

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: P89400

Luminaire Tested: **ENV-BXX-LED-E1-GZW-BBB**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P89400  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P21327)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENV-BXX-LED-E1-GZW-BBB  
Description: ENTRI LED LUMINAIRE, EMERGENCY MODE  
LIGHTBARS WITH AccuLED OPTICS - WALL GRAZER WIDE  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1373.7 lumens  
Efficiency: N/A  
Efficacy: 249.8 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')  
IES Classification: Type I - Medium - Full Cutoff  
BUG Rating: B1 - U0 - 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



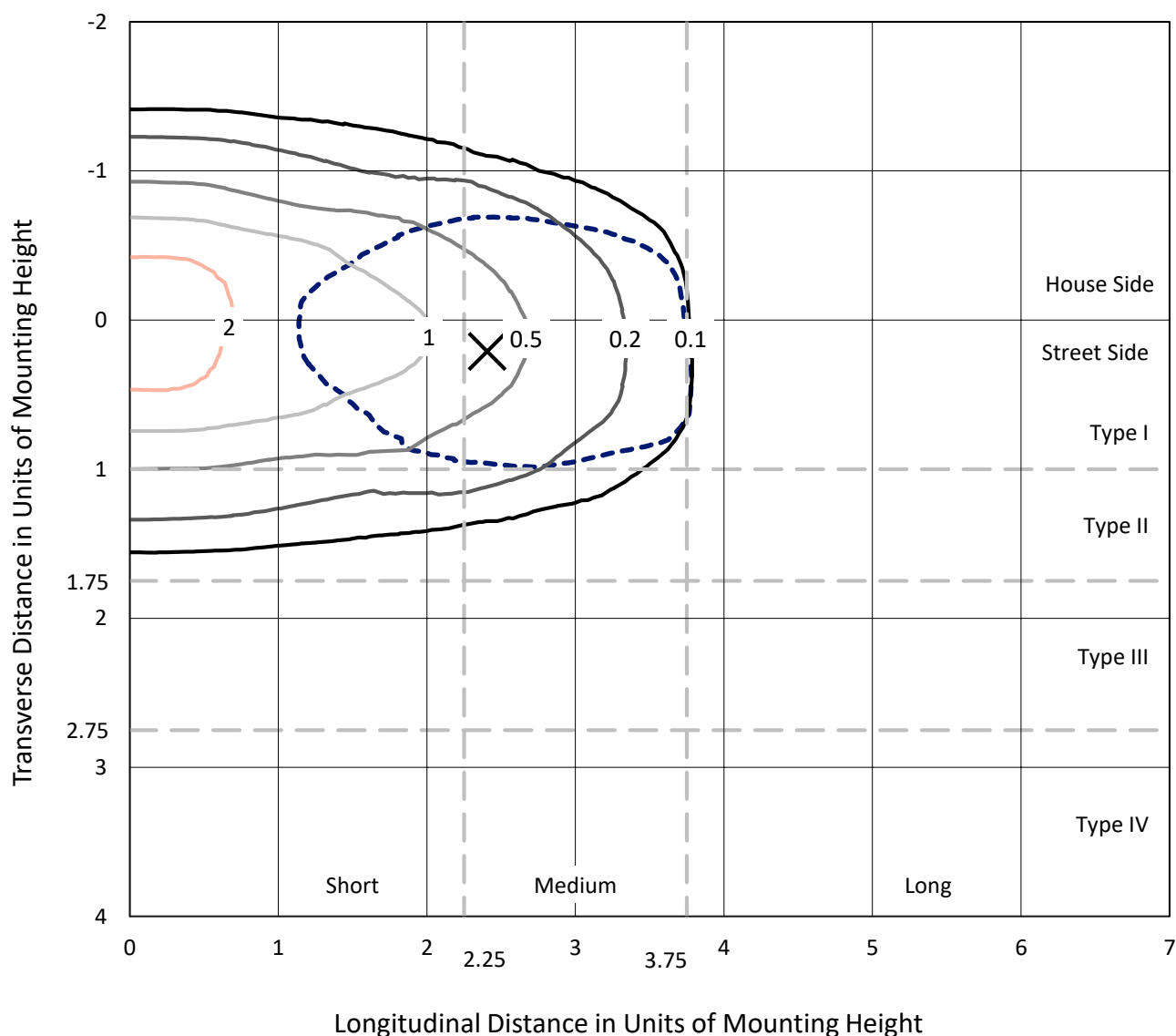
REPORT NUMBER: P89400

CATALOG NUMBER: ENV-BXX-LED-E1-GZW-BBB

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

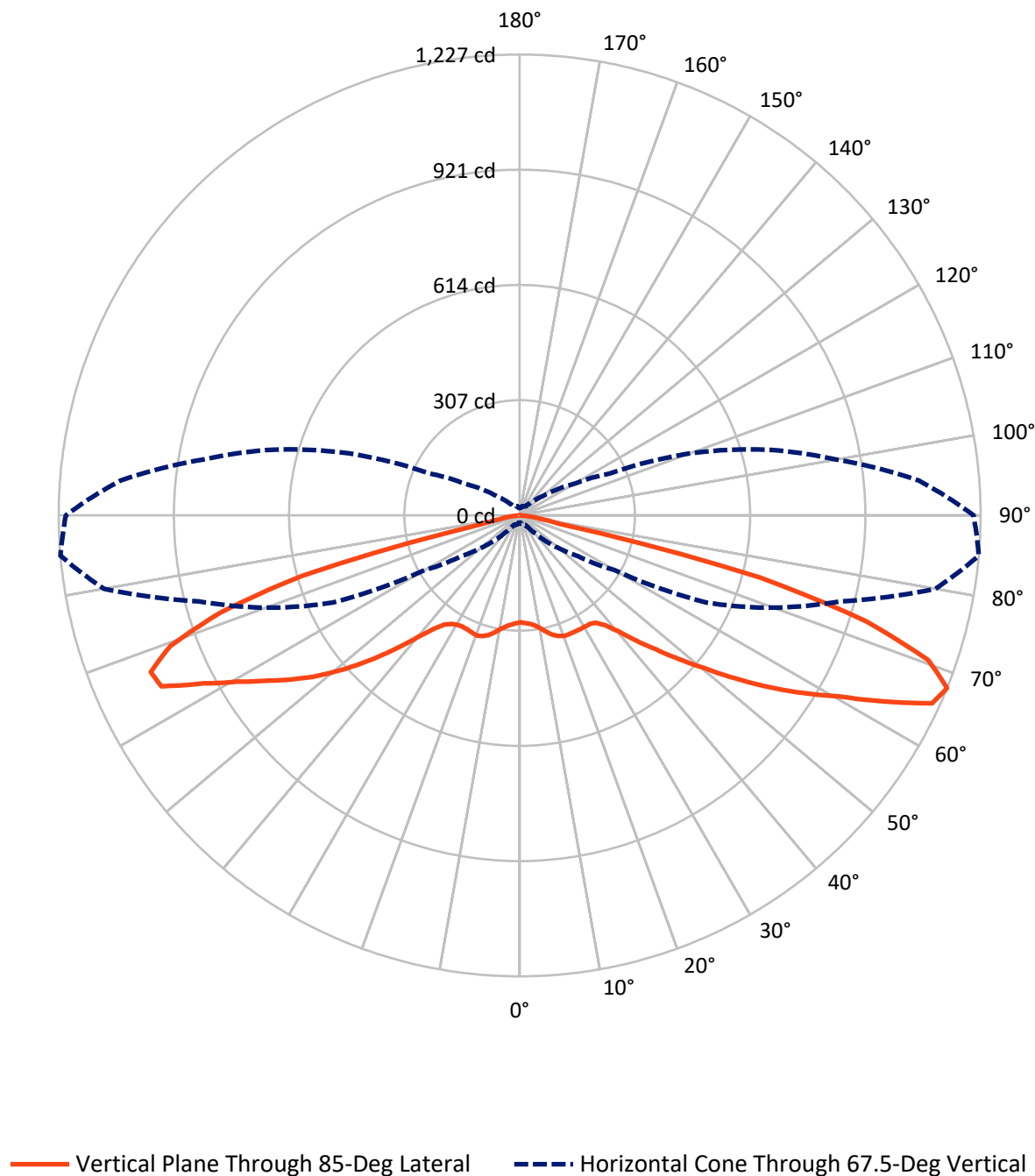


Based on 10 foot mounting height. Maximum calculated value = 3 fc  
 Type I - Medium - Full Cutoff

