

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: P160196

Luminaire Tested: **ENV-F02-LED-E1-GZW-8030-ULG**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P160196  
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-F02-LED-E1-GZW-8030-ULG  
Description: ENTRI LED LUMINAIRE WITH UPLIGHT  
(2) LIGHTBARS WITH AccuLED OPTICS - WALL GRAZER WIDE  
Light Source: (14) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4196.1 lumens  
Efficiency: N/A  
Efficacy: 73.2 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type I - Short - Semi-Cutoff  
BUG Rating: B2 - U3 - G2

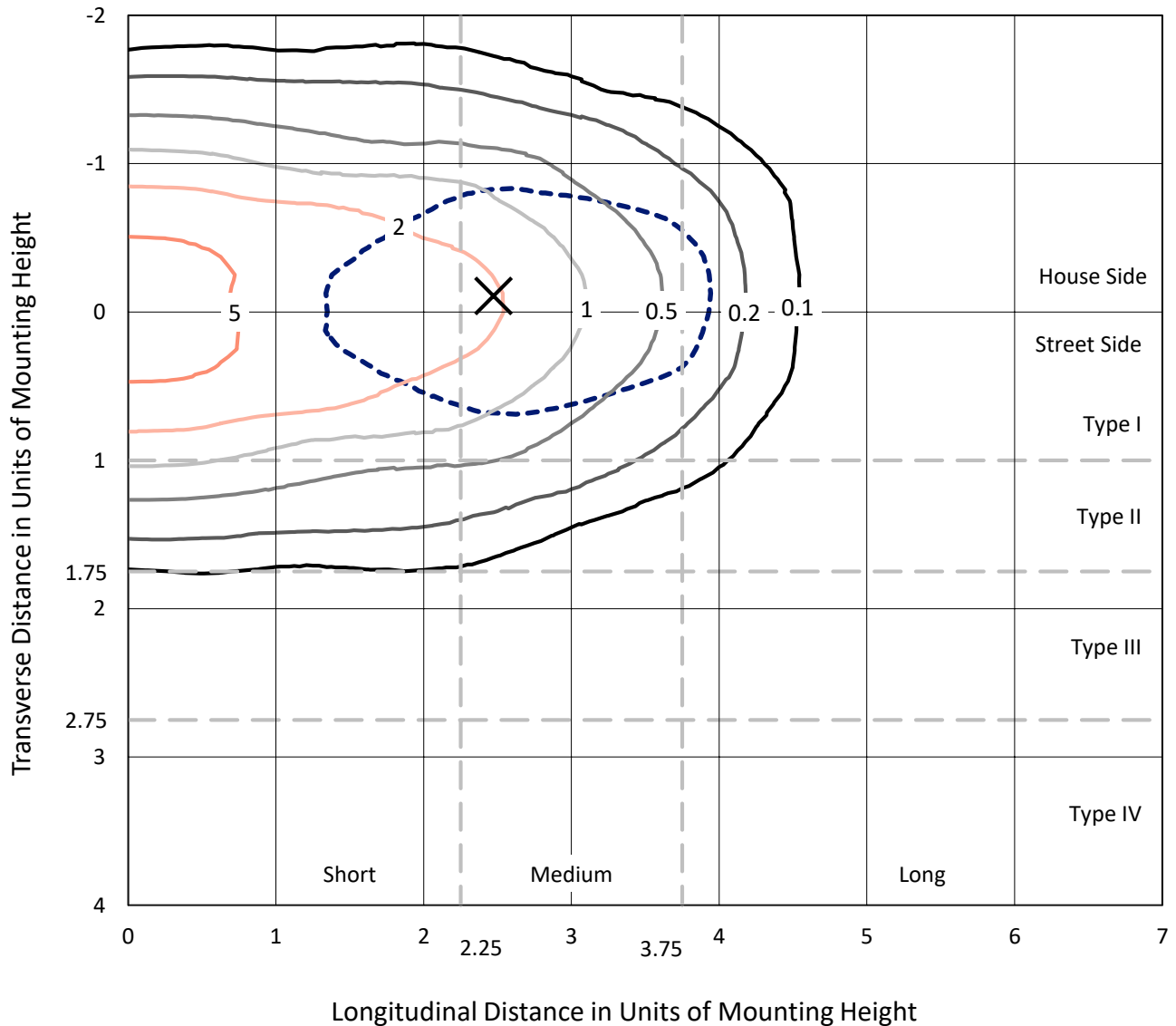
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P160196  
 CATALOG NUMBER: ENV-F02-LED-E1-GZW-8030-ULG

### Iso-Footcandle Lines of Horizontal Illumination

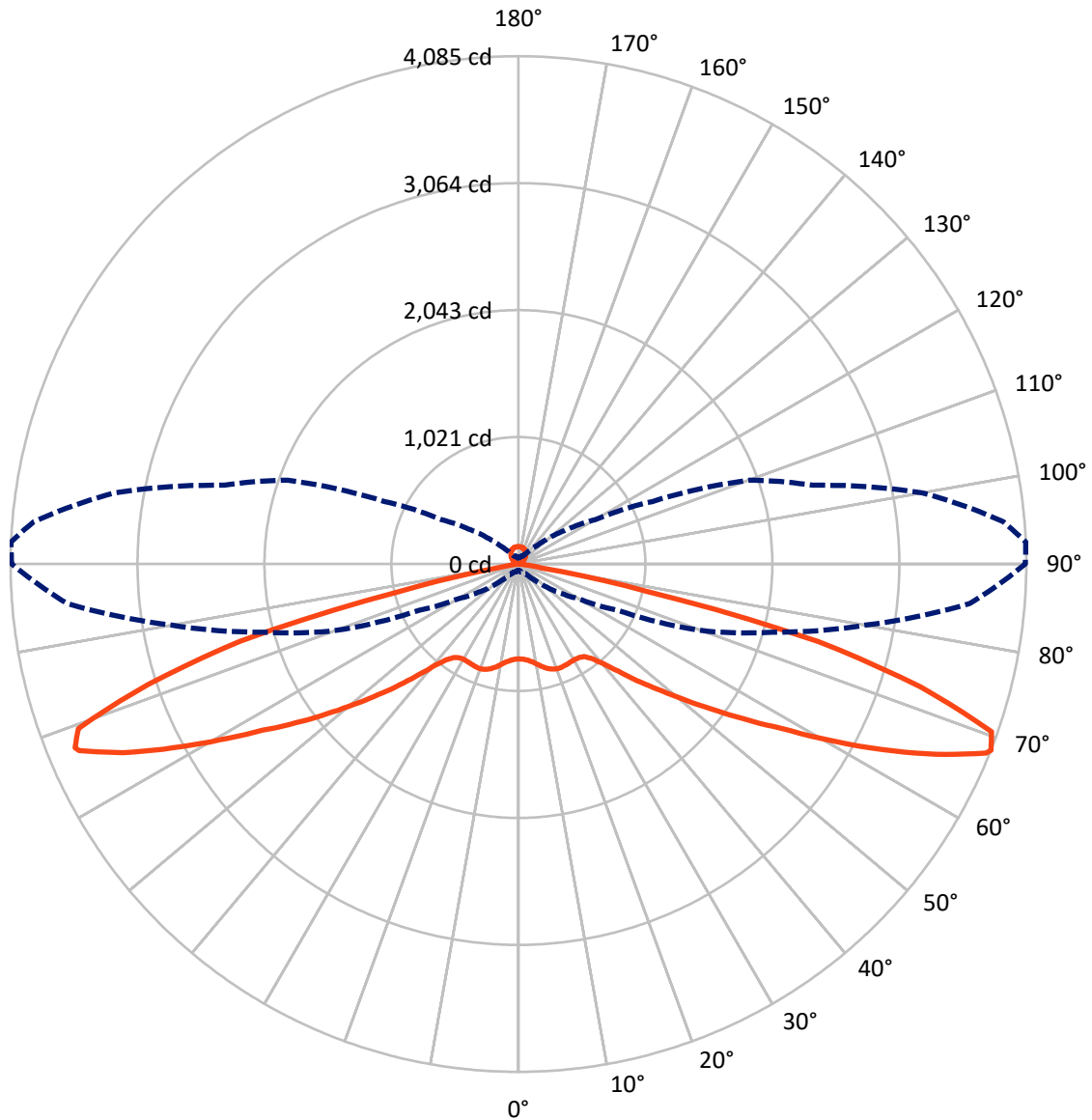
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 fc  
 Type I - Short - Semi-Cutoff

