

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: P173705

Luminaire Tested: **ENV-EXX-LED-E1-BL2-7060-ULG-CWB**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P173705  
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-BL2-7060-ULG-CWB  
Description: ENTRI LED LUMINAIRE WITH UPLIGHT, EMERGENCY MODE  
LIGHTBARS WITH AccuLED OPTICS - TYPE 2  
Light Source: (42) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1921.4 lumens  
Efficiency: N/A  
Efficacy: 349.3 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - U3 - G1

Input Watts (W): 5.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



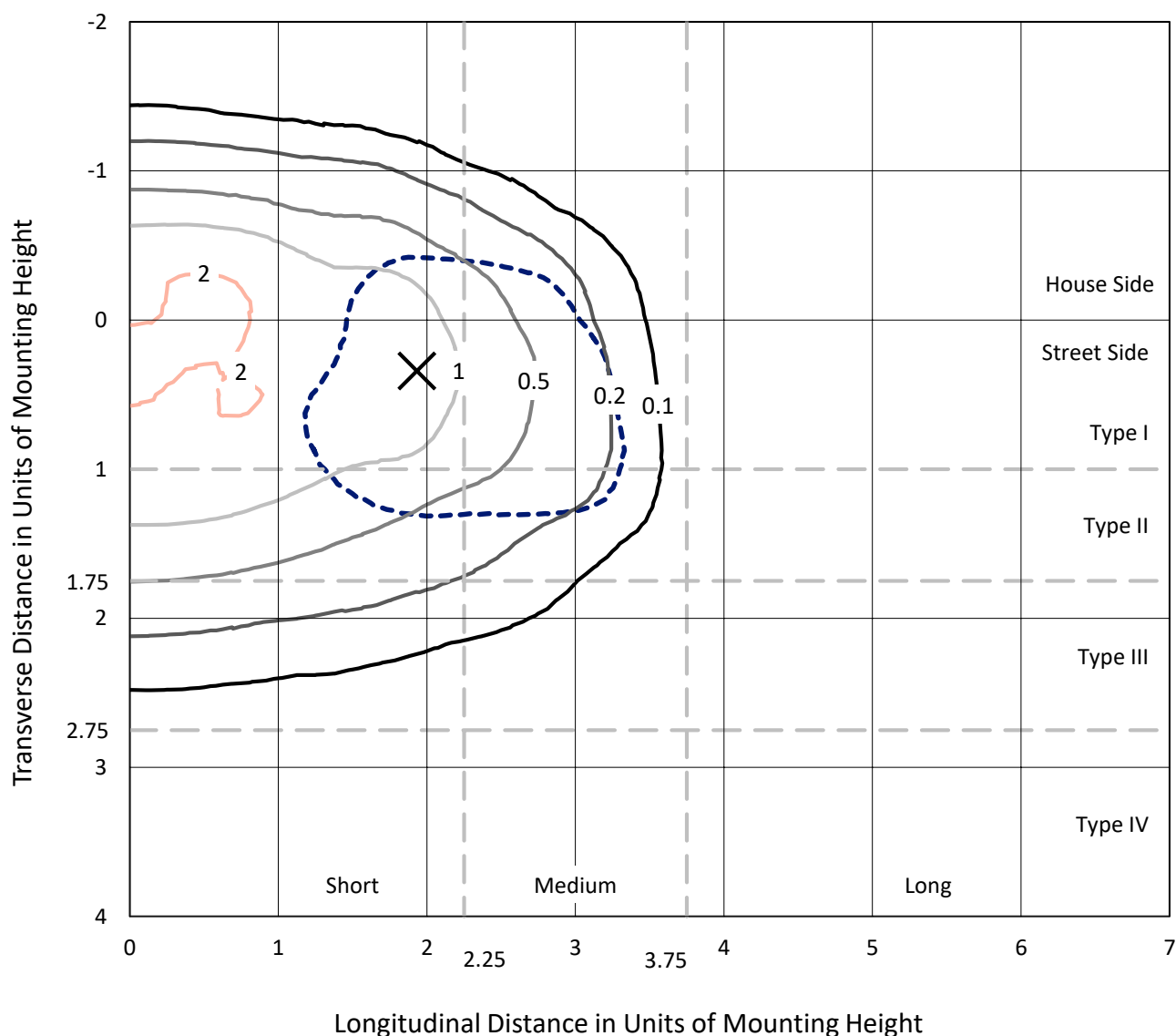
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