REPORT NUMBER: P89400

CATALOG NUMBER: ENV-BXX-LED-E1-GZW-BBB

## Luminous Intensity Polar Plot



REPORT NUMBER: P89400

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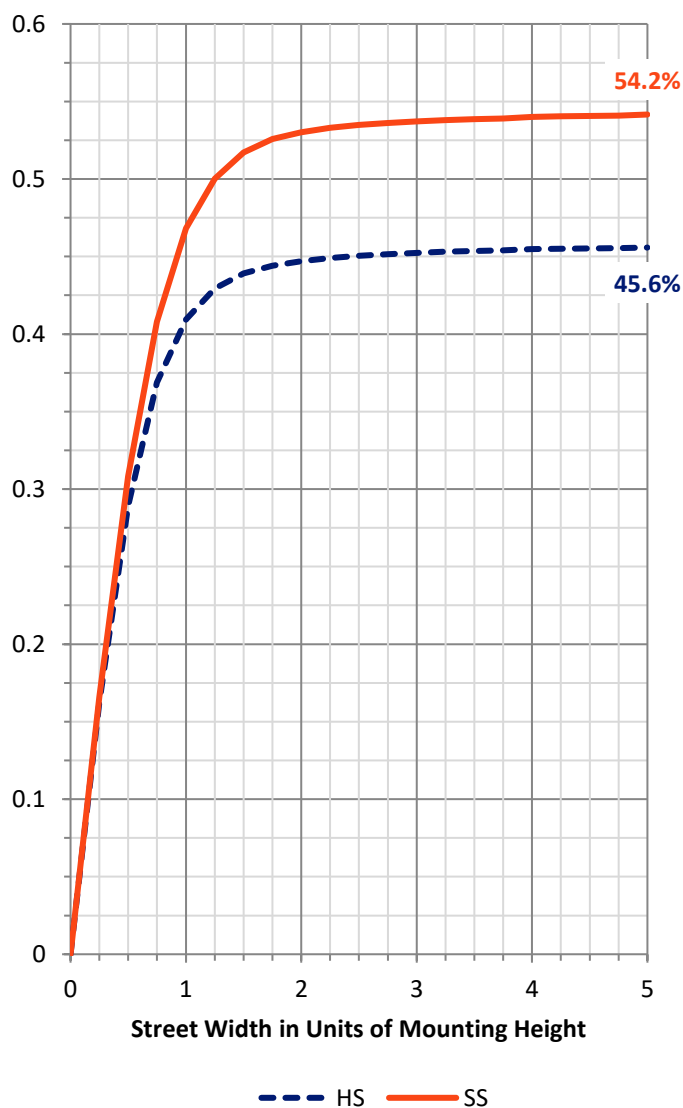
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 629.8    | 0.0    | 629.8  |
|                    | % Fixture | 45.8     | 0.0    | 45.8   |
| <b>Street Side</b> | Lumens    | 743.9    | 0.0    | 743.9  |
|                    | % Fixture | 54.2     | 0.0    | 54.2   |
| <b>Total</b>       | Lumens    | 1373.7   | 0.0    | 1373.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 27.8   | 2.0       |
| 10°-20°   | 87.1   | 6.3       |
| 20°-30°   | 141.5  | 10.3      |
| 30°-40°   | 178.6  | 13.0      |
| 40°-50°   | 222.1  | 16.2      |
| 50°-60°   | 267.5  | 19.5      |
| 60°-70°   | 293.3  | 21.3      |
| 70°-80°   | 142.4  | 10.4      |
| 80°-90°   | 13.3   | 1.0       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 1373.7 | 100.0     |
| 0°-180°   | 1373.7 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P89400