REPORT NUMBER: P160196  
CATALOG NUMBER: ENV-F02-LED-E1-GZW-8030-ULG

### Luminous Intensity Polar Plot



— Vertical Plane Through 92.5-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P160196

CATALOG NUMBER: ENV-F02-LED-E1-GZW-8030-ULG

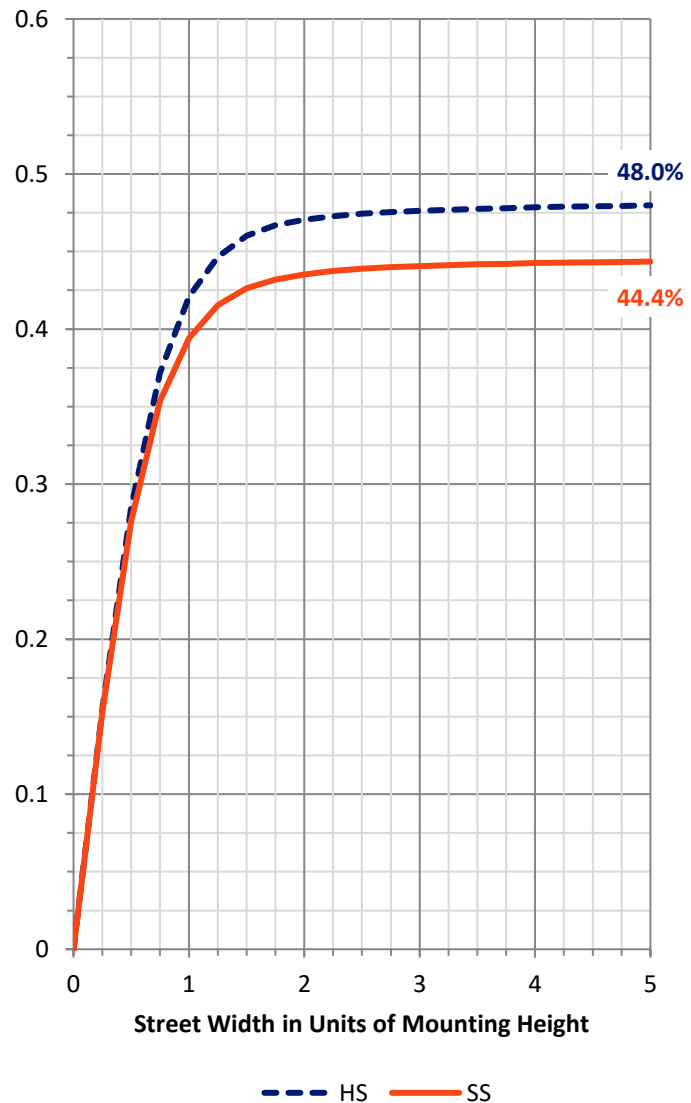
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2027.2   | 157.7  | 2185.0 |
|                    | % Fixture | 48.3     | 3.8    | 52.1   |
| <b>Street Side</b> | Lumens    | 1853.4   | 157.7  | 2011.1 |
|                    | % Fixture | 44.2     | 3.8    | 47.9   |
| <b>Total</b>       | Lumens    | 3880.6   | 315.5  | 4196.1 |
|                    | % Fixture | 92.5     | 7.5    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 75.0   | 1.8       |
| 10°-20°   | 237.3  | 5.7       |
| 20°-30°   | 384.8  | 9.2       |
| 30°-40°   | 478.4  | 11.4      |
| 40°-50°   | 594.7  | 14.2      |
| 50°-60°   | 731.6  | 17.4      |
| 60°-70°   | 865.0  | 20.6      |
| 70°-80°   | 484.4  | 11.5      |
| 80°-90°   | 29.4   | 0.7       |
| 90°-100°  | 1.3    | 0.0       |
| 100°-110° | 12.3   | 0.3       |
| 110°-120° | 25.2   | 0.6       |
| 120°-130° | 43.0   | 1.0       |
| 130°-140° | 60.0   | 1.4       |
| 140°-150° | 65.4   | 1.6       |
| 150°-160° | 56.9   | 1.4       |
| 160°-170° | 38.2   | 0.9       |
| 170°-180° | 13.3   | 0.3       |
| 0°-90°    | 3880.6 | 92.5      |
| 0°-180°   | 4196.1 | 100.0     |



