

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: P509567

Luminaire Tested: **VERD-G-CA2-120-750-U-T3**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509567  
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-CA2-120-750-U-T3  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 1120mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18022 lumens  
Efficiency: N/A  
Efficacy: 144.5 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

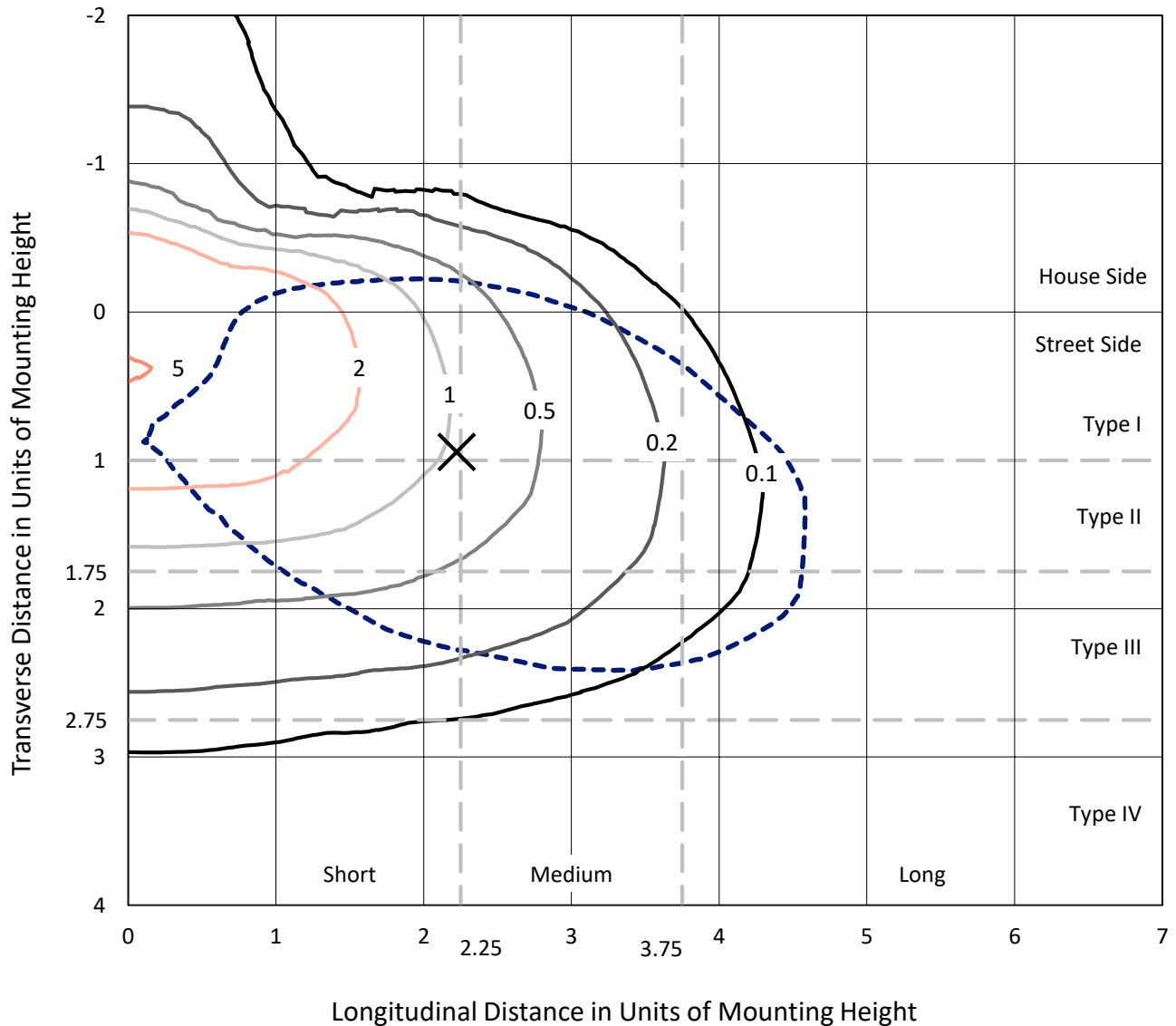
Input Watts (W): 124.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

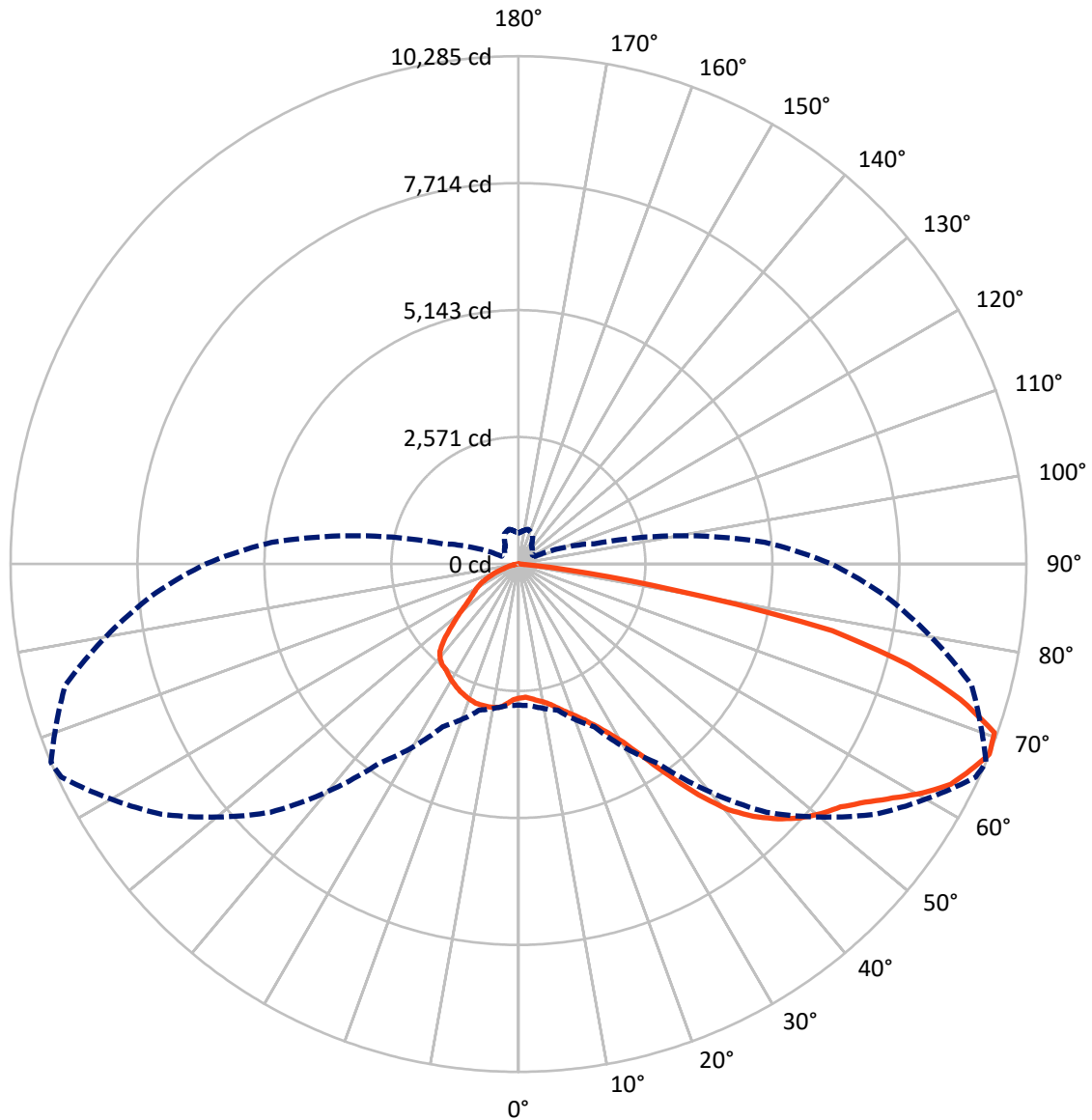
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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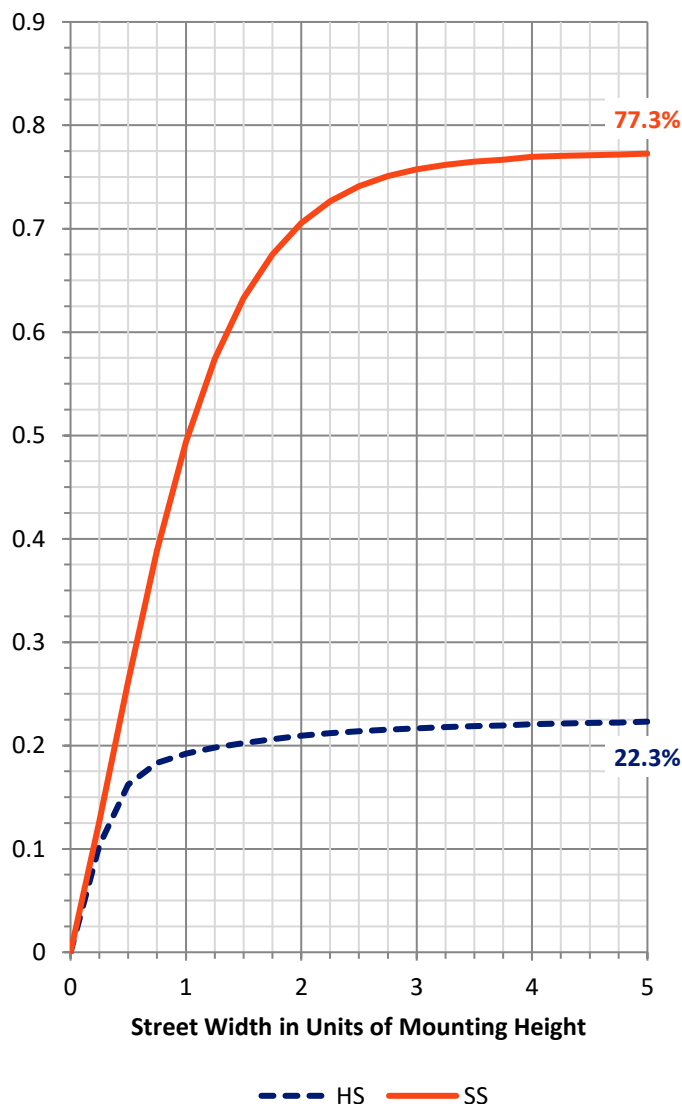
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4089.3   | 0.0    | 4089.3  |
|                    | % Fixture | 22.7     | 0.0    | 22.7    |
| <b>Street Side</b> | Lumens    | 13932.7  | 0.0    | 13932.7 |
|                    | % Fixture | 77.3     | 0.0    | 77.3    |
| <b>Total</b>       | Lumens    | 18022.0  | 0.0    | 18022.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 275.2   | 1.5       |
| 10°-20°   | 871.1   | 4.8       |
| 20°-30°   | 1494.0  | 8.3       |
| 30°-40°   | 2223.4  | 12.3      |
| 40°-50°   | 3039.9  | 16.9      |
| 50°-60°   | 3651.5  | 20.3      |
| 60°-70°   | 3873.7  | 21.5      |
| 70°-80°   | 2366.4  | 13.1      |
| 80°-90°   | 226.6   | 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°    | 18022.0 | 100.0     |
