

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: P509591

Luminaire Tested: **VERD-G-CA2-130-727-U-T3**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509591  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-130-727-U-T3  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1200mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15847 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

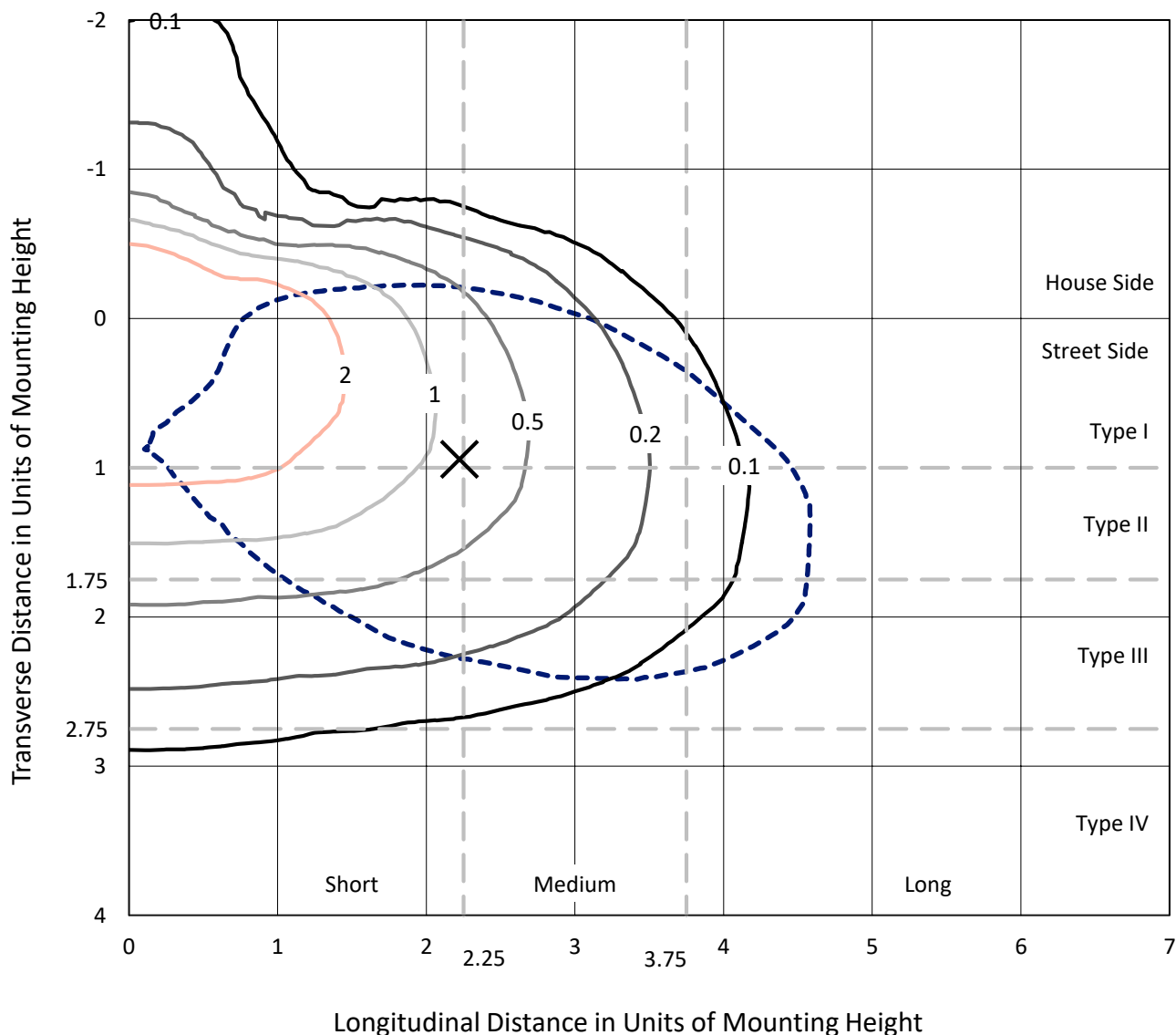
Input Watts (W): 133.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

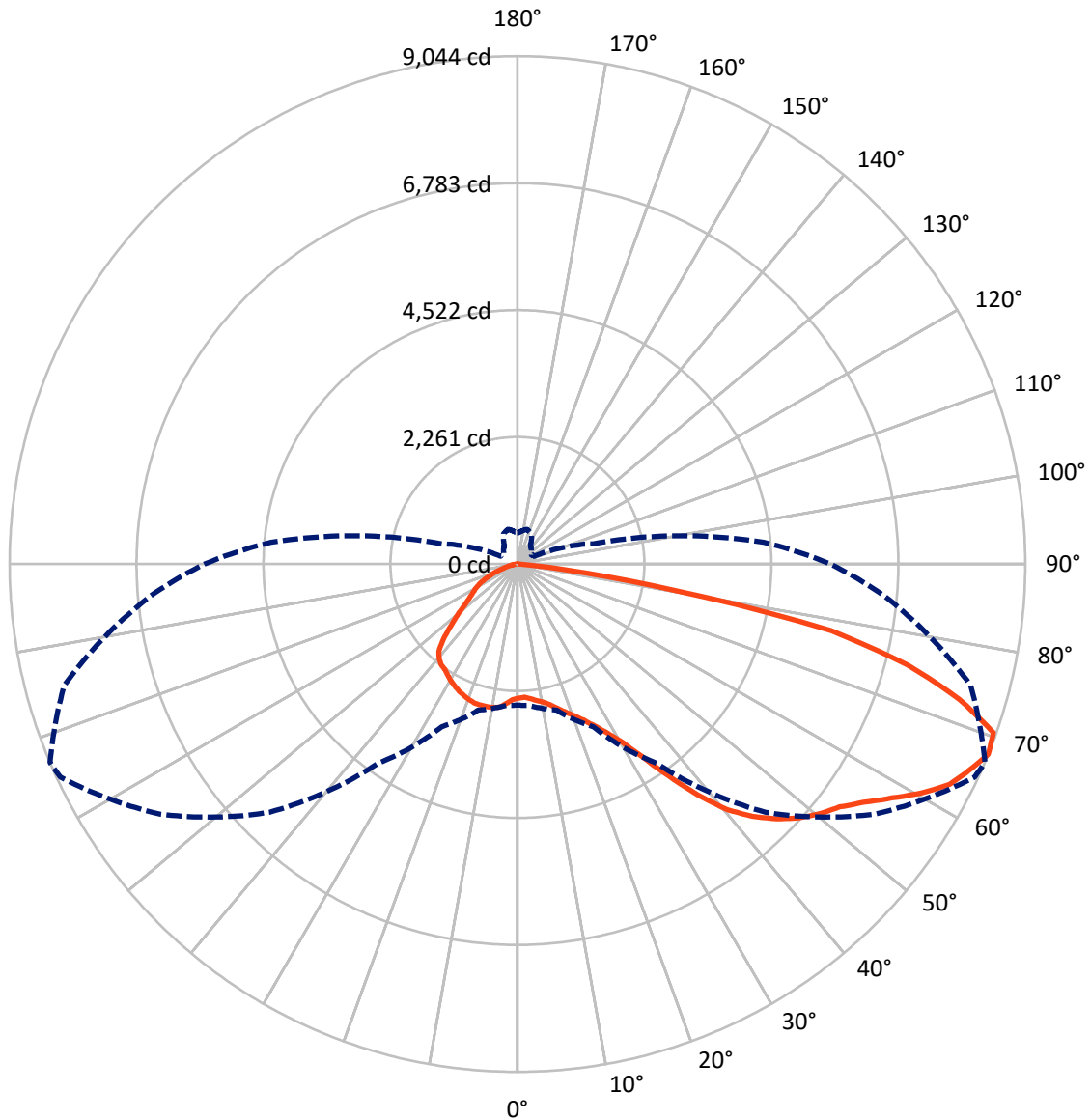
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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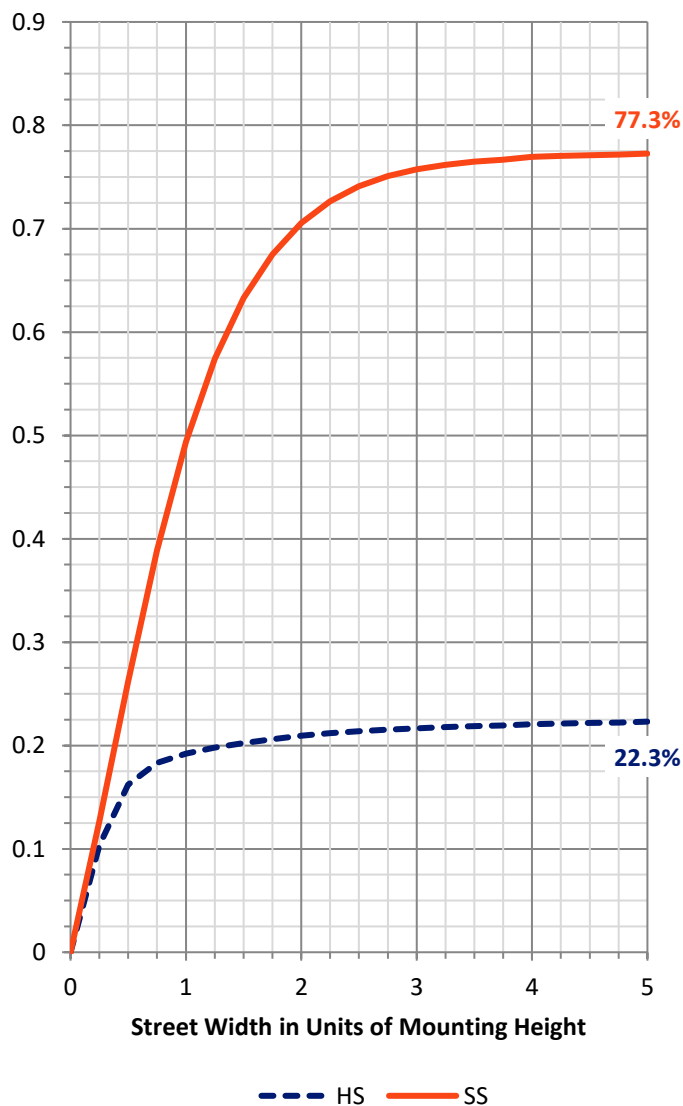
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3595.7   | 0.0    | 3595.7  |
|                    | % Fixture | 22.7     | 0.0    | 22.7    |
| <b>Street Side</b> | Lumens    | 12251.3  | 0.0    | 12251.3 |
|                    | % Fixture | 77.3     | 0.0    | 77.3    |
| <b>Total</b>       | Lumens    | 15847.0  | 0.0    | 15847.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 242.0   | 1.5       |
| 10°-20°   | 766.0   | 4.8       |
| 20°-30°   | 1313.7  | 8.3       |
| 30°-40°   | 1955.1  | 12.3      |
| 40°-50°   | 2673.1  | 16.9      |
| 50°-60°   | 3210.8  | 20.3      |
| 60°-70°   | 3406.2  | 21.5      |
| 70°-80°   | 2080.8  | 13.1      |
| 80°-90°   | 199.3   | 1.3       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 15847.0 | 100.0     |