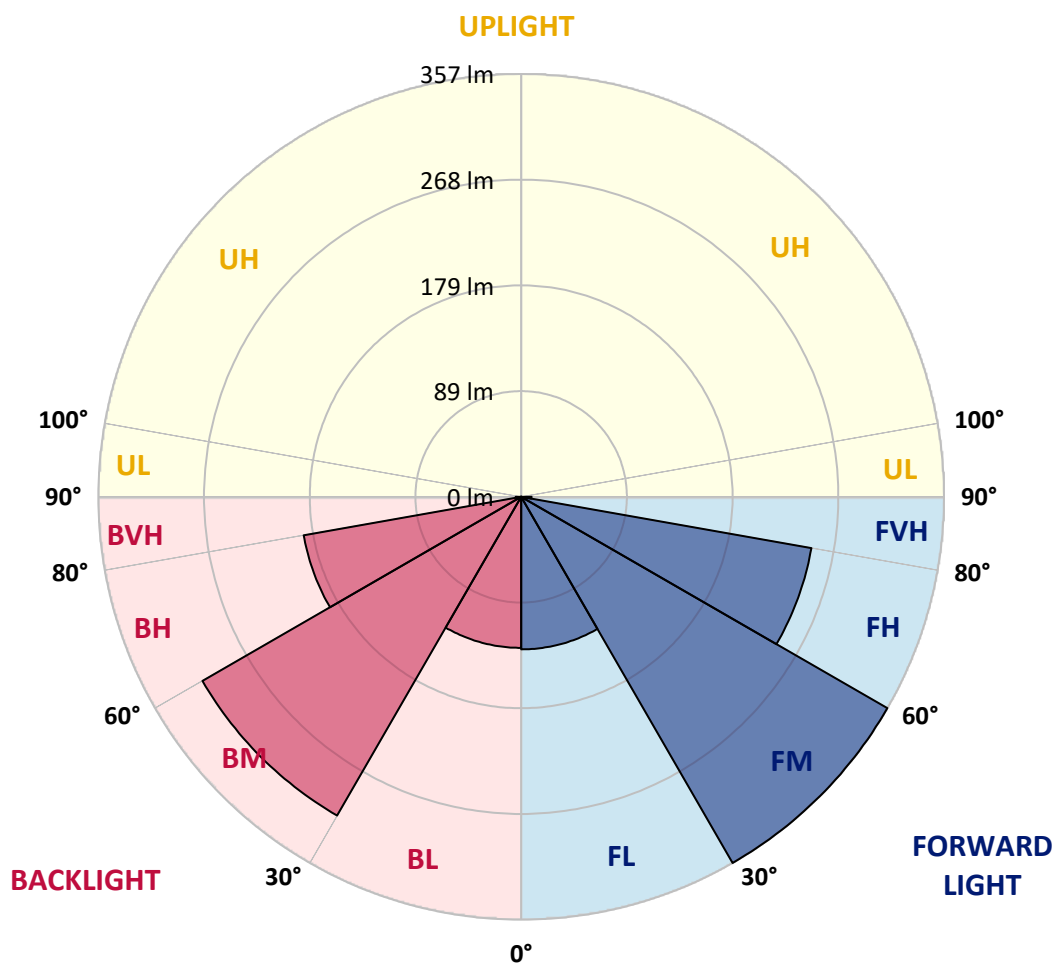
CATALOG NUMBER: ENV-BXX-LED-E1-GZW-BBB

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 128.9  | 9.4       |                         |      |        |
| FM   | (30°-60°)   | 357.3  | 26.0      |                         |      |        |
| FH   | (60°-80°)   | 249.1  | 18.1      |                         |      | G0/660 |
| FVH  | (80°-90°)   | 8.7    | 0.6       |                         |      | G0/10  |
| BL   | (0°-30°)    | 127.6  | 9.3       | B1/500                  |      |        |
| BM   | (30°-60°)   | 311.0  | 22.6      | B1/1000                 |      |        |
| BH   | (60°-80°)   | 186.6  | 13.6      | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 4.6    | 0.3       |                         |      | G0/10  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B1-U0-G1**

