

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: P159910

Luminaire Tested: **ENC-F01-LED-E1-BL2-7060-ULG**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P159910  
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P20107) AND SCALED  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENC-F01-LED-E1-BL2-7060-ULG  
Description: ENTRI LED LUMINAIRE WITH UPLIGHT  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2  
Light Source: (7) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2634.9 lumens  
Efficiency: N/A  
Efficacy: 77.7 lumens/watt  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B1 - U3 - G1

Input Watts (W): 33.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



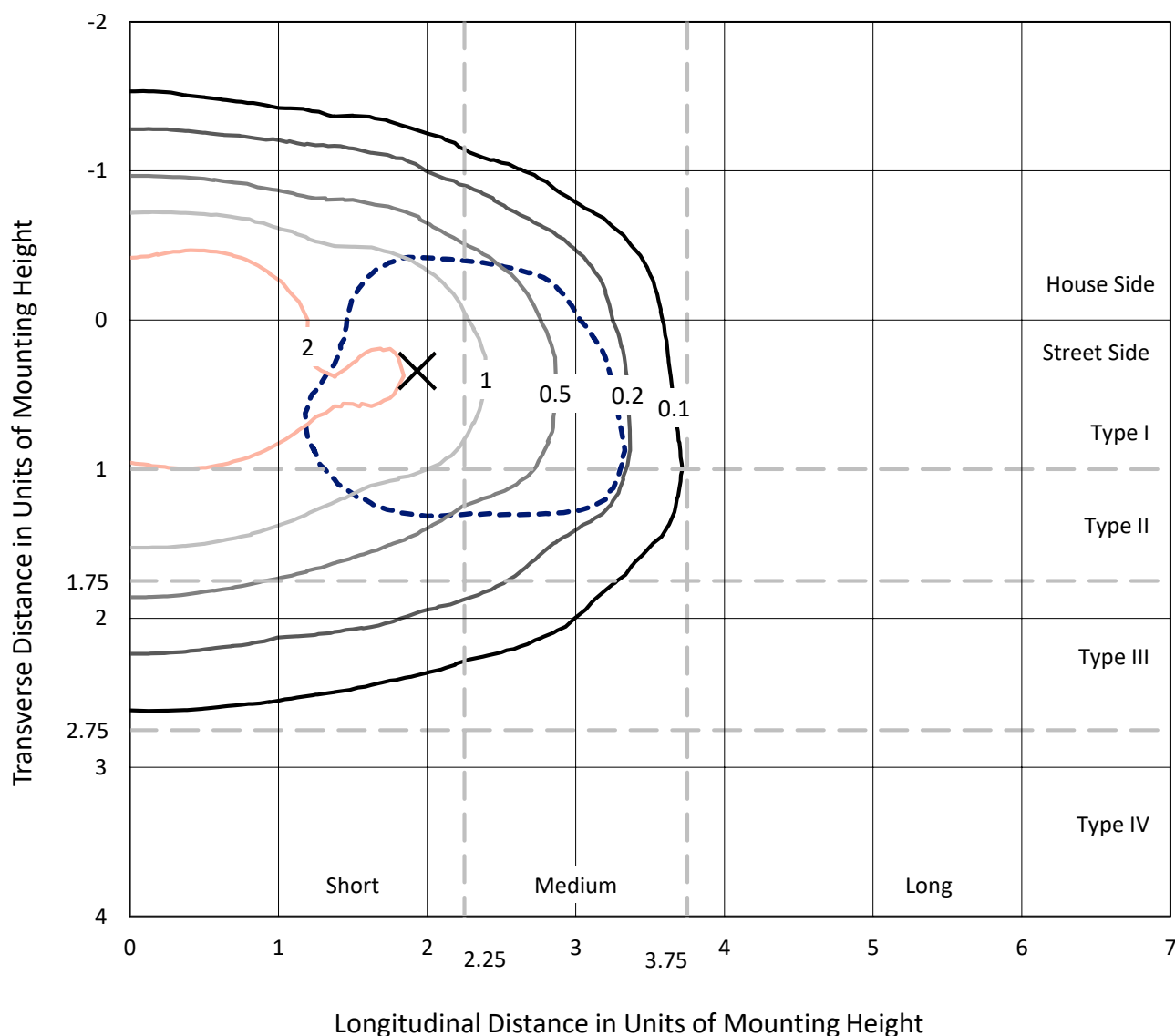
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

