.9 | 282.7 | 279.1 | 279.1 |
| 55°    | 400.4 | 399.8 | 402.5 | 395.1 | 391.8 | 397.7 | 400.1 | 391.5 | 393.6 | 393.6 | 393.0 |
| 57.5°  | 529.3 | 525.5 | 521.6 | 522.5 | 517.8 | 521.3 | 516.9 | 511.6 | 513.6 | 511.9 | 505.7 |
| 60°    | 606.2 | 603.8 | 598.2 | 592.9 | 587.9 | 583.1 | 579.0 | 574.3 | 571.9 | 567.7 | 563.3 |
| 62.5°  | 637.3 | 631.0 | 624.2 | 617.2 | 609.2 | 601.5 | 596.7 | 590.5 | 584.0 | 579.9 | 575.2 |
| 65°    | 620.7 | 611.5 | 604.1 | 593.8 | 585.2 | 575.7 | 569.5 | 562.4 | 556.5 | 549.4 | 543.5 |
| 67.5°  | 546.8 | 536.1 | 516.6 | 507.1 | 494.4 | 479.7 | 475.5 | 466.9 | 463.7 | 453.0 | 435.6 |
| 70°    | 372.3 | 361.6 | 349.8 | 330.6 | 318.2 | 305.5 | 291.6 | 281.5 | 280.0 | 271.5 | 258.8 |
| 72.5°  | 218.8 | 211.4 | 203.7 | 192.8 | 183.6 | 178.6 | 168.8 | 158.8 | 158.5 | 148.7 | 143.7 |
| 75°    | 103.5 | 99.7  | 92.0  | 89.3  | 81.0  | 80.4  | 74.2  | 73.0  | 74.2  | 71.3  | 70.7  |
| 77.5°  | 35.2  | 34.3  | 32.5  | 30.2  | 28.4  | 27.8  | 26.3  | 25.4  | 24.8  | 24.2  | 23.7  |
| 80°    | 19.2  | 18.6  | 18.3  | 17.5  | 16.9  | 16.5  | 15.7  | 15.4  | 15.1  | 14.8  | 14.5  |
| 82.5°  | 11.5  | 11.8  | 11.2  | 10.7  | 10.7  | 10.1  | 9.7   | 9.5   | 9.2   | 9.2   | 9.2   |
| 85°    | 4.7   | 5.0   | 4.7   | 4.4   | 4.1   | 4.4   | 4.4   | 4.1   | 3.9   | 4.1   | 4.1   |
| 87.5°  | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   |
| 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: P173736

REPORT N

CATALOG NUMBER: ENV-EXX-LED-E1-BL4-7030-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: P173736