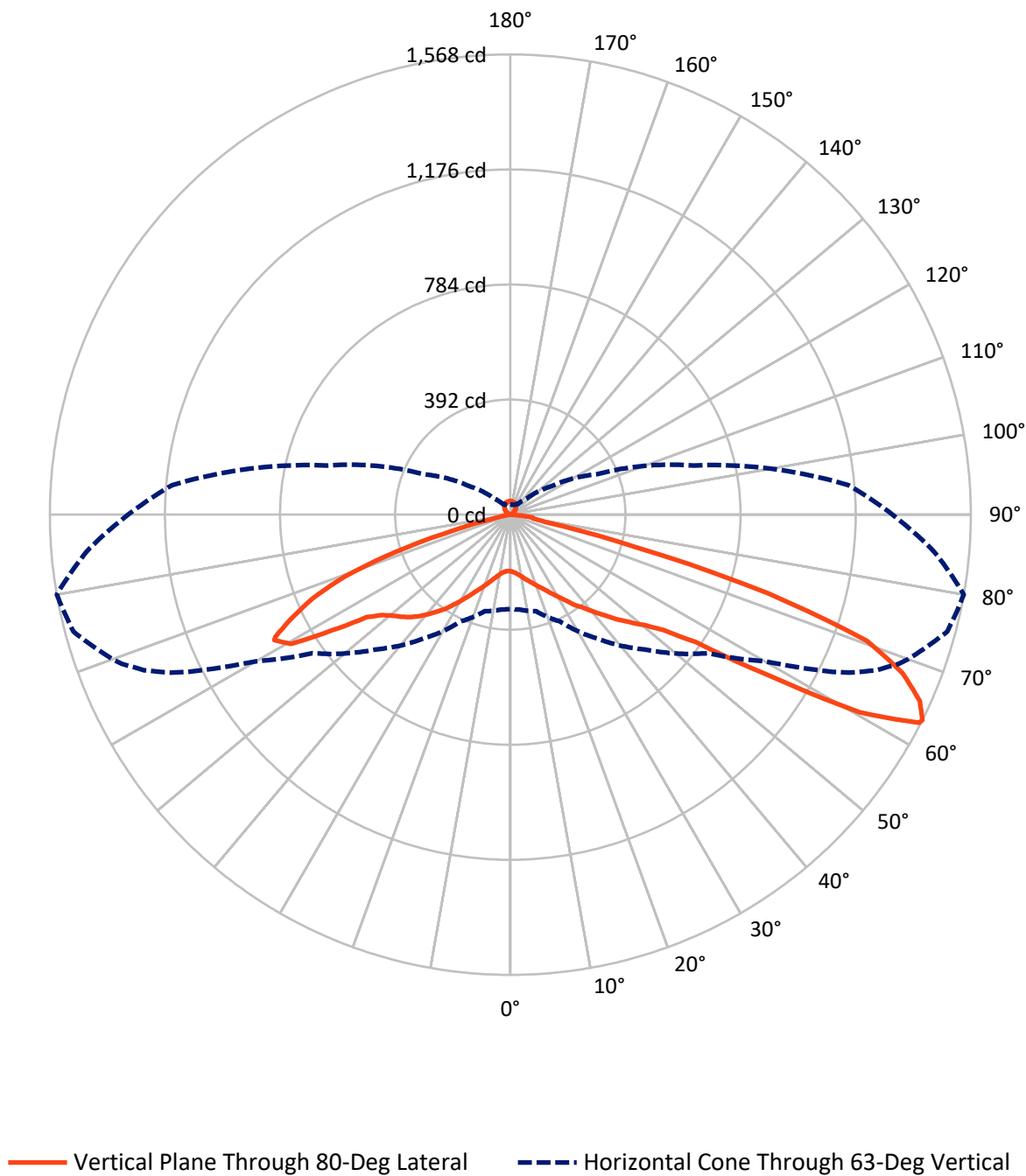


Based on 10 foot mounting height. Maximum calculated value = 2.4 fc  
 Type II - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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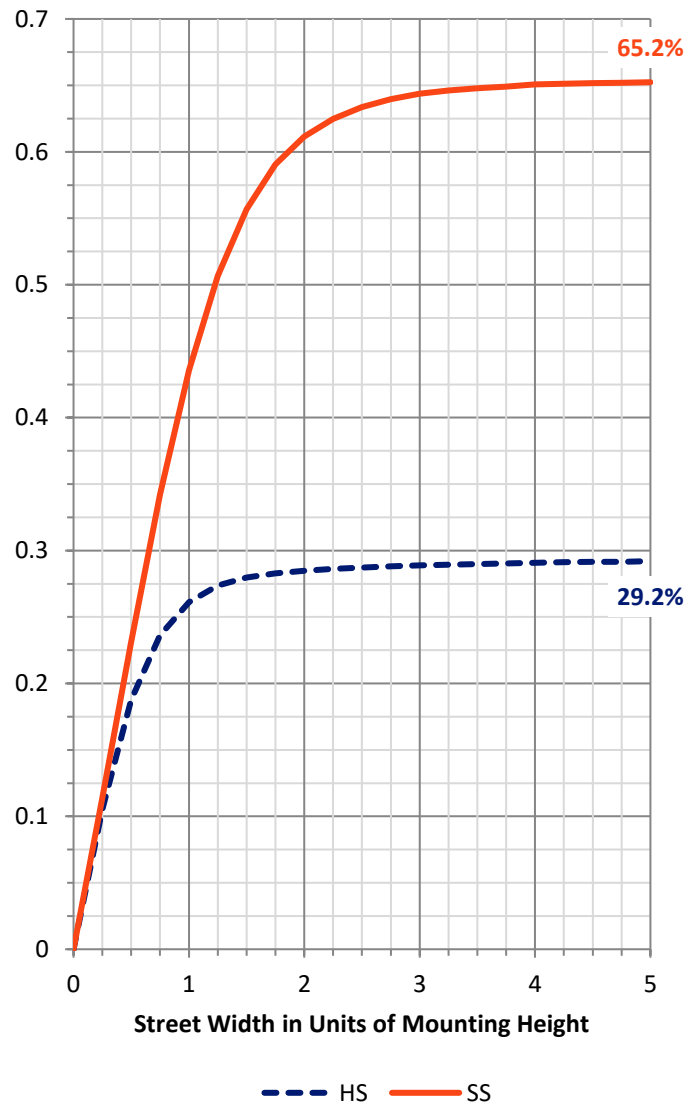
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 566.6    | 51.1   | 617.7  |
|                    | % Fixture | 29.5     | 2.7    | 32.1   |
| <b>Street Side</b> | Lumens    | 1252.7   | 51.1   | 1303.8 |
|                    | % Fixture | 65.2     | 2.7    | 67.9   |
| <b>Total</b>       | Lumens    | 1819.3   | 102.1  | 1921.4 |
|                    | % Fixture | 94.7     | 5.3    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 19.3   | 1.0       |
| 10°-20°   | 66.2   | 3.4       |
| 20°-30°   | 124.5  | 6.5       |
