

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: P233859

Luminaire Tested: **VERD-G-C02-D-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233859  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-14)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-C02-D-U-T3  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1175mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17208 lumens  
Efficiency: N/A  
Efficacy: 124.7 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type III - Medium - Semi-Cutoff  
BUG Rating: B3 - U0 - G3

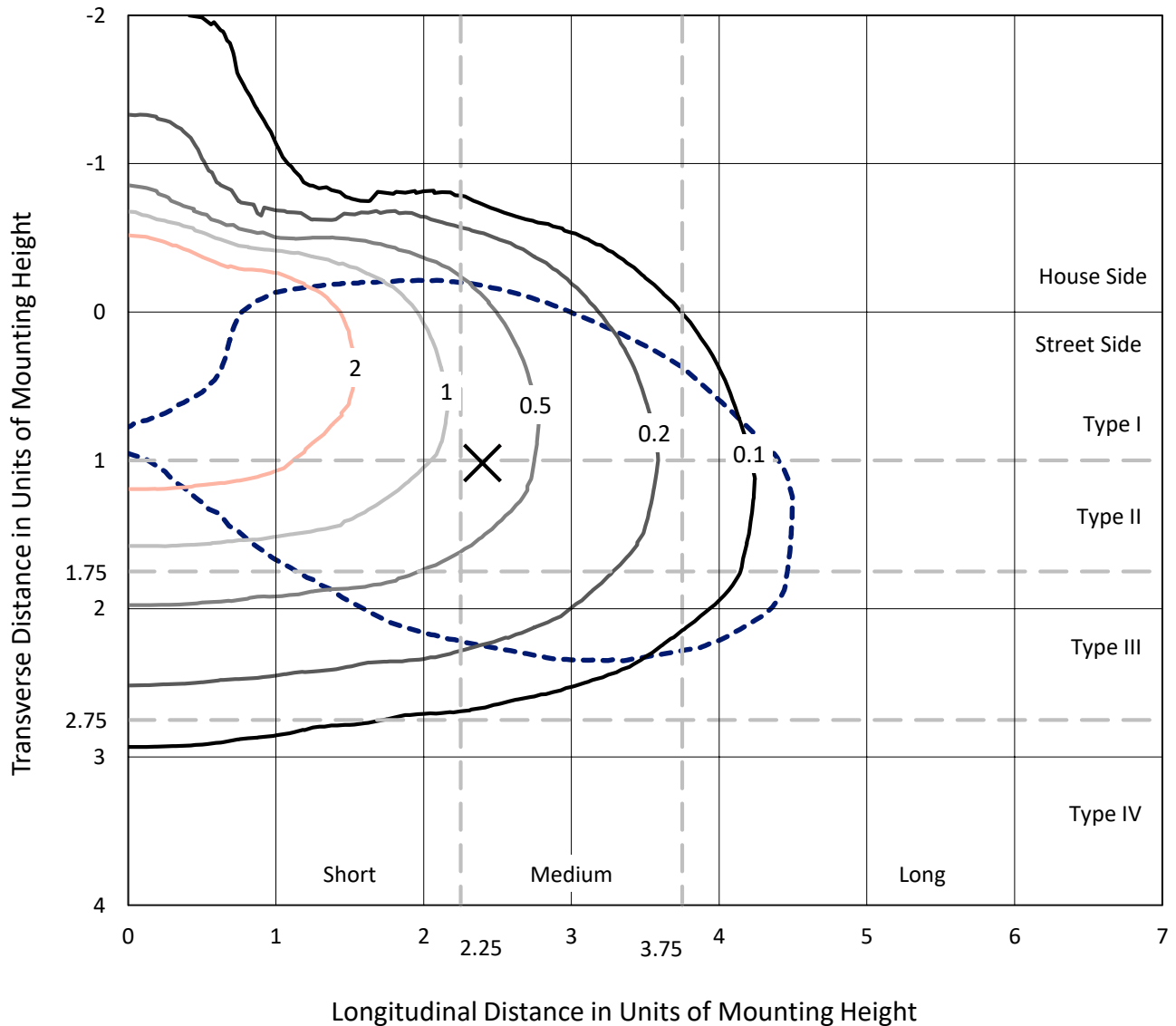
Input Watts (W): 138  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

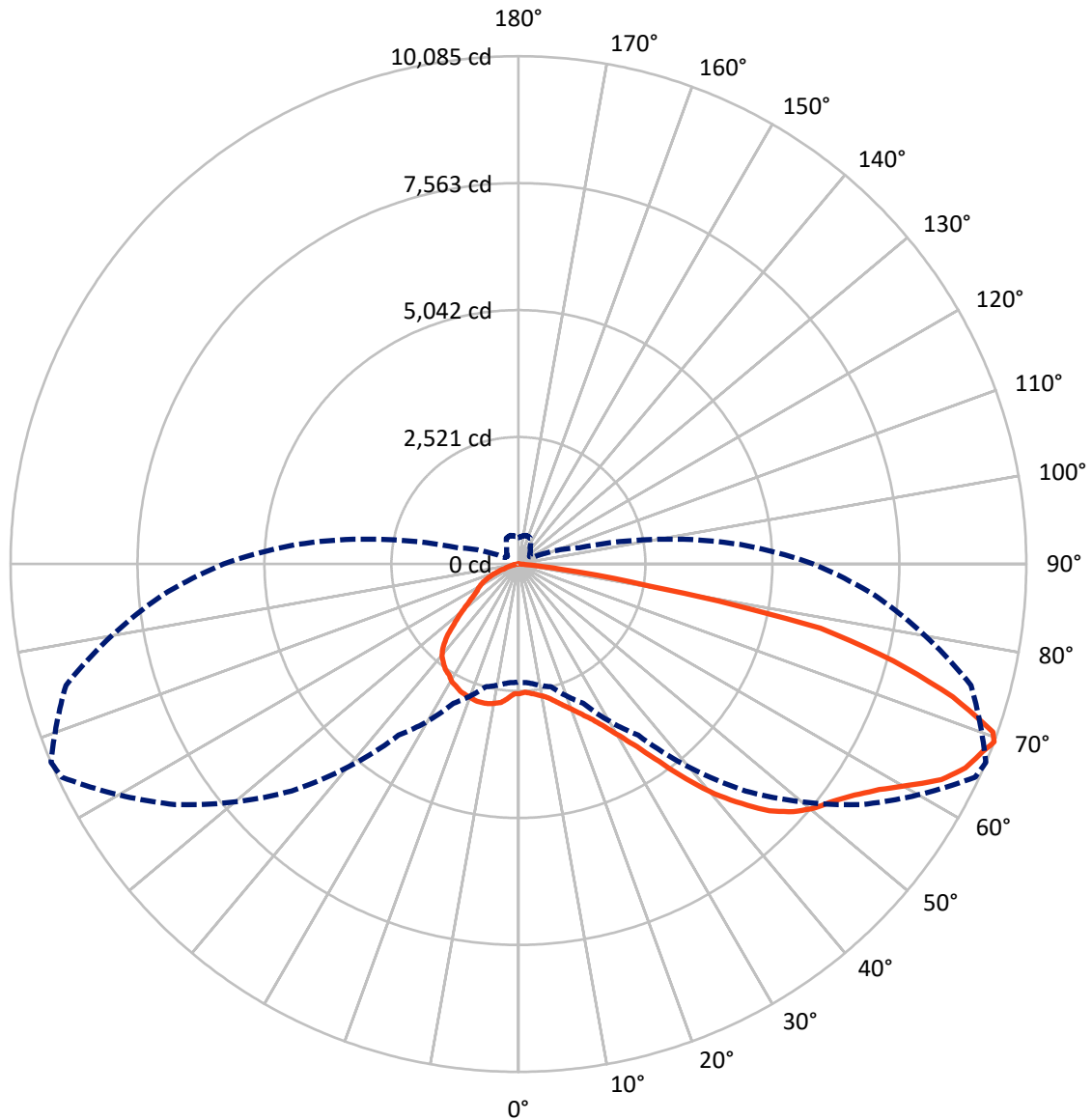


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type III - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3875.1   | 0.0    | 3875.1  |
|                    | % Fixture | 22.5     | 0.0    | 22.5    |
| <b>Street Side</b> | Lumens    | 13332.9  | 0.0    | 13332.9 |
|                    | % Fixture | 77.5     | 0.0    | 77.5    |
| <b>Total</b>       | Lumens    | 17208.0  | 0.0    | 17208.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 260.7   | 1.5       |
| 10°-20°   | 830.9   | 4.8       |
| 20°-30°   | 1431.3  | 8.3       |
| 30°-40°   | 2128.9  | 12.4      |
| 40°-50°   | 2932.0  | 17.0      |
| 50°-60°   | 3505.0  | 20.4      |
| 60°-70°   | 3698.8  | 21.5      |
| 70°-80°   | 2216.5  | 12.9      |