NUMBER: ENV-EXX-LED-E1-BL4-7030-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°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|------|
| 333.9 | 333.9 | 333.9 | 333.9 | 333.9 | 333.9 | 333.9 | 333.9 | 333.9 | 333.9 | 333.9 | 112.5° | 6.9  |
| 333.2 | 333.0 | 333.0 | 332.7 | 332.4 | 333.0 | 333.6 | 334.4 | 333.9 | 334.4 | 334.7 | 115°   | 8.1  |
| 328.5 | 328.5 | 328.5 | 328.8 | 328.5 | 329.4 | 330.6 | 332.4 | 332.7 | 333.9 | 334.7 | 117.5° | 9.6  |
| 320.8 | 320.8 | 321.1 | 321.4 | 321.1 | 322.3 | 324.4 | 326.4 | 327.9 | 330.0 | 331.8 | 120°   | 11.3 |
| 312.0 | 312.0 | 312.0 | 312.0 | 312.3 | 313.8 | 315.2 | 317.6 | 319.9 | 323.2 | 325.9 | 122.5° | 13.2 |
| 304.0 | 303.1 | 303.4 | 304.0 | 303.4 | 303.4 | 304.9 | 306.6 | 308.1 | 312.3 | 317.0 | 125°   | 15.5 |
| 293.3 | 293.3 | 292.7 | 293.0 | 291.6 | 291.3 | 291.9 | 293.0 | 294.2 | 297.8 | 302.8 | 127.5° | 17.9 |
| 282.1 | 282.1 | 282.1 | 281.2 | 280.0 | 277.1 | 276.8 | 276.8 | 276.8 | 279.4 | 285.4 | 130°   | 20.4 |
| 272.1 | 272.1 | 271.5 | 270.9 | 268.2 | 263.2 | 259.0 | 257.3 | 256.7 | 261.1 | 263.8 | 132.5° | 22.8 |
| 265.0 | 264.6 | 263.5 | 262.9 | 258.8 | 250.8 | 244.2 | 239.2 | 237.7 | 239.2 | 240.1 | 135°   | 25.2 |
| 259.3 | 258.8 | 257.6 | 256.4 | 250.8 | 239.8 | 229.5 | 220.9 | 216.8 | 215.6 | 212.6 | 137.5° | 27.6 |
| 256.1 | 255.2 | 253.4 | 252.2 | 244.9 | 230.9 | 217.3 | 206.1 | 198.4 | 192.8 | 187.5 | 140°   | 29.9 |
| 252.5 | 251.0 | 249.3 | 247.5 | 239.2 | 223.8 | 208.2 | 194.3 | 180.7 | 170.9 | 163.2 | 142.5° | 32.1 |
| 248.4 | 246.9 | 245.2 | 243.4 | 234.2 | 217.3 | 200.8 | 183.6 | 164.7 | 151.4 | 139.9 | 145°   | 34.0 |
| 243.4 | 241.9 | 240.1 | 238.0 | 228.9 | 212.0 | 195.7 | 173.3 | 150.5 | 133.4 | 118.3 | 147.5° | 35.6 |
| 238.4 | 236.9 | 235.1 | 233.0 | 223.8 | 209.4 | 192.8 | 163.5 | 137.5 | 116.5 | 96.7  | 150°   | 37.3 |
| 234.5 | 233.0 | 231.2 | 229.5 | 221.2 | 208.2 | 191.3 | 155.2 | 126.0 | 99.9  | 77.2  | 152.5° | 38.8 |
| 231.2 | 229.8 | 228.3 | 226.5 | 219.4 | 208.8 | 188.1 | 148.2 | 114.7 | 83.4  | 60.6  | 155°   | 40.0 |
| 230.9 | 230.1 | 228.3 | 226.8 | 220.0 | 211.4 | 185.4 | 141.9 | 103.2 | 67.4  | 51.2  | 157.5° | 41.1 |
| 233.0 | 231.8 | 230.6 | 229.5 | 224.1 | 218.2 | 183.6 | 135.4 | 90.2  | 54.4  | 48.8  | 160°   | 42.2 |
| 238.0 | 236.9 | 236.3 | 235.7 | 232.4 | 227.4 | 183.6 | 128.6 | 75.1  | 47.9  | 48.5  | 162.5° | 43.2 |
| 278.6 | 275.3 | 274.4 | 276.8 | 267.9 | 242.8 | 184.8 | 120.3 | 58.9  | 45.8  | 48.8  | 165°   | 44.0 |
| 391.8 | 395.1 | 386.8 | 382.7 | 367.3 | 280.9 | 185.7 | 107.9 | 47.9  | 45.6  | 48.2  | 167.5° | 44.4 |
| 506.3 | 506.3 | 503.3 | 496.8 | 477.9 | 346.0 | 189.9 | 88.1  | 43.8  | 44.9  | 47.6  | 170°   | 44.5 |
| 562.1 | 558.6 | 555.6 | 551.8 | 523.1 | 391.2 | 196.1 | 65.0  | 42.0  | 44.6  | 47.0  | 172.5° | 44.9 |
| 572.2 | 566.6 | 562.7 | 557.7 | 519.6 | 393.6 | 198.7 | 48.8  | 40.2  | 44.6  | 45.6  | 175°   | 45.5 |
| 539.1 | 533.2 | 528.1 | 519.9 | 473.4 | 356.3 | 185.4 | 39.9  | 39.0  | 43.5  | 44.1  | 177.5° | 45.7 |
| 436.8 | 429.7 | 425.8 | 421.7 | 390.9 | 312.9 | 149.9 | 35.8  | 37.6  | 41.4  | 42.6  | 180°   | 45.6 |
| 249.9 | 242.2 | 237.7 | 238.6 | 220.0 | 247.5 | 119.8 | 32.8  | 35.5  | 39.0  | 40.8  |        |      |
| 134.6 | 126.3 | 123.6 | 115.0 | 98.2  | 124.8 | 92.3  | 30.2  | 32.8  | 35.5  | 37.3  |        |      |
| 66.5  | 63.6  | 64.5  | 60.3  | 51.2  | 38.4  | 59.4  | 26.9  | 29.3  | 31.9  | 33.1  |        |      |
| 23.1  | 22.5  | 22.2  | 21.9  | 21.3  | 20.4  | 27.2  | 23.1  | 25.1  | 27.2  | 28.4  |        |      |
| 14.2  | 13.9  | 14.2  | 13.9  | 13.6  | 15.7  | 17.5  | 18.3  | 20.1  | 22.8  | 23.1  |        |      |
| 8.6   | 8.6   | 8.6   | 8.6   | 8.6   | 10.9  | 12.4  | 14.2  | 15.7  | 17.5  | 18.9  |        |      |
| 4.1   | 4.1   | 4.1   | 4.1   | 4.4   | 7.4   | 8.3   | 10.4  | 10.9  | 12.4  | 13.6  |        |      |
| 0.9   | 0.9   | 0.9   | 0.9   | 1.2   | 3.9   | 5.0   | 6.2   | 6.5   | 6.5   | 7.4   |        |      |
| 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   |        |      |