| 30°-40°   | 197.5  | 10.3      |
| 40°-50°   | 298.2  | 15.5      |
| 50°-60°   | 419.1  | 21.8      |
| 60°-70°   | 489.0  | 25.4      |
| 70°-80°   | 189.0  | 9.8       |
| 80°-90°   | 16.4   | 0.9       |
| 90°-100°  | 0.4    | 0.0       |
| 100°-110° | 4.0    | 0.2       |
| 110°-120° | 8.2    | 0.4       |
| 120°-130° | 13.9   | 0.7       |
| 130°-140° | 19.4   | 1.0       |
| 140°-150° | 21.2   | 1.1       |
| 150°-160° | 18.4   | 1.0       |
| 160°-170° | 12.4   | 0.6       |
| 170°-180° | 4.3    | 0.2       |
| 0°-90°    | 1819.3 | 94.7      |
| 0°-180°   | 1921.4 | 100.0     |

**Coefficient of Utilization**



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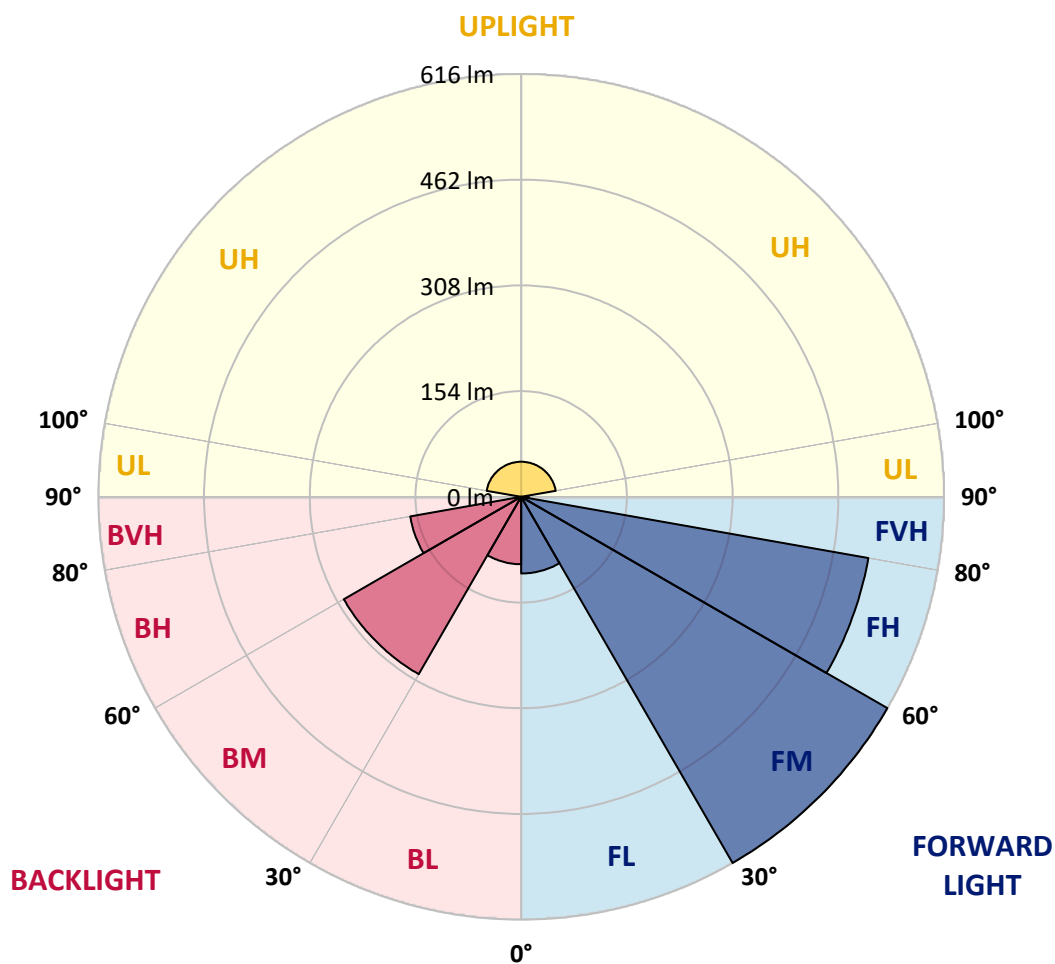
CATALOG NUMBER: ENV-EXX-LED-E1-BL2-7060-ULG-CWB