REPORT NUMBER: P160196

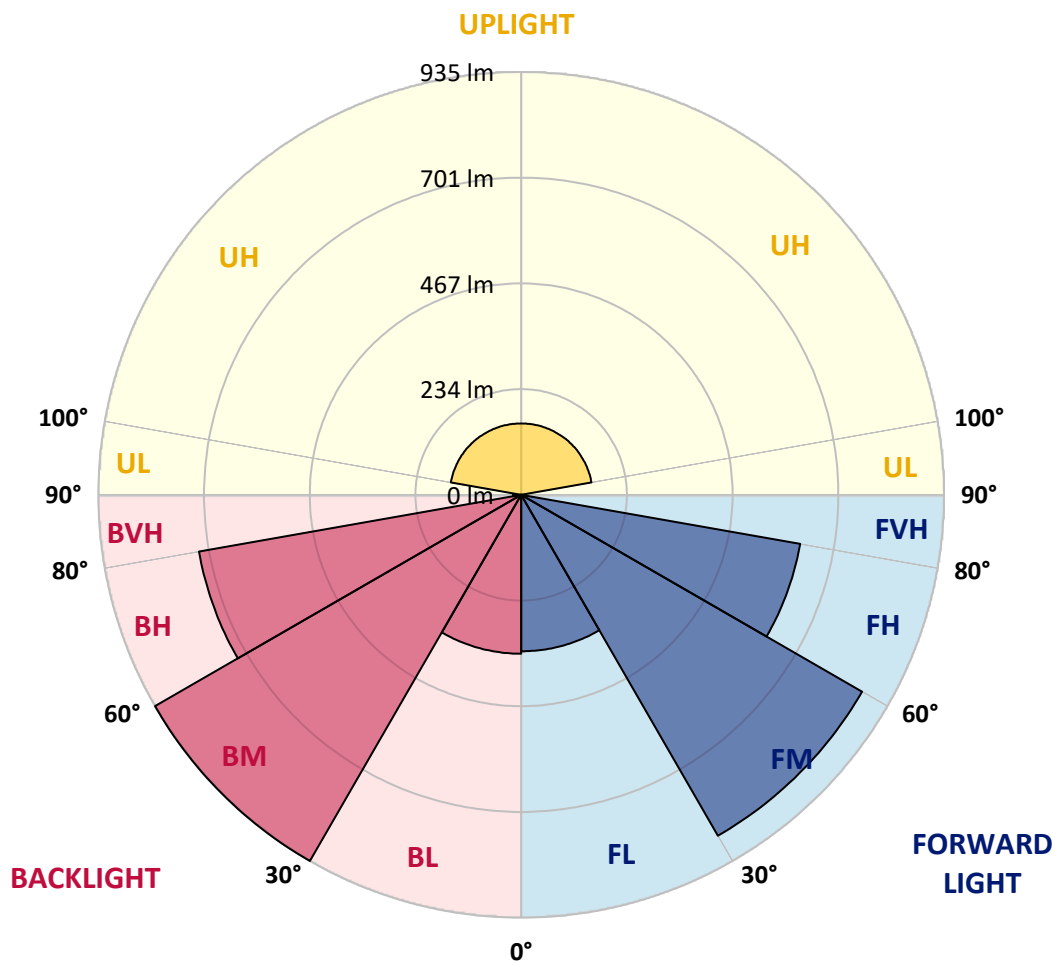
CATALOG NUMBER: ENV-F02-LED-E1-GZW-8030-ULG

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |        |         |
|------|-------------|--------|-----------|-------------------------|--------|---------|
|      |             |        |           | B                       | U      | G       |
| FL   | (0°-30°)    | 345.8  | 8.2       |                         |        |         |
| FM   | (30°-60°)   | 870.1  | 20.7      |                         |        |         |
| FH   | (60°-80°)   | 626.3  | 14.9      |                         |        | G0/660  |
| FVH  | (80°-90°)   | 11.2   | 0.3       |                         |        | G1/100  |
| BL   | (0°-30°)    | 351.2  | 8.4       | B1/500                  |        |         |
| BM   | (30°-60°)   | 934.6  | 22.3      | B1/1000                 |        |         |
| BH   | (60°-80°)   | 723.1  | 17.2      | B2/1000                 |        | G2/1000 |
| BVH  | (80°-90°)   | 18.2   | 0.4       |                         |        | G1/100  |
| UL   | (90°-100°)  | 1.3    | 0.0       |                         | U1/10  |         |
| UH   | (100°-180°) | 157.7  | 3.8       |                         | U3/500 |         |

**BUG Rating: B2-U3-G2**

Type I Short





REPORT NUMBER: P160196

CATALOG NUMBER: ENV-F02-LED-E1-GZW-8030-ULG

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 762.9 | 762.9 | 762.9 | 762.9 | 762.9 | 762.9 | 762.9 | 762.9 | 762.9 | 762.9 | 762.9 |
| 2.5°   | 766.4 | 766.4 | 766.4 | 767.1 | 767.8 | 769.2 | 768.5 | 769.9 | 767.8 | 770.6 | 770.6 |
| 5°     | 775.5 | 776.2 | 776.9 | 776.9 | 778.3 | 779.0 | 778.3 | 780.3 | 778.3 | 781.0 | 781.7 |
| 7.5°   | 783.8 | 783.8 | 784.5 | 785.2 | 786.6 | 788.0 | 788.7 | 790.8 | 790.1 | 792.9 | 795.7 |
| 10°    | 790.1 | 789.4 | 790.1 | 791.5 | 795.0 | 797.1 | 799.9 | 802.6 | 804.0 | 806.8 | 811.0 |
| 12.5°  | 792.9 | 792.2 | 794.3 | 797.8 | 801.2 | 805.4 | 809.6 | 815.9 | 820.1 | 824.2 | 830.5 |
| 15°    | 791.5 | 791.5 | 794.3 | 798.5 | 805.4 | 813.1 | 820.8 | 829.1 | 836.8 | 845.8 | 852.1 |
| 17.5°  | 778.3 | 779.6 | 783.8 | 790.8 | 801.2 | 813.1 | 825.6 | 839.6 | 852.1 | 864.6 | 873.0 |
| 20°    | 754.6 | 756.0 | 763.6 | 772.0 | 785.9 | 803.3 | 822.8 | 843.1 | 862.6 | 879.3 | 891.1 |
| 22.5°  | 725.3 | 723.9 | 730.9 | 742.0 | 760.8 | 781.7 | 806.8 | 836.8 | 863.3 | 886.9 | 903.7 |
| 25°    | 680.0 | 680.0 | 687.7 | 701.6 | 721.8 | 747.6 | 778.3 | 816.6 | 852.1 | 882.8 | 906.5 |
| 27.5°  | 631.9 | 632.6 | 642.4 | 654.2 | 677.2 | 701.6 | 737.1 | 781.7 | 824.9 | 865.3 | 900.2 |
| 30°    | 583.9 | 586.0 | 594.3 | 606.2 | 630.5 | 656.3 | 692.6 | 736.4 | 783.1 | 833.3 | 880.7 |
| 32.5°  | 534.4 | 537.2 | 544.2 | 558.1 | 584.6 | 613.1 | 650.1 | 689.1 | 733.7 | 788.7 | 850.0 |
| 35°    | 487.7 | 489.8 | 495.4 | 512.1 | 539.3 | 569.9 | 611.0 | 648.7 | 693.9 | 744.8 | 812.4 |
| 37.5°  | 443.8 | 445.9 | 452.2 | 469.6 | 496.8 | 527.4 | 567.8 | 610.3 | 657.0 | 707.2 | 774.1 |
| 40°    | 396.4 | 401.3 | 409.7 | 426.4 | 451.5 | 486.3 | 527.4 | 572.0 | 621.5 | 678.6 | 746.9 |
| 42.5°  | 353.2 | 357.4 | 365.1 | 379.7 | 404.8 | 441.7 | 484.9 | 530.9 | 584.6 | 649.4 | 726.7 |
| 45°    | 313.5 | 317.0 | 324.7 | 337.9 | 364.4 | 393.7 | 432.7 | 480.7 | 536.5 | 611.0 | 705.1 |
| 47.5°  | 275.2 | 278.7 | 287.1 | 303.1 | 324.7 | 353.2 | 388.1 | 430.6 | 482.1 | 558.1 | 664.0 |
| 50°    | 236.9 | 240.4 | 248.7 | 264.8 | 285.7 | 313.5 | 345.6 | 383.9 | 434.8 | 500.3 | 604.1 |
| 52.5°  | 195.1 | 198.6 | 206.9 | 223.0 | 243.2 | 269.6 | 302.4 | 342.1 | 389.5 | 451.5 | 537.2 |
| 55°    | 149.8 | 154.7 | 162.3 | 175.6 | 197.2 | 223.7 | 256.4 | 299.6 | 347.7 | 408.3 | 487.7 |
| 57.5°  | 108.0 | 111.5 | 120.5 | 131.0 | 149.1 | 177.0 | 206.2 | 250.8 | 304.5 | 366.5 | 445.2 |
| 60°    | 78.7  | 82.2  | 88.5  | 96.8  | 109.4 | 129.6 | 155.4 | 197.2 | 256.4 | 326.1 | 406.9 |
| 62.5°  | 65.5  | 68.3  | 74.6  | 82.9  | 89.9  | 99.6  | 115.0 | 147.0 | 204.8 | 282.2 | 367.2 |
| 65°    | 57.8  | 59.9  | 65.5  | 73.9  | 79.4  | 83.6  | 89.9  | 111.5 | 158.9 | 234.8 | 328.2 |
| 67.5°  | 51.6  | 53.6  | 57.8  | 64.8  | 71.1  | 73.2  | 76.6  | 91.3  | 124.7 | 190.9 | 287.1 |
| 68°    | 50.9  | 53.0  | 56.4  | 62.7  | 69.0  | 71.1  | 74.6  | 89.2  | 121.2 | 181.8 | 275.9 |
| 70°    | 47.4  | 48.8  | 52.3  | 57.1  | 62.0  | 63.4  | 67.6  | 82.2  | 113.6 | 158.9 | 223.7 |
| 72.5°  | 43.2  | 43.9  | 46.0  | 50.2  | 55.0  | 55.7  | 59.9  | 71.8  | 89.2  | 117.1 | 166.5 |
| 75°    | 36.2  | 36.9  | 39.7  | 43.2  | 46.0  | 47.4  | 48.8  | 54.3  | 60.6  | 72.5  | 98.2  |
| 77.5°  | 27.9  | 29.3  | 31.4  | 33.4  | 37.6  | 39.0  | 37.6  | 41.8  | 44.6  | 49.5  | 59.9  |
| 80°    | 16.7  | 16.7  | 18.8  | 20.9  | 23.0  | 26.5  | 25.1  | 29.3  | 31.4  | 34.1  | 40.4  |
| 82.5°  | 2.8   | 3.5   | 3.5   | 4.9   | 6.3   | 7.7   | 8.4   | 10.5  | 13.2  | 16.0  | 21.6  |
| 85°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.7   | 0.7   | 2.1   |
| 87.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 90°    | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   |
| 92.5°  | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   |
| 95°    | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| 97.5°  | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   |
| 100°   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   |
| 102.5° | 8.8   | 8.8   | 8.8   | 8.8   | 8.8   | 8.8   | 8.8   | 8.8   | 8.8   | 8.8   | 8.8   |
| 105°   | 11.8  | 11.8  | 11.8  | 11.8  | 11.8  | 11.8  | 11.8  | 11.8  | 11.8  | 11.8  | 11.8  |
| 107.5° | 14.7  | 14.7  | 14.7  | 14.7  | 14.7  | 14.7  | 14.7  | 14.7  | 14.7  | 14.7  | 14.7  |