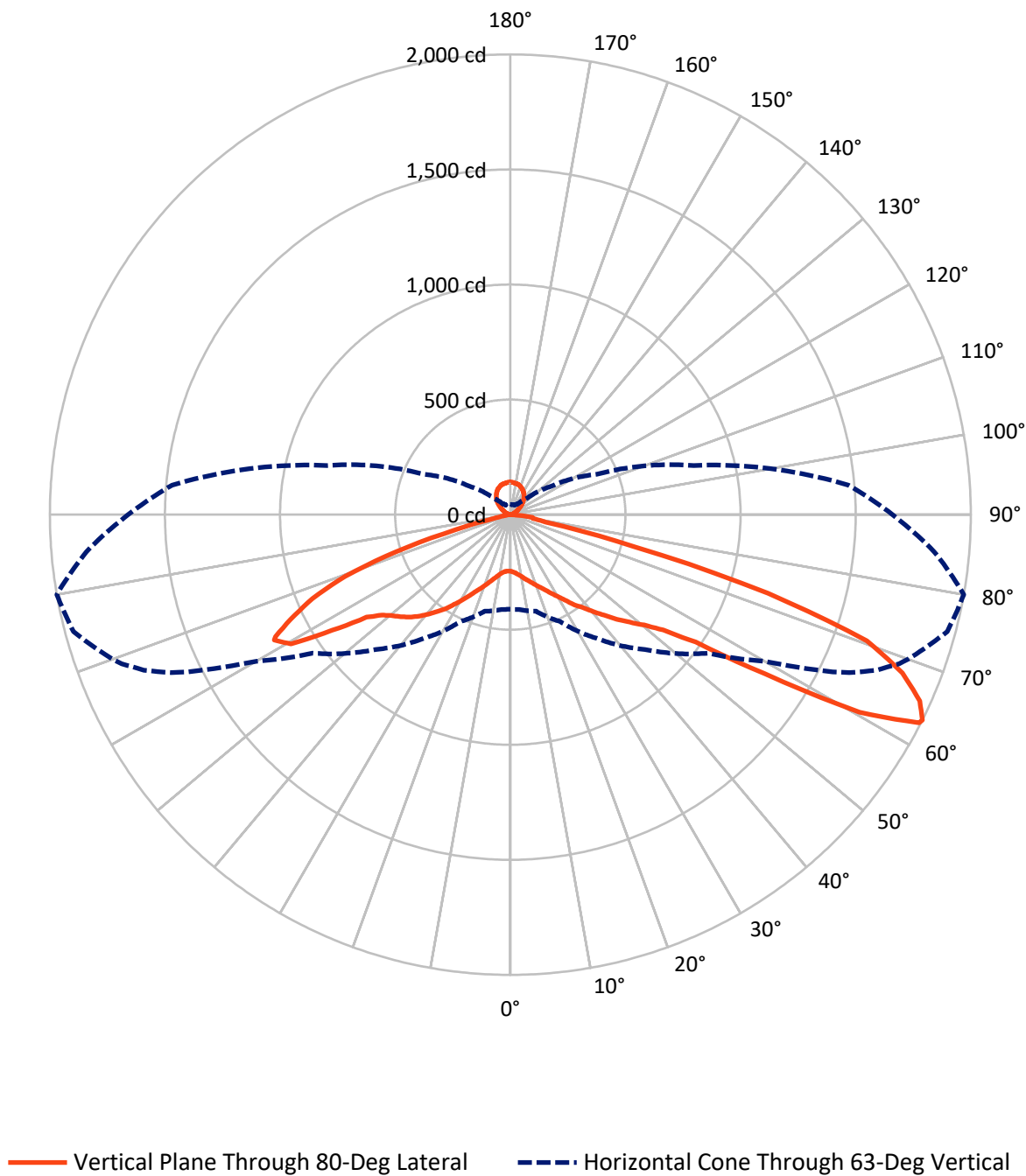


Based on 10 foot mounting height. Maximum calculated value = 3 fc  
 Type II - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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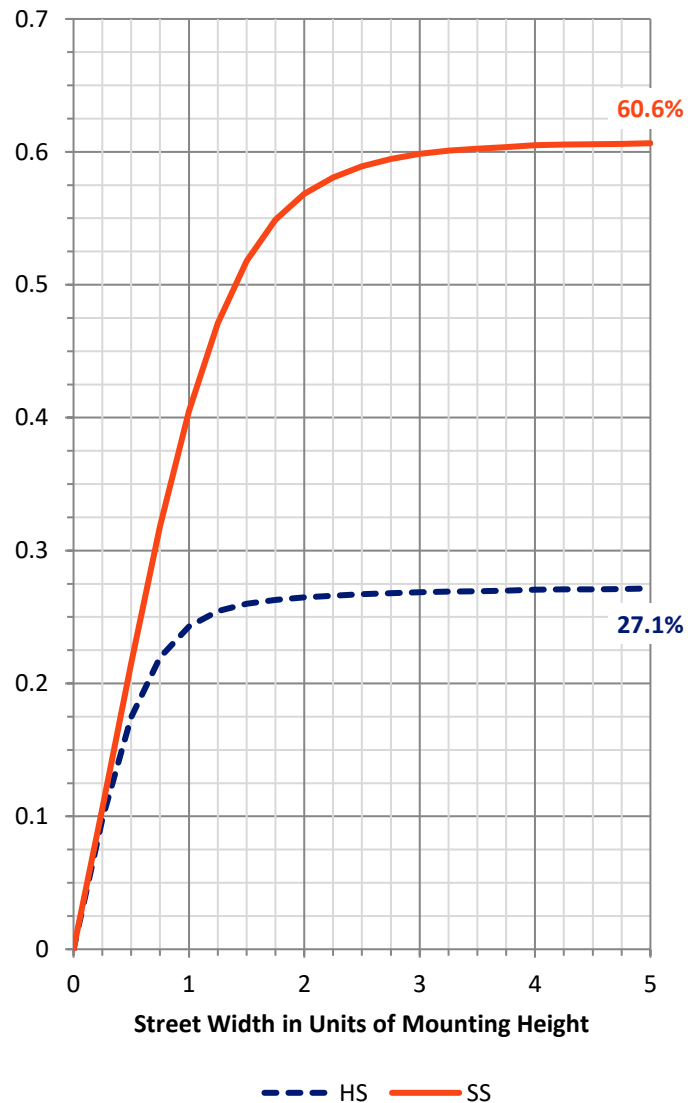
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 722.3    | 157.7  | 880.1  |
|                    | % Fixture | 27.4     | 6.0    | 33.4   |
| <b>Street Side</b> | Lumens    | 1597.1   | 157.7  | 1754.8 |
|                    | % Fixture | 60.6     | 6.0    | 66.6   |
| <b>Total</b>       | Lumens    | 2319.4   | 315.5  | 2634.9 |
|                    | % Fixture | 88.0     | 12.0   | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 24.6   | 0.9       |
| 10°-20°   | 84.4   | 3.2       |
| 20°-30°   | 158.7  | 6.0       |
| 30°-40°   | 251.8  | 9.6       |
| 40°-50°   | 380.1  | 14.4      |
| 50°-60°   | 534.3  | 20.3      |
| 60°-70°   | 623.4  | 23.7      |
| 70°-80°   | 241.0  | 9.1       |
| 80°-90°   | 21.0   | 0.8       |
| 90°-100°  | 1.3    | 0.0       |
| 100°-110° | 12.3   | 0.5       |
| 110°-120° | 25.2   | 1.0       |
| 120°-130° | 43.0   | 1.6       |
| 130°-140° | 60.0   | 2.3       |
| 140°-150° | 65.4   | 2.5       |
| 150°-160° | 56.9   | 2.2       |
| 160°-170° | 38.2   | 1.4       |
| 170°-180° | 13.3   | 0.5       |
| 0°-90°    | 2319.4 | 88.0      |
| 0°-180°   | 2634.9 | 100.0     |