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |        |        |
|------|-------------|--------|-----------|-------------------------|--------|--------|
|      |             |        |           | B                       | U      | G      |
| FL   | (0°-30°)    | 111.7  | 5.8       |                         |        |        |
| FM   | (30°-60°)   | 616.2  | 32.1      |                         |        |        |
| FH   | (60°-80°)   | 513.8  | 26.7      |                         |        | G0/660 |
| FVH  | (80°-90°)   | 11.0   | 0.6       |                         |        | G1/100 |
| BL   | (0°-30°)    | 98.3   | 5.1       | B0/110                  |        |        |
| BM   | (30°-60°)   | 298.6  | 15.5      | B1/1000                 |        |        |
| BH   | (60°-80°)   | 164.2  | 8.5       | B1/500                  |        | G1/500 |
| BVH  | (80°-90°)   | 5.5    | 0.3       |                         |        | G0/10  |
| UL   | (90°-100°)  | 0.4    | 0.0       |                         | U1/10  |        |
| UH   | (100°-180°) | 51.1   | 2.7       |                         | U3/500 |        |

**BUG Rating: B1-U3-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 60°   | 61°    | 62°    | 64°    |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 0°     | 192.7 | 192.7 | 192.7 | 192.7 | 192.7 | 192.7 | 192.7 | 192.7 | 192.7  | 192.7  | 192.7  |
| 2.5°   | 202.3 | 201.6 | 202.0 | 201.6 | 201.6 | 201.0 | 199.0 | 199.0 | 198.7  | 199.0  | 198.3  |
| 5°     | 213.3 | 212.9 | 212.6 | 212.0 | 212.0 | 210.6 | 207.3 | 206.6 | 207.0  | 206.3  | 205.0  |
| 7.5°   | 225.6 | 225.2 | 224.6 | 223.2 | 222.6 | 220.6 | 215.9 | 215.3 | 214.9  | 214.3  | 213.3  |
| 10°    | 237.9 | 237.5 | 236.5 | 234.9 | 233.2 | 230.2 | 225.6 | 223.9 | 223.6  | 223.2  | 222.3  |
| 12.5°  | 250.5 | 249.5 | 249.8 | 246.8 | 244.2 | 240.5 | 235.2 | 233.6 | 233.2  | 232.9  | 232.6  |
| 15°    | 264.4 | 264.1 | 263.4 | 259.5 | 254.5 | 249.5 | 244.2 | 242.2 | 240.8  | 241.2  | 240.8  |
| 17.5°  | 277.7 | 277.4 | 275.1 | 269.4 | 262.8 | 257.1 | 250.5 | 249.2 | 249.2  | 248.8  | 248.8  |
| 20°    | 287.4 | 287.0 | 284.7 | 277.7 | 269.1 | 262.8 | 257.5 | 257.5 | 257.1  | 257.5  | 257.8  |
| 22.5°  | 291.7 | 291.7 | 288.7 | 281.1 | 271.8 | 267.1 | 265.5 | 266.4 | 266.8  | 267.1  | 267.8  |
| 25°    | 293.4 | 293.4 | 290.3 | 281.4 | 272.7 | 273.4 | 275.4 | 277.1 | 277.7  | 277.7  | 280.1  |
| 27.5°  | 296.3 | 296.7 | 292.7 | 283.0 | 276.1 | 282.4 | 287.4 | 289.7 | 290.7  | 291.4  | 294.3  |
| 30°    | 305.3 | 305.0 | 301.6 | 291.4 | 286.0 | 295.0 | 304.0 | 306.3 | 308.6  | 308.6  | 311.9  |
| 32.5°  | 318.6 | 318.3 | 316.3 | 308.3 | 306.0 | 317.3 | 325.3 | 330.2 | 329.9  | 330.6  | 332.9  |
| 35°    | 336.2 | 336.5 | 337.8 | 335.9 | 337.8 | 349.1 | 358.1 | 360.1 | 360.4  | 360.8  | 361.1  |
| 37.5°  | 356.1 | 356.5 | 363.8 | 370.1 | 379.1 | 395.7 | 401.0 | 402.0 | 399.7  | 399.7  | 399.0  |
| 40°    | 371.1 | 372.7 | 389.0 | 405.6 | 424.6 | 447.1 | 455.1 | 453.1 | 451.5  | 450.2  | 446.2  |
| 42.5°  | 401.7 | 402.6 | 419.9 | 443.8 | 470.4 | 501.6 | 515.6 | 509.0 | 508.6  | 502.6  | 499.7  |
| 45°    | 432.2 | 434.9 | 453.5 | 480.4 | 512.3 | 555.4 | 576.1 | 570.4 | 569.4  | 566.7  | 558.5  |
| 47.5°  | 456.5 | 460.1 | 480.7 | 512.6 | 549.2 | 599.0 | 635.9 | 639.9 | 637.5  | 634.5  | 627.9  |
| 50°    | 477.1 | 480.0 | 501.0 | 535.9 | 577.7 | 632.2 | 685.0 | 699.3 | 701.3  | 700.0  | 698.3  |
| 52.5°  | 490.3 | 493.3 | 513.9 | 551.1 | 594.3 | 656.8 | 721.6 | 749.8 | 755.8  | 755.5  | 762.4  |
| 55°    | 490.7 | 494.0 | 515.3 | 556.1 | 603.6 | 673.7 | 755.5 | 800.0 | 807.3  | 816.2  | 831.2  |
| 57.5°  | 472.4 | 475.7 | 502.3 | 549.5 | 606.3 | 687.0 | 788.3 | 866.7 | 886.7  | 904.3  | 945.5  |
| 60°    | 421.6 | 422.9 | 452.1 | 515.3 | 593.7 | 684.0 | 813.3 | 924.2 | 952.4  | 990.6  | 1057.1 |