| 0°-180°   | 18022.0 | 100.0     |

**Coefficient of Utilization**



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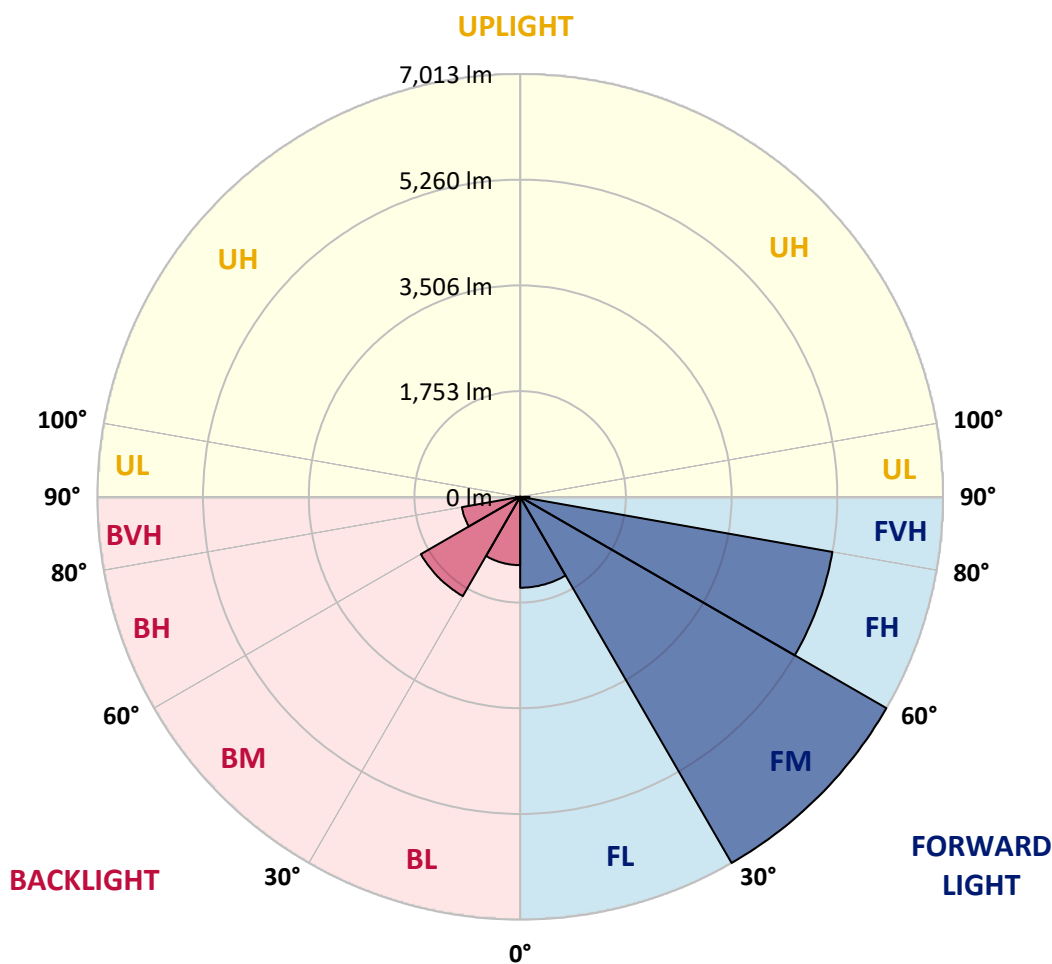
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1507.4 | 8.4       |                         |      |         |
| FM (30°-60°)   | 7012.7 | 38.9      |                         |      |         |
| FH (60°-80°)   | 5258.3 | 29.2      |                         |      | G3/7500 |
| FVH (80°-90°)  | 154.3  | 0.9       |                         |      | G2/225  |
| BL (0°-30°)    | 1133.0 | 6.3       | B3/2500                 |      |         |
| BM (30°-60°)   | 1902.2 | 10.6      | B2/2500                 |      |         |
| BH (60°-80°)   | 981.8  | 5.4       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 72.3   | 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°    | 2717.2 | 2717.2 | 2717.2 | 2717.2 | 2717.2 | 2717.2 | 2717.2 | 2717.2  | 2717.2  | 2717.2 | 2717.2 |
| 2.5°  | 2760.2 | 2773.3 | 2751.8 | 2737.5 | 2722.0 | 2730.4 | 2710.1 | 2710.1  | 2700.5  | 2716.0 | 2706.5 |
| 5°    | 2849.7 | 2861.7 | 2824.7 | 2794.8 | 2792.4 | 2767.4 | 2765.0 | 2753.0  | 2738.7  | 2751.8 | 2765.0 |
| 7.5°  | 2969.1 | 2964.4 | 2938.1 | 2903.5 | 2868.8 | 2854.5 | 2830.6 | 2812.7  | 2791.2  | 2803.2 | 2806.8 |
| 10°   | 3114.8 | 3106.4 | 3071.8 | 3016.9 | 2989.4 | 2950.0 | 2890.3 | 2856.9  | 2841.4  | 2853.3 | 2856.9 |