| 80°-90°   | 203.9   | 1.2       |
| 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°    | 17208.0 | 100.0     |
| 0°-180°   | 17208.0 | 100.0     |



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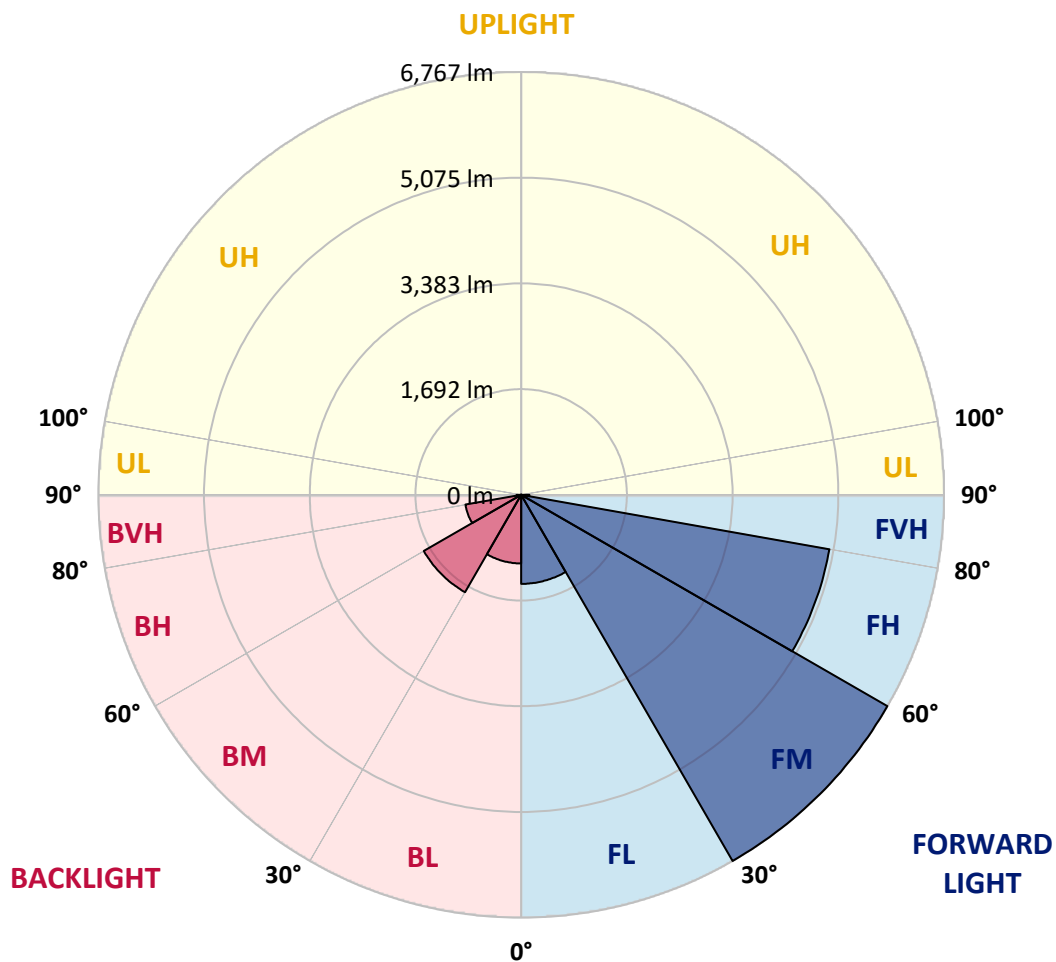
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1424.9 | 8.3       |                         |      |         |
| FM (30°-60°)   | 6767.0 | 39.3      |                         |      |         |
| FH (60°-80°)   | 5009.3 | 29.1      |                         |      | G3/7500 |
| FVH (80°-90°)  | 131.8  | 0.8       |                         |      | G2/225  |
| BL (0°-30°)    | 1098.0 | 6.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 1799.0 | 10.5      | B2/2500                 |      |         |
| BH (60°-80°)   | 906.0  | 5.3       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 72.0   | 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 Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 67°     | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|
| 0°    | 2574.0 | 2574.0 | 2574.0 | 2574.0 | 2574.0 | 2574.0 | 2574.0 | 2574.0  | 2574.0  | 2574.0 | 2574.0 |
| 2.5°  | 2616.2 | 2614.6 | 2606.8 | 2578.7 | 2575.5 | 2572.4 | 2553.6 | 2555.2  | 2550.5  | 2555.2 | 2556.8 |
| 5°    | 2688.2 | 2681.9 | 2674.1 | 2644.4 | 2633.4 | 2619.3 | 2591.2 | 2589.6  | 2578.7  | 2581.8 | 2584.9 |
