

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: P553507

Luminaire Tested: **VERD-G-CA2-140-727-U-T3**

Issue Date: 7/12/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553507  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/12/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-140-727-U-T3  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1290mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17347 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

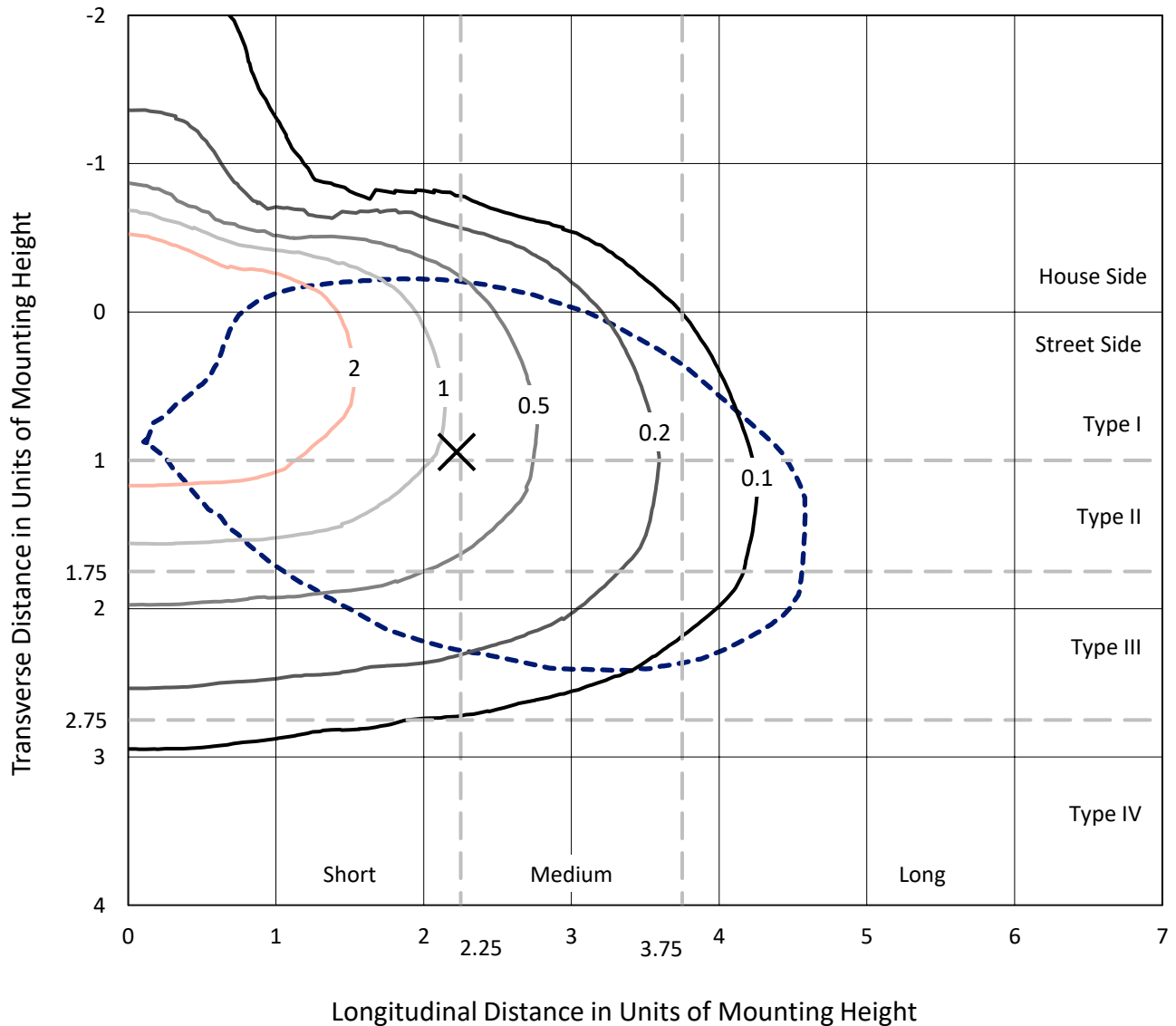
Input Watts (W): 142.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

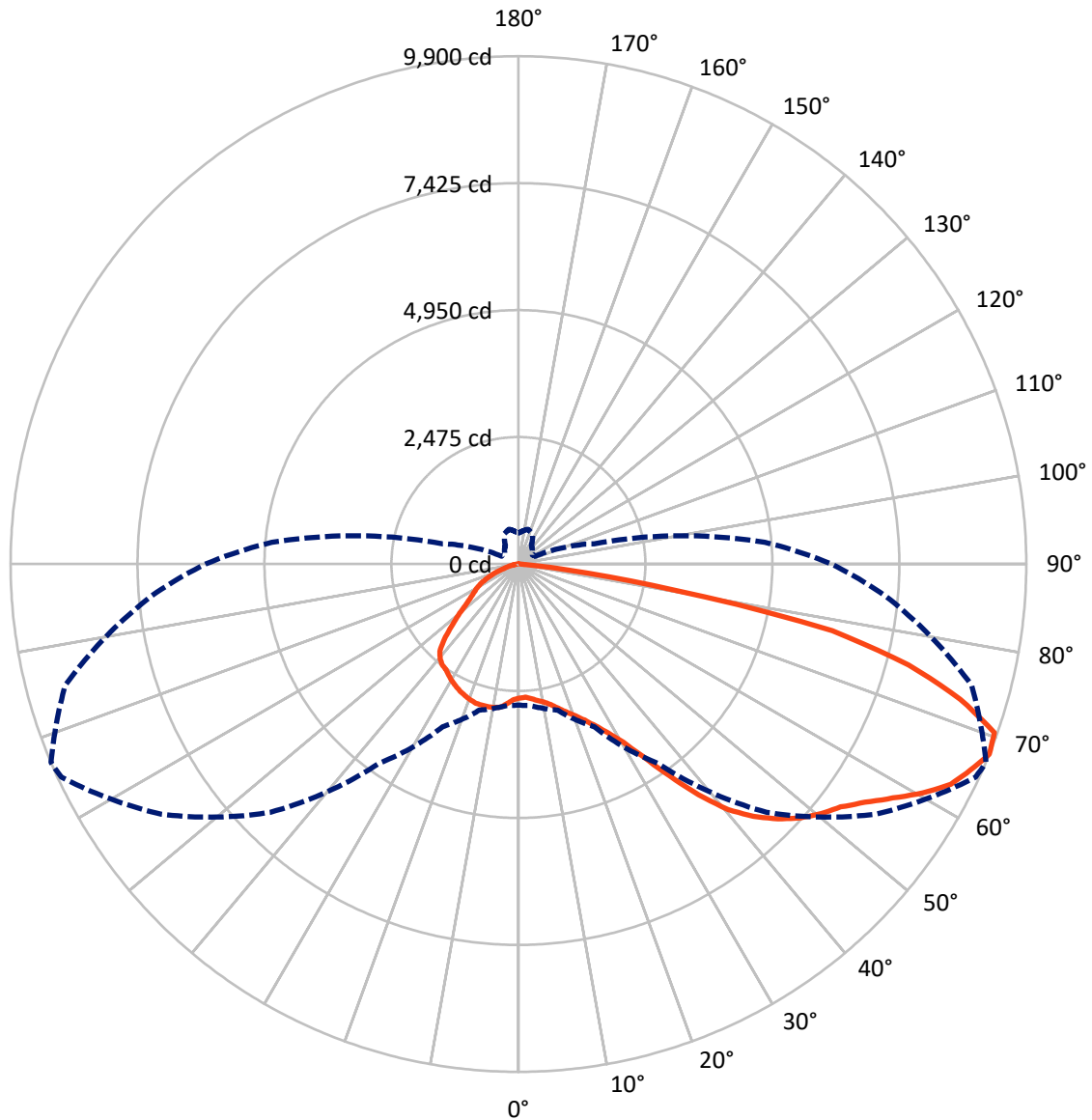
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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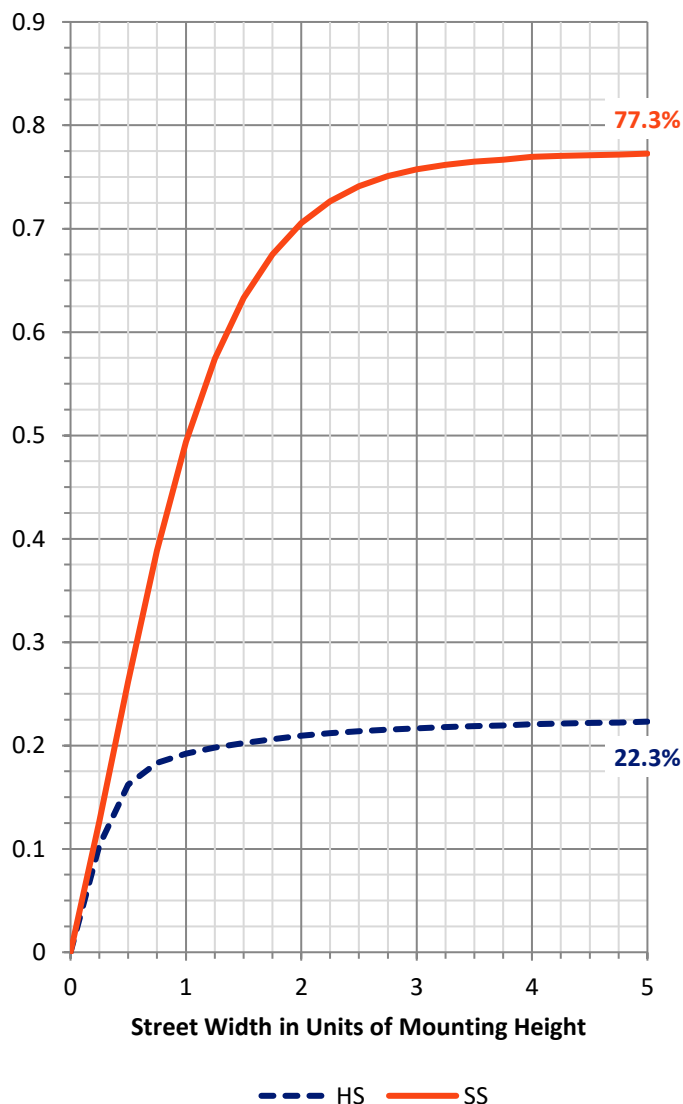
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3936.1   | 0.0    | 3936.1  |
|                    | % Fixture | 22.7     | 0.0    | 22.7    |
| <b>Street Side</b> | Lumens    | 13410.9  | 0.0    | 13410.9 |
|                    | % Fixture | 77.3     | 0.0    | 77.3    |
| <b>Total</b>       | Lumens    | 17347.0  | 0.0    | 17347.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 264.9   | 1.5       |
| 10°-20°   | 838.5   | 4.8       |
| 20°-30°   | 1438.1  | 8.3       |
| 30°-40°   | 2140.2  | 12.3      |
| 40°-50°   | 2926.1  | 16.9      |
| 50°-60°   | 3514.8  | 20.3      |
| 60°-70°   | 3728.7  | 21.5      |
| 70°-80°   | 2277.8  | 13.1      |