REPORT NUMBER: P160196

CATALOG NUMBER: ENV-F02-LED-E1-GZW-8030-ULG

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 17.8  | 17.8  | 17.8  | 17.8  | 17.8  | 17.8  | 17.8  | 17.8  | 17.8  | 17.8  | 17.8  |
| 112.5° | 21.2  | 21.2  | 21.2  | 21.2  | 21.2  | 21.2  | 21.2  | 21.2  | 21.2  | 21.2  | 21.2  |
| 115°   | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  |
| 117.5° | 29.5  | 29.5  | 29.5  | 29.5  | 29.5  | 29.5  | 29.5  | 29.5  | 29.5  | 29.5  | 29.5  |
| 120°   | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  |
| 122.5° | 40.9  | 40.9  | 40.9  | 40.9  | 40.9  | 40.9  | 40.9  | 40.9  | 40.9  | 40.9  | 40.9  |
| 125°   | 47.8  | 47.8  | 47.8  | 47.8  | 47.8  | 47.8  | 47.8  | 47.8  | 47.8  | 47.8  | 47.8  |
| 127.5° | 55.3  | 55.3  | 55.3  | 55.3  | 55.3  | 55.3  | 55.3  | 55.3  | 55.3  | 55.3  | 55.3  |
| 130°   | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  |
| 132.5° | 70.5  | 70.5  | 70.5  | 70.5  | 70.5  | 70.5  | 70.5  | 70.5  | 70.5  | 70.5  | 70.5  |
| 135°   | 77.9  | 77.9  | 77.9  | 77.9  | 77.9  | 77.9  | 77.9  | 77.9  | 77.9  | 77.9  | 77.9  |
| 137.5° | 85.3  | 85.3  | 85.3  | 85.3  | 85.3  | 85.3  | 85.3  | 85.3  | 85.3  | 85.3  | 85.3  |
| 140°   | 92.5  | 92.5  | 92.5  | 92.5  | 92.5  | 92.5  | 92.5  | 92.5  | 92.5  | 92.5  | 92.5  |
| 142.5° | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  |
| 145°   | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 |
| 147.5° | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 |
| 150°   | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 |
| 152.5° | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 |
| 155°   | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 |
| 157.5° | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 |
| 160°   | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 |
| 162.5° | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 |
| 165°   | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 |
| 167.5° | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 |
| 170°   | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 |
| 172.5° | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 |
| 175°   | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 |
| 177.5° | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 |
| 180°   | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 |





