

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: P89425

Luminaire Tested: **ENV-CXX-LED-E1-GZW-CWB**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P89425  
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-CXX-LED-E1-GZW-CWB  
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: 1116.8 lumens  
Efficiency: N/A  
Efficacy: 203.1 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



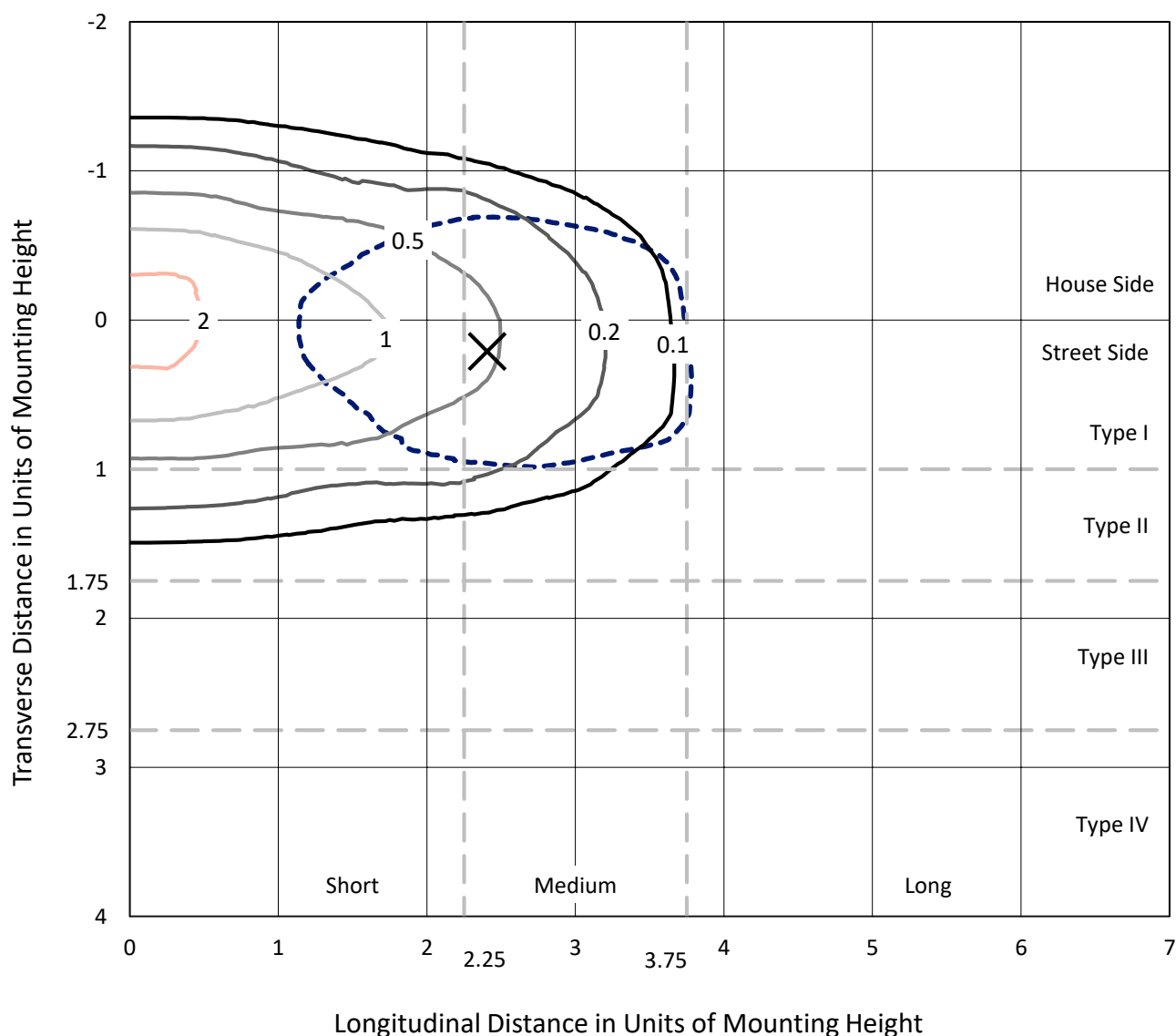
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