| 62.5°  | 343.5 | 346.2 | 364.1 | 425.6 | 534.9 | 657.8 | 823.2 | 988.3 | 1034.8 | 1090.7 | 1197.0 |
| 63°    | 321.9 | 324.2 | 340.9 | 401.7 | 514.9 | 649.5 | 822.9 | 998.6 | 1049.8 | 1107.3 | 1221.9 |
| 65°    | 248.5 | 249.2 | 261.4 | 307.3 | 422.6 | 589.0 | 805.0 | 984.0 | 1048.8 | 1115.9 | 1236.2 |
| 67.5°  | 200.3 | 202.6 | 214.9 | 247.2 | 333.9 | 494.7 | 724.5 | 852.5 | 896.7  | 962.8  | 1105.9 |
| 70°    | 156.8 | 160.8 | 172.4 | 209.0 | 284.7 | 398.3 | 609.6 | 711.6 | 738.9  | 770.4  | 892.0  |
| 72.5°  | 103.6 | 104.6 | 106.6 | 126.9 | 198.7 | 310.0 | 507.3 | 576.7 | 587.4  | 609.9  | 669.4  |
| 75°    | 48.8  | 52.5  | 55.5  | 65.8  | 96.0  | 203.0 | 367.8 | 409.6 | 422.3  | 445.8  | 467.4  |
| 77.5°  | 21.3  | 20.9  | 22.2  | 30.2  | 50.5  | 90.4  | 228.9 | 302.7 | 307.0  | 301.6  | 292.4  |
| 80°    | 6.6   | 7.0   | 7.3   | 8.0   | 16.0  | 43.2  | 99.0  | 203.3 | 224.6  | 238.9  | 234.9  |
| 82.5°  | 0.7   | 0.3   | 1.0   | 2.0   | 3.3   | 6.3   | 37.2  | 95.3  | 119.9  | 147.2  | 182.1  |
| 85°    | 0.0   | 0.0   | 0.3   | 0.3   | 0.7   | 1.3   | 2.3   | 10.0  | 16.6   | 19.3   | 38.2   |
| 87.5°  | 0.0   | 0.0   | 0.3   | 0.3   | 0.7   | 1.0   | 1.0   | 1.3   | 1.3    | 1.3    | 1.3    |
| 90°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    |
| 95°    | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2    | 0.2    | 0.2    |
| 97.5°  | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5    | 0.5    | 0.5    |
| 100°   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6    | 1.6    | 1.6    |
| 102.5° | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   | 2.8    | 2.8    | 2.8    |
| 105°   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8    | 3.8    | 3.8    |
| 107.5° | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.8    | 4.8    | 4.8    |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 60°  | 61°  | 62°  | 64°  |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 110°   | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  |
| 112.5° | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  |
| 115°   | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  |
| 117.5° | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  |
| 120°   | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 |
| 122.5° | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 |
| 125°   | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 |
| 127.5° | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 |
| 130°   | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 |
| 132.5° | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 |
| 135°   | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 |
| 137.5° | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 |
| 140°   | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 |
| 142.5° | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 |
| 145°   | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 |
| 147.5° | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 |
| 150°   | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 |
| 152.5° | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 |
| 155°   | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| 157.5° | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 |
| 160°   | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 |
| 162.5° | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 |
| 165°   | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 |
| 167.5° | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 |
| 170°   | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 |
| 172.5° | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 |
| 175°   | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 |
| 177.5° | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 |
| 180°   | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 |