| 80°-90°   | 218.1   | 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°    | 17347.0 | 100.0     |
| 0°-180°   | 17347.0 | 100.0     |

**Coefficient of Utilization**



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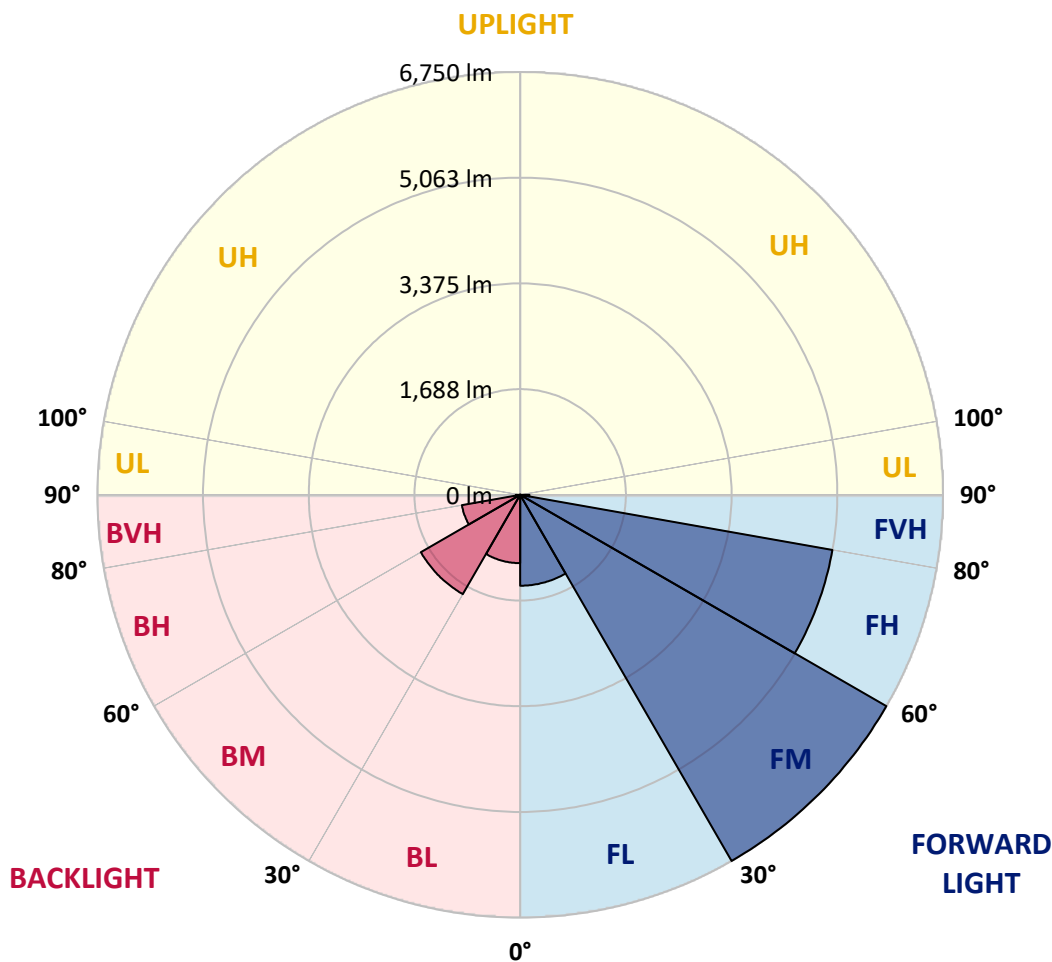
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1450.9 | 8.4       |                         |      |         |
| FM (30°-60°)   | 6750.1 | 38.9      |                         |      |         |
| FH (60°-80°)   | 5061.4 | 29.2      |                         |      | G3/7500 |
| FVH (80°-90°)  | 148.5  | 0.9       |                         |      | G2/225  |
| BL (0°-30°)    | 1090.5 | 6.3       | B3/2500                 |      |         |
| BM (30°-60°)   | 1830.9 | 10.6      | B2/2500                 |      |         |
| BH (60°-80°)   | 945.1  | 5.4       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 69.6   | 0.4       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 67°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2615.5 | 2615.5 | 2615.5 | 2615.5 | 2615.5 | 2615.5 | 2615.5 | 2615.5 | 2615.5 | 2615.5 | 2615.5 |
| 2.5°  | 2656.8 | 2669.5 | 2648.8 | 2635.0 | 2620.1 | 2628.1 | 2608.6 | 2608.6 | 2599.4 | 2614.3 | 2605.1 |
| 5°    | 2743.0 | 2754.5 | 2718.9 | 2690.1 | 2687.9 | 2663.7 | 2661.4 | 2649.9 | 2636.1 | 2648.8 | 2661.4 |
| 7.5°  | 2857.9 | 2853.3 | 2828.0 | 2794.7 | 2761.4 | 2747.6 | 2724.6 | 2707.4 | 2686.7 | 2698.2 | 2701.6 |
| 10°   | 2998.1 | 2990.1 | 2956.8 | 2903.9 | 2877.5 | 2839.5 | 2782.1 | 2749.9 | 2735.0 | 2746.5 | 2749.9 |