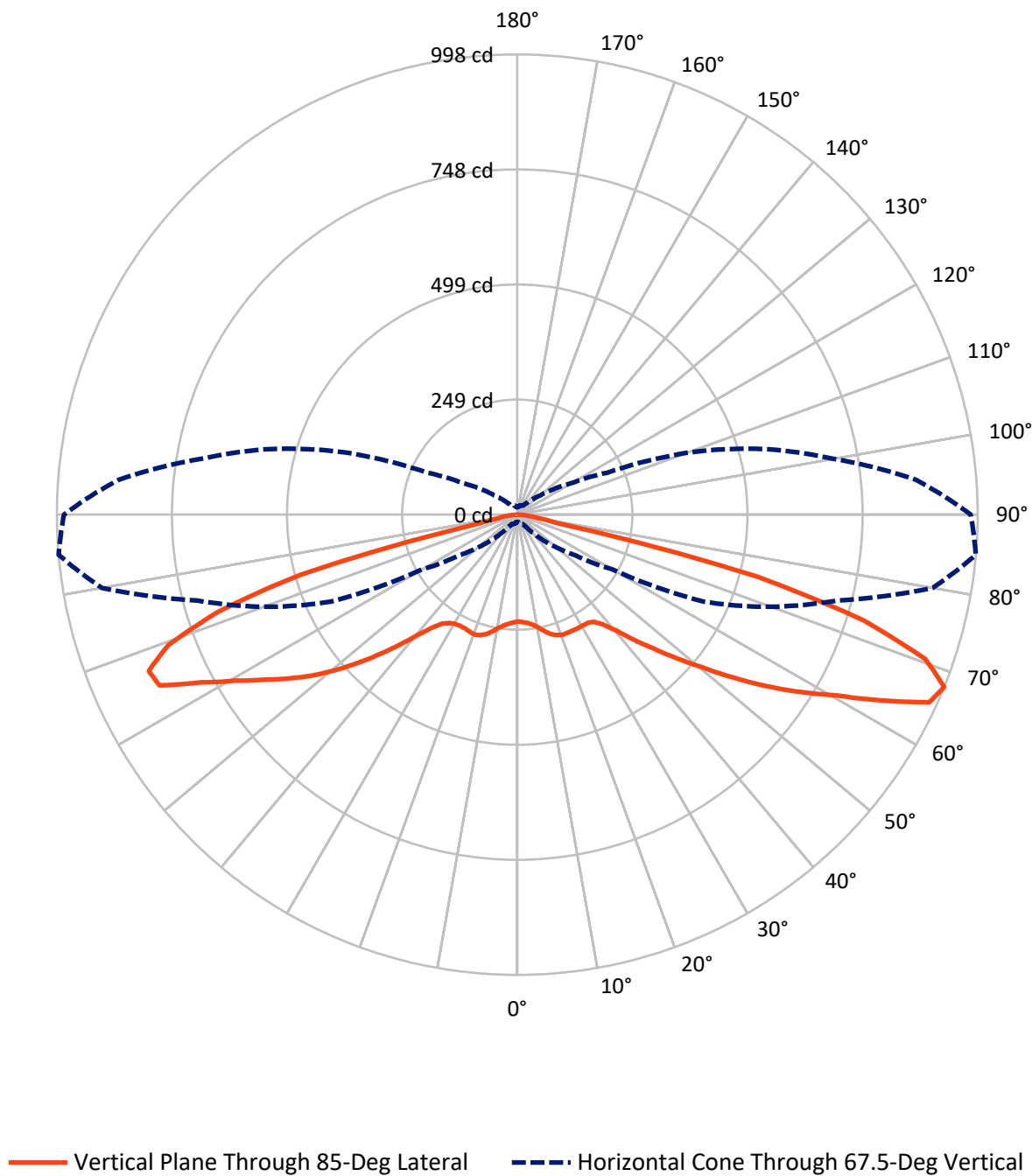


Based on 10 foot mounting height. Maximum calculated value = 2.4 fc  
 Type I - Medium - Full Cutoff

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## Luminous Intensity Polar Plot