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**CANDELA DISTRIBUTION (continued):**

|        | 65°    | 66°    | 67°    | 68°    | 69°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 192.7  | 192.7  | 192.7  | 192.7  | 192.7  | 192.7  | 192.7  | 192.7  | 192.7  | 192.7  | 192.7  |
| 2.5°   | 198.0  | 198.0  | 197.3  | 197.7  | 197.3  | 197.3  | 196.7  | 196.0  | 195.7  | 194.0  | 193.0  |
| 5°     | 205.0  | 205.0  | 204.7  | 204.0  | 204.0  | 203.6  | 202.0  | 200.3  | 199.3  | 197.3  | 195.4  |
| 7.5°   | 212.9  | 212.6  | 212.0  | 211.3  | 211.3  | 211.0  | 208.6  | 207.0  | 205.0  | 202.0  | 199.7  |
| 10°    | 222.3  | 221.9  | 221.3  | 220.3  | 220.3  | 219.9  | 217.6  | 214.9  | 213.3  | 209.6  | 206.6  |
| 12.5°  | 232.2  | 231.2  | 230.9  | 230.2  | 229.5  | 229.5  | 227.6  | 224.9  | 223.6  | 219.6  | 216.6  |
| 15°    | 240.5  | 239.8  | 239.5  | 239.2  | 238.9  | 238.2  | 236.5  | 234.2  | 233.2  | 229.9  | 227.6  |
| 17.5°  | 248.5  | 248.5  | 248.8  | 248.2  | 247.8  | 247.2  | 246.2  | 245.5  | 244.5  | 241.5  | 240.2  |
| 20°    | 257.8  | 257.8  | 258.5  | 258.1  | 257.8  | 258.8  | 258.5  | 258.1  | 258.1  | 255.5  | 254.5  |
| 22.5°  | 268.8  | 268.4  | 269.4  | 269.1  | 269.4  | 270.4  | 271.8  | 271.1  | 272.4  | 270.8  | 270.1  |
| 25°    | 281.4  | 281.1  | 282.1  | 282.7  | 283.4  | 284.0  | 286.7  | 287.4  | 289.0  | 288.7  | 287.4  |
| 27.5°  | 295.7  | 296.0  | 296.3  | 298.0  | 299.0  | 299.6  | 303.3  | 305.3  | 308.6  | 307.3  | 308.6  |
| 30°    | 312.3  | 314.0  | 315.3  | 316.9  | 317.3  | 317.9  | 323.9  | 325.9  | 327.6  | 328.6  | 330.6  |
| 32.5°  | 335.2  | 336.2  | 336.5  | 338.5  | 339.2  | 340.2  | 346.5  | 349.1  | 351.5  | 351.8  | 355.5  |
| 35°    | 363.1  | 363.8  | 364.8  | 365.8  | 367.1  | 366.4  | 373.8  | 377.7  | 380.7  | 381.0  | 385.1  |
| 37.5°  | 400.0  | 397.6  | 398.6  | 397.3  | 395.3  | 395.3  | 397.6  | 401.7  | 405.0  | 407.6  | 411.6  |
| 40°    | 444.2  | 442.5  | 442.2  | 439.2  | 435.9  | 432.9  | 431.5  | 433.9  | 436.5  | 438.9  | 443.8  |
| 42.5°  | 494.7  | 493.0  | 487.4  | 485.4  | 479.7  | 476.4  | 467.4  | 468.4  | 473.1  | 474.4  | 477.4  |
| 45°    | 553.8  | 547.8  | 545.8  | 533.5  | 531.2  | 526.6  | 509.6  | 508.3  | 512.3  | 512.6  | 510.6  |
| 47.5°  | 621.2  | 616.9  | 612.3  | 603.6  | 594.7  | 587.0  | 561.1  | 547.5  | 551.8  | 551.5  | 541.8  |
| 50°    | 694.7  | 694.0  | 687.0  | 681.4  | 673.4  | 662.4  | 616.2  | 591.4  | 594.7  | 591.7  | 574.1  |
| 52.5°  | 764.8  | 762.8  | 762.4  | 758.1  | 755.1  | 751.5  | 695.3  | 652.5  | 644.8  | 638.5  | 615.9  |
| 55°    | 838.5  | 843.5  | 840.2  | 847.2  | 852.5  | 851.8  | 828.5  | 765.8  | 726.9  | 721.9  | 687.3  |
| 57.5°  | 961.4  | 973.4  | 989.3  | 990.0  | 1004.3 | 1024.9 | 1066.7 | 1021.6 | 924.2  | 904.9  | 858.8  |
| 60°    | 1102.3 | 1133.2 | 1173.1 | 1192.6 | 1223.2 | 1255.1 | 1360.1 | 1367.1 | 1230.8 | 1156.4 | 1071.7 |
| 62.5°  | 1243.8 | 1284.3 | 1331.5 | 1362.1 | 1399.9 | 1424.9 | 1535.8 | 1562.4 | 1438.2 | 1300.9 | 1161.4 |
| 63°    | 1273.7 | 1315.3 | 1356.1 | 1386.0 | 1417.9 | 1440.8 | 1540.5 | 1568.4 | 1449.5 | 1301.3 | 1155.8 |
| 65°    | 1289.3 | 1328.2 | 1360.1 | 1386.7 | 1407.9 | 1423.6 | 1502.3 | 1532.5 | 1434.5 | 1253.1 | 1092.3 |
| 67.5°  | 1170.7 | 1233.2 | 1273.4 | 1305.6 | 1327.2 | 1348.8 | 1421.2 | 1440.2 | 1370.7 | 1159.4 | 996.0  |
| 70°    | 969.1  | 1041.2 | 1104.6 | 1154.8 | 1192.0 | 1224.9 | 1300.9 | 1288.0 | 1228.2 | 1007.6 | 844.8  |
| 72.5°  | 712.9  | 775.7  | 837.5  | 894.3  | 942.8  | 984.7  | 1034.8 | 917.6  | 826.6  | 670.1  | 584.7  |
| 75°    | 479.4  | 493.0  | 521.3  | 549.5  | 567.1  | 579.0  | 548.2  | 436.9  | 354.8  | 318.3  | 278.4  |
| 77.5°  | 283.0  | 273.7  | 274.7  | 267.8  | 263.1  | 262.1  | 219.9  | 122.3  | 64.5   | 65.8   | 69.1   |
| 80°    | 225.9  | 215.6  | 204.7  | 192.3  | 184.4  | 175.7  | 143.2  | 78.4   | 27.9   | 22.6   | 23.6   |
| 82.5°  | 182.7  | 180.0  | 174.1  | 161.5  | 148.8  | 133.9  | 102.3  | 75.4   | 16.0   | 12.6   | 13.6   |
| 85°    | 35.5   | 39.9   | 35.9   | 39.2   | 29.2   | 27.6   | 16.3   | 17.6   | 6.3    | 5.6    | 7.0    |
| 87.5°  | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 2.7    |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    |
| 97.5°  | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 100°   | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 102.5° | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    |
| 105°   | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    |
| 107.5° | 4.8    | 4.8    | 4.8    | 4.8    | 4.8    | 4.8    | 4.8    | 4.8    | 4.8    | 4.8    | 4.8    |