REPORT NUMBER: P160196

CATALOG NUMBER: ENV-F02-LED-E1-GZW-8030-ULG

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 92.5°  | 95°    | 100°   |
|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 762.9 | 762.9 | 762.9  | 762.9  | 762.9  | 762.9  | 762.9  | 762.9  | 762.9  | 762.9  | 762.9  |
| 2.5°   | 766.4 | 768.5 | 768.5  | 767.8  | 767.8  | 767.8  | 765.7  | 766.4  | 767.1  | 769.2  | 766.4  |
| 5°     | 777.6 | 779.6 | 779.0  | 778.3  | 778.3  | 778.3  | 775.5  | 776.2  | 776.9  | 778.3  | 775.5  |
| 7.5°   | 792.2 | 794.3 | 795.0  | 795.0  | 795.0  | 796.4  | 792.2  | 792.2  | 793.6  | 795.0  | 790.8  |
| 10°    | 813.8 | 813.8 | 815.9  | 817.3  | 818.7  | 820.1  | 817.3  | 815.9  | 818.7  | 818.7  | 813.8  |
| 12.5°  | 834.0 | 835.4 | 838.9  | 841.7  | 842.4  | 845.1  | 845.1  | 844.4  | 846.5  | 845.8  | 840.3  |
| 15°    | 857.0 | 858.4 | 861.2  | 864.6  | 865.3  | 868.1  | 868.1  | 868.8  | 870.9  | 872.3  | 864.0  |
| 17.5°  | 878.6 | 880.7 | 880.7  | 881.4  | 882.8  | 884.9  | 886.2  | 886.9  | 889.0  | 890.4  | 882.1  |
| 20°    | 896.7 | 898.8 | 895.3  | 892.5  | 889.7  | 891.1  | 893.9  | 896.7  | 898.1  | 898.8  | 888.3  |
| 22.5°  | 910.6 | 911.3 | 905.8  | 898.1  | 890.4  | 889.7  | 893.2  | 898.1  | 899.5  | 898.8  | 884.2  |
| 25°    | 918.3 | 920.4 | 914.8  | 903.0  | 889.0  | 884.2  | 887.6  | 893.9  | 896.7  | 893.9  | 876.5  |
| 27.5°  | 918.3 | 926.0 | 923.2  | 910.6  | 891.8  | 878.6  | 880.7  | 890.4  | 892.5  | 889.0  | 868.8  |
| 30°    | 911.3 | 927.4 | 930.8  | 923.2  | 903.7  | 880.7  | 877.9  | 889.0  | 891.8  | 885.6  | 865.3  |
| 32.5°  | 897.4 | 926.7 | 940.6  | 941.3  | 926.0  | 897.4  | 883.5  | 894.6  | 896.7  | 889.0  | 872.3  |
| 35°    | 877.9 | 926.0 | 953.1  | 966.4  | 961.5  | 932.9  | 908.5  | 915.5  | 914.1  | 905.8  | 899.5  |
| 37.5°  | 856.3 | 926.0 | 971.2  | 1001.9 | 1013.1 | 998.4  | 966.4  | 962.9  | 966.4  | 953.8  | 950.3  |
| 40°    | 832.6 | 928.1 | 997.0  | 1051.4 | 1084.8 | 1089.7 | 1061.1 | 1051.4 | 1055.6 | 1043.7 | 1048.6 |
| 42.5°  | 818.7 | 930.8 | 1031.2 | 1109.2 | 1174.0 | 1223.5 | 1210.9 | 1181.7 | 1179.6 | 1181.0 | 1191.4 |
| 45°    | 811.7 | 937.8 | 1065.3 | 1174.7 | 1265.3 | 1375.4 | 1387.2 | 1334.9 | 1337.7 | 1345.4 | 1361.4 |
| 47.5°  | 804.0 | 951.0 | 1105.0 | 1243.0 | 1364.9 | 1519.6 | 1577.4 | 1507.0 | 1501.5 | 1530.0 | 1534.9 |
| 50°    | 776.2 | 967.1 | 1150.3 | 1319.6 | 1469.4 | 1681.9 | 1773.2 | 1701.4 | 1702.8 | 1729.3 | 1719.5 |
| 52.5°  | 712.1 | 967.8 | 1198.4 | 1396.3 | 1573.9 | 1842.2 | 1980.8 | 1933.4 | 1930.0 | 1955.7 | 1904.2 |
| 55°    | 623.6 | 923.9 | 1237.4 | 1471.5 | 1672.9 | 1991.3 | 2195.4 | 2205.9 | 2198.9 | 2203.1 | 2091.6 |
| 57.5°  | 552.5 | 815.9 | 1241.6 | 1534.9 | 1756.5 | 2132.7 | 2415.6 | 2490.8 | 2491.5 | 2473.4 | 2275.5 |
| 60°    | 506.5 | 694.6 | 1187.2 | 1587.2 | 1854.0 | 2313.2 | 2702.6 | 2871.2 | 2881.0 | 2807.1 | 2521.5 |
| 62.5°  | 468.2 | 633.3 | 1075.1 | 1640.8 | 1966.2 | 2495.7 | 3012.0 | 3289.3 | 3290.0 | 3166.7 | 2792.5 |
| 65°    | 438.2 | 599.9 | 951.7  | 1620.6 | 2052.6 | 2672.7 | 3339.5 | 3710.1 | 3692.0 | 3556.1 | 3049.6 |
| 67.5°  | 404.8 | 569.9 | 894.6  | 1589.3 | 2126.4 | 2836.4 | 3627.9 | 4053.6 | 4058.5 | 3891.3 | 3287.9 |
| 68°    | 397.8 | 558.8 | 880.0  | 1562.8 | 2118.1 | 2830.8 | 3643.2 | 4076.6 | 4085.0 | 3912.9 | 3298.3 |
| 70°    | 342.8 | 487.7 | 765.7  | 1364.9 | 1967.6 | 2679.6 | 3545.7 | 4011.8 | 4037.6 | 3845.3 | 3182.0 |
| 72.5°  | 228.5 | 337.2 | 511.4  | 964.3  | 1516.1 | 2129.2 | 2902.6 | 3360.4 | 3382.0 | 3252.4 | 2642.7 |
| 75°    | 144.9 | 204.8 | 271.7  | 556.0  | 1018.6 | 1527.9 | 2188.4 | 2455.3 | 2490.8 | 2448.3 | 1978.7 |
| 77.5°  | 87.8  | 143.5 | 167.2  | 269.6  | 536.5  | 714.9  | 988.7  | 1006.1 | 1046.5 | 1021.4 | 1025.6 |
| 80°    | 57.8  | 99.6  | 121.9  | 183.2  | 186.0  | 154.0  | 174.9  | 176.3  | 186.7  | 198.6  | 206.9  |
| 82.5°  | 32.7  | 60.6  | 85.0   | 125.4  | 110.8  | 57.1   | 48.8   | 50.9   | 52.3   | 53.6   | 63.4   |
| 85°    | 4.9   | 11.1  | 23.7   | 39.0   | 39.7   | 18.8   | 17.4   | 16.0   | 16.7   | 18.1   | 23.0   |
| 87.5°  | 0.0   | 0.0   | 0.0    | 0.0    | 0.7    | 1.4    | 2.1    | 2.1    | 2.1    | 4.2    | 4.2    |
| 90°    | 0.1   | 0.1   | 0.1    | 0.1    | 0.1    | 0.1    | 0.1    | 0.1    | 0.1    | 0.1    | 0.1    |
| 92.5°  | 0.1   | 0.1   | 0.1    | 0.1    | 0.1    | 0.1    | 0.1    | 0.1    | 0.1    | 0.1    | 0.1    |
| 95°    | 0.5   | 0.5   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 97.5°  | 1.5   | 1.5   | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    |
| 100°   | 5.0   | 5.0   | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    |
| 102.5° | 8.8   | 8.8   | 8.8    | 8.8    | 8.8    | 8.8    | 8.8    | 8.8    | 8.8    | 8.8    | 8.8    |
| 105°   | 11.8  | 11.8  | 11.8   | 11.8   | 11.8   | 11.8   | 11.8   | 11.8   | 11.8   | 11.8   | 11.8   |
| 107.5° | 14.7  | 14.7  | 14.7   | 14.7   | 14.7   | 14.7   | 14.7   | 14.7   | 14.7   | 14.7   | 14.7   |