| 0°-180°   | 15847.0 | 100.0     |

**Coefficient of Utilization**



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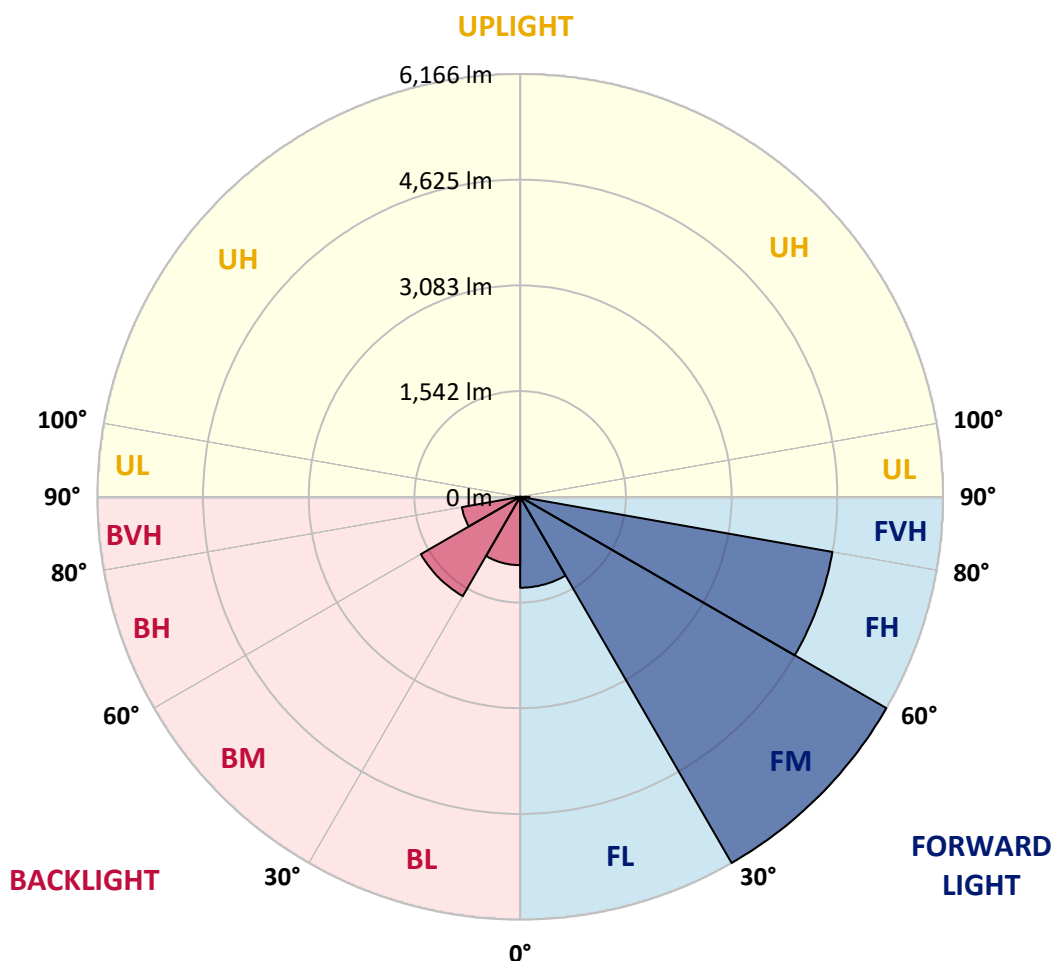
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1325.5 | 8.4       |                         |      |         |
| FM   | (30°-60°)   | 6166.4 | 38.9      |                         |      |         |
| FH   | (60°-80°)   | 4623.7 | 29.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 135.7  | 0.9       |                         |      | G2/225  |
| BL   | (0°-30°)    | 996.2  | 6.3       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1672.6 | 10.6      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 863.4  | 5.4       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 63.6   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 67°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2389.3 | 2389.3 | 2389.3 | 2389.3 | 2389.3 | 2389.3 | 2389.3 | 2389.3 | 2389.3 | 2389.3 | 2389.3 |
| 2.5°  | 2427.1 | 2438.6 | 2419.7 | 2407.1 | 2393.5 | 2400.8 | 2383.0 | 2383.0 | 2374.6 | 2388.2 | 2379.8 |
| 5°    | 2505.8 | 2516.3 | 2483.8 | 2457.5 | 2455.4 | 2433.4 | 2431.3 | 2420.8 | 2408.2 | 2419.7 | 2431.3 |
| 7.5°  | 2610.8 | 2606.6 | 2583.5 | 2553.1 | 2522.6 | 2510.0 | 2489.0 | 2473.3 | 2454.4 | 2464.9 | 2468.0 |
| 10°   | 2738.9 | 2731.5 | 2701.1 | 2652.8 | 2628.6 | 2594.0 | 2541.5 | 2512.1 | 2498.5 | 2509.0 | 2512.1 |