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CATALOG NUMBER: ENV-EXX-LED-E1-BL2-7060-ULG-CWB

**CANDELA DISTRIBUTION (continued):**

|        | 65°  | 66°  | 67°  | 68°  | 69°  | 70°  | 75°  | 80°  | 85°  | 90°  | 95°  |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 110°   | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  |
| 112.5° | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  |
| 115°   | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  |
| 117.5° | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  |
| 120°   | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 |
| 122.5° | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 |
| 125°   | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 |
| 127.5° | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 |
| 130°   | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 |
| 132.5° | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 |
| 135°   | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 |
| 137.5° | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 |
| 140°   | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 |
| 142.5° | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 |
| 145°   | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 |
| 147.5° | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 |
| 150°   | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 |
| 152.5° | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 |
| 155°   | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| 157.5° | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 |
| 160°   | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 |
| 162.5° | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 |
| 165°   | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 |
| 167.5° | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 |
| 170°   | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 |
| 172.5° | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 |
| 175°   | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 |
| 177.5° | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 |
| 180°   | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 |

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CATALOG NUMBER: ENV-EXX-LED-E1-BL2-7060-ULG-CWB

**CANDELA DISTRIBUTION (continued):**

|        | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 192.7 | 192.7 | 192.7 | 192.7 | 192.7 | 192.7 | 192.7 | 192.7 | 192.7 |
| 2.5°   | 191.3 | 190.0 | 189.0 | 187.7 | 187.0 | 186.0 | 185.7 | 184.7 | 185.0 |
| 5°     | 192.0 | 189.7 | 187.7 | 185.7 | 184.4 | 183.7 | 183.1 | 182.4 | 182.4 |
| 7.5°   | 195.4 | 192.3 | 190.0 | 187.7 | 186.7 | 185.4 | 185.0 | 184.1 | 184.1 |
| 10°    | 202.3 | 199.0 | 196.0 | 193.4 | 192.0 | 190.4 | 189.7 | 188.7 | 188.7 |
| 12.5°  | 212.6 | 209.6 | 206.3 | 202.3 | 199.7 | 197.7 | 196.0 | 195.4 | 195.4 |
| 15°    | 224.2 | 221.9 | 219.3 | 213.9 | 209.6 | 206.0 | 202.6 | 201.3 | 201.0 |
| 17.5°  | 238.2 | 236.2 | 233.6 | 227.6 | 220.6 | 212.9 | 207.3 | 204.7 | 204.3 |
| 20°    | 255.1 | 253.1 | 249.2 | 240.8 | 229.9 | 217.9 | 209.0 | 205.0 | 204.7 |
| 22.5°  | 272.4 | 272.4 | 265.8 | 252.1 | 235.9 | 219.9 | 208.0 | 202.6 | 201.6 |
| 25°    | 291.4 | 292.4 | 282.4 | 261.1 | 239.2 | 218.9 | 203.6 | 197.0 | 195.7 |
| 27.5°  | 314.3 | 313.3 | 296.7 | 268.1 | 239.5 | 214.9 | 196.7 | 188.7 | 187.4 |
| 30°    | 339.5 | 332.9 | 308.3 | 272.1 | 237.2 | 207.6 | 187.4 | 178.4 | 177.4 |