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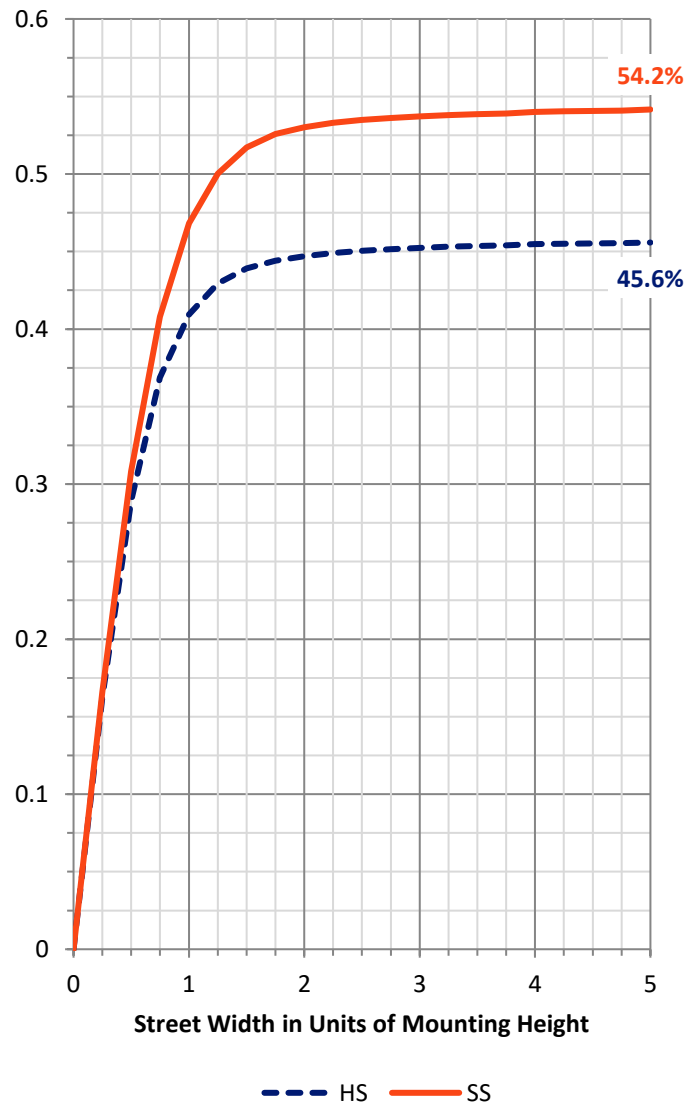
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 512.0    | 0.0    | 512.0  |
|                    | % Fixture | 45.8     | 0.0    | 45.8   |
| <b>Street Side</b> | Lumens    | 604.8    | 0.0    | 604.8  |
|                    | % Fixture | 54.2     | 0.0    | 54.2   |
| <b>Total</b>       | Lumens    | 1116.8   | 0.0    | 1116.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 22.6   | 2.0       |
| 10°-20°   | 70.8   | 6.3       |
| 20°-30°   | 115.1  | 10.3      |
| 30°-40°   | 145.2  | 13.0      |
| 40°-50°   | 180.6  | 16.2      |
| 50°-60°   | 217.5  | 19.5      |
| 60°-70°   | 238.4  | 21.3      |
| 70°-80°   | 115.8  | 10.4      |
| 80°-90°   | 10.8   | 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°    | 1116.8 | 100.0     |
| 0°-180°   | 1116.8 | 100.0     |

**Coefficient of Utilization**



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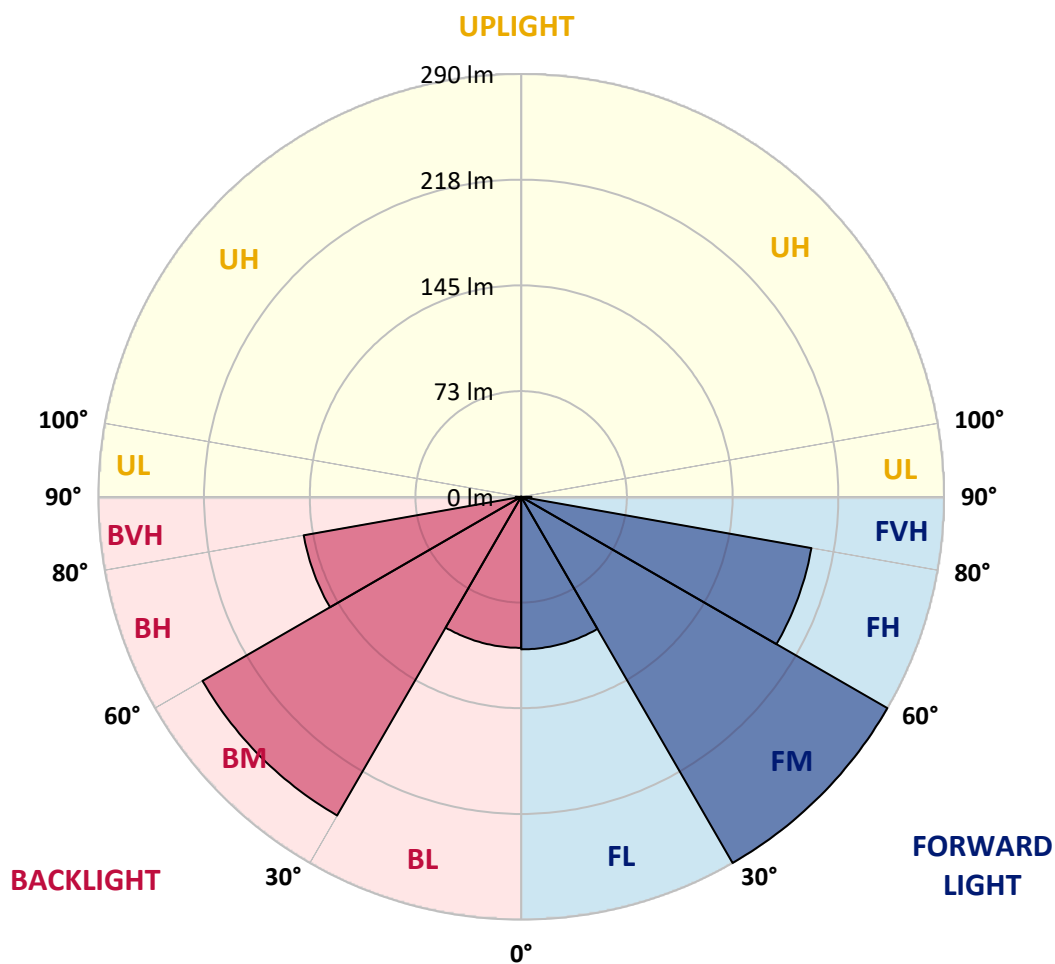
CATALOG NUMBER: ENV-CXX-LED-E1-GZW-CWB