| 12.5° | 3147.5 | 3137.2 | 3105.0 | 3046.4 | 3000.4 | 2940.7 | 2875.2 | 2823.5 | 2813.1 | 2801.6 | 2821.2 |
| 15°   | 3315.3 | 3296.9 | 3269.3 | 3222.2 | 3151.0 | 3072.8 | 2983.2 | 2933.8 | 2918.8 | 2899.3 | 2890.1 |
| 17.5° | 3496.8 | 3494.6 | 3458.9 | 3407.2 | 3334.8 | 3226.8 | 3111.9 | 3034.9 | 3034.9 | 3026.8 | 2977.4 |
| 20°   | 3692.2 | 3683.0 | 3647.4 | 3618.7 | 3516.4 | 3402.6 | 3262.4 | 3164.7 | 3154.4 | 3138.3 | 3056.7 |
| 22.5° | 3888.7 | 3889.9 | 3843.9 | 3822.1 | 3746.2 | 3600.3 | 3423.3 | 3325.6 | 3304.9 | 3283.1 | 3141.8 |
| 25°   | 4066.8 | 4069.1 | 4055.3 | 4015.1 | 3953.1 | 3818.6 | 3633.6 | 3503.7 | 3492.3 | 3462.4 | 3291.2 |
| 27.5° | 4247.2 | 4276.0 | 4235.7 | 4240.3 | 4212.8 | 4058.8 | 3873.8 | 3716.3 | 3727.8 | 3662.3 | 3427.9 |
| 30°   | 4461.0 | 4471.3 | 4451.8 | 4457.5 | 4440.3 | 4339.2 | 4159.9 | 4032.4 | 4032.4 | 3957.7 | 3660.0 |
| 32.5° | 4632.2 | 4623.0 | 4624.2 | 4683.9 | 4692.0 | 4636.8 | 4489.7 | 4448.3 | 4484.0 | 4474.8 | 4207.0 |
| 35°   | 4717.2 | 4733.3 | 4778.1 | 4914.9 | 4981.5 | 4948.2 | 4931.0 | 4986.1 | 5075.8 | 5133.2 | 4804.6 |
| 37.5° | 4826.4 | 4875.8 | 4932.1 | 5085.0 | 5207.9 | 5299.9 | 5394.1 | 5575.7 | 5704.4 | 5779.1 | 5372.3 |
| 40°   | 4939.0 | 4943.6 | 5056.2 | 5245.8 | 5486.0 | 5632.0 | 5856.0 | 6168.6 | 6295.0 | 6238.7 | 5687.1 |
| 42.5° | 4851.7 | 4863.2 | 5019.5 | 5357.3 | 5658.4 | 6031.9 | 6274.3 | 6635.2 | 6722.5 | 6551.3 | 6012.3 |