| 12.5° | 2875.3 | 2865.9 | 2836.5 | 2783.0 | 2741.0 | 2686.4 | 2626.5 | 2579.3 | 2569.9 | 2559.4 | 2577.2 |
| 15°   | 3028.6 | 3011.8 | 2986.6 | 2943.6 | 2878.5 | 2807.1 | 2725.2 | 2680.1 | 2666.4 | 2648.6 | 2640.2 |
| 17.5° | 3194.5 | 3192.4 | 3159.8 | 3112.6 | 3046.5 | 2947.8 | 2842.8 | 2772.5 | 2772.5 | 2765.1 | 2720.0 |
| 20°   | 3372.9 | 3364.5 | 3332.0 | 3305.8 | 3212.3 | 3108.4 | 2980.3 | 2891.1 | 2881.6 | 2866.9 | 2792.4 |
| 22.5° | 3552.5 | 3553.5 | 3511.5 | 3491.6 | 3422.3 | 3289.0 | 3127.3 | 3038.1 | 3019.2 | 2999.2 | 2870.1 |
| 25°   | 3715.2 | 3717.3 | 3704.7 | 3667.9 | 3611.2 | 3488.4 | 3319.4 | 3200.8 | 3190.3 | 3163.0 | 3006.6 |
| 27.5° | 3880.0 | 3906.2 | 3869.5 | 3873.7 | 3848.5 | 3707.8 | 3538.8 | 3395.0 | 3405.5 | 3345.6 | 3131.5 |
| 30°   | 4075.2 | 4084.7 | 4066.8 | 4072.1 | 4056.3 | 3964.0 | 3800.2 | 3683.7 | 3683.7 | 3615.4 | 3343.5 |
| 32.5° | 4231.7 | 4223.3 | 4224.3 | 4278.9 | 4286.2 | 4235.9 | 4101.5 | 4063.7 | 4096.2 | 4087.8 | 3843.2 |
| 35°   | 4309.3 | 4324.0 | 4365.0 | 4489.9 | 4550.8 | 4520.3 | 4504.6 | 4555.0 | 4636.9 | 4689.4 | 4389.1 |
| 37.5° | 4409.1 | 4454.2 | 4505.6 | 4645.3 | 4757.6 | 4841.6 | 4927.7 | 5093.5 | 5211.1 | 5279.3 | 4907.7 |
| 40°   | 4511.9 | 4516.1 | 4619.0 | 4792.2 | 5011.6 | 5145.0 | 5349.7 | 5635.2 | 5750.7 | 5699.2 | 5195.4 |
| 42.5° | 4432.2 | 4442.7 | 4585.4 | 4894.1 | 5169.1 | 5510.3 | 5731.8 | 6061.4 | 6141.2 | 5984.8 | 5492.4 |
| 45°   | 4329.3 | 4349.2 | 4529.8 | 4894.1 | 5342.3 | 5845.2 | 6098.2 | 6465.6 | 6475.0 | 6264.0 | 5672.0 |