**Coefficient of Utilization**



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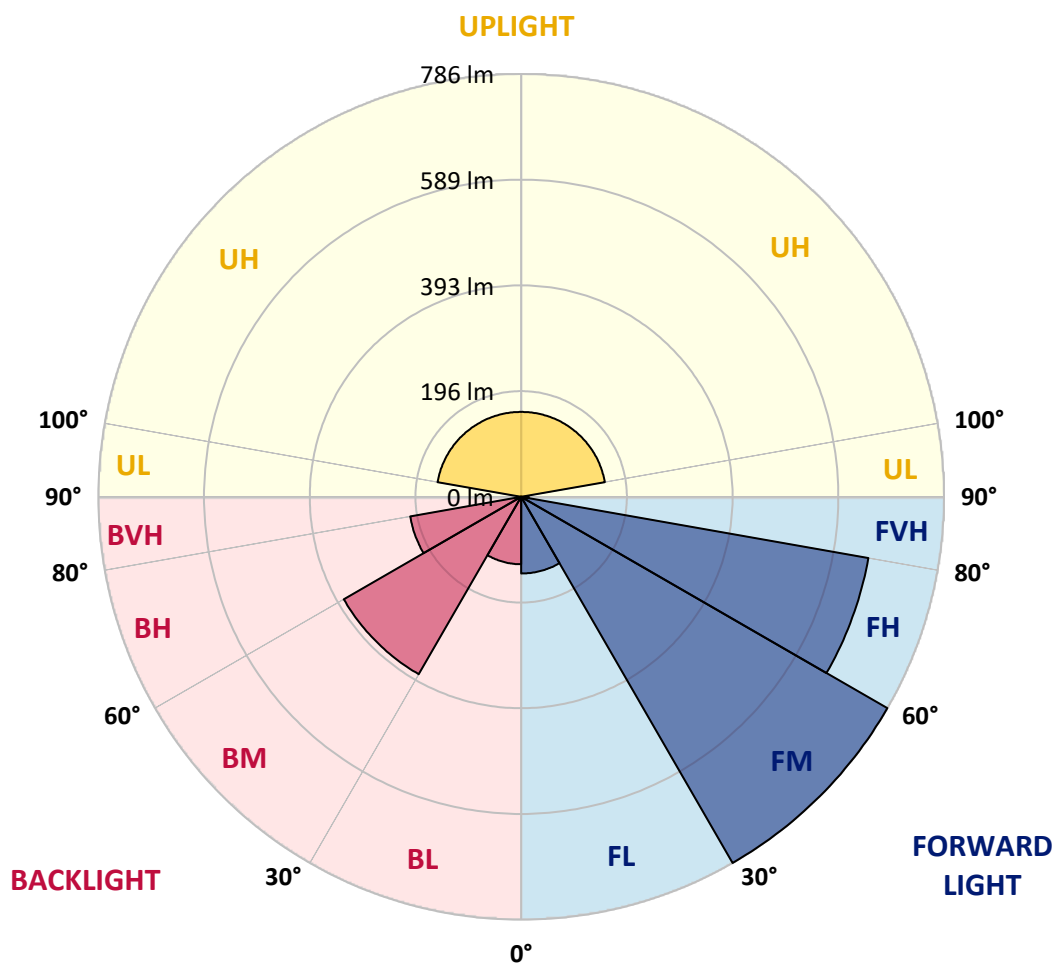
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |        |        |
|------|-------------|--------|-----------|-------------------------|--------|--------|
|      |             |        |           | B                       | U      | G      |
| FL   | (0°-30°)    | 142.5  | 5.4       |                         |        |        |
| FM   | (30°-60°)   | 785.6  | 29.8      |                         |        |        |
| FH   | (60°-80°)   | 655.0  | 24.9      |                         |        | G0/660 |
| FVH  | (80°-90°)   | 14.0   | 0.5       |                         |        | G1/100 |
| BL   | (0°-30°)    | 125.3  | 4.8       | B1/500                  |        |        |
| BM   | (30°-60°)   | 380.6  | 14.4      | B1/1000                 |        |        |
| BH   | (60°-80°)   | 209.4  | 7.9       | B1/500                  |        | G1/500 |
| BVH  | (80°-90°)   | 7.0    | 0.3       |                         |        | G0/10  |
| UL   | (90°-100°)  | 1.3    | 0.0       |                         | U1/10  |        |
| UH   | (100°-180°) | 157.7  | 6.0       |                         | 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°     | 245.7 | 245.7 | 245.7 | 245.7 | 245.7 | 245.7 | 245.7  | 245.7  | 245.7  | 245.7  | 245.7  |
| 2.5°   | 257.9 | 257.1 | 257.5 | 257.1 | 257.1 | 256.2 | 253.7  | 253.7  | 253.3  | 253.7  | 252.9  |
| 5°     | 271.9 | 271.5 | 271.1 | 270.2 | 270.2 | 268.5 | 264.3  | 263.4  | 263.9  | 263.0  | 261.3  |
| 7.5°   | 287.6 | 287.2 | 286.3 | 284.6 | 283.8 | 281.2 | 275.3  | 274.5  | 274.0  | 273.2  | 271.9  |
| 10°    | 303.3 | 302.8 | 301.6 | 299.4 | 297.3 | 293.5 | 287.6  | 285.5  | 285.0  | 284.6  | 283.3  |
| 12.5°  | 319.3 | 318.1 | 318.5 | 314.7 | 311.3 | 306.6 | 299.9  | 297.7  | 297.3  | 296.9  | 296.5  |
| 15°    | 337.1 | 336.7 | 335.9 | 330.8 | 324.4 | 318.1 | 311.3  | 308.8  | 307.1  | 307.5  | 307.1  |
| 17.5°  | 354.1 | 353.7 | 350.7 | 343.5 | 335.0 | 327.8 | 319.3  | 317.7  | 317.7  | 317.2  | 317.2  |
| 20°    | 366.4 | 365.9 | 363.0 | 354.1 | 343.1 | 335.0 | 328.2  | 328.2  | 327.8  | 328.2  | 328.7  |
| 22.5°  | 371.9 | 371.9 | 368.1 | 358.3 | 346.5 | 340.5 | 338.4  | 339.7  | 340.1  | 340.5  | 341.4  |
| 25°    | 374.0 | 374.0 | 370.2 | 358.7 | 347.7 | 348.6 | 351.1  | 353.2  | 354.1  | 354.1  | 357.0  |
| 27.5°  | 377.8 | 378.2 | 373.1 | 360.9 | 352.0 | 360.0 | 366.4  | 369.3  | 370.6  | 371.4  | 375.3  |
| 30°    | 389.2 | 388.8 | 384.6 | 371.4 | 364.7 | 376.1 | 387.5  | 390.5  | 393.5  | 393.5  | 397.7  |