| 7.5°  | 2777.4 | 2771.1 | 2764.9 | 2730.4 | 2719.5 | 2694.4 | 2650.6 | 2628.7  | 2619.3  | 2622.5 | 2627.2 |
| 10°   | 2897.9 | 2886.9 | 2877.5 | 2827.4 | 2810.2 | 2768.0 | 2714.8 | 2677.2  | 2664.7  | 2669.4 | 2681.9 |
| 12.5° | 3035.6 | 3021.5 | 3005.8 | 2954.2 | 2930.7 | 2865.0 | 2802.4 | 2753.9  | 2735.1  | 2746.1 | 2755.5 |
| 15°   | 3177.9 | 3170.1 | 3163.9 | 3102.8 | 3070.0 | 2998.0 | 2919.8 | 2858.7  | 2841.5  | 2850.9 | 2855.6 |
| 17.5° | 3365.7 | 3361.0 | 3350.1 | 3287.5 | 3224.9 | 3142.0 | 3040.2 | 2976.1  | 2958.9  | 2963.6 | 2952.6 |
| 20°   | 3570.7 | 3558.2 | 3551.9 | 3481.5 | 3415.8 | 3301.6 | 3184.2 | 3093.4  | 3088.8  | 3090.3 | 3055.9 |
| 22.5° | 3800.7 | 3786.6 | 3774.1 | 3709.9 | 3628.6 | 3495.6 | 3342.2 | 3240.5  | 3243.7  | 3246.8 | 3170.1 |
| 25°   | 4035.4 | 4024.5 | 4013.5 | 3952.5 | 3871.1 | 3725.6 | 3541.0 | 3426.7  | 3425.2  | 3426.7 | 3320.3 |
| 27.5° | 4281.1 | 4268.6 | 4267.0 | 4216.9 | 4135.6 | 3986.9 | 3774.1 | 3658.3  | 3658.3  | 3652.1 | 3490.9 |
| 30°   | 4500.1 | 4512.6 | 4512.6 | 4484.5 | 4407.8 | 4259.2 | 4058.9 | 3943.1  | 3958.7  | 3946.2 | 3741.2 |
| 32.5° | 4739.5 | 4736.4 | 4758.3 | 4736.4 | 4673.8 | 4536.1 | 4368.7 | 4295.2  | 4321.8  | 4362.4 | 4157.5 |
| 35°   | 4878.8 | 4900.7 | 4955.5 | 4986.8 | 4957.0 | 4844.4 | 4722.3 | 4778.7  | 4814.6  | 4997.7 | 4752.1 |
| 37.5° | 5040.0 | 5058.7 | 5133.8 | 5210.5 | 5223.0 | 5162.0 | 5162.0 | 5346.6  | 5417.1  | 5656.5 | 5370.1 |