| 47.5° | 4238.0 | 4254.8 | 4444.8 | 4856.3 | 5505.0 | 6139.1 | 6393.2 | 6692.3 | 6756.4 | 6491.8 | 5910.3 |
| 50°   | 4116.2 | 4158.2 | 4345.0 | 4822.7 | 5580.6 | 6343.8 | 6654.5 | 6965.3 | 6987.3 | 6707.0 | 6088.7 |
| 52.5° | 3983.9 | 4020.7 | 4250.6 | 4759.7 | 5677.2 | 6512.8 | 6827.8 | 7227.7 | 7186.8 | 6994.7 | 6289.2 |
| 55°   | 3805.4 | 3838.0 | 4103.6 | 4658.9 | 5688.7 | 6604.2 | 6952.7 | 7471.3 | 7487.0 | 7234.0 | 6483.4 |
| 57.5° | 3600.7 | 3655.3 | 3896.8 | 4472.1 | 5582.7 | 6631.5 | 7167.9 | 7800.9 | 7861.8 | 7530.1 | 6638.8 |
| 60°   | 3379.2 | 3422.3 | 3696.3 | 4273.6 | 5442.1 | 6734.3 | 7462.9 | 8228.2 | 8276.5 | 7788.3 | 6701.8 |
| 62.5° | 3152.5 | 3188.2 | 3414.9 | 3975.5 | 5183.8 | 6754.3 | 7720.1 | 8657.5 | 8641.8 | 8018.2 | 6788.9 |
| 65°   | 2870.1 | 2873.2 | 3087.4 | 3615.4 | 4824.8 | 6611.5 | 7852.3 | 8831.8 | 8847.5 | 8227.1 | 6689.2 |
| 67.5° | 2511.1 | 2531.0 | 2693.7 | 3195.5 | 4335.6 | 6252.5 | 7768.4 | 8981.9 | 9043.8 | 8356.2 | 6562.2 |
| 70°   | 1999.8 | 2011.4 | 2181.4 | 2648.6 | 3685.8 | 5697.1 | 7608.8 | 9005.0 | 8991.4 | 8189.3 | 6212.6 |
| 72.5° | 1422.4 | 1466.5 | 1581.0 | 1862.3 | 2828.1 | 4663.1 | 6887.6 | 8292.2 | 8229.2 | 7544.8 | 5541.8 |
| 75°   | 914.4  | 918.6  | 1033.0 | 1216.7 | 1655.5 | 3305.8 | 5741.2 | 7147.9 | 7174.2 | 6544.3 | 4511.9 |
| 77.5° | 302.3  | 341.2  | 379.0  | 513.3  | 686.6  | 1376.3 | 3875.8 | 5634.2 | 5713.9 | 5155.5 | 3079.0 |