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 104.8  | 9.4       |                         |      |        |
| FM   | (30°-60°)   | 290.5  | 26.0      |                         |      |        |
| FH   | (60°-80°)   | 202.5  | 18.1      |                         |      | G0/660 |
| FVH  | (80°-90°)   | 7.1    | 0.6       |                         |      | G0/10  |
| BL   | (0°-30°)    | 103.8  | 9.3       | B0/110                  |      |        |
| BM   | (30°-60°)   | 252.8  | 22.6      | B1/1000                 |      |        |
| BH   | (60°-80°)   | 151.7  | 13.6      | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 3.7    | 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



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 231.5 | 231.5 | 231.5 | 231.5 | 231.5 | 231.5 | 231.5 | 231.5 | 231.5 | 231.5 | 231.5 |
| 2.5°   | 228.9 | 229.5 | 229.5 | 229.5 | 230.2 | 230.8 | 229.9 | 231.2 | 231.2 | 231.5 | 231.8 |
| 5°     | 229.2 | 230.2 | 230.2 | 229.9 | 230.8 | 231.5 | 231.2 | 232.8 | 233.4 | 233.4 | 234.4 |
| 7.5°   | 229.9 | 230.2 | 230.5 | 230.2 | 231.5 | 231.8 | 232.5 | 234.1 | 235.7 | 236.7 | 237.3 |
| 10°    | 231.8 | 231.2 | 232.1 | 231.8 | 233.1 | 233.4 | 234.4 | 236.0 | 238.3 | 239.9 | 240.9 |
| 12.5°  | 231.8 | 230.8 | 231.8 | 232.1 | 233.4 | 235.1 | 235.1 | 237.0 | 240.2 | 242.8 | 245.1 |
| 15°    | 231.8 | 231.2 | 231.8 | 232.5 | 234.4 | 235.4 | 236.0 | 238.3 | 241.2 | 245.7 | 248.3 |
| 17.5°  | 232.8 | 233.1 | 233.4 | 234.4 | 236.7 | 238.0 | 239.9 | 241.9 | 244.8 | 250.3 | 252.5 |
| 20°    | 231.2 | 232.1 | 232.8 | 235.1 | 237.6 | 240.9 | 244.4 | 248.0 | 250.9 | 255.4 | 257.7 |
| 22.5°  | 227.0 | 228.9 | 229.2 | 232.8 | 236.7 | 240.9 | 247.4 | 252.5 | 256.4 | 260.0 | 261.0 |
| 25°    | 219.8 | 222.1 | 223.7 | 227.9 | 233.4 | 239.6 | 247.7 | 254.8 | 259.3 | 261.9 | 262.9 |
| 27.5°  | 210.4 | 212.1 | 214.0 | 218.5 | 225.3 | 235.1 | 246.4 | 255.1 | 259.7 | 262.9 | 264.5 |
| 30°    | 197.8 | 199.1 | 201.4 | 205.9 | 213.0 | 224.0 | 237.6 | 249.9 | 258.7 | 264.5 | 266.8 |
| 32.5°  | 182.9 | 184.5 | 186.8 | 191.7 | 199.1 | 210.1 | 223.4 | 237.3 | 251.2 | 264.5 | 269.7 |
| 35°    | 166.1 | 168.0 | 170.6 | 176.8 | 185.2 | 195.6 | 208.5 | 223.1 | 238.3 | 258.4 | 271.6 |