| 12.5° | 3270.0 | 3259.2 | 3225.8 | 3164.9 | 3117.2 | 3055.1 | 2987.0 | 2933.3  | 2922.6  | 2910.6 | 2930.9 |
| 15°   | 3444.3 | 3425.2 | 3396.5 | 3347.6 | 3273.6 | 3192.4 | 3099.3 | 3047.9  | 3032.4  | 3012.1 | 3002.6 |
| 17.5° | 3632.9 | 3630.5 | 3593.5 | 3539.8 | 3464.6 | 3352.4 | 3233.0 | 3153.0  | 3153.0  | 3144.6 | 3093.3 |
| 20°   | 3835.9 | 3826.3 | 3789.3 | 3759.5 | 3653.2 | 3535.0 | 3389.4 | 3287.9  | 3277.1  | 3260.4 | 3175.7 |
| 22.5° | 4040.0 | 4041.2 | 3993.5 | 3970.8 | 3892.0 | 3740.4 | 3556.5 | 3455.0  | 3433.5  | 3410.9 | 3264.0 |
| 25°   | 4225.1 | 4227.5 | 4213.1 | 4171.3 | 4106.9 | 3967.2 | 3775.0 | 3640.1  | 3628.1  | 3597.1 | 3419.2 |
| 27.5° | 4412.5 | 4442.4 | 4400.6 | 4405.3 | 4376.7 | 4216.7 | 4024.5 | 3860.9  | 3872.9  | 3804.8 | 3561.3 |
| 30°   | 4634.6 | 4645.3 | 4625.0 | 4631.0 | 4613.1 | 4508.0 | 4321.8 | 4189.3  | 4189.3  | 4111.7 | 3802.4 |
| 32.5° | 4812.5 | 4802.9 | 4804.1 | 4866.2 | 4874.5 | 4817.2 | 4664.4 | 4621.4  | 4658.4  | 4648.9 | 4370.7 |
| 35°   | 4900.8 | 4917.5 | 4964.1 | 5106.1 | 5175.4 | 5140.8 | 5122.9 | 5180.2  | 5273.3  | 5333.0 | 4991.5 |
| 37.5° | 5014.2 | 5065.5 | 5124.0 | 5282.8 | 5410.6 | 5506.1 | 5604.0 | 5792.6  | 5926.3  | 6003.9 | 5581.3 |
| 40°   | 5131.2 | 5136.0 | 5253.0 | 5450.0 | 5699.5 | 5851.1 | 6083.9 | 6408.6  | 6540.0  | 6481.5 | 5908.4 |
| 42.5° | 5040.5 | 5052.4 | 5214.8 | 5565.8 | 5878.6 | 6266.6 | 6518.5 | 6893.4  | 6984.1  | 6806.2 | 6246.3 |
| 45°   | 4923.5 | 4946.2 | 5151.5 | 5565.8 | 6075.6 | 6647.4 | 6935.1 | 7353.0  | 7363.7  | 7123.8 | 6450.4 |
