

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: STREETWORKS

Report Number: P559978

Luminaire Tested: **SDL-PA1-20-727-U-5WQ-A**

Issue Date: 7/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P559978  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: SDL-PA1-20-727-U-5WQ-A  
Description: Springdale  
(1) 70 CRI, 2700K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS AND CLEAR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2222 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type V - Short  
BUG Rating: B2 - U3 - G1

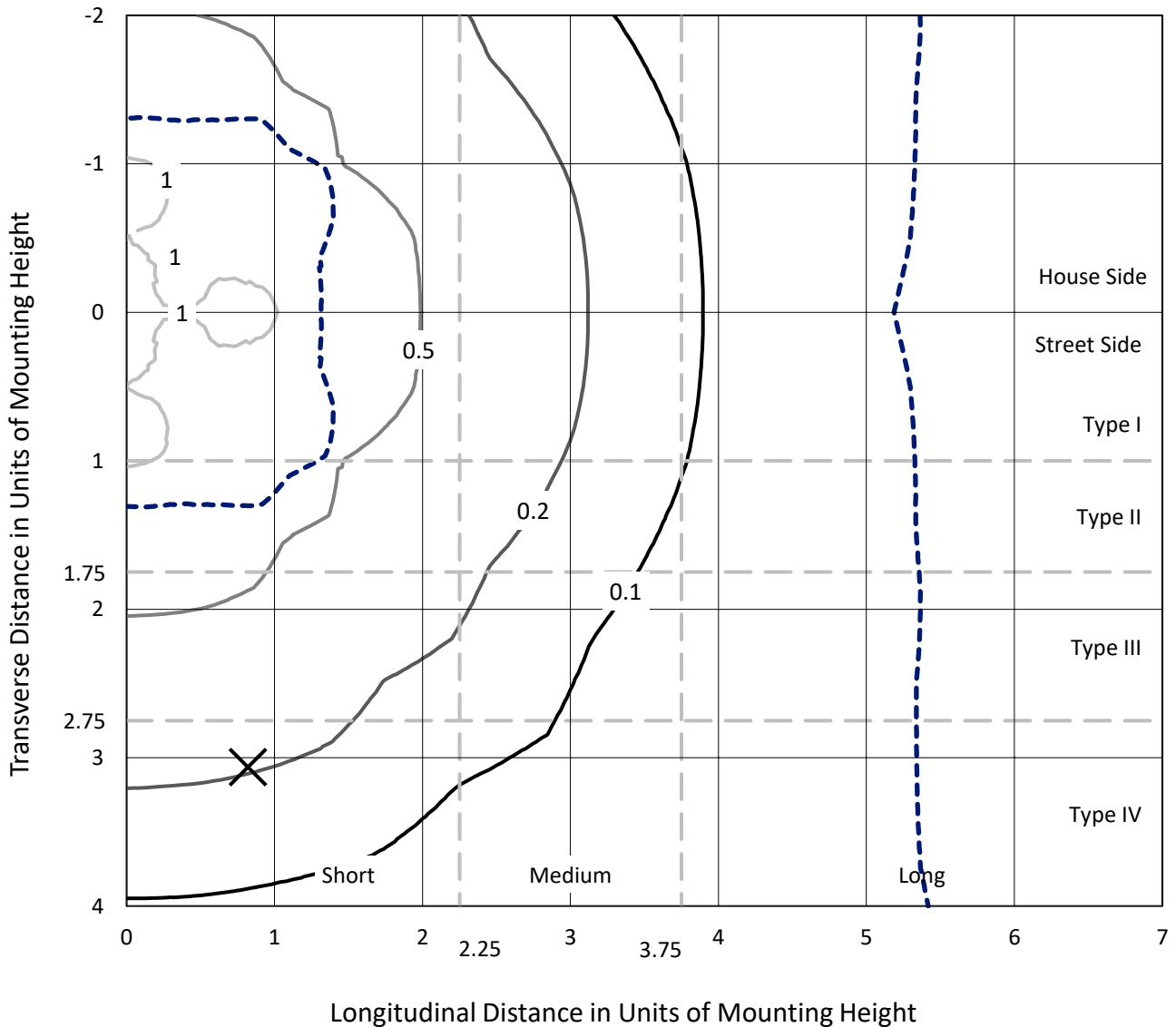
Input Watts (W): 21  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

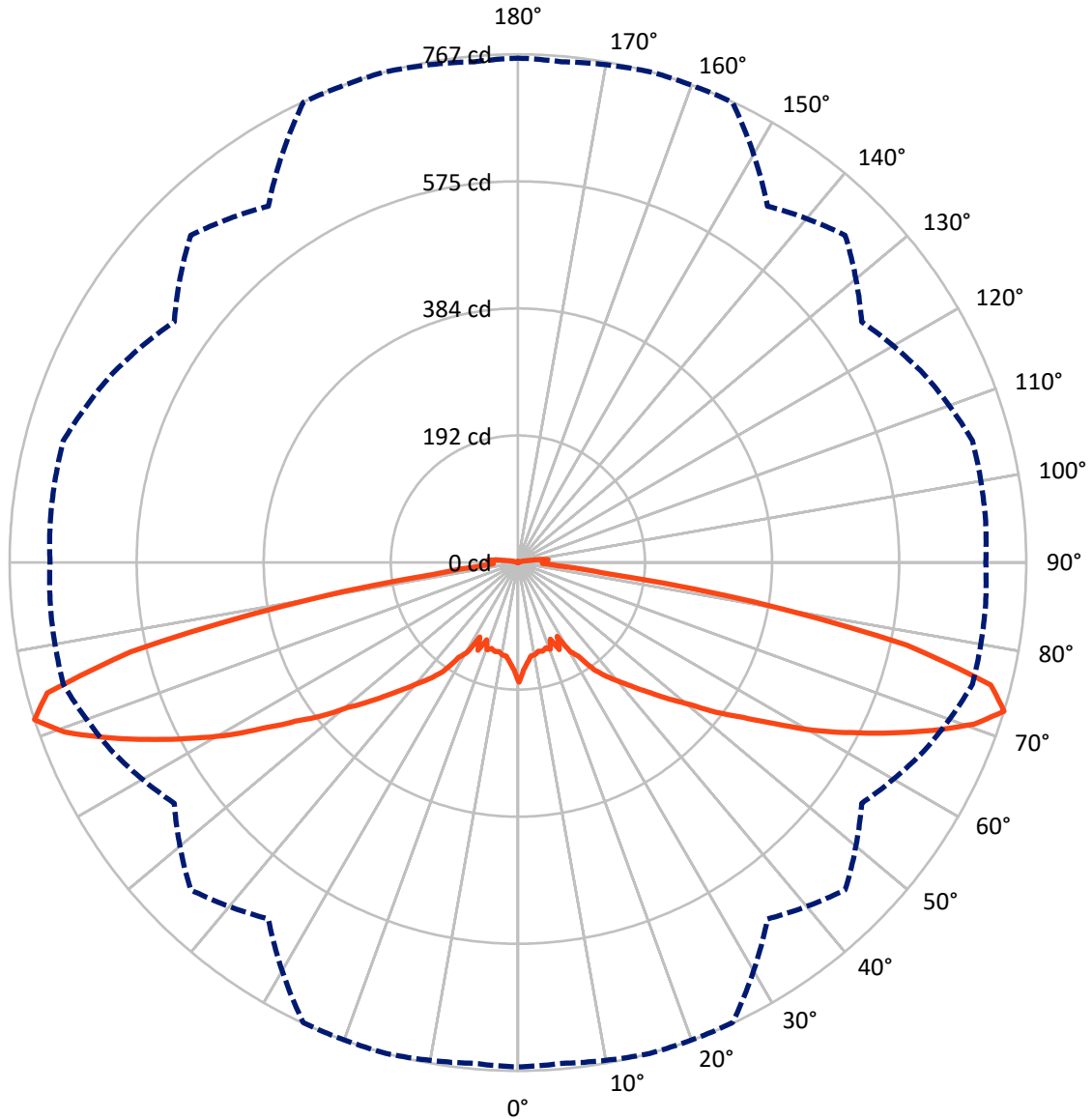
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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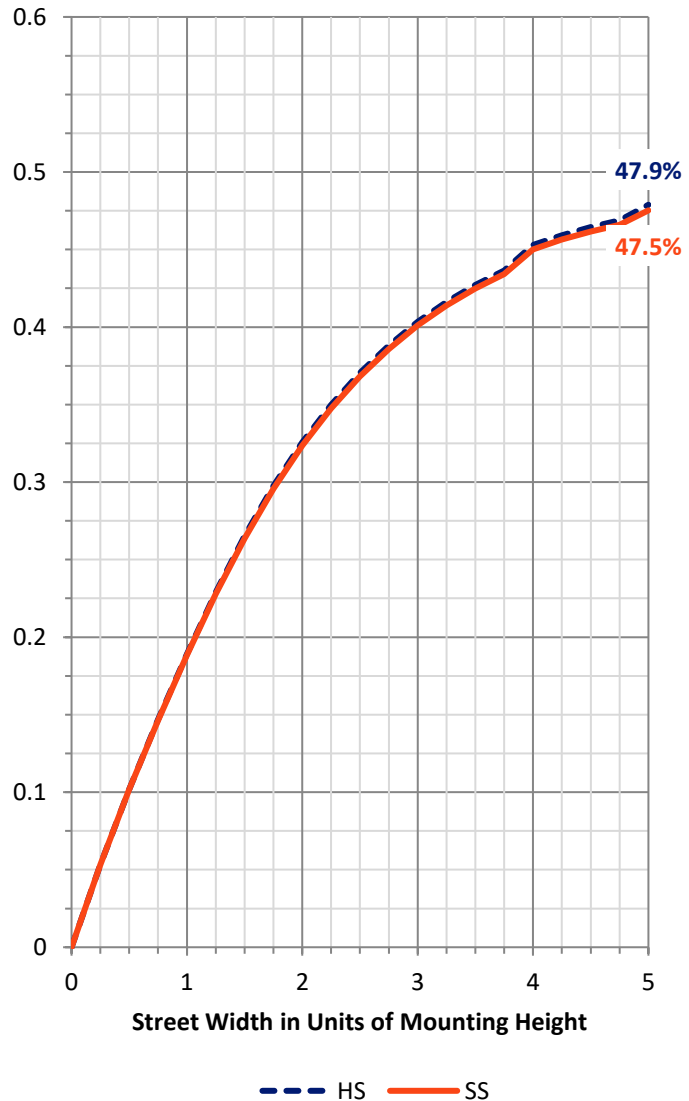
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1077.3   | 33.7   | 1111.0 |
|                    | % Fixture | 48.5     | 1.5    | 50.0   |
| <b>Street Side</b> | Lumens    | 1077.3   | 33.7   | 1111.0 |
|                    | % Fixture | 48.5     | 1.5    | 50.0   |
| <b>Total</b>       | Lumens    | 2154.6   | 67.4   | 2222.0 |
|                    | % Fixture | 97.0     | 3.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 14.2   | 0.6       |
| 10°-20°   | 32.8   | 1.5       |
| 20°-30°   | 57.6   | 2.6       |
| 30°-40°   | 111.1  | 5.0       |
| 40°-50°   | 193.1  | 8.7       |
| 50°-60°   | 340.3  | 15.3      |
| 60°-70°   | 575.0  | 25.9      |