| 40°   | 5151.1 | 5169.8 | 5251.2 | 5340.4 | 5462.4 | 5504.7 | 5614.2 | 5900.6  | 6000.7  | 6161.9 | 5830.1 |
| 42.5° | 5085.3 | 5094.7 | 5270.0 | 5487.5 | 5667.4 | 5870.8 | 6044.5 | 6407.5  | 6503.0  | 6615.6 | 6208.8 |
| 45°   | 4969.5 | 4986.8 | 5180.8 | 5531.3 | 5841.1 | 6244.8 | 6463.9 | 6884.8  | 6994.3  | 6983.3 | 6499.8 |
| 47.5° | 4841.2 | 4867.8 | 5083.8 | 5475.0 | 5989.7 | 6568.7 | 6847.2 | 7285.3  | 7347.9  | 7269.7 | 6701.7 |
| 50°   | 4698.9 | 4744.2 | 4974.2 | 5418.6 | 6097.7 | 6851.9 | 7132.0 | 7585.8  | 7618.6  | 7459.0 | 6878.5 |
| 52.5° | 4536.1 | 4565.8 | 4820.9 | 5310.7 | 6172.8 | 7039.7 | 7358.9 | 7809.5  | 7823.6  | 7693.7 | 7064.7 |
| 55°   | 4310.8 | 4337.4 | 4620.6 | 5166.7 | 6183.8 | 7150.8 | 7504.4 | 8048.9  | 8095.9  | 7969.1 | 7233.7 |
| 57.5° | 4068.3 | 4101.1 | 4392.2 | 4958.6 | 6083.6 | 7196.1 | 7679.6 | 8357.2  | 8447.9  | 8266.4 | 7369.8 |
| 60°   | 3786.6 | 3828.9 | 4123.0 | 4705.1 | 5886.5 | 7266.6 | 8006.7 | 8806.2  | 8918.9  | 8602.8 | 7499.7 |
| 62.5° | 3494.0 | 3517.5 | 3788.2 | 4354.6 | 5579.8 | 7302.5 | 8304.0 | 9319.5  | 9427.4  | 8920.5 | 7560.7 |
| 65°   | 3082.5 | 3120.0 | 3361.0 | 3933.7 | 5147.9 | 7147.6 | 8443.2 | 9677.8  | 9756.0  | 9178.6 | 7501.3 |
| 67.5° | 2645.9 | 2645.9 | 2850.9 | 3429.9 | 4572.1 | 6737.7 | 8386.9 | 9849.9  | 9943.8  | 9360.1 | 7313.5 |
| 69°   | 2343.9 | 2367.4 | 2523.9 | 3051.2 | 4149.6 | 6373.1 | 8325.9 | 10007.9 | 10084.6 | 9302.3 | 7097.6 |