| 47.5° | 4819.6 | 4838.7 | 5054.8 | 5522.8 | 6260.6 | 6981.7 | 7270.6 | 7610.9  | 7683.7  | 7382.8 | 6721.4 |
| 50°   | 4681.1 | 4728.9 | 4941.4 | 5484.6 | 6346.6 | 7214.5 | 7567.9 | 7921.3  | 7946.3  | 7627.6 | 6924.4 |
| 52.5° | 4530.7 | 4572.5 | 4833.9 | 5413.0 | 6456.4 | 7406.7 | 7764.9 | 8219.7  | 8173.2  | 7954.7 | 7152.4 |
| 55°   | 4327.7 | 4364.8 | 4666.8 | 5298.4 | 6469.5 | 7510.6 | 7906.9 | 8496.7  | 8514.6  | 8226.9 | 7373.3 |
| 57.5° | 4094.9 | 4157.0 | 4431.6 | 5085.8 | 6348.9 | 7541.6 | 8151.7 | 8871.6  | 8940.8  | 8563.6 | 7550.0 |
| 60°   | 3843.0 | 3892.0 | 4203.6 | 4860.2 | 6189.0 | 7658.6 | 8487.2 | 9357.5  | 9412.4  | 8857.3 | 7621.6 |
| 62.5° | 3585.2 | 3625.8 | 3883.6 | 4521.1 | 5895.3 | 7681.3 | 8779.6 | 9845.8  | 9827.9  | 9118.7 | 7720.7 |
| 65°   | 3264.0 | 3267.6 | 3511.1 | 4111.7 | 5487.0 | 7518.9 | 8930.1 | 10043.9 | 10061.9 | 9356.3 | 7607.3 |
| 67.5° | 2855.7 | 2878.4 | 3063.4 | 3634.1 | 4930.6 | 7110.6 | 8834.6 | 10214.7 | 10285.1 | 9503.1 | 7462.8 |
| 70°   | 2274.3 | 2287.4 | 2480.8 | 3012.1 | 4191.6 | 6479.1 | 8653.1 | 10240.9 | 10225.4 | 9313.3 | 7065.3 |
| 72.5° | 1617.7 | 1667.8 | 1798.0 | 2117.9 | 3216.3 | 5303.1 | 7832.9 | 9430.3  | 9358.7  | 8580.3 | 6302.4 |
| 75°   | 1039.9 | 1044.6 | 1174.8 | 1383.7 | 1882.7 | 3759.5 | 6529.2 | 8129.0  | 8158.8  | 7442.5 | 5131.2 |
| 77.5° | 343.8  | 388.0  | 431.0  | 583.8  | 780.8  | 1565.2 | 4407.7 | 6407.4  | 6498.2  | 5863.0 | 3501.6 |