| 45°   | 4739.1 | 4760.9 | 4958.6 | 5357.3 | 5848.0 | 6398.4 | 6675.4 | 7077.6 | 7087.9 | 6857.0 | 6208.8 |
| 47.5° | 4639.1 | 4657.5 | 4865.5 | 5315.9 | 6026.1 | 6720.2 | 6998.3 | 7325.8 | 7395.9 | 7106.3 | 6469.7 |
| 50°   | 4505.8 | 4551.8 | 4756.3 | 5279.2 | 6108.9 | 6944.3 | 7284.4 | 7624.6 | 7648.7 | 7341.9 | 6665.0 |
| 52.5° | 4361.0 | 4401.2 | 4652.9 | 5210.2 | 6214.6 | 7129.3 | 7474.0 | 7911.9 | 7867.0 | 7656.8 | 6884.5 |
| 55°   | 4165.7 | 4201.3 | 4492.0 | 5099.9 | 6227.2 | 7229.3 | 7610.8 | 8178.5 | 8195.7 | 7918.8 | 7097.1 |
| 57.5° | 3941.6 | 4001.3 | 4265.6 | 4895.4 | 6111.2 | 7259.2 | 7846.4 | 8539.3 | 8605.9 | 8242.8 | 7267.2 |
| 60°   | 3699.1 | 3746.2 | 4046.1 | 4678.2 | 5957.2 | 7371.8 | 8169.3 | 9007.0 | 9059.9 | 8525.5 | 7336.1 |
| 62.5° | 3450.9 | 3490.0 | 3738.2 | 4351.8 | 5674.5 | 7393.6 | 8450.8 | 9477.0 | 9459.8 | 8777.2 | 7431.5 |
| 65°   | 3141.8 | 3145.2 | 3379.6 | 3957.7 | 5281.5 | 7237.3 | 8595.6 | 9667.8 | 9685.0 | 9005.9 | 7322.4 |
| 67.5° | 2748.8 | 2770.6 | 2948.7 | 3498.0 | 4746.0 | 6844.3 | 8503.7 | 9832.1 | 9899.9 | 9147.2 | 7183.3 |
| 70°   | 2189.1 | 2201.8 | 2387.9 | 2899.3 | 4034.6 | 6236.4 | 8329.0 | 9857.4 | 9842.4 | 8964.5 | 6800.6 |
| 72.5° | 1557.1 | 1605.4 | 1730.6 | 2038.6 | 3095.8 | 5104.5 | 7539.5 | 9077.1 | 9008.2 | 8258.9 | 6066.3 |
| 75°   | 1000.9 | 1005.5 | 1130.8 | 1331.9 | 1812.2 | 3618.7 | 6284.7 | 7824.5 | 7853.3 | 7163.8 | 4939.0 |
| 77.5° | 331.0  | 373.5  | 414.8  | 561.9  | 751.5  | 1506.5 | 4242.6 | 6167.5 | 6254.8 | 5643.5 | 3370.4 |