| 70°   | 2112.4 | 2132.7 | 2290.7 | 2775.8 | 3835.1 | 6085.2 | 8194.4 | 9937.5  | 9993.9  | 9123.9 | 6870.7 |
| 72.5° | 1553.8 | 1571.0 | 1680.5 | 1934.0 | 2883.8 | 4910.1 | 7388.6 | 8984.6  | 9019.0  | 8205.4 | 6061.7 |
| 75°   | 1059.3 | 1068.7 | 1151.6 | 1306.5 | 1682.1 | 3433.0 | 6036.7 | 7588.9  | 7690.6  | 7116.3 | 4963.3 |
| 77.5° | 366.1  | 394.3  | 444.4  | 600.9  | 719.8  | 1348.8 | 4091.7 | 5980.4  | 6132.1  | 5510.9 | 3472.1 |
| 80°   | 125.2  | 123.6  | 237.8  | 308.2  | 378.7  | 619.6  | 1294.0 | 2506.7  | 2649.1  | 2272.0 | 1250.2 |
| 82.5° | 93.9   | 97.0   | 158.0  | 170.6  | 115.8  | 228.4  | 503.8  | 766.7   | 840.3   | 733.9  | 517.9  |
| 85°   | 59.5   | 57.9   | 70.4   | 73.5   | 53.2   | 97.0   | 122.0  | 123.6   | 128.3   | 111.1  | 112.7  |
| 87.5° | 32.9   | 32.9   | 31.3   | 26.6   | 14.1   | 12.5   | 11.0   | 11.0    | 9.4     | 9.4    | 9.4    |
| 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°    | 2574.0 | 2574.0 | 2574.0 | 2574.0 | 2574.0 | 2574.0 | 2574.0 | 2574.0 | 2574.0 | 2574.0 | 2574.0 |
| 2.5°  | 2548.9 | 2570.8 | 2575.5 | 2581.8 | 2597.4 | 2617.8 | 2645.9 | 2645.9 | 2656.9 | 2689.8 | 2700.7 |
| 5°    | 2584.9 | 2611.5 | 2645.9 | 2681.9 | 2724.2 | 2769.6 | 2814.9 | 2830.6 | 2852.5 | 2896.3 | 2905.7 |
| 7.5°  | 2639.7 | 2669.4 | 2728.9 | 2777.4 | 2813.4 | 2858.7 | 2896.3 | 2902.6 | 2930.7 | 2971.4 | 2979.2 |
| 10°   | 2696.0 | 2722.6 | 2782.1 | 2807.1 | 2855.6 | 2905.7 | 2924.5 | 2933.8 | 2957.3 | 2988.6 | 2983.9 |