| 70°-80°   | 675.9  | 30.4      |
| 80°-90°   | 154.5  | 7.0       |
| 90°-100°  | 51.0   | 2.3       |
| 100°-110° | 12.0   | 0.5       |
| 110°-120° | 1.9    | 0.1       |
| 120°-130° | 1.5    | 0.1       |
| 130°-140° | 0.6    | 0.0       |
| 140°-150° | 0.1    | 0.0       |
| 150°-160° | 0.2    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 2154.6 | 97.0      |
| 0°-180°   | 2222.0 | 100.0     |



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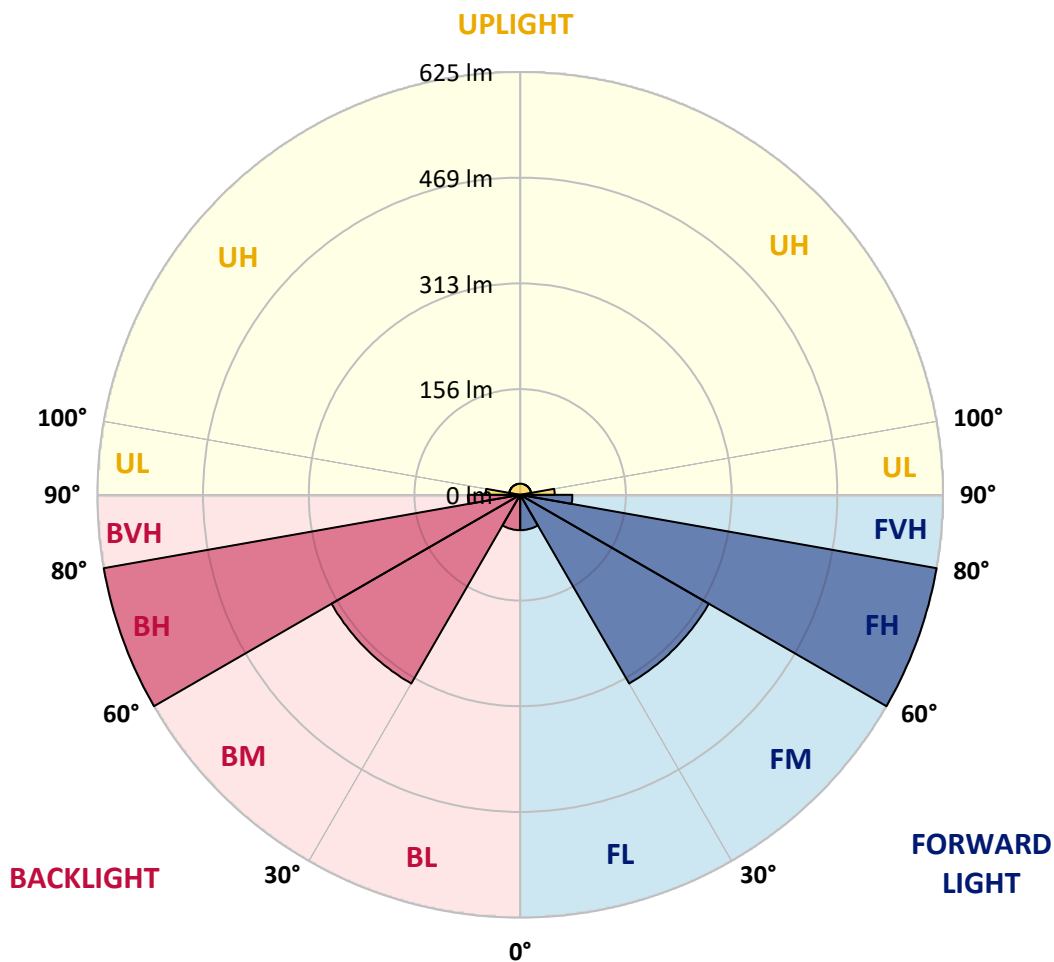
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |        |        |
|----------------|--------|-----------|-------------------------|--------|--------|
|                |        |           | B                       | U      | G      |
| FL (0°-30°)    | 52.3   | 2.4       |                         |        |        |
| FM (30°-60°)   | 322.3  | 14.5      |                         |        |        |
| FH (60°-80°)   | 625.5  | 28.1      |                         |        | G0/660 |
| FVH (80°-90°)  | 77.3   | 3.5       |                         |        | G1/100 |
| BL (0°-30°)    | 52.3   | 2.4       | B0/110                  |        |        |
| BM (30°-60°)   | 322.3  | 14.5      | B1/1000                 |        |        |
| BH (60°-80°)   | 625.5  | 28.1      | B2/1000                 |        | G0/660 |
| BVH (80°-90°)  | 77.3   | 3.5       |                         |        | G1/100 |
| UL (90°-100°)  | 51.0   | 2.3       |                         | U3/500 |        |
| UH (100°-180°) | 16.4   | 0.7       |                         | U2/50  |        |