| 80°   | 151.6  | 151.6  | 256.7  | 330.7  | 421.4  | 670.9  | 1758.6 | 2899.9  | 3178.1  | 2733.9 | 1349.1 |
| 82.5° | 111.0  | 113.4  | 171.9  | 197.0  | 165.9  | 279.4  | 631.6  | 928.8   | 984.9   | 884.7  | 536.0  |
| 85°   | 63.3   | 65.7   | 74.0   | 84.8   | 70.4   | 113.4  | 139.7  | 143.3   | 144.5   | 125.4  | 97.9   |
| 87.5° | 28.7   | 28.7   | 26.3   | 22.7   | 13.1   | 8.4    | 8.4    | 6.0     | 7.2     | 6.0    | 4.8    |
| 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°    | 2717.2 | 2717.2 | 2717.2 | 2717.2 | 2717.2 | 2717.2 | 2717.2 | 2717.2 | 2717.2 | 2717.2 | 2717.2 |
| 2.5°  | 2702.9 | 2714.8 | 2741.1 | 2745.9 | 2757.8 | 2775.7 | 2798.4 | 2809.2 | 2845.0 | 2861.7 | 2866.5 |
| 5°    | 2767.4 | 2773.3 | 2818.7 | 2834.2 | 2887.9 | 2915.4 | 2939.3 | 2956.0 | 3000.2 | 3010.9 | 3030.0 |
| 7.5°  | 2816.3 | 2836.6 | 2891.5 | 2926.2 | 2959.6 | 2988.2 | 2985.8 | 3025.2 | 3047.9 | 3065.8 | 3073.0 |
| 10°   | 2866.5 | 2877.2 | 2933.3 | 2948.8 | 2973.9 | 2995.4 | 3001.4 | 3012.1 | 3018.1 | 3043.2 | 3051.5 |
| 12.5° | 2944.1 | 2936.9 | 2944.1 | 2957.2 | 2977.5 | 2972.7 | 2985.8 | 2970.3 | 2978.7 | 3010.9 | 2999.0 |
| 15°   | 3001.4 | 2984.7 | 2953.6 | 2954.8 | 2941.7 | 2935.7 | 2916.6 | 2903.5 | 2902.3 | 2909.4 | 2921.4 |
| 17.5° | 3065.8 | 3016.9 | 2959.6 | 2944.1 | 2895.1 | 2847.4 | 2813.9 | 2778.1 | 2772.1 | 2779.3 | 2771.0 |
| 20°   | 3121.9 | 3056.3 | 2957.2 | 2908.2 | 2812.7 | 2726.8 | 2677.8 | 2624.1 | 2621.7 | 2616.9 | 2607.4 |