'173736  
ENV-EXX-LED-E1-BL4-7030-ULG-BBB

REPORT NUMBER: P173736  
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°     | 333.9 | 333.9 |
| 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 2.5°   | 334.4 | 333.9 |
| 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 5°     | 335.3 | 334.7 |
| 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 7.5°   | 333.0 | 333.2 |
| 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 10°    | 327.9 | 328.8 |
| 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 12.5°  | 319.9 | 321.7 |
| 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 15°    | 306.6 | 309.3 |
| 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 17.5°  | 288.9 | 292.2 |
| 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 20°    | 266.7 | 268.2 |
| 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 22.5°  | 239.5 | 240.1 |
| 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 25°    | 210.8 | 210.8 |
| 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 27.5°  | 184.2 | 182.8 |
| 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 30°    | 158.8 | 155.0 |
| 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 32.5°  | 131.9 | 125.4 |
| 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35°    | 104.7 | 99.4  |
| 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.5°  | 81.3  | 75.4  |
| 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 40°    | 62.4  | 58.0  |
| 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 42.5°  | 52.6  | 51.7  |
| 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 45°    | 50.3  | 51.4  |
| 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 47.5°  | 50.6  | 52.0  |
| 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 50°    | 50.9  | 52.4  |
| 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 52.5°  | 50.9  | 51.7  |
| 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 55°    | 50.3  | 50.3  |
| 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 57.5°  | 49.1  | 48.8  |
| 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 60°    | 48.2  | 48.2  |
| 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 62.5°  | 46.7  | 46.7  |
| 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 65°    | 44.4  | 44.6  |
| 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 67.5°  | 42.0  | 42.0  |
|      |      |      |      |      |      |      |      |      |      | 70°    | 39.0  | 39.0  |
|      |      |      |      |      |      |      |      |      |      | 72.5°  | 36.1  | 37.3  |
|      |      |      |      |      |      |      |      |      |      | 75°    | 34.0  | 36.1  |
|      |      |      |      |      |      |      |      |      |      | 77.5°  | 29.9  | 31.9  |
|      |      |      |      |      |      |      |      |      |      | 80°    | 24.5  | 24.8  |
|      |      |      |      |      |      |      |      |      |      | 82.5°  | 19.5  | 18.9  |
|      |      |      |      |      |      |      |      |      |      | 85°    | 13.9  | 13.0  |
|      |      |      |      |      |      |      |      |      |      | 87.5°  | 7.4   | 7.1   |
|      |      |      |      |      |      |      |      |      |      | 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-BL4-7030-ULG-BBB

REPORT NUMBER: P173736

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

**tinued):**

| 180°  |
|-------|
| 333.9 |
| 333.6 |
| 334.4 |
| 333.0 |
| 329.1 |
| 322.9 |
| 308.7 |
| 292.2 |
| 267.3 |
| 239.2 |
| 209.7 |
| 181.9 |
| 153.8 |
| 125.4 |
| 97.9  |
| 73.6  |
| 57.7  |
| 52.0  |
| 51.4  |
| 52.4  |
| 52.6  |
| 51.7  |
| 50.3  |
| 49.4  |
| 48.2  |
| 46.7  |
| 44.6  |
| 42.0  |
| 39.6  |
| 37.8  |
| 37.0  |
| 33.1  |
| 24.8  |
| 18.0  |
| 13.0  |
| 7.4   |
| 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