| 80°   | 145.9  | 145.9  | 247.1  | 318.3  | 405.6  | 645.8  | 1692.7 | 2791.3 | 3059.0 | 2631.5 | 1298.5 |
| 82.5° | 106.9  | 109.2  | 165.5  | 189.6  | 159.7  | 268.9  | 607.9  | 894.0  | 948.0  | 851.5  | 516.0  |
| 85°   | 60.9   | 63.2   | 71.2   | 81.6   | 67.8   | 109.2  | 134.5  | 137.9  | 139.0  | 120.7  | 94.2   |
| 87.5° | 27.6   | 27.6   | 25.3   | 21.8   | 12.6   | 8.0    | 8.0    | 5.7    | 6.9    | 5.7    | 4.6    |
| 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°    | 2615.5 | 2615.5 | 2615.5 | 2615.5 | 2615.5 | 2615.5 | 2615.5 | 2615.5 | 2615.5 | 2615.5 | 2615.5 |
| 2.5°  | 2601.7 | 2613.2 | 2638.4 | 2643.0 | 2654.5 | 2671.8 | 2693.6 | 2703.9 | 2738.4 | 2754.5 | 2759.1 |
| 5°    | 2663.7 | 2669.5 | 2713.1 | 2728.1 | 2779.8 | 2806.2 | 2829.2 | 2845.3 | 2887.8 | 2898.1 | 2916.5 |
| 7.5°  | 2710.8 | 2730.4 | 2783.2 | 2816.6 | 2848.7 | 2876.3 | 2874.0 | 2911.9 | 2933.8 | 2951.0 | 2957.9 |
| 10°   | 2759.1 | 2769.4 | 2823.5 | 2838.4 | 2862.5 | 2883.2 | 2889.0 | 2899.3 | 2905.0 | 2929.2 | 2937.2 |
| 12.5° | 2833.8 | 2826.9 | 2833.8 | 2846.4 | 2866.0 | 2861.4 | 2874.0 | 2859.1 | 2867.1 | 2898.1 | 2886.7 |
| 15°   | 2889.0 | 2872.9 | 2843.0 | 2844.1 | 2831.5 | 2825.7 | 2807.4 | 2794.7 | 2793.6 | 2800.5 | 2812.0 |
| 17.5° | 2951.0 | 2903.9 | 2848.7 | 2833.8 | 2786.7 | 2740.7 | 2708.5 | 2674.1 | 2668.3 | 2675.2 | 2667.2 |
| 20°   | 3005.0 | 2941.8 | 2846.4 | 2799.3 | 2707.4 | 2624.6 | 2577.5 | 2525.8 | 2523.5 | 2518.9 | 2509.7 |