| 32.5°  | 406.2 | 405.7 | 403.2 | 393.0 | 390.1 | 404.5 | 414.6  | 421.0  | 420.6  | 421.4  | 424.4  |
| 35°    | 428.6 | 429.0 | 430.7 | 428.2 | 430.7 | 445.1 | 456.6  | 459.1  | 459.5  | 460.0  | 460.4  |
| 37.5°  | 454.0 | 454.5 | 463.8 | 471.8 | 483.3 | 504.4 | 511.2  | 512.5  | 509.5  | 509.5  | 508.7  |
| 40°    | 473.1 | 475.2 | 496.0 | 517.1 | 541.3 | 570.1 | 580.2  | 577.7  | 575.6  | 573.9  | 568.8  |
| 42.5°  | 512.1 | 513.3 | 535.4 | 565.8 | 599.7 | 639.5 | 657.3  | 648.9  | 648.4  | 640.8  | 637.0  |
| 45°    | 551.0 | 554.4 | 578.1 | 612.4 | 653.1 | 708.2 | 734.4  | 727.2  | 725.9  | 722.6  | 712.0  |
| 47.5°  | 581.9 | 586.6 | 612.9 | 653.5 | 700.1 | 763.6 | 810.7  | 815.7  | 812.8  | 809.0  | 800.5  |
| 50°    | 608.2 | 612.0 | 638.7 | 683.2 | 736.5 | 806.0 | 873.3  | 891.5  | 894.1  | 892.4  | 890.3  |
| 52.5°  | 625.1 | 629.0 | 655.2 | 702.6 | 757.7 | 837.3 | 919.9  | 955.9  | 963.5  | 963.1  | 972.0  |
| 55°    | 625.6 | 629.8 | 656.9 | 709.0 | 769.6 | 858.9 | 963.1  | 1019.9 | 1029.2 | 1040.6 | 1059.7 |
| 57.5°  | 602.3 | 606.5 | 640.4 | 700.5 | 773.0 | 875.9 | 1005.1 | 1105.0 | 1130.4 | 1152.9 | 1205.4 |
| 60°    | 537.5 | 539.2 | 576.4 | 656.9 | 756.9 | 872.1 | 1036.8 | 1178.3 | 1214.3 | 1263.0 | 1347.7 |
| 62.5°  | 437.9 | 441.3 | 464.2 | 542.6 | 681.9 | 838.6 | 1049.5 | 1260.0 | 1319.3 | 1390.5 | 1526.0 |
| 63°    | 410.4 | 413.4 | 434.5 | 512.1 | 656.5 | 828.0 | 1049.1 | 1273.2 | 1338.4 | 1411.7 | 1557.8 |
| 65°    | 316.8 | 317.7 | 333.3 | 391.8 | 538.7 | 750.9 | 1026.2 | 1254.5 | 1337.1 | 1422.7 | 1576.0 |
| 67.5°  | 255.4 | 258.4 | 274.0 | 315.1 | 425.7 | 630.6 | 923.7  | 1086.8 | 1143.1 | 1227.4 | 1410.0 |
| 70°    | 199.9 | 205.0 | 219.8 | 266.4 | 363.0 | 507.8 | 777.2  | 907.2  | 941.9  | 982.2  | 1137.2 |
| 72.5°  | 132.1 | 133.4 | 136.0 | 161.8 | 253.3 | 395.2 | 646.7  | 735.3  | 748.8  | 777.6  | 853.4  |
| 75°    | 62.3  | 66.9  | 70.7  | 83.9  | 122.4 | 258.8 | 468.9  | 522.2  | 538.3  | 568.4  | 595.9  |
| 77.5°  | 27.1  | 26.7  | 28.4  | 38.5  | 64.4  | 115.2 | 291.8  | 385.8  | 391.3  | 384.6  | 372.7  |
| 80°    | 8.5   | 8.9   | 9.3   | 10.2  | 20.3  | 55.1  | 126.2  | 259.2  | 286.3  | 304.5  | 299.4  |
| 82.5°  | 0.8   | 0.4   | 1.3   | 2.5   | 4.2   | 8.0   | 47.4   | 121.6  | 152.9  | 187.6  | 232.1  |
| 85°    | 0.0   | 0.0   | 0.4   | 0.4   | 0.8   | 1.7   | 3.0    | 12.7   | 21.2   | 24.6   | 48.7   |
| 87.5°  | 0.0   | 0.0   | 0.4   | 0.4   | 0.8   | 1.3   | 1.3    | 1.7    | 1.7    | 1.7    | 1.7    |
| 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   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 60°   | 61°   | 62°   | 64°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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 |