| 12.5° | 2772.7 | 2780.5 | 2822.8 | 2840.0 | 2863.4 | 2894.7 | 2904.1 | 2904.1 | 2918.2 | 2968.3 | 2969.8 |
| 15°   | 2847.8 | 2847.8 | 2854.0 | 2844.7 | 2847.8 | 2863.4 | 2865.0 | 2844.7 | 2860.3 | 2885.3 | 2876.0 |
| 17.5° | 2927.6 | 2905.7 | 2877.5 | 2836.8 | 2800.8 | 2799.3 | 2766.4 | 2717.9 | 2703.8 | 2739.8 | 2738.3 |
| 20°   | 3002.7 | 2965.1 | 2897.9 | 2805.5 | 2755.5 | 2688.2 | 2605.3 | 2577.1 | 2575.5 | 2581.8 | 2577.1 |
| 22.5° | 3101.3 | 3024.6 | 2902.6 | 2775.8 | 2638.1 | 2531.7 | 2462.9 | 2367.4 | 2364.3 | 2350.2 | 2328.3 |
| 25°   | 3218.6 | 3109.1 | 2922.9 | 2743.0 | 2542.7 | 2405.0 | 2239.1 | 2137.4 | 2079.5 | 2092.0 | 2054.5 |
| 27.5° | 3370.4 | 3237.4 | 2930.7 | 2671.0 | 2411.2 | 2178.1 | 1977.8 | 1846.4 | 1796.3 | 1774.4 | 1749.4 |
| 30°   | 3578.5 | 3373.5 | 2987.0 | 2610.0 | 2248.5 | 1940.3 | 1694.6 | 1503.7 | 1431.7 | 1450.5 | 1453.6 |
| 32.5° | 3911.8 | 3631.7 | 3016.8 | 2489.5 | 2060.7 | 1680.5 | 1361.3 | 1154.8 | 1112.5 | 1165.7 | 1179.8 |
| 35°   | 4492.3 | 4032.3 | 3087.2 | 2417.5 | 1846.4 | 1377.0 | 1012.4 | 927.9  | 937.3  | 982.6  | 985.8  |
| 37.5° | 5063.4 | 4539.2 | 3304.7 | 2261.0 | 1589.8 | 1020.2 | 785.5  | 740.1  | 785.5  | 843.4  | 851.2  |
| 40°   | 5464.0 | 4935.1 | 3497.1 | 2106.1 | 1229.9 | 738.5  | 599.3  | 544.5  | 610.2  | 702.6  | 719.8  |
| 42.5° | 5819.2 | 5249.6 | 3633.3 | 1891.7 | 841.8  | 527.3  | 430.3  | 444.4  | 541.4  | 608.7  | 624.3  |
| 45°   | 6074.