**BUG Rating: B2-U3-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 180.7 | 180.7 | 180.7 | 180.7 | 180.7 | 180.7 | 180.7 | 180.7 | 180.7 | 180.7 | 180.7 |
| 2.5°   | 159.8 | 163.1 | 162.3 | 168.1 | 173.1 | 174.8 | 178.2 | 178.2 | 179.0 | 179.0 | 179.0 |
| 5°     | 151.4 | 151.4 | 151.4 | 151.4 | 151.4 | 150.6 | 153.9 | 169.0 | 174.0 | 174.8 | 174.0 |
| 7.5°   | 131.3 | 135.5 | 142.2 | 144.7 | 147.2 | 146.4 | 144.7 | 135.5 | 149.7 | 151.4 | 152.2 |
| 10°    | 141.4 | 141.4 | 141.4 | 139.7 | 133.0 | 127.1 | 120.4 | 113.8 | 116.3 | 131.3 | 131.3 |
| 12.5°  | 125.5 | 124.6 | 137.2 | 138.8 | 126.3 | 110.4 | 105.4 | 107.9 | 100.4 | 114.6 | 114.6 |
| 15°    | 141.4 | 141.4 | 138.8 | 130.5 | 104.6 | 110.4 | 93.7  | 94.5  | 107.1 | 123.8 | 123.8 |
| 17.5°  | 120.4 | 121.3 | 135.5 | 127.1 | 113.8 | 88.7  | 103.7 | 93.7  | 96.2  | 105.4 | 106.2 |
| 20°    | 143.9 | 143.9 | 139.7 | 108.7 | 107.1 | 110.4 | 95.4  | 92.8  | 107.1 | 123.8 | 124.6 |
| 22.5°  | 123.8 | 123.8 | 125.5 | 126.3 | 110.4 | 108.7 | 95.4  | 107.9 | 101.2 | 101.2 | 112.9 |
| 25°    | 149.7 | 149.7 | 145.5 | 115.4 | 121.3 | 105.4 | 110.4 | 101.2 | 123.8 | 136.3 | 136.3 |
| 27.5°  | 131.3 | 131.3 | 126.3 | 131.3 | 117.1 | 125.5 | 110.4 | 119.6 | 133.0 | 160.6 | 162.3 |
| 30°    | 159.8 | 159.8 | 155.6 | 130.5 | 129.6 | 122.1 | 123.0 | 138.8 | 171.5 | 189.0 | 189.0 |
| 32.5°  | 194.1 | 194.9 | 169.0 | 149.7 | 131.3 | 140.5 | 133.8 | 158.1 | 179.0 | 197.4 | 198.2 |
| 35°    | 208.3 | 208.3 | 199.1 | 174.0 | 143.0 | 148.0 | 145.5 | 167.3 | 192.4 | 207.4 | 207.4 |