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**CANDELA DISTRIBUTION (continued):**

|        | 65°    | 66°    | 67°    | 68°    | 69°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 245.7  | 245.7  | 245.7  | 245.7  | 245.7  | 245.7  | 245.7  | 245.7  | 245.7  | 245.7  | 245.7  |
| 2.5°   | 252.4  | 252.4  | 251.6  | 252.0  | 251.6  | 251.6  | 250.7  | 249.9  | 249.5  | 247.3  | 246.1  |
| 5°     | 261.3  | 261.3  | 260.9  | 260.1  | 260.1  | 259.6  | 257.5  | 255.4  | 254.1  | 251.6  | 249.0  |
| 7.5°   | 271.5  | 271.1  | 270.2  | 269.4  | 269.4  | 268.9  | 266.0  | 263.9  | 261.3  | 257.5  | 254.5  |
| 10°    | 283.3  | 282.9  | 282.1  | 280.8  | 280.8  | 280.4  | 277.4  | 274.0  | 271.9  | 267.3  | 263.4  |
| 12.5°  | 296.1  | 294.8  | 294.4  | 293.5  | 292.7  | 292.7  | 290.1  | 286.7  | 285.0  | 280.0  | 276.1  |
| 15°    | 306.6  | 305.8  | 305.4  | 304.9  | 304.5  | 303.7  | 301.6  | 298.6  | 297.3  | 293.1  | 290.1  |
| 17.5°  | 316.8  | 316.8  | 317.2  | 316.4  | 316.0  | 315.1  | 313.8  | 313.0  | 311.7  | 307.9  | 306.2  |
| 20°    | 328.7  | 328.7  | 329.5  | 329.1  | 328.7  | 329.9  | 329.5  | 329.1  | 329.1  | 325.7  | 324.4  |
| 22.5°  | 342.6  | 342.2  | 343.5  | 343.1  | 343.5  | 344.8  | 346.5  | 345.6  | 347.3  | 345.2  | 344.3  |
| 25°    | 358.7  | 358.3  | 359.6  | 360.4  | 361.3  | 362.1  | 365.5  | 366.4  | 368.5  | 368.1  | 366.4  |
| 27.5°  | 376.9  | 377.4  | 377.8  | 379.9  | 381.2  | 382.0  | 386.7  | 389.2  | 393.5  | 391.8  | 393.5  |
| 30°    | 398.1  | 400.2  | 401.9  | 404.1  | 404.5  | 405.3  | 412.9  | 415.5  | 417.6  | 418.9  | 421.4  |
| 32.5°  | 427.3  | 428.6  | 429.0  | 431.6  | 432.4  | 433.7  | 441.7  | 445.1  | 448.1  | 448.5  | 453.2  |
| 35°    | 462.9  | 463.8  | 465.0  | 466.3  | 468.0  | 467.2  | 476.5  | 481.6  | 485.4  | 485.8  | 490.9  |
| 37.5°  | 509.9  | 507.0  | 508.2  | 506.6  | 504.0  | 504.0  | 507.0  | 512.1  | 516.3  | 519.7  | 524.8  |
| 40°    | 566.3  | 564.2  | 563.7  | 559.9  | 555.7  | 551.9  | 550.2  | 553.1  | 556.5  | 559.5  | 565.8  |
| 42.5°  | 630.6  | 628.5  | 621.3  | 618.8  | 611.6  | 607.4  | 595.9  | 597.2  | 603.1  | 604.8  | 608.6  |