| 22.5° | 3190.0 | 3107.6 | 2956.0 | 2856.9 | 2743.5 | 2605.0 | 2503.5 | 2462.9 | 2414.0 | 2433.1 | 2430.7 |
| 25°   | 3291.5 | 3188.8 | 2966.7 | 2802.0 | 2618.1 | 2453.4 | 2323.3 | 2233.7 | 2184.8 | 2174.0 | 2178.8 |
| 27.5° | 3416.8 | 3280.7 | 2972.7 | 2732.7 | 2503.5 | 2268.3 | 2061.8 | 1926.9 | 1897.0 | 1857.6 | 1861.2 |
| 30°   | 3599.5 | 3406.1 | 3001.4 | 2656.3 | 2335.2 | 2032.0 | 1786.0 | 1610.5 | 1560.4 | 1568.7 | 1571.1 |
| 32.5° | 4030.5 | 3664.0 | 3021.7 | 2568.0 | 2150.1 | 1770.5 | 1449.3 | 1273.8 | 1234.5 | 1248.8 | 1257.1 |
| 35°   | 4596.4 | 4158.2 | 3132.7 | 2454.6 | 1940.0 | 1464.9 | 1111.5 | 1012.4 | 1020.8 | 1048.2 | 1055.4 |
| 37.5° | 5157.5 | 4682.3 | 3377.4 | 2355.5 | 1671.4 | 1121.0 | 887.0  | 828.5  | 877.5  | 903.8  | 912.1  |
| 40°   | 5502.5 | 5030.9 | 3647.2 | 2202.7 | 1330.0 | 823.8  | 675.7  | 642.3  | 698.4  | 759.3  | 789.1  |
| 42.5° | 5851.1 | 5316.3 | 3822.7 | 2016.4 | 951.5  | 599.3  | 502.6  | 530.1  | 622.0  | 682.9  | 697.2  |
| 45°   | 6073.2 | 5463.1 | 3839.5 | 1720.4 | 633.9  | 464.4  | 458.4  | 516.9  | 611.3  | 660.2  | 668.6  |
| 47.5° | 6289.3 | 5660.1 | 3769.0 | 1377.7 | 477.5  | 441.7  | 454.9  | 522.9  | 616.0  | 670.9  | 669.8  |
| 50°   | 6504.2 | 5853.5 | 3616.2 | 1093.6 | 451.3  | 427.4  | 462.0  | 534.8  | 624.4  | 666.2  | 666.2  |
| 52.5° | 6635.5 | 5949.0 | 3309.4 | 870.3  | 434.6  | 419.0  | 465.6  | 539.6  | 616.0  | 639.9  | 636.3  |
| 55°   | 6793.1 | 5971.7 | 3102.8 | 724.7  | 416.7  | 413.1  | 472.8  | 552.8  | 614.8  | 617.2  | 608.9  |