REPORT NUMBER: P160196

CATALOG NUMBER: ENV-F02-LED-E1-GZW-8030-ULG

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 92.5° | 95°   | 100°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 17.8  | 17.8  | 17.8  | 17.8  | 17.8  | 17.8  | 17.8  | 17.8  | 17.8  | 17.8  | 17.8  |
| 112.5° | 21.2  | 21.2  | 21.2  | 21.2  | 21.2  | 21.2  | 21.2  | 21.2  | 21.2  | 21.2  | 21.2  |
| 115°   | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  |
| 117.5° | 29.5  | 29.5  | 29.5  | 29.5  | 29.5  | 29.5  | 29.5  | 29.5  | 29.5  | 29.5  | 29.5  |
| 120°   | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  |
| 122.5° | 40.9  | 40.9  | 40.9  | 40.9  | 40.9  | 40.9  | 40.9  | 40.9  | 40.9  | 40.9  | 40.9  |
| 125°   | 47.8  | 47.8  | 47.8  | 47.8  | 47.8  | 47.8  | 47.8  | 47.8  | 47.8  | 47.8  | 47.8  |
| 127.5° | 55.3  | 55.3  | 55.3  | 55.3  | 55.3  | 55.3  | 55.3  | 55.3  | 55.3  | 55.3  | 55.3  |
| 130°   | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  |
| 132.5° | 70.5  | 70.5  | 70.5  | 70.5  | 70.5  | 70.5  | 70.5  | 70.5  | 70.5  | 70.5  | 70.5  |
| 135°   | 77.9  | 77.9  | 77.9  | 77.9  | 77.9  | 77.9  | 77.9  | 77.9  | 77.9  | 77.9  | 77.9  |
| 137.5° | 85.3  | 85.3  | 85.3  | 85.3  | 85.3  | 85.3  | 85.3  | 85.3  | 85.3  | 85.3  | 85.3  |
| 140°   | 92.5  | 92.5  | 92.5  | 92.5  | 92.5  | 92.5  | 92.5  | 92.5  | 92.5  | 92.5  | 92.5  |
| 142.5° | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  |
| 145°   | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 |
| 147.5° | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 |
| 150°   | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 |
| 152.5° | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 |
| 155°   | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 |
| 157.5° | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 |
| 160°   | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 |
| 162.5° | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 |
| 165°   | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 |
| 167.5° | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 |
| 170°   | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 |
| 172.5° | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 |
| 175°   | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 |
| 177.5° | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 |
| 180°   | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 |



REPORT NUMBER: P160196  
 CATALOG NUMBER: ENV-F02-LED-E1-GZW-8030-ULG

**CANDELA DISTRIBUTION (continued):**

|        | 105°   | 110°   | 115°   | 120°   | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  |
|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 762.9  | 762.9  | 762.9  | 762.9  | 762.9 | 762.9 | 762.9 | 762.9 | 762.9 | 762.9 | 762.9 |
| 2.5°   | 765.7  | 765.0  | 765.7  | 763.6  | 765.7 | 765.0 | 765.0 | 765.0 | 764.3 | 765.0 | 765.0 |
| 5°     | 774.1  | 774.1  | 774.1  | 772.7  | 774.1 | 774.1 | 774.1 | 774.1 | 773.4 | 774.1 | 774.8 |
| 7.5°   | 790.1  | 790.1  | 789.4  | 787.3  | 788.7 | 788.7 | 788.0 | 786.6 | 785.2 | 785.9 | 785.2 |
| 10°    | 811.7  | 813.1  | 808.9  | 808.9  | 806.8 | 804.0 | 801.9 | 799.9 | 799.2 | 797.8 | 795.0 |
| 12.5°  | 838.2  | 837.5  | 831.9  | 829.8  | 828.4 | 822.8 | 818.7 | 816.6 | 813.8 | 810.3 | 806.1 |
| 15°    | 861.9  | 859.1  | 854.9  | 852.8  | 850.7 | 844.4 | 838.9 | 834.0 | 830.5 | 825.6 | 819.4 |
| 17.5°  | 877.9  | 875.1  | 873.0  | 872.3  | 872.3 | 866.7 | 861.9 | 855.6 | 847.9 | 838.9 | 828.4 |
| 20°    | 881.4  | 881.4  | 882.1  | 886.2  | 890.4 | 888.3 | 882.8 | 875.1 | 864.0 | 849.3 | 833.3 |
| 22.5°  | 876.5  | 879.3  | 885.6  | 896.0  | 905.1 | 905.8 | 900.2 | 889.0 | 870.2 | 849.3 | 825.6 |
| 25°    | 868.1  | 875.8  | 889.0  | 903.7  | 916.2 | 916.2 | 906.5 | 890.4 | 864.6 | 834.7 | 803.3 |
| 27.5°  | 864.0  | 879.3  | 898.1  | 913.4  | 921.8 | 916.9 | 899.5 | 876.5 | 841.0 | 802.6 | 766.4 |
| 30°    | 868.8  | 892.5  | 912.7  | 923.2  | 924.6 | 908.5 | 878.6 | 844.4 | 802.6 | 756.7 | 719.7 |
| 32.5°  | 886.9  | 915.5  | 930.8  | 932.9  | 923.2 | 893.2 | 846.5 | 799.2 | 752.5 | 710.0 | 672.3 |
| 35°    | 923.9  | 948.3  | 953.8  | 945.5  | 921.1 | 870.9 | 804.0 | 748.3 | 706.5 | 666.1 | 627.1 |
| 37.5°  | 983.8  | 994.9  | 984.5  | 960.1  | 914.1 | 843.7 | 765.0 | 710.7 | 666.1 | 626.4 | 583.2 |
| 40°    | 1068.8 | 1056.3 | 1026.3 | 978.2  | 906.5 | 813.8 | 734.4 | 680.0 | 630.5 | 586.7 | 543.5 |
| 42.5°  | 1174.7 | 1130.8 | 1068.8 | 999.1  | 898.1 | 794.3 | 712.1 | 649.4 | 595.0 | 546.2 | 501.0 |
| 45°    | 1293.1 | 1211.6 | 1127.3 | 1022.8 | 895.3 | 782.4 | 685.6 | 611.7 | 548.3 | 499.6 | 455.0 |
| 47.5°  | 1413.7 | 1297.3 | 1186.5 | 1048.6 | 898.8 | 761.5 | 645.2 | 562.3 | 496.1 | 448.7 | 406.9 |
| 50°    | 1535.6 | 1393.5 | 1255.5 | 1082.0 | 896.7 | 719.0 | 590.1 | 505.8 | 444.5 | 402.0 | 364.4 |
| 52.5°  | 1658.2 | 1495.9 | 1326.6 | 1112.0 | 868.8 | 652.1 | 529.5 | 457.8 | 398.5 | 357.4 | 320.5 |
| 55°    | 1778.8 | 1595.5 | 1396.3 | 1121.0 | 788.0 | 581.8 | 478.7 | 409.7 | 351.2 | 309.4 | 268.9 |
| 57.5°  | 1893.0 | 1685.4 | 1445.0 | 1068.1 | 688.4 | 526.7 | 433.4 | 365.8 | 303.8 | 255.7 | 216.0 |
| 60°    | 2035.2 | 1771.1 | 1459.0 | 939.9  | 608.9 | 480.7 | 392.3 | 314.9 | 245.3 | 194.4 | 158.2 |
| 62.5°  | 2190.5 | 1887.5 | 1437.4 | 817.3  | 562.3 | 440.3 | 341.4 | 255.0 | 187.4 | 138.0 | 110.8 |
| 65°    | 2304.8 | 1935.5 | 1328.0 | 751.8  | 533.0 | 400.6 | 287.1 | 197.9 | 129.6 | 94.8  | 84.3  |
| 67.5°  | 2456.7 | 1982.9 | 1215.1 | 719.7  | 501.0 | 349.1 | 221.6 | 142.8 | 100.3 | 78.7  | 72.5  |
| 68°    | 2446.2 | 1969.7 | 1191.4 | 711.4  | 491.2 | 330.9 | 209.0 | 140.0 | 97.5  | 76.6  | 70.4  |
| 70°    | 2304.8 | 1807.3 | 1034.7 | 630.5  | 406.9 | 257.8 | 179.8 | 127.5 | 89.9  | 69.7  | 64.1  |
| 72.5°  | 1890.9 | 1401.8 | 742.0  | 415.3  | 264.8 | 188.8 | 133.1 | 96.1  | 74.6  | 61.3  | 57.1  |
| 75°    | 1338.4 | 876.5  | 372.1  | 239.0  | 166.5 | 109.4 | 75.2  | 62.0  | 55.0  | 48.8  | 48.8  |
| 77.5°  | 752.5  | 458.5  | 196.5  | 163.7  | 94.1  | 63.4  | 50.2  | 46.7  | 43.2  | 39.7  | 43.9  |
| 80°    | 245.3  | 239.0  | 144.9  | 112.2  | 65.5  | 46.7  | 39.0  | 36.9  | 34.8  | 31.4  | 39.0  |
| 82.5°  | 132.4  | 163.7  | 104.5  | 80.1   | 48.1  | 33.4  | 29.3  | 30.0  | 27.2  | 24.4  | 29.3  |
| 85°    | 59.2   | 78.0   | 69.7   | 55.7   | 30.0  | 18.8  | 15.3  | 18.1  | 16.0  | 14.6  | 13.9  |
| 87.5°  | 23.0   | 38.3   | 27.9   | 16.0   | 7.0   | 4.2   | 4.2   | 3.5   | 2.8   | 2.8   | 2.1   |
| 90°    | 0.1    | 0.1    | 0.1    | 0.1    | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   |
| 92.5°  | 0.1    | 0.1    | 0.1    | 0.1    | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   |
| 95°    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| 97.5°  | 1.5    | 1.5    | 1.5    | 1.5    | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   |
| 100°   | 5.0    | 5.0    | 5.0    | 5.0    | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   |
| 102.5° | 8.8    | 8.8    | 8.8    | 8.8    | 8.8   | 8.8   | 8.8   | 8.8   | 8.8   | 8.8   | 8.8   |
| 105°   | 11.8   | 11.8   | 11.8   | 11.8   | 11.8  | 11.8  | 11.8  | 11.8  | 11.8  | 11.8  | 11.8  |
| 107.5° | 14.7   | 14.7   | 14.7   | 14.7   | 14.7  | 14.7  | 14.7  | 14.7  | 14.7  | 14.7  | 14.7  |