| 22.5° | 3070.5 | 2991.2 | 2845.3 | 2749.9 | 2640.7 | 2507.4 | 2409.8 | 2370.7 | 2323.6 | 2342.0 | 2339.7 |
| 25°   | 3168.2 | 3069.4 | 2855.6 | 2697.0 | 2520.1 | 2361.5 | 2236.2 | 2150.1 | 2102.9 | 2092.6 | 2097.2 |
| 27.5° | 3288.9 | 3157.9 | 2861.4 | 2630.4 | 2409.8 | 2183.4 | 1984.6 | 1854.7 | 1826.0 | 1788.1 | 1791.5 |
| 30°   | 3464.7 | 3278.5 | 2889.0 | 2556.8 | 2247.7 | 1955.8 | 1719.1 | 1550.2 | 1501.9 | 1510.0 | 1512.3 |
| 32.5° | 3879.5 | 3526.7 | 2908.5 | 2471.8 | 2069.6 | 1704.2 | 1395.1 | 1226.1 | 1188.2 | 1202.0 | 1210.1 |
| 35°   | 4424.2 | 4002.5 | 3015.4 | 2362.6 | 1867.4 | 1410.0 | 1069.9 | 974.5  | 982.5  | 1008.9 | 1015.8 |
| 37.5° | 4964.3 | 4506.9 | 3250.9 | 2267.3 | 1608.8 | 1079.0 | 853.8  | 797.5  | 844.6  | 869.9  | 877.9  |
| 40°   | 5296.4 | 4842.5 | 3510.6 | 2120.2 | 1280.1 | 792.9  | 650.4  | 618.2  | 672.3  | 730.9  | 759.6  |
| 42.5° | 5632.0 | 5117.1 | 3679.6 | 1940.9 | 915.9  | 576.9  | 483.8  | 510.2  | 598.7  | 657.3  | 671.1  |
| 45°   | 5845.7 | 5258.5 | 3695.7 | 1655.9 | 610.2  | 447.0  | 441.3  | 497.6  | 588.4  | 635.5  | 643.5  |
| 47.5° | 6053.7 | 5448.1 | 3627.9 | 1326.1 | 459.7  | 425.2  | 437.8  | 503.3  | 593.0  | 645.8  | 644.7  |
| 50°   | 6260.5 | 5634.3 | 3480.8 | 1052.6 | 434.4  | 411.4  | 444.7  | 514.8  | 601.0  | 641.2  | 641.2  |
| 52.5° | 6386.9 | 5726.2 | 3185.4 | 837.7  | 418.3  | 403.4  | 448.2  | 519.4  | 593.0  | 615.9  | 612.5  |
| 55°   | 6538.6 | 5748.0 | 2986.6 | 697.5  | 401.1  | 397.6  | 455.1  | 532.1  | 591.8  | 594.1  | 586.1  |