| 57.5° | 6875.4 | 5915.6 | 2934.5 | 616.0  | 401.1  | 415.5  | 481.1  | 556.3  | 649.5  | 678.1  | 682.9  |
| 60°   | 6839.6 | 5847.5 | 2743.5 | 548.0  | 386.8  | 411.9  | 478.7  | 583.8  | 756.9  | 816.6  | 805.9  |
| 62.5° | 6805.0 | 5719.8 | 2422.3 | 491.9  | 371.3  | 414.3  | 476.4  | 647.1  | 889.4  | 827.3  | 793.9  |
| 65°   | 6679.6 | 5454.7 | 2004.5 | 438.1  | 352.2  | 415.5  | 471.6  | 715.1  | 910.9  | 835.7  | 778.4  |
| 67.5° | 6335.8 | 5013.0 | 1585.4 | 380.8  | 329.5  | 398.7  | 460.8  | 672.1  | 729.4  | 656.6  | 625.6  |
| 70°   | 5823.7 | 4373.1 | 1087.6 | 329.5  | 302.0  | 378.5  | 453.7  | 636.3  | 685.3  | 633.9  | 594.5  |
| 72.5° | 4997.5 | 3435.9 | 602.9  | 275.8  | 265.0  | 353.4  | 452.5  | 628.0  | 690.1  | 543.2  | 500.2  |
| 75°   | 3800.1 | 2279.1 | 391.6  | 216.1  | 217.3  | 315.2  | 431.0  | 599.3  | 668.6  | 511.0  | 452.5  |
| 77.5° | 2238.5 | 959.9  | 273.4  | 154.0  | 169.5  | 244.7  | 383.2  | 574.2  | 632.7  | 500.2  | 452.5  |
| 80°   | 760.5  | 422.6  | 177.9  | 103.9  | 103.9  | 156.4  | 273.4  | 469.2  | 563.5  | 487.1  | 482.3  |
| 82.5° | 395.2  | 268.6  | 113.4  | 64.5   | 59.7   | 75.2   | 168.3  | 322.3  | 452.5  | 413.1  | 470.4  |
| 85°   | 78.8   | 56.1   | 35.8   | 26.3   | 28.7   | 38.2   | 59.7   | 163.6  | 286.5  | 318.8  | 382.0  |
| 87.5° | 6.0    | 4.8    | 7.2    | 7.2    | 7.2    | 7.2    | 8.4    | 40.6   | 114.6  | 140.9  | 174.3  |
| 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)