| 80°   | 133.3  | 133.3  | 225.7  | 290.8  | 370.6  | 590.0  | 1546.3 | 2549.9 | 2794.5 | 2404.0 | 1186.2 |
| 82.5° | 97.6   | 99.7   | 151.2  | 173.2  | 145.9  | 245.6  | 555.3  | 816.7  | 866.1  | 777.9  | 471.4  |
| 85°   | 55.6   | 57.7   | 65.1   | 74.5   | 61.9   | 99.7   | 122.8  | 126.0  | 127.0  | 110.2  | 86.1   |
| 87.5° | 25.2   | 25.2   | 23.1   | 19.9   | 11.5   | 7.3    | 7.3    | 5.2    | 6.3    | 5.2    | 4.2    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2389.3 | 2389.3 | 2389.3 | 2389.3 | 2389.3 | 2389.3 | 2389.3 | 2389.3 | 2389.3 | 2389.3 | 2389.3 |
| 2.5°  | 2376.7 | 2387.2 | 2410.3 | 2414.5 | 2425.0 | 2440.7 | 2460.7 | 2470.1 | 2501.6 | 2516.3 | 2520.5 |
| 5°    | 2433.4 | 2438.6 | 2478.5 | 2492.2 | 2539.4 | 2563.6 | 2584.6 | 2599.3 | 2638.1 | 2647.5 | 2664.3 |
| 7.5°  | 2476.4 | 2494.3 | 2542.6 | 2573.0 | 2602.4 | 2627.6 | 2625.5 | 2660.1 | 2680.1 | 2695.8 | 2702.1 |
| 10°   | 2520.5 | 2530.0 | 2579.3 | 2593.0 | 2615.0 | 2633.9 | 2639.1 | 2648.6 | 2653.8 | 2675.9 | 2683.2 |
| 12.5° | 2588.8 | 2582.5 | 2588.8 | 2600.3 | 2618.1 | 2613.9 | 2625.5 | 2611.8 | 2619.2 | 2647.5 | 2637.0 |
| 15°   | 2639.1 | 2624.4 | 2597.2 | 2598.2 | 2586.7 | 2581.4 | 2564.6 | 2553.1 | 2552.0 | 2558.3 | 2568.8 |
| 17.5° | 2695.8 | 2652.8 | 2602.4 | 2588.8 | 2545.7 | 2503.7 | 2474.3 | 2442.8 | 2437.6 | 2443.9 | 2436.5 |
| 20°   | 2745.2 | 2687.4 | 2600.3 | 2557.3 | 2473.3 | 2397.7 | 2354.7 | 2307.4 | 2305.3 | 2301.1 | 2292.7 |
| 22.5° | 2805.0 | 2732.6 | 2599.3 | 2512.1 | 2412.4 | 2290.6 | 2201.4 | 2165.7 | 2122.7 | 2139.4 | 2137.3 |