| 37.5°  | 225.0 | 225.0 | 218.3 | 186.5 | 157.2 | 163.9 | 152.2 | 179.8 | 207.4 | 220.8 | 219.1 |
| 40°    | 242.6 | 240.1 | 235.9 | 199.9 | 172.3 | 174.0 | 163.9 | 193.2 | 221.7 | 235.0 | 235.0 |
| 42.5°  | 264.3 | 264.3 | 256.8 | 222.5 | 187.4 | 189.9 | 174.8 | 209.9 | 242.6 | 258.5 | 259.3 |
| 45°    | 288.6 | 287.7 | 280.2 | 247.6 | 205.8 | 209.9 | 193.2 | 232.5 | 268.5 | 283.6 | 285.2 |
| 47.5°  | 317.0 | 317.0 | 307.8 | 274.4 | 229.2 | 233.4 | 214.1 | 255.1 | 300.3 | 313.7 | 315.3 |
| 50°    | 347.1 | 344.6 | 336.2 | 305.3 | 260.1 | 258.5 | 237.5 | 280.2 | 333.7 | 342.9 | 346.3 |
| 52.5°  | 382.3 | 378.9 | 375.6 | 340.4 | 294.4 | 295.3 | 267.7 | 307.0 | 372.2 | 377.2 | 378.9 |
| 55°    | 417.4 | 414.9 | 412.4 | 383.9 | 332.1 | 337.1 | 307.8 | 343.8 | 410.7 | 414.0 | 417.4 |
| 57.5°  | 456.7 | 459.2 | 459.2 | 432.4 | 374.7 | 387.3 | 351.3 | 389.8 | 456.7 | 454.2 | 453.3 |
| 60°    | 513.6 | 508.6 | 514.4 | 490.2 | 433.3 | 443.3 | 404.8 | 445.8 | 501.0 | 491.0 | 488.5 |
| 62.5°  | 559.6 | 558.7 | 565.4 | 554.6 | 487.6 | 512.7 | 457.5 | 499.4 | 542.8 | 534.5 | 535.3 |
| 65°    | 612.3 | 611.4 | 619.8 | 614.8 | 544.5 | 576.3 | 515.2 | 559.6 | 593.0 | 583.8 | 582.2 |
| 67.5°  | 663.3 | 665.8 | 675.8 | 682.5 | 590.5 | 631.5 | 570.4 | 616.5 | 642.4 | 627.3 | 629.0 |
| 70°    | 726.0 | 721.8 | 730.2 | 731.0 | 628.2 | 671.7 | 613.1 | 652.4 | 684.2 | 674.2 | 672.5 |
| 72.5°  | 761.2 | 758.6 | 767.0 | 766.2 | 656.6 | 698.4 | 633.2 | 675.0 | 710.1 | 708.5 | 706.0 |