Type I Medium



REPORT NUMBER: P89400

CATALOG NUMBER: ENV-BXX-LED-E1-GZW-BBB

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 284.7 | 284.7 | 284.7 | 284.7 | 284.7 | 284.7 | 284.7 | 284.7 | 284.7 | 284.7 | 284.7 |
| 2.5°   | 281.5 | 282.4 | 282.4 | 282.4 | 283.1 | 283.9 | 282.7 | 284.3 | 284.3 | 284.7 | 285.1 |
| 5°     | 281.9 | 283.1 | 283.1 | 282.7 | 283.9 | 284.7 | 284.3 | 286.3 | 287.1 | 287.1 | 288.3 |
| 7.5°   | 282.7 | 283.1 | 283.6 | 283.1 | 284.7 | 285.1 | 285.9 | 287.9 | 289.9 | 291.1 | 291.9 |
| 10°    | 285.1 | 284.3 | 285.5 | 285.1 | 286.7 | 287.1 | 288.3 | 290.3 | 293.1 | 295.1 | 296.3 |
| 12.5°  | 285.1 | 283.9 | 285.1 | 285.5 | 287.1 | 289.1 | 289.1 | 291.5 | 295.5 | 298.7 | 301.5 |
| 15°    | 285.1 | 284.3 | 285.1 | 285.9 | 288.3 | 289.5 | 290.3 | 293.1 | 296.7 | 302.3 | 305.4 |
| 17.5°  | 286.3 | 286.7 | 287.1 | 288.3 | 291.1 | 292.7 | 295.1 | 297.5 | 301.1 | 307.8 | 310.6 |
| 20°    | 284.3 | 285.5 | 286.3 | 289.1 | 292.3 | 296.3 | 300.6 | 305.0 | 308.6 | 314.2 | 317.0 |
| 22.5°  | 279.1 | 281.5 | 281.9 | 286.3 | 291.1 | 296.3 | 304.2 | 310.6 | 315.4 | 319.8 | 321.0 |
| 25°    | 270.4 | 273.2 | 275.2 | 280.3 | 287.1 | 294.7 | 304.7 | 313.4 | 319.0 | 322.2 | 323.4 |
| 27.5°  | 258.8 | 260.8 | 263.2 | 268.8 | 277.2 | 289.1 | 303.0 | 313.8 | 319.4 | 323.4 | 325.3 |
| 30°    | 243.3 | 244.9 | 247.7 | 253.3 | 262.0 | 275.6 | 292.3 | 307.4 | 318.2 | 325.3 | 328.1 |
| 32.5°  | 225.0 | 227.0 | 229.8 | 235.8 | 244.9 | 258.5 | 274.8 | 291.9 | 309.0 | 325.3 | 331.7 |
| 35°    | 204.3 | 206.7 | 209.9 | 217.4 | 227.8 | 240.5 | 256.5 | 274.4 | 293.1 | 317.8 | 334.1 |
| 37.5°  | 187.2 | 189.1 | 193.2 | 200.3 | 211.9 | 225.4 | 240.9 | 258.5 | 278.4 | 305.0 | 330.9 |
| 40°    | 171.6 | 174.0 | 178.0 | 185.6 | 198.3 | 212.6 | 228.2 | 246.5 | 266.0 | 292.7 | 324.2 |
| 42.5°  | 156.5 | 158.5 | 162.5 | 170.4 | 183.6 | 200.7 | 216.6 | 236.2 | 256.9 | 282.7 | 315.4 |
| 45°    | 141.4 | 142.6 | 146.1 | 154.1 | 166.4 | 182.8 | 201.9 | 225.4 | 248.9 | 276.4 | 312.6 |
| 47.5°  | 126.2 | 127.4 | 130.2 | 137.0 | 149.3 | 166.1 | 183.2 | 207.5 | 236.9 | 270.8 | 309.4 |
| 50°    | 112.7 | 113.5 | 116.7 | 122.6 | 132.6 | 146.5 | 163.7 | 186.0 | 213.8 | 254.1 | 305.0 |
| 52.5°  | 97.6  | 98.7  | 102.0 | 107.5 | 116.7 | 130.2 | 145.4 | 163.7 | 190.3 | 227.8 | 287.5 |
| 55°    | 80.8  | 82.0  | 85.2  | 91.2  | 99.9  | 112.7 | 127.4 | 144.9 | 167.6 | 199.9 | 255.3 |
| 57.5°  | 60.5  | 62.5  | 65.7  | 71.7  | 80.5  | 93.6  | 108.3 | 127.0 | 149.3 | 176.0 | 219.4 |
| 60°    | 40.6  | 42.2  | 45.4  | 51.0  | 58.9  | 71.7  | 86.0  | 105.5 | 129.8 | 157.7 | 190.8 |
| 62.5°  | 28.3  | 28.7  | 31.5  | 35.8  | 40.6  | 49.4  | 61.3  | 81.2  | 107.9 | 137.8 | 171.6 |
| 65°    | 21.9  | 22.7  | 24.7  | 28.7  | 31.5  | 35.5  | 41.4  | 57.8  | 83.2  | 115.5 | 152.9 |
| 67.5°  | 19.1  | 19.9  | 21.9  | 24.3  | 25.9  | 27.5  | 29.5  | 38.2  | 59.7  | 93.2  | 135.4 |
| 70°    | 17.5  | 17.9  | 19.5  | 21.1  | 22.3  | 22.7  | 24.7  | 32.7  | 47.4  | 66.9  | 100.4 |
| 72.5°  | 15.9  | 16.7  | 17.5  | 18.7  | 19.5  | 19.9  | 21.5  | 27.5  | 35.5  | 46.2  | 62.9  |
| 75°    | 13.9  | 14.3  | 15.5  | 16.7  | 17.5  | 17.5  | 18.3  | 21.1  | 23.1  | 29.1  | 41.0  |
| 77.5°  | 11.9  | 12.3  | 13.5  | 14.3  | 16.7  | 15.5  | 15.1  | 16.7  | 17.9  | 21.1  | 27.9  |
| 80°    | 10.4  | 11.1  | 11.9  | 12.8  | 15.9  | 13.5  | 12.3  | 13.9  | 14.7  | 17.1  | 21.1  |
| 82.5°  | 9.2   | 9.6   | 10.0  | 10.7  | 15.5  | 11.6  | 10.0  | 11.6  | 13.1  | 13.1  | 15.9  |
| 85°    | 6.8   | 7.6   | 7.6   | 8.4   | 10.0  | 9.2   | 7.2   | 8.4   | 9.2   | 9.2   | 11.6  |
| 87.5°  | 3.2   | 3.2   | 3.2   | 3.2   | 2.4   | 3.6   | 3.2   | 4.0   | 4.4   | 3.6   | 4.8   |
| 90°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 92.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 95°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 97.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 100°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 102.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 105°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 107.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 110°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