| 45°    | 706.0  | 698.4  | 695.9  | 680.2  | 677.2  | 671.3  | 649.7  | 648.0  | 653.1  | 653.5  | 651.0  |
| 47.5°  | 792.0  | 786.5  | 780.6  | 769.6  | 758.1  | 748.4  | 715.4  | 698.0  | 703.5  | 703.1  | 690.8  |
| 50°    | 885.6  | 884.8  | 875.9  | 868.7  | 858.5  | 844.5  | 785.7  | 753.9  | 758.1  | 754.3  | 731.9  |
| 52.5°  | 975.0  | 972.4  | 972.0  | 966.5  | 962.7  | 958.0  | 886.5  | 831.8  | 822.1  | 814.0  | 785.2  |
| 55°    | 1069.0 | 1075.4 | 1071.1 | 1080.0 | 1086.8 | 1086.0 | 1056.3 | 976.3  | 926.7  | 920.3  | 876.3  |
| 57.5°  | 1225.7 | 1241.0 | 1261.3 | 1262.1 | 1280.4 | 1306.6 | 1360.0 | 1302.4 | 1178.3 | 1153.7 | 1094.8 |
| 60°    | 1405.3 | 1444.7 | 1495.5 | 1520.5 | 1559.5 | 1600.1 | 1734.0 | 1742.9 | 1569.2 | 1474.3 | 1366.3 |
| 62.5°  | 1585.7 | 1637.4 | 1697.5 | 1736.5 | 1784.8 | 1816.6 | 1958.0 | 1991.9 | 1833.5 | 1658.6 | 1480.7 |
| 63°    | 1623.8 | 1676.8 | 1728.9 | 1767.0 | 1807.7 | 1836.9 | 1963.9 | 1999.5 | 1847.9 | 1659.0 | 1473.5 |
| 65°    | 1643.8 | 1693.3 | 1734.0 | 1767.8 | 1795.0 | 1814.9 | 1915.2 | 1953.8 | 1828.8 | 1597.6 | 1392.6 |
| 67.5°  | 1492.5 | 1572.2 | 1623.4 | 1664.5 | 1692.0 | 1719.6 | 1811.9 | 1836.0 | 1747.5 | 1478.1 | 1269.8 |
| 70°    | 1235.5 | 1327.4 | 1408.3 | 1472.2 | 1519.7 | 1561.6 | 1658.6 | 1642.1 | 1565.8 | 1284.6 | 1077.1 |
| 72.5°  | 908.9  | 989.0  | 1067.7 | 1140.2 | 1202.0 | 1255.4 | 1319.3 | 1169.8 | 1053.8 | 854.3  | 745.4  |
| 75°    | 611.2  | 628.5  | 664.5  | 700.5  | 723.0  | 738.2  | 698.8  | 557.0  | 452.3  | 405.7  | 354.9  |
| 77.5°  | 360.9  | 349.0  | 350.3  | 341.4  | 335.4  | 334.2  | 280.4  | 155.9  | 82.2   | 83.9   | 88.1   |
| 80°    | 288.0  | 274.9  | 260.9  | 245.2  | 235.1  | 224.1  | 182.5  | 100.0  | 35.6   | 28.8   | 30.1   |
| 82.5°  | 232.9  | 229.6  | 221.9  | 205.8  | 189.7  | 170.7  | 130.4  | 96.1   | 20.3   | 16.1   | 17.4   |
| 85°    | 45.3   | 50.8   | 45.7   | 50.0   | 37.3   | 35.2   | 20.8   | 22.4   | 8.0    | 7.2    | 8.9    |
| 87.5°  | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 3.4    |
| 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   |