| 75°    | 722.7 | 726.0 | 736.9 | 752.0 | 658.3 | 713.5 | 630.7 | 659.9 | 687.5 | 678.3 | 675.8 |
| 77.5°  | 567.1 | 573.8 | 599.7 | 648.2 | 613.9 | 707.6 | 586.3 | 578.8 | 584.7 | 573.8 | 567.1 |
| 80°    | 301.1 | 307.0 | 362.2 | 445.0 | 492.7 | 614.8 | 492.7 | 420.7 | 358.8 | 314.5 | 276.9 |
| 82.5°  | 96.2  | 103.7 | 129.6 | 204.9 | 311.2 | 428.3 | 285.2 | 161.4 | 111.2 | 95.4  | 89.5  |
| 85°    | 52.7  | 54.4  | 58.6  | 79.5  | 109.6 | 173.1 | 116.3 | 68.6  | 60.2  | 57.7  | 56.9  |
| 87.5°  | 44.3  | 45.2  | 36.8  | 45.2  | 52.7  | 54.4  | 52.7  | 37.6  | 38.5  | 42.7  | 41.8  |
| 90°    | 46.8  | 46.8  | 37.6  | 44.3  | 52.7  | 53.5  | 52.7  | 39.3  | 38.5  | 45.2  | 44.3  |
| 92.5°  | 51.0  | 51.0  | 42.7  | 47.7  | 58.6  | 56.9  | 56.9  | 41.0  | 42.7  | 48.5  | 48.5  |
| 95°    | 54.4  | 53.5  | 46.0  | 48.5  | 61.9  | 63.6  | 61.9  | 43.5  | 46.0  | 52.7  | 52.7  |
| 97.5°  | 40.1  | 38.5  | 33.5  | 43.5  | 58.6  | 66.9  | 61.9  | 41.0  | 36.0  | 40.1  | 39.3  |
| 100°   | 19.2  | 18.4  | 17.6  | 32.6  | 46.0  | 51.0  | 44.3  | 29.3  | 15.9  | 10.0  | 10.0  |
| 102.5° | 4.2   | 4.2   | 11.7  | 22.6  | 26.8  | 26.8  | 24.3  | 20.1  | 10.0  | 3.3   | 3.3   |
| 105°   | 3.3   | 4.2   | 8.4   | 12.5  | 13.4  | 7.5   | 11.7  | 12.5  | 5.9   | 3.3   | 3.3   |
| 107.5° | 3.3   | 4.2   | 3.3   | 4.2   | 4.2   | 3.3   | 4.2   | 5.0   | 2.5   | 3.3   | 3.3   |
| 110°   | 4.2   | 4.2   | 1.7   | 1.7   | 1.7   | 1.7   | 1.7   | 1.7   | 1.7   | 3.3   | 4.2   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 112.5° | 4.2 | 4.2 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 3.3 | 4.2 |