REPORT NUMBER: P89400

CATALOG NUMBER: ENV-BXX-LED-E1-GZW-BBB

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P89400

CATALOG NUMBER: ENV-BXX-LED-E1-GZW-BBB

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°    | 85°    | 90°    | 95°    | 100°  | 105°  |
|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-------|-------|
| 0°     | 284.7 | 284.7 | 284.7 | 284.7 | 284.7 | 284.7  | 284.7  | 284.7  | 284.7  | 284.7 | 284.7 |
| 2.5°   | 285.5 | 286.3 | 286.3 | 287.5 | 288.3 | 286.7  | 287.1  | 290.3  | 287.5  | 287.9 | 289.9 |
| 5°     | 288.7 | 289.9 | 289.5 | 290.7 | 291.5 | 289.9  | 290.3  | 293.5  | 291.9  | 291.9 | 295.1 |
| 7.5°   | 292.7 | 294.7 | 294.7 | 295.5 | 297.1 | 296.3  | 295.9  | 298.3  | 297.5  | 297.5 | 299.9 |
| 10°    | 298.3 | 300.6 | 303.0 | 303.9 | 306.2 | 305.4  | 305.8  | 307.0  | 306.6  | 305.4 | 307.8 |
| 12.5°  | 303.9 | 308.6 | 312.6 | 314.2 | 317.4 | 317.4  | 318.2  | 319.0  | 318.2  | 316.2 | 316.2 |
| 15°    | 308.6 | 314.2 | 320.2 | 323.8 | 327.4 | 327.4  | 329.7  | 330.1  | 328.9  | 326.2 | 326.2 |
| 17.5°  | 312.6 | 317.8 | 325.3 | 330.5 | 334.1 | 336.1  | 337.7  | 338.9  | 336.1  | 332.9 | 333.3 |
| 20°    | 316.6 | 320.6 | 326.9 | 332.9 | 337.3 | 339.7  | 342.5  | 342.9  | 339.3  | 335.3 | 337.3 |
| 22.5°  | 319.4 | 319.8 | 324.2 | 330.9 | 336.9 | 338.5  | 342.5  | 343.3  | 336.9  | 334.1 | 336.1 |
| 25°    | 323.0 | 321.8 | 322.6 | 327.7 | 333.3 | 336.9  | 342.5  | 342.5  | 334.1  | 330.5 | 334.1 |
| 27.5°  | 325.7 | 325.7 | 326.2 | 325.7 | 332.5 | 336.1  | 343.3  | 342.9  | 332.9  | 330.9 | 336.9 |
| 30°    | 328.9 | 330.9 | 330.9 | 329.3 | 332.9 | 335.7  | 343.3  | 344.5  | 334.9  | 336.5 | 344.1 |
| 32.5°  | 335.3 | 336.1 | 335.7 | 334.5 | 334.5 | 334.1  | 344.1  | 346.8  | 340.9  | 345.3 | 352.8 |
| 35°    | 342.1 | 343.7 | 342.5 | 340.1 | 342.5 | 337.7  | 350.8  | 359.6  | 352.4  | 359.2 | 364.4 |
| 37.5°  | 346.1 | 351.2 | 354.0 | 351.6 | 356.0 | 355.2  | 371.2  | 379.9  | 377.5  | 379.9 | 379.1 |
| 40°    | 349.2 | 362.4 | 369.5 | 371.2 | 382.3 | 393.0  | 406.6  | 419.3  | 415.0  | 409.0 | 400.6 |
| 42.5°  | 351.6 | 373.1 | 388.3 | 394.6 | 422.5 | 447.2  | 456.0  | 466.7  | 464.7  | 446.8 | 423.7 |
| 45°    | 350.8 | 384.3 | 407.4 | 428.1 | 467.1 | 504.6  | 509.3  | 518.9  | 520.1  | 487.8 | 449.2 |
| 47.5°  | 356.0 | 395.8 | 431.7 | 465.5 | 518.1 | 566.7  | 571.9  | 577.0  | 579.0  | 533.6 | 479.9 |
| 50°    | 360.8 | 412.6 | 457.6 | 502.6 | 568.3 | 628.0  | 641.1  | 641.5  | 638.4  | 578.6 | 510.5 |
| 52.5°  | 365.2 | 432.5 | 486.2 | 536.4 | 620.8 | 696.1  | 722.0  | 718.4  | 698.1  | 623.6 | 541.6 |
| 55°    | 356.4 | 451.2 | 516.9 | 569.9 | 671.8 | 770.2  | 808.4  | 800.8  | 752.7  | 664.2 | 571.1 |
| 57.5°  | 317.8 | 469.1 | 542.0 | 598.5 | 714.8 | 844.2  | 893.6  | 881.7  | 808.0  | 702.1 | 598.9 |
| 60°    | 273.6 | 452.0 | 569.5 | 628.8 | 763.0 | 921.1  | 978.8  | 970.9  | 872.5  | 745.5 | 624.8 |
| 62.5°  | 224.2 | 391.8 | 600.5 | 664.7 | 816.0 | 1014.7 | 1091.5 | 1088.0 | 952.6  | 797.7 | 666.2 |
| 65°    | 201.9 | 336.9 | 604.9 | 698.9 | 862.6 | 1111.9 | 1206.6 | 1196.3 | 1056.9 | 848.6 | 683.8 |
| 67.5°  | 188.4 | 291.5 | 548.7 | 718.0 | 883.7 | 1124.2 | 1227.4 | 1208.6 | 1066.9 | 855.8 | 677.0 |
| 70°    | 149.3 | 229.4 | 416.9 | 657.9 | 810.8 | 1057.3 | 1154.1 | 1132.2 | 992.8  | 778.9 | 591.0 |
| 72.5°  | 90.8  | 145.8 | 264.8 | 526.5 | 681.8 | 918.3  | 965.3  | 935.8  | 837.9  | 653.9 | 453.6 |
| 75°    | 60.1  | 86.0  | 142.6 | 348.9 | 521.3 | 682.9  | 661.9  | 615.3  | 598.9  | 499.8 | 293.5 |
| 77.5°  | 42.2  | 65.7  | 83.6  | 145.4 | 151.7 | 121.9  | 110.3  | 106.3  | 99.9   | 93.2  | 78.1  |
| 80°    | 30.3  | 51.8  | 56.9  | 89.2  | 69.7  | 58.5   | 57.3   | 56.1   | 51.0   | 45.0  | 53.7  |
| 82.5°  | 24.3  | 41.0  | 43.0  | 70.1  | 50.6  | 40.2   | 39.8   | 40.2   | 36.2   | 31.0  | 39.0  |
| 85°    | 18.3  | 32.2  | 27.9  | 41.8  | 27.5  | 19.5   | 17.9   | 17.9   | 14.7   | 12.8  | 15.9  |
| 87.5°  | 7.2   | 10.4  | 17.5  | 25.1  | 13.5  | 2.0    | 3.6    | 0.8    | 0.4    | 0.4   | 0.4   |
| 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°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   |
| 97.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   |
| 100°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   |
| 102.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   |
| 105°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   |
| 107.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   |
| 110°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   |