REPORT NUMBER: P160196  
 CATALOG NUMBER: ENV-F02-LED-E1-GZW-8030-ULG

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

|        | 105°  | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  |        |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 110°   | 17.8  | 17.8  | 17.8  | 17.8  | 17.8  | 17.8  | 17.8  | 17.8  | 17.8  | 17.8  | 17.8  | 0°     |
| 112.5° | 21.2  | 21.2  | 21.2  | 21.2  | 21.2  | 21.2  | 21.2  | 21.2  | 21.2  | 21.2  | 21.2  | 2.5°   |
| 115°   | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 25.0  | 5°     |
| 117.5° | 29.5  | 29.5  | 29.5  | 29.5  | 29.5  | 29.5  | 29.5  | 29.5  | 29.5  | 29.5  | 29.5  | 7.5°   |
| 120°   | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 10°    |
| 122.5° | 40.9  | 40.9  | 40.9  | 40.9  | 40.9  | 40.9  | 40.9  | 40.9  | 40.9  | 40.9  | 40.9  | 12.5°  |
| 125°   | 47.8  | 47.8  | 47.8  | 47.8  | 47.8  | 47.8  | 47.8  | 47.8  | 47.8  | 47.8  | 47.8  | 15°    |
| 127.5° | 55.3  | 55.3  | 55.3  | 55.3  | 55.3  | 55.3  | 55.3  | 55.3  | 55.3  | 55.3  | 55.3  | 17.5°  |
| 130°   | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  | 20°    |
| 132.5° | 70.5  | 70.5  | 70.5  | 70.5  | 70.5  | 70.5  | 70.5  | 70.5  | 70.5  | 70.5  | 70.5  | 22.5°  |
| 135°   | 77.9  | 77.9  | 77.9  | 77.9  | 77.9  | 77.9  | 77.9  | 77.9  | 77.9  | 77.9  | 77.9  | 25°    |
| 137.5° | 85.3  | 85.3  | 85.3  | 85.3  | 85.3  | 85.3  | 85.3  | 85.3  | 85.3  | 85.3  | 85.3  | 27.5°  |
| 140°   | 92.5  | 92.5  | 92.5  | 92.5  | 92.5  | 92.5  | 92.5  | 92.5  | 92.5  | 92.5  | 92.5  | 30°    |
| 142.5° | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 32.5°  |
| 145°   | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 35°    |
| 147.5° | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 37.5°  |
| 150°   | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 40°    |
| 152.5° | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 42.5°  |
| 155°   | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 45°    |
| 157.5° | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 47.5°  |
| 160°   | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 50°    |
| 162.5° | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 52.5°  |
| 165°   | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 55°    |
| 167.5° | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 57.5°  |
| 170°   | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 60°    |
| 172.5° | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 62.5°  |
| 175°   | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 65°    |
| 177.5° | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 67.5°  |
| 180°   | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 68°    |
|        |       |       |       |       |       |       |       |       |       |       |       | 70°    |
|        |       |       |       |       |       |       |       |       |       |       |       | 72.5°  |
|        |       |       |       |       |       |       |       |       |       |       |       | 75°    |
|        |       |       |       |       |       |       |       |       |       |       |       | 77.5°  |
|        |       |       |       |       |       |       |       |       |       |       |       | 80°    |
|        |       |       |       |       |       |       |       |       |       |       |       | 82.5°  |
|        |       |       |       |       |       |       |       |       |       |       |       | 85°    |
|        |       |       |       |       |       |       |       |       |       |       |       | 87.5°  |
|        |       |       |       |       |       |       |       |       |       |       |       | 90°    |
|        |       |       |       |       |       |       |       |       |       |       |       | 92.5°  |
|        |       |       |       |       |       |       |       |       |       |       |       | 95°    |
|        |       |       |       |       |       |       |       |       |       |       |       | 97.5°  |
|        |       |       |       |       |       |       |       |       |       |       |       | 100°   |
|        |       |       |       |       |       |       |       |       |       |       |       | 102.5° |
|        |       |       |       |       |       |       |       |       |       |       |       | 105°   |
|        |       |       |       |       |       |       |       |       |       |       |       | 107.5° |