| 37.5°  | 152.2 | 153.8 | 157.0 | 162.9 | 172.2 | 183.2 | 195.9 | 210.1 | 226.3 | 248.0 | 269.0 |
| 40°    | 139.5 | 141.5 | 144.7 | 150.9 | 161.2 | 172.9 | 185.5 | 200.4 | 216.3 | 238.0 | 263.5 |
| 42.5°  | 127.2 | 128.9 | 132.1 | 138.6 | 149.3 | 163.2 | 176.1 | 192.0 | 208.8 | 229.9 | 256.4 |
| 45°    | 114.9 | 115.9 | 118.8 | 125.3 | 135.3 | 148.6 | 164.1 | 183.2 | 202.4 | 224.7 | 254.2 |
| 47.5°  | 102.6 | 103.6 | 105.9 | 111.4 | 121.4 | 135.0 | 148.9 | 168.7 | 192.6 | 220.2 | 251.6 |
| 50°    | 91.6  | 92.3  | 94.9  | 99.7  | 107.8 | 119.1 | 133.1 | 151.2 | 173.9 | 206.6 | 248.0 |
| 52.5°  | 79.3  | 80.3  | 82.9  | 87.4  | 94.9  | 105.9 | 118.2 | 133.1 | 154.8 | 185.2 | 233.8 |
| 55°    | 65.7  | 66.7  | 69.3  | 74.1  | 81.3  | 91.6  | 103.6 | 117.8 | 136.3 | 162.5 | 207.5 |
| 57.5°  | 49.2  | 50.8  | 53.4  | 58.3  | 65.4  | 76.1  | 88.1  | 103.3 | 121.4 | 143.1 | 178.4 |
| 60°    | 33.0  | 34.3  | 36.9  | 41.4  | 47.9  | 58.3  | 69.9  | 85.8  | 105.5 | 128.2 | 155.1 |
| 62.5°  | 23.0  | 23.3  | 25.6  | 29.1  | 33.0  | 40.1  | 49.9  | 66.0  | 87.7  | 112.0 | 139.5 |
| 65°    | 17.8  | 18.5  | 20.1  | 23.3  | 25.6  | 28.8  | 33.7  | 46.9  | 67.7  | 93.9  | 124.3 |
| 67.5°  | 15.5  | 16.2  | 17.8  | 19.7  | 21.0  | 22.3  | 24.0  | 31.1  | 48.6  | 75.8  | 110.1 |
| 70°    | 14.2  | 14.6  | 15.9  | 17.2  | 18.1  | 18.5  | 20.1  | 26.5  | 38.5  | 54.4  | 81.6  |
| 72.5°  | 13.0  | 13.6  | 14.2  | 15.2  | 15.9  | 16.2  | 17.5  | 22.3  | 28.8  | 37.6  | 51.2  |
| 75°    | 11.3  | 11.7  | 12.6  | 13.6  | 14.2  | 14.2  | 14.9  | 17.2  | 18.8  | 23.6  | 33.3  |
| 77.5°  | 9.7   | 10.0  | 11.0  | 11.7  | 13.6  | 12.6  | 12.3  | 13.6  | 14.6  | 17.2  | 22.7  |
| 80°    | 8.4   | 9.1   | 9.7   | 10.4  | 13.0  | 11.0  | 10.0  | 11.3  | 12.0  | 13.9  | 17.2  |
| 82.5°  | 7.4   | 7.8   | 8.1   | 8.7   | 12.6  | 9.4   | 8.1   | 9.4   | 10.7  | 10.7  | 13.0  |
| 85°    | 5.5   | 6.2   | 6.2   | 6.8   | 8.1   | 7.4   | 5.8   | 6.8   | 7.4   | 7.4   | 9.4   |
| 87.5°  | 2.6   | 2.6   | 2.6   | 2.6   | 1.9   | 2.9   | 2.6   | 3.2   | 3.6   | 2.9   | 3.9   |
| 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°    | 0.0   | 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   |

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**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 |