REPORT NUMBER: P89400

CATALOG NUMBER: ENV-BXX-LED-E1-GZW-BBB

**CANDELA DISTRIBUTION (continued):**

|        | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 115°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 120°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 125°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 130°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 135°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 140°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 145°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 150°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 155°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 180°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |

REPORT NUMBER: P89400

CATALOG NUMBER: ENV-BXX-LED-E1-GZW-BBB

**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 284.7 | 284.7 | 284.7 | 284.7 | 284.7 | 284.7 | 284.7 | 284.7 | 284.7 | 284.7 | 284.7 |
| 2.5°   | 290.7 | 289.5 | 288.3 | 288.7 | 287.5 | 287.9 | 289.1 | 286.3 | 285.9 | 286.7 | 286.7 |
| 5°     | 295.1 | 294.7 | 292.3 | 291.5 | 290.7 | 291.9 | 291.9 | 289.5 | 287.9 | 289.1 | 289.5 |
| 7.5°   | 299.5 | 298.7 | 297.1 | 295.9 | 295.1 | 296.3 | 295.1 | 293.9 | 291.9 | 292.3 | 293.1 |
| 10°    | 305.8 | 305.8 | 303.5 | 302.3 | 301.1 | 301.1 | 300.3 | 297.5 | 295.9 | 295.5 | 295.9 |
| 12.5°  | 315.8 | 314.6 | 311.4 | 309.4 | 307.4 | 305.8 | 304.2 | 300.6 | 298.7 | 297.9 | 297.9 |
| 15°    | 324.5 | 323.4 | 319.4 | 316.6 | 314.6 | 311.0 | 309.0 | 305.0 | 301.5 | 298.7 | 296.7 |
| 17.5°  | 331.7 | 330.9 | 327.4 | 324.5 | 322.6 | 317.8 | 313.8 | 307.8 | 301.5 | 296.3 | 292.3 |
| 20°    | 336.9 | 337.7 | 334.9 | 333.7 | 329.7 | 323.4 | 315.8 | 307.0 | 297.9 | 290.7 | 284.3 |
| 22.5°  | 336.9 | 340.9 | 340.9 | 338.5 | 332.5 | 324.5 | 314.6 | 302.7 | 289.9 | 280.8 | 273.2 |
| 25°    | 338.1 | 342.9 | 342.9 | 339.7 | 331.7 | 322.2 | 308.6 | 294.3 | 278.8 | 268.0 | 259.2 |
| 27.5°  | 342.1 | 343.7 | 341.3 | 336.5 | 327.4 | 315.4 | 298.3 | 281.9 | 264.8 | 251.7 | 242.5 |
| 30°    | 347.3 | 345.3 | 340.1 | 331.3 | 318.6 | 303.5 | 284.3 | 265.6 | 248.1 | 234.1 | 225.4 |
| 32.5°  | 352.0 | 346.8 | 338.5 | 325.3 | 307.0 | 287.9 | 266.8 | 248.9 | 232.6 | 218.2 | 207.9 |
| 35°    | 360.0 | 351.2 | 339.3 | 319.4 | 294.7 | 272.8 | 252.9 | 235.3 | 217.8 | 201.9 | 191.1 |
| 37.5°  | 371.2 | 356.8 | 338.9 | 313.4 | 284.3 | 261.6 | 241.7 | 223.4 | 204.7 | 188.4 | 176.8 |
| 40°    | 385.1 | 364.4 | 339.3 | 306.6 | 276.4 | 252.1 | 230.2 | 210.3 | 191.1 | 175.2 | 161.7 |
| 42.5°  | 400.2 | 372.7 | 340.9 | 302.3 | 269.2 | 240.1 | 215.9 | 194.3 | 174.0 | 157.7 | 145.4 |
| 45°    | 418.5 | 385.1 | 343.7 | 298.3 | 258.8 | 223.4 | 195.1 | 174.4 | 157.7 | 144.2 | 131.8 |
| 47.5°  | 441.2 | 399.4 | 347.7 | 291.5 | 239.3 | 200.3 | 175.6 | 158.5 | 143.4 | 130.2 | 118.3 |
| 50°    | 467.9 | 416.6 | 348.9 | 273.6 | 211.9 | 180.0 | 158.9 | 143.0 | 128.2 | 114.7 | 103.9 |
| 52.5°  | 494.6 | 430.1 | 339.3 | 237.7 | 189.1 | 162.9 | 142.2 | 125.8 | 111.1 | 97.2  | 86.0  |
| 55°    | 521.7 | 436.0 | 307.0 | 208.3 | 172.0 | 147.7 | 125.4 | 107.1 | 91.2  | 77.6  | 66.9  |
| 57.5°  | 540.4 | 428.1 | 253.3 | 189.6 | 156.9 | 131.0 | 107.1 | 85.6  | 70.5  | 57.8  | 48.6  |
| 60°    | 547.5 | 392.3 | 223.0 | 174.4 | 141.0 | 112.3 | 85.2  | 62.9  | 51.8  | 42.6  | 37.0  |
| 62.5°  | 553.1 | 327.4 | 207.1 | 158.1 | 122.3 | 90.8  | 62.9  | 45.8  | 38.2  | 36.2  | 33.4  |
| 65°    | 530.8 | 277.6 | 190.8 | 143.8 | 102.3 | 70.9  | 47.8  | 35.0  | 31.5  | 30.3  | 29.5  |
| 67.5°  | 482.2 | 264.0 | 168.8 | 119.1 | 79.6  | 58.1  | 42.2  | 31.0  | 27.9  | 26.7  | 26.7  |
| 70°    | 354.0 | 186.8 | 119.5 | 76.1  | 54.6  | 43.0  | 35.5  | 29.5  | 25.5  | 24.3  | 24.3  |
| 72.5°  | 227.0 | 115.1 | 74.5  | 52.2  | 37.0  | 28.3  | 25.1  | 23.9  | 21.9  | 21.1  | 21.1  |
| 75°    | 121.1 | 70.9  | 54.6  | 36.2  | 26.7  | 22.3  | 20.3  | 19.5  | 18.3  | 18.7  | 17.9  |
| 77.5°  | 70.9  | 50.2  | 42.6  | 27.9  | 21.5  | 18.7  | 17.1  | 15.9  | 14.7  | 15.5  | 14.3  |
| 80°    | 60.5  | 44.6  | 32.2  | 19.9  | 15.1  | 13.5  | 12.8  | 10.7  | 9.2   | 8.4   | 7.6   |
| 82.5°  | 44.6  | 32.2  | 20.7  | 11.6  | 7.6   | 6.4   | 5.6   | 4.8   | 3.6   | 2.4   | 2.0   |
| 85°    | 15.9  | 7.6   | 4.0   | 2.8   | 2.4   | 2.4   | 2.4   | 2.4   | 2.0   | 1.6   | 1.6   |
| 87.5°  | 0.4   | 0.8   | 0.8   | 1.2   | 1.6   | 2.0   | 2.0   | 2.0   | 2.0   | 1.2   | 1.2   |
| 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°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 97.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 100°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 102.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 105°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 107.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 110°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