| 57.5° | 6617.9 | 5694.0 | 2824.6 | 593.0  | 386.1  | 399.9  | 463.1  | 535.5  | 625.1  | 652.7  | 657.3  |
| 60°   | 6583.5 | 5628.5 | 2640.7 | 527.5  | 372.3  | 396.5  | 460.8  | 561.9  | 728.6  | 786.0  | 775.7  |
| 62.5° | 6550.1 | 5505.6 | 2331.6 | 473.4  | 357.4  | 398.8  | 458.5  | 622.8  | 856.1  | 796.4  | 764.2  |
| 65°   | 6429.5 | 5250.4 | 1929.4 | 421.7  | 339.0  | 399.9  | 453.9  | 688.3  | 876.8  | 804.4  | 749.2  |
| 67.5° | 6098.5 | 4825.3 | 1526.1 | 366.6  | 317.2  | 383.8  | 443.6  | 647.0  | 702.1  | 632.0  | 602.2  |
| 70°   | 5605.5 | 4209.3 | 1046.9 | 317.2  | 290.7  | 364.3  | 436.7  | 612.5  | 659.6  | 610.2  | 572.3  |
| 72.5° | 4810.3 | 3307.2 | 580.3  | 265.5  | 255.1  | 340.1  | 435.5  | 604.5  | 664.2  | 522.9  | 481.5  |
| 75°   | 3657.7 | 2193.7 | 376.9  | 208.0  | 209.1  | 303.4  | 414.8  | 576.9  | 643.5  | 491.8  | 435.5  |
| 77.5° | 2154.6 | 923.9  | 263.2  | 148.2  | 163.2  | 235.6  | 368.9  | 552.7  | 609.0  | 481.5  | 435.5  |
| 80°   | 732.0  | 406.8  | 171.2  | 100.0  | 100.0  | 150.5  | 263.2  | 451.6  | 542.4  | 468.9  | 464.3  |
| 82.5° | 380.4  | 258.6  | 109.2  | 62.1   | 57.5   | 72.4   | 162.0  | 310.3  | 435.5  | 397.6  | 452.8  |
| 85°   | 75.8   | 54.0   | 34.5   | 25.3   | 27.6   | 36.8   | 57.5   | 157.4  | 275.8  | 306.8  | 367.7  |
| 87.5° | 5.7    | 4.6    | 6.9    | 6.9    | 6.9    | 6.9    | 8.0    | 39.1   | 110.3  | 135.6  | 167.8  |
| 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)