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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 231.5 | 231.5 | 231.5 | 231.5 | 231.5 | 231.5 | 231.5 | 231.5 | 231.5 | 231.5 | 231.5 |
| 2.5°   | 232.1 | 232.8 | 232.8 | 233.8 | 234.4 | 233.1 | 233.4 | 236.0 | 233.8 | 234.1 | 235.7 |
| 5°     | 234.7 | 235.7 | 235.4 | 236.3 | 237.0 | 235.7 | 236.0 | 238.6 | 237.3 | 237.3 | 239.9 |
| 7.5°   | 238.0 | 239.6 | 239.6 | 240.2 | 241.5 | 240.9 | 240.6 | 242.5 | 241.9 | 241.9 | 243.8 |
| 10°    | 242.5 | 244.4 | 246.4 | 247.0 | 249.0 | 248.3 | 248.6 | 249.6 | 249.3 | 248.3 | 250.3 |
| 12.5°  | 247.0 | 250.9 | 254.2 | 255.4 | 258.0 | 258.0 | 258.7 | 259.3 | 258.7 | 257.1 | 257.1 |
| 15°    | 250.9 | 255.4 | 260.3 | 263.2 | 266.1 | 266.1 | 268.1 | 268.4 | 267.4 | 265.2 | 265.2 |
| 17.5°  | 254.2 | 258.4 | 264.5 | 268.7 | 271.6 | 273.3 | 274.6 | 275.5 | 273.3 | 270.7 | 271.0 |
| 20°    | 257.4 | 260.6 | 265.8 | 270.7 | 274.2 | 276.2 | 278.4 | 278.8 | 275.8 | 272.6 | 274.2 |
| 22.5°  | 259.7 | 260.0 | 263.5 | 269.0 | 273.9 | 275.2 | 278.4 | 279.1 | 273.9 | 271.6 | 273.3 |
| 25°    | 262.6 | 261.6 | 262.2 | 266.5 | 271.0 | 273.9 | 278.4 | 278.4 | 271.6 | 268.7 | 271.6 |
| 27.5°  | 264.8 | 264.8 | 265.2 | 264.8 | 270.3 | 273.3 | 279.1 | 278.8 | 270.7 | 269.0 | 273.9 |
| 30°    | 267.4 | 269.0 | 269.0 | 267.8 | 270.7 | 272.9 | 279.1 | 280.1 | 272.3 | 273.6 | 279.7 |
| 32.5°  | 272.6 | 273.3 | 272.9 | 272.0 | 272.0 | 271.6 | 279.7 | 282.0 | 277.1 | 280.7 | 286.9 |
| 35°    | 278.1 | 279.4 | 278.4 | 276.5 | 278.4 | 274.6 | 285.2 | 292.4 | 286.5 | 292.0 | 296.2 |
| 37.5°  | 281.3 | 285.6 | 287.8 | 285.9 | 289.4 | 288.8 | 301.7 | 308.9 | 306.9 | 308.9 | 308.2 |
| 40°    | 283.9 | 294.6 | 300.5 | 301.7 | 310.8 | 319.6 | 330.6 | 340.9 | 337.4 | 332.5 | 325.7 |
| 42.5°  | 285.9 | 303.4 | 315.7 | 320.8 | 343.5 | 363.6 | 370.7 | 379.4 | 377.8 | 363.3 | 344.5 |
| 45°    | 285.2 | 312.4 | 331.2 | 348.0 | 379.8 | 410.2 | 414.1 | 421.9 | 422.8 | 396.6 | 365.2 |
| 47.5°  | 289.4 | 321.8 | 351.0 | 378.5 | 421.2 | 460.7 | 464.9 | 469.1 | 470.8 | 433.8 | 390.1 |
| 50°    | 293.3 | 335.4 | 372.0 | 408.6 | 462.0 | 510.6 | 521.3 | 521.6 | 519.0 | 470.4 | 415.1 |
| 52.5°  | 296.9 | 351.6 | 395.3 | 436.1 | 504.7 | 565.9 | 587.0 | 584.1 | 567.6 | 507.0 | 440.3 |
| 55°    | 289.8 | 366.8 | 420.2 | 463.3 | 546.2 | 626.2 | 657.2 | 651.1 | 611.9 | 540.0 | 464.3 |
| 57.5°  | 258.4 | 381.4 | 440.6 | 486.6 | 581.2 | 686.4 | 726.5 | 716.8 | 656.9 | 570.8 | 486.9 |
| 60°    | 222.4 | 367.5 | 463.0 | 511.2 | 620.3 | 748.9 | 795.8 | 789.3 | 709.4 | 606.1 | 508.0 |
| 62.5°  | 182.3 | 318.6 | 488.2 | 540.4 | 663.4 | 824.9 | 887.4 | 884.5 | 774.4 | 648.5 | 541.7 |
| 65°    | 164.1 | 273.9 | 491.8 | 568.2 | 701.3 | 903.9 | 981.0 | 972.6 | 859.3 | 689.9 | 555.9 |
| 67.5°  | 153.1 | 237.0 | 446.1 | 583.7 | 718.4 | 914.0 | 997.8 | 982.6 | 867.4 | 695.8 | 550.4 |
| 70°    | 121.4 | 186.5 | 339.0 | 534.9 | 659.2 | 859.6 | 938.3 | 920.5 | 807.1 | 633.3 | 480.5 |
| 72.5°  | 73.8  | 118.5 | 215.3 | 428.0 | 554.3 | 746.6 | 784.8 | 760.8 | 681.2 | 531.6 | 368.8 |
| 75°    | 48.9  | 69.9  | 115.9 | 283.6 | 423.8 | 555.3 | 538.1 | 500.2 | 486.9 | 406.3 | 238.6 |
| 77.5°  | 34.3  | 53.4  | 68.0  | 118.2 | 123.4 | 99.1  | 89.7  | 86.4  | 81.3  | 75.8  | 63.5  |
| 80°    | 24.6  | 42.1  | 46.3  | 72.5  | 56.7  | 47.6  | 46.6  | 45.7  | 41.4  | 36.6  | 43.7  |
| 82.5°  | 19.7  | 33.3  | 35.0  | 57.0  | 41.1  | 32.7  | 32.4  | 32.7  | 29.5  | 25.3  | 31.7  |
| 85°    | 14.9  | 26.2  | 22.7  | 34.0  | 22.3  | 15.9  | 14.6  | 14.6  | 12.0  | 10.4  | 13.0  |
| 87.5°  | 5.8   | 8.4   | 14.2  | 20.4  | 11.0  | 1.6   | 2.9   | 0.6   | 0.3   | 0.3   | 0.3   |
| 90°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 92.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 95°    | 0.0   | 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: P89425