NUMBER: P160196  
 NUMBER: ENV-F02-LED-E1-GZW-8030-ULG

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

| 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|
| 762.9 | 762.9 | 762.9 | 762.9 | 762.9 |
| 762.9 | 762.9 | 762.2 | 761.5 | 760.1 |
| 772.7 | 772.7 | 772.0 | 771.3 | 769.9 |
| 783.1 | 782.4 | 781.7 | 781.0 | 779.6 |
| 794.3 | 792.9 | 792.9 | 793.6 | 792.9 |
| 805.4 | 803.3 | 801.2 | 800.5 | 802.6 |
| 816.6 | 812.4 | 808.9 | 808.2 | 808.2 |
| 822.8 | 815.9 | 809.6 | 807.5 | 807.5 |
| 821.5 | 808.9 | 800.5 | 796.4 | 797.1 |
| 808.2 | 790.8 | 779.6 | 774.1 | 772.0 |
| 780.3 | 759.4 | 745.5 | 737.8 | 738.5 |
| 738.5 | 716.2 | 700.9 | 696.7 | 692.6 |
| 689.1 | 666.8 | 651.4 | 642.4 | 643.1 |
| 640.3 | 615.9 | 602.0 | 591.5 | 590.1 |
| 593.6 | 567.1 | 550.4 | 542.8 | 541.4 |
| 547.6 | 519.8 | 504.4 | 497.5 | 492.6 |
| 505.1 | 480.1 | 461.9 | 451.5 | 449.4 |
| 463.3 | 434.8 | 416.6 | 409.0 | 406.9 |
| 416.0 | 388.8 | 372.8 | 366.5 | 365.1 |
| 373.5 | 347.7 | 334.4 | 326.1 | 323.3 |
| 332.3 | 308.0 | 292.6 | 285.0 | 283.6 |
| 289.1 | 264.8 | 248.7 | 242.5 | 236.9 |
| 241.8 | 216.0 | 200.0 | 188.8 | 184.6 |
| 186.7 | 163.7 | 147.0 | 139.3 | 131.7 |
| 133.8 | 113.6 | 100.3 | 94.1  | 88.5  |
| 94.8  | 81.5  | 73.2  | 66.9  | 63.4  |
| 78.0  | 71.8  | 62.7  | 57.1  | 54.3  |
| 69.0  | 62.7  | 55.7  | 50.9  | 48.8  |
| 67.6  | 61.3  | 54.3  | 49.5  | 48.1  |
| 62.0  | 55.7  | 49.5  | 46.0  | 44.6  |
| 55.0  | 50.2  | 44.6  | 41.1  | 39.7  |
| 47.4  | 42.5  | 39.0  | 36.2  | 34.1  |
| 41.8  | 34.8  | 33.4  | 30.7  | 29.3  |
| 34.8  | 31.4  | 28.6  | 26.5  | 25.1  |
| 28.6  | 23.7  | 20.2  | 18.1  | 17.4  |
| 16.0  | 14.6  | 11.8  | 9.1   | 8.4   |
| 1.4   | 0.7   | 0.7   | 0.0   | 0.0   |
| 0.1   | 0.1   | 0.1   | 0.1   | 0.1   |
| 0.1   | 0.1   | 0.1   | 0.1   | 0.1   |
| 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| 1.5   | 1.5   | 1.5   | 1.5   | 1.5   |
| 5.0   | 5.0   | 5.0   | 5.0   | 5.0   |
| 8.8   | 8.8   | 8.8   | 8.8   | 8.8   |
| 11.8  | 11.8  | 11.8  | 11.8  | 11.8  |
| 14.7  | 14.7  | 14.7  | 14.7  | 14.7  |

**CANDELA DISTRIBUTION:**

|        | 160°  |
|--------|-------|
| 110°   | 17.8  |
| 112.5° | 21.2  |
| 115°   | 25.0  |
| 117.5° | 29.5  |
| 120°   | 34.8  |
| 122.5° | 40.9  |
| 125°   | 47.8  |
| 127.5° | 55.3  |
| 130°   | 63.0  |
| 132.5° | 70.5  |
| 135°   | 77.9  |
| 137.5° | 85.3  |
| 140°   | 92.5  |
| 142.5° | 99.2  |
| 145°   | 104.9 |
| 147.5° | 110.1 |
| 150°   | 115.1 |
| 152.5° | 119.7 |
| 155°   | 123.7 |
| 157.5° | 127.0 |
| 160°   | 130.3 |
| 162.5° | 133.5 |
| 165°   | 136.0 |
| 167.5° | 137.1 |
| 170°   | 137.4 |
| 172.5° | 138.6 |
| 175°   | 140.5 |
| 177.5° | 141.1 |
| 180°   | 140.8 |

'160196

ENV-F02-LED-E1-GZW-8030-ULG

**TION (continued):**

| 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|-------|
| 17.8  | 17.8  | 17.8  | 17.8  |
| 21.2  | 21.2  | 21.2  | 21.2  |
| 25.0  | 25.0  | 25.0  | 25.0  |
| 29.5  | 29.5  | 29.5  | 29.5  |
| 34.8  | 34.8  | 34.8  | 34.8  |
| 40.9  | 40.9  | 40.9  | 40.9  |
| 47.8  | 47.8  | 47.8  | 47.8  |
| 55.3  | 55.3  | 55.3  | 55.3  |
| 63.0  | 63.0  | 63.0  | 63.0  |
| 70.5  | 70.5  | 70.5  | 70.5  |
| 77.9  | 77.9  | 77.9  | 77.9  |
| 85.3  | 85.3  | 85.3  | 85.3  |
| 92.5  | 92.5  | 92.5  | 92.5  |
| 99.2  | 99.2  | 99.2  | 99.2  |
| 104.9 | 104.9 | 104.9 | 104.9 |
| 110.1 | 110.1 | 110.1 | 110.1 |
| 115.1 | 115.1 | 115.1 | 115.1 |
| 119.7 | 119.7 | 119.7 | 119.7 |
| 123.7 | 123.7 | 123.7 | 123.7 |
| 127.0 | 127.0 | 127.0 | 127.0 |
| 130.3 | 130.3 | 130.3 | 130.3 |
| 133.5 | 133.5 | 133.5 | 133.5 |
| 136.0 | 136.0 | 136.0 | 136.0 |
| 137.1 | 137.1 | 137.1 | 137.1 |
| 137.4 | 137.4 | 137.4 | 137.4 |
| 138.6 | 138.6 | 138.6 | 138.6 |
| 140.5 | 140.5 | 140.5 | 140.5 |
| 141.1 | 141.1 | 141.1 | 141.1 |
| 140.8 | 140.8 | 140.8 | 140.8 |

(END OF REPORT)