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CATALOG NUMBER: ENC-F01-LED-E1-BL2-7060-ULG

**CANDELA DISTRIBUTION (continued):**

|        | 65°   | 66°   | 67°   | 68°   | 69°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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 |

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CATALOG NUMBER: ENC-F01-LED-E1-BL2-7060-ULG

**CANDELA DISTRIBUTION (continued):**

|        | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 245.7 | 245.7 | 245.7 | 245.7 | 245.7 | 245.7 | 245.7 | 245.7 | 245.7 |
| 2.5°   | 244.0 | 242.3 | 241.0 | 239.3 | 238.5 | 237.2 | 236.8 | 235.5 | 235.9 |
| 5°     | 244.8 | 241.8 | 239.3 | 236.8 | 235.1 | 234.2 | 233.4 | 232.5 | 232.5 |
| 7.5°   | 249.0 | 245.2 | 242.3 | 239.3 | 238.0 | 236.3 | 235.9 | 234.6 | 234.6 |
| 10°    | 257.9 | 253.7 | 249.9 | 246.5 | 244.8 | 242.7 | 241.8 | 240.6 | 240.6 |
| 12.5°  | 271.1 | 267.3 | 263.0 | 257.9 | 254.5 | 252.0 | 249.9 | 249.0 | 249.0 |
| 15°    | 285.9 | 282.9 | 279.5 | 272.8 | 267.3 | 262.6 | 258.4 | 256.7 | 256.2 |
| 17.5°  | 303.7 | 301.1 | 297.7 | 290.1 | 281.2 | 271.5 | 264.3 | 260.9 | 260.5 |
| 20°    | 325.3 | 322.7 | 317.7 | 307.1 | 293.1 | 277.8 | 266.4 | 261.3 | 260.9 |
| 22.5°  | 347.3 | 347.3 | 338.8 | 321.5 | 300.7 | 280.4 | 265.1 | 258.4 | 257.1 |
| 25°    | 371.4 | 372.7 | 360.0 | 332.9 | 304.9 | 279.1 | 259.6 | 251.2 | 249.5 |
| 27.5°  | 400.7 | 399.4 | 378.2 | 341.8 | 305.4 | 274.0 | 250.7 | 240.6 | 238.9 |
| 30°    | 432.9 | 424.4 | 393.0 | 346.9 | 302.4 | 264.7 | 238.9 | 227.4 | 226.2 |
| 32.5°  | 465.0 | 446.8 | 404.1 | 347.7 | 293.9 | 251.2 | 223.2 | 211.3 | 209.7 |
| 35°    | 499.4 | 466.7 | 410.8 | 343.1 | 280.0 | 232.9 | 203.7 | 192.3 | 190.6 |
| 37.5°  | 528.2 | 482.0 | 412.9 | 330.8 | 258.8 | 211.8 | 185.9 | 174.1 | 171.1 |
| 40°    | 554.4 | 493.0 | 409.1 | 310.9 | 235.1 | 191.0 | 167.3 | 157.1 | 156.3 |
| 42.5°  | 578.6 | 498.1 | 395.6 | 285.0 | 211.3 | 173.2 | 151.6 | 141.9 | 141.0 |
| 45°    | 597.2 | 494.7 | 372.7 | 256.7 | 191.9 | 158.0 | 137.6 | 128.8 | 127.1 |
| 47.5°  | 609.0 | 482.4 | 341.4 | 232.9 | 175.8 | 142.3 | 122.4 | 113.1 | 111.4 |
| 50°    | 618.4 | 464.2 | 309.6 | 214.7 | 160.1 | 126.2 | 106.7 | 98.3  | 97.0  |
| 52.5°  | 630.6 | 440.9 | 282.1 | 198.2 | 141.9 | 108.0 | 90.6  | 82.6  | 81.3  |
| 55°    | 657.8 | 421.0 | 262.6 | 180.0 | 122.4 | 88.9  | 74.5  | 69.5  | 67.8  |
| 57.5°  | 749.7 | 427.8 | 250.3 | 158.0 | 100.0 | 71.6  | 61.8  | 58.9  | 58.4  |
| 60°    | 846.2 | 456.6 | 244.4 | 132.6 | 77.5  | 58.0  | 52.5  | 51.7  | 51.2  |
| 62.5°  | 841.1 | 430.7 | 219.8 | 104.2 | 59.7  | 47.9  | 45.3  | 45.7  | 45.7  |
| 63°    | 824.2 | 415.1 | 211.8 | 97.8  | 56.8  | 46.6  | 44.0  | 44.0  | 44.0  |
| 65°    | 721.7 | 352.0 | 172.0 | 74.1  | 47.4  | 41.5  | 39.4  | 39.8  | 40.2  |
| 67.5°  | 595.9 | 254.1 | 113.1 | 51.7  | 42.8  | 37.7  | 35.2  | 34.3  | 34.3  |
| 70°    | 455.7 | 171.1 | 66.9  | 44.9  | 42.4  | 35.2  | 30.9  | 30.1  | 30.1  |
| 72.5°  | 299.0 | 104.6 | 45.3  | 44.9  | 41.9  | 33.5  | 28.8  | 27.1  | 27.1  |
| 75°    | 137.2 | 51.7  | 37.7  | 43.2  | 39.8  | 30.9  | 25.4  | 23.3  | 22.9  |
| 77.5°  | 53.4  | 32.6  | 33.9  | 36.4  | 30.9  | 25.4  | 22.9  | 21.2  | 20.8  |
| 80°    | 30.9  | 26.3  | 29.6  | 26.3  | 22.4  | 19.5  | 19.5  | 18.2  | 17.8  |
| 82.5°  | 22.4  | 22.4  | 22.9  | 19.1  | 16.9  | 16.1  | 16.1  | 14.8  | 14.4  |
| 85°    | 16.1  | 16.5  | 19.1  | 15.2  | 13.1  | 11.4  | 10.6  | 10.6  | 10.2  |
| 87.5°  | 8.0   | 13.1  | 10.6  | 6.4   | 5.9   | 5.5   | 5.5   | 5.5   | 5.1   |
| 90°    | 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   |
| 95°    | 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   |
| 100°   | 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   |
| 105°   | 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  |

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CATALOG NUMBER: ENC-F01-LED-E1-BL2-7060-ULG

**CANDELA DISTRIBUTION (continued):**

|        | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 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  |
| 115°   | 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  |
| 120°   | 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  |
| 125°   | 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  |
| 130°   | 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  |
| 135°   | 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  |
| 140°   | 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  |
| 145°   | 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 |
| 150°   | 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 |
| 155°   | 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 |
| 160°   | 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 |
| 165°   | 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 |
| 170°   | 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 |
| 175°   | 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 |
| 180°   | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 |

(END OF REPORT)