CATALOG NUMBER: ENV-CXX-LED-E1-GZW-CWB

**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: P89425

CATALOG NUMBER: ENV-CXX-LED-E1-GZW-CWB

**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 231.5 | 231.5 | 231.5 | 231.5 | 231.5 | 231.5 | 231.5 | 231.5 | 231.5 | 231.5 | 231.5 |
| 2.5°   | 236.3 | 235.4 | 234.4 | 234.7 | 233.8 | 234.1 | 235.1 | 232.8 | 232.5 | 233.1 | 233.1 |
| 5°     | 239.9 | 239.6 | 237.6 | 237.0 | 236.3 | 237.3 | 237.3 | 235.4 | 234.1 | 235.1 | 235.4 |
| 7.5°   | 243.5 | 242.8 | 241.5 | 240.6 | 239.9 | 240.9 | 239.9 | 238.9 | 237.3 | 237.6 | 238.3 |
| 10°    | 248.6 | 248.6 | 246.7 | 245.7 | 244.8 | 244.8 | 244.1 | 241.9 | 240.6 | 240.2 | 240.6 |
| 12.5°  | 256.7 | 255.8 | 253.2 | 251.6 | 249.9 | 248.6 | 247.4 | 244.4 | 242.8 | 242.2 | 242.2 |
| 15°    | 263.9 | 262.9 | 259.7 | 257.4 | 255.8 | 252.9 | 251.2 | 248.0 | 245.1 | 242.8 | 241.2 |
| 17.5°  | 269.7 | 269.0 | 266.1 | 263.9 | 262.2 | 258.4 | 255.1 | 250.3 | 245.1 | 240.9 | 237.6 |
| 20°    | 273.9 | 274.6 | 272.3 | 271.3 | 268.1 | 262.9 | 256.7 | 249.6 | 242.2 | 236.3 | 231.2 |
| 22.5°  | 273.9 | 277.1 | 277.1 | 275.2 | 270.3 | 263.9 | 255.8 | 246.1 | 235.7 | 228.3 | 222.1 |
| 25°    | 274.9 | 278.8 | 278.8 | 276.2 | 269.7 | 261.9 | 250.9 | 239.3 | 226.6 | 217.9 | 210.8 |
| 27.5°  | 278.1 | 279.4 | 277.5 | 273.6 | 266.1 | 256.4 | 242.5 | 229.2 | 215.3 | 204.6 | 197.2 |
| 30°    | 282.3 | 280.7 | 276.5 | 269.4 | 259.0 | 246.7 | 231.2 | 215.9 | 201.7 | 190.4 | 183.2 |
| 32.5°  | 286.2 | 282.0 | 275.2 | 264.5 | 249.6 | 234.1 | 216.9 | 202.4 | 189.1 | 177.4 | 169.0 |
| 35°    | 292.7 | 285.6 | 275.8 | 259.7 | 239.6 | 221.8 | 205.6 | 191.3 | 177.1 | 164.1 | 155.4 |
| 37.5°  | 301.7 | 290.1 | 275.5 | 254.8 | 231.2 | 212.7 | 196.5 | 181.6 | 166.4 | 153.1 | 143.8 |
| 40°    | 313.1 | 296.2 | 275.8 | 249.3 | 224.7 | 204.9 | 187.1 | 170.9 | 155.4 | 142.5 | 131.4 |
| 42.5°  | 325.4 | 303.0 | 277.1 | 245.7 | 218.9 | 195.2 | 175.5 | 158.0 | 141.5 | 128.2 | 118.2 |