| 115°   | 3.3 | 3.3 | 1.7 | 1.7 | 1.7 | 1.7 | 0.8 | 1.7 | 1.7 | 3.3 | 3.3 |
| 117.5° | 3.3 | 3.3 | 1.7 | 0.8 | 0.8 | 0.8 | 0.8 | 1.7 | 1.7 | 3.3 | 4.2 |
| 120°   | 4.2 | 3.3 | 1.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 2.5 | 4.2 | 4.2 |
| 122.5° | 4.2 | 4.2 | 1.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 2.5 | 4.2 | 5.0 |
| 125°   | 4.2 | 3.3 | 1.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.7 | 4.2 | 4.2 |
| 127.5° | 3.3 | 3.3 | 1.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.7 | 3.3 | 4.2 |
| 130°   | 3.3 | 3.3 | 1.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.7 | 3.3 | 3.3 |
| 132.5° | 2.5 | 2.5 | 1.7 | 0.8 | 0.8 | 0.0 | 0.8 | 0.8 | 1.7 | 2.5 | 2.5 |
| 135°   | 1.7 | 1.7 | 0.8 | 0.0 | 0.8 | 0.0 | 0.8 | 0.0 | 0.8 | 1.7 | 2.5 |
| 137.5° | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 |
| 140°   | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 |
| 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 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.8 | 0.0 | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 |
| 150°   | 0.8 | 0.8 | 1.7 | 0.8 | 0.8 | 0.0 | 0.8 | 0.8 | 0.0 | 0.0 | 0.8 |
| 152.5° | 1.7 | 1.7 | 1.7 | 0.8 | 0.0 | 0.0 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 155°   | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 | 1.7 | 1.7 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 |
| 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 |

(END OF REPORT)