| 25°   | 2894.2 | 2804.0 | 2608.7 | 2463.8 | 2302.2 | 2157.3 | 2042.9 | 1964.1 | 1921.1 | 1911.6 | 1915.8 |
| 27.5° | 3004.5 | 2884.8 | 2613.9 | 2402.9 | 2201.4 | 1994.6 | 1813.0 | 1694.3 | 1668.1 | 1633.5 | 1636.6 |
| 30°   | 3165.1 | 2995.0 | 2639.1 | 2335.8 | 2053.4 | 1786.7 | 1570.5 | 1416.2 | 1372.1 | 1379.4 | 1381.5 |
| 32.5° | 3544.1 | 3221.8 | 2657.0 | 2258.1 | 1890.7 | 1556.8 | 1274.4 | 1120.1 | 1085.5 | 1098.1 | 1105.4 |
| 35°   | 4041.6 | 3656.4 | 2754.6 | 2158.3 | 1705.9 | 1288.1 | 977.3  | 890.2  | 897.6  | 921.7  | 928.0  |
| 37.5° | 4535.0 | 4117.2 | 2969.8 | 2071.2 | 1469.7 | 985.7  | 780.0  | 728.5  | 771.6  | 794.7  | 802.0  |
| 40°   | 4838.4 | 4423.8 | 3207.1 | 1936.8 | 1169.5 | 724.3  | 594.2  | 564.8  | 614.1  | 667.7  | 693.9  |
| 42.5° | 5145.0 | 4674.7 | 3361.4 | 1773.1 | 836.7  | 527.0  | 442.0  | 466.1  | 546.9  | 600.5  | 613.1  |
| 45°   | 5340.2 | 4803.8 | 3376.1 | 1512.7 | 557.4  | 408.4  | 403.1  | 454.6  | 537.5  | 580.5  | 587.9  |
| 47.5° | 5530.2 | 4977.0 | 3314.2 | 1211.4 | 419.9  | 388.4  | 400.0  | 459.8  | 541.7  | 590.0  | 588.9  |
| 50°   | 5719.2 | 5147.1 | 3179.8 | 961.6  | 396.8  | 375.8  | 406.3  | 470.3  | 549.0  | 585.8  | 585.8  |
| 52.5° | 5834.7 | 5231.0 | 2910.0 | 765.3  | 382.1  | 368.5  | 409.4  | 474.5  | 541.7  | 562.7  | 559.5  |
| 55°   | 5973.2 | 5251.0 | 2728.4 | 637.2  | 366.4  | 363.2  | 415.7  | 486.0  | 540.6  | 542.7  | 535.4  |