| 45°    | 340.3 | 313.1 | 279.4 | 242.5 | 210.4 | 181.6 | 158.6 | 141.8 | 128.2 | 117.2 | 107.2 |
| 47.5°  | 358.7 | 324.7 | 282.6 | 237.0 | 194.6 | 162.9 | 142.8 | 128.9 | 116.6 | 105.9 | 96.2  |
| 50°    | 380.4 | 338.7 | 283.6 | 222.4 | 172.2 | 146.3 | 129.2 | 116.2 | 104.3 | 93.2  | 84.5  |
| 52.5°  | 402.1 | 349.7 | 275.8 | 193.3 | 153.8 | 132.4 | 115.6 | 102.3 | 90.3  | 79.0  | 69.9  |
| 55°    | 424.1 | 354.5 | 249.6 | 169.3 | 139.9 | 120.1 | 102.0 | 87.1  | 74.1  | 63.1  | 54.4  |
| 57.5°  | 439.3 | 348.0 | 205.9 | 154.1 | 127.6 | 106.5 | 87.1  | 69.6  | 57.3  | 46.9  | 39.5  |
| 60°    | 445.2 | 318.9 | 181.3 | 141.8 | 114.6 | 91.3  | 69.3  | 51.2  | 42.1  | 34.6  | 30.1  |
| 62.5°  | 449.7 | 266.1 | 168.4 | 128.5 | 99.4  | 73.8  | 51.2  | 37.2  | 31.1  | 29.5  | 27.2  |
| 65°    | 431.6 | 225.7 | 155.1 | 116.9 | 83.2  | 57.6  | 38.9  | 28.5  | 25.6  | 24.6  | 24.0  |
| 67.5°  | 392.1 | 214.7 | 137.3 | 96.8  | 64.8  | 47.3  | 34.3  | 25.3  | 22.7  | 21.7  | 21.7  |
| 70°    | 287.8 | 151.8 | 97.1  | 61.8  | 44.4  | 35.0  | 28.8  | 24.0  | 20.7  | 19.7  | 19.7  |
| 72.5°  | 184.5 | 93.6  | 60.5  | 42.4  | 30.1  | 23.0  | 20.4  | 19.4  | 17.8  | 17.2  | 17.2  |
| 75°    | 98.4  | 57.6  | 44.4  | 29.5  | 21.7  | 18.1  | 16.5  | 15.9  | 14.9  | 15.2  | 14.6  |
| 77.5°  | 57.6  | 40.8  | 34.6  | 22.7  | 17.5  | 15.2  | 13.9  | 13.0  | 12.0  | 12.6  | 11.7  |
| 80°    | 49.2  | 36.3  | 26.2  | 16.2  | 12.3  | 11.0  | 10.4  | 8.7   | 7.4   | 6.8   | 6.2   |
| 82.5°  | 36.3  | 26.2  | 16.8  | 9.4   | 6.2   | 5.2   | 4.5   | 3.9   | 2.9   | 1.9   | 1.6   |
| 85°    | 13.0  | 6.2   | 3.2   | 2.3   | 1.9   | 1.9   | 1.9   | 1.9   | 1.6   | 1.3   | 1.3   |
| 87.5°  | 0.3   | 0.6   | 0.6   | 1.0   | 1.3   | 1.6   | 1.6   | 1.6   | 1.6   | 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°    | 0.0   | 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: P89425  
CATALOG NUMBER: ENV-CXX-LED-E1-GZW-CWB

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-CXX-LED-E1-GZW-CWB

TION (continued):

[illegible]

(END OF REPORT)