| 32.5°  | 364.8 | 350.5 | 316.9 | 272.7 | 230.6 | 197.0 | 175.1 | 165.8 | 164.4 |
| 35°    | 391.7 | 366.1 | 322.2 | 269.1 | 219.6 | 182.7 | 159.8 | 150.8 | 149.5 |
| 37.5°  | 414.3 | 378.1 | 323.9 | 259.5 | 203.0 | 166.1 | 145.9 | 136.5 | 134.2 |
| 40°    | 434.9 | 386.7 | 320.9 | 243.9 | 184.4 | 149.8 | 131.2 | 123.3 | 122.6 |
| 42.5°  | 453.8 | 390.7 | 310.3 | 223.6 | 165.8 | 135.9 | 118.9 | 111.3 | 110.6 |
| 45°    | 468.4 | 388.0 | 292.4 | 201.3 | 150.5 | 123.9 | 108.0 | 101.0 | 99.7  |
| 47.5°  | 477.7 | 378.4 | 267.8 | 182.7 | 137.9 | 111.6 | 96.0  | 88.7  | 87.4  |
| 50°    | 485.0 | 364.1 | 242.9 | 168.4 | 125.6 | 99.0  | 83.7  | 77.1  | 76.1  |
| 52.5°  | 494.7 | 345.8 | 221.3 | 155.5 | 111.3 | 84.7  | 71.1  | 64.8  | 63.8  |
| 55°    | 515.9 | 330.2 | 206.0 | 141.2 | 96.0  | 69.8  | 58.5  | 54.5  | 53.2  |
| 57.5°  | 588.0 | 335.5 | 196.3 | 123.9 | 78.4  | 56.1  | 48.5  | 46.2  | 45.8  |
| 60°    | 663.8 | 358.1 | 191.7 | 104.0 | 60.8  | 45.5  | 41.2  | 40.5  | 40.2  |
| 62.5°  | 659.8 | 337.8 | 172.4 | 81.7  | 46.8  | 37.5  | 35.5  | 35.9  | 35.9  |
| 63°    | 646.5 | 325.6 | 166.1 | 76.7  | 44.5  | 36.6  | 34.5  | 34.5  | 34.5  |
| 65°    | 566.1 | 276.1 | 134.9 | 58.1  | 37.2  | 32.6  | 30.9  | 31.2  | 31.6  |
| 67.5°  | 467.4 | 199.3 | 88.7  | 40.5  | 33.5  | 29.6  | 27.6  | 26.9  | 26.9  |
| 70°    | 357.5 | 134.2 | 52.5  | 35.2  | 33.2  | 27.6  | 24.2  | 23.6  | 23.6  |
| 72.5°  | 234.5 | 82.0  | 35.5  | 35.2  | 32.9  | 26.3  | 22.6  | 21.3  | 21.3  |
| 75°    | 107.7 | 40.5  | 29.6  | 33.9  | 31.2  | 24.2  | 19.9  | 18.3  | 17.9  |
| 77.5°  | 41.9  | 25.6  | 26.6  | 28.6  | 24.2  | 19.9  | 17.9  | 16.6  | 16.3  |
| 80°    | 24.2  | 20.6  | 23.2  | 20.6  | 17.6  | 15.3  | 15.3  | 14.3  | 14.0  |
| 82.5°  | 17.6  | 17.6  | 17.9  | 15.0  | 13.3  | 12.6  | 12.6  | 11.6  | 11.3  |
| 85°    | 12.6  | 13.0  | 15.0  | 11.9  | 10.3  | 9.0   | 8.3   | 8.3   | 8.0   |
| 87.5°  | 6.3   | 10.3  | 8.3   | 5.0   | 4.7   | 4.3   | 4.3   | 4.3   | 4.0   |
| 90°    | 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   |
| 95°    | 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   |
| 100°   | 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   |
| 105°   | 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   |

REPORT NUMBER: P173705

CATALOG NUMBER: ENV-EXX-LED-E1-BL2-7060-ULG-CWB

**CANDELA DISTRIBUTION (continued):**

|        | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|------|------|------|------|------|------|------|------|------|
| 110°   | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  | 5.8  |
| 112.5° | 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  |
| 117.5° | 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 |
| 122.5° | 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 |
| 127.5° | 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 |
| 132.5° | 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 |
| 137.5° | 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 |
| 142.5° | 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 |
| 147.5° | 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 |
| 152.5° | 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 |
| 157.5° | 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 |
| 162.5° | 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 |
| 167.5° | 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 |
| 172.5° | 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 |
| 177.5° | 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 |

(END OF REPORT)