REPORT NUMBER: P89400  
CATALOG NUMBER: ENV-BXX-LED-E1-GZW-BBB

REPORT N  
CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

|        | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |        |
|--------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 112.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0°     |
| 115°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.5°   |
| 117.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5°     |
| 120°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5°   |
| 122.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 10°    |
| 125°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 12.5°  |
| 127.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 15°    |
| 130°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 17.5°  |
| 132.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 20°    |
| 135°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 22.5°  |
| 137.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 25°    |
| 140°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 27.5°  |
| 142.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 30°    |
| 145°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 32.5°  |
| 147.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 35°    |
| 150°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 37.5°  |
| 152.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 40°    |
| 155°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 42.5°  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 45°    |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 47.5°  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 50°    |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 52.5°  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 55°    |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 57.5°  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 60°    |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 62.5°  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 65°    |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 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°   |

REPORT NUMBER: P

CATALOG NUMBER:

**CANDELA DISTRIBU'**

|        | 165° |
|--------|------|
| 112.5° | 0.0  |
| 115°   | 0.0  |
| 117.5° | 0.0  |
| 120°   | 0.0  |
| 122.5° | 0.0  |
| 125°   | 0.0  |
| 127.5° | 0.0  |
| 130°   | 0.0  |
| 132.5° | 0.0  |
| 135°   | 0.0  |
| 137.5° | 0.0  |
| 140°   | 0.0  |
| 142.5° | 0.0  |
| 145°   | 0.0  |
| 147.5° | 0.0  |
| 150°   | 0.0  |
| 152.5° | 0.0  |
| 155°   | 0.0  |
| 157.5° | 0.0  |
| 160°   | 0.0  |
| 162.5° | 0.0  |
| 165°   | 0.0  |
| 167.5° | 0.0  |
| 170°   | 0.0  |
| 172.5° | 0.0  |
| 175°   | 0.0  |
| 177.5° | 0.0  |
| 180°   | 0.0  |



ENV-BXX-LED-E1-GZW-BBB

TION (continued):

[illegible]

(END OF REPORT)