| 57.5° | 6045.7 | 5201.7 | 2580.4 | 541.7  | 352.7  | 365.3  | 423.1  | 489.2  | 571.1  | 596.3  | 600.5  |
| 60°   | 6014.2 | 5141.8 | 2412.4 | 481.8  | 340.1  | 362.2  | 421.0  | 513.3  | 665.6  | 718.0  | 708.6  |
| 62.5° | 5983.7 | 5029.5 | 2130.0 | 432.5  | 326.5  | 364.3  | 418.9  | 569.0  | 782.1  | 727.5  | 698.1  |
| 65°   | 5873.5 | 4796.4 | 1762.6 | 385.3  | 309.7  | 365.3  | 414.7  | 628.8  | 801.0  | 734.8  | 684.5  |
| 67.5° | 5571.2 | 4408.0 | 1394.1 | 334.9  | 289.7  | 350.6  | 405.2  | 591.0  | 641.4  | 577.4  | 550.1  |
| 70°   | 5120.8 | 3845.3 | 956.3  | 289.7  | 265.6  | 332.8  | 398.9  | 559.5  | 602.6  | 557.4  | 522.8  |
| 72.5° | 4394.4 | 3021.3 | 530.1  | 242.5  | 233.1  | 310.7  | 397.9  | 552.2  | 606.8  | 477.6  | 439.9  |
| 75°   | 3341.4 | 2004.0 | 344.3  | 190.0  | 191.1  | 277.1  | 379.0  | 527.0  | 587.9  | 449.3  | 397.9  |
| 77.5° | 1968.3 | 844.0  | 240.4  | 135.4  | 149.1  | 215.2  | 337.0  | 504.9  | 556.4  | 439.9  | 397.9  |
| 80°   | 668.7  | 371.6  | 156.4  | 91.3   | 91.3   | 137.5  | 240.4  | 412.6  | 495.5  | 428.3  | 424.1  |
| 82.5° | 347.5  | 236.2  | 99.7   | 56.7   | 52.5   | 66.1   | 148.0  | 283.4  | 397.9  | 363.2  | 413.6  |
| 85°   | 69.3   | 49.3   | 31.5   | 23.1   | 25.2   | 33.6   | 52.5   | 143.8  | 251.9  | 280.3  | 335.9  |
| 87.5° | 5.2    | 4.2    | 6.3    | 6.3    | 6.3    | 6.3    | 7.3    | 35.7   | 100.8  | 123.9  | 153.3  |
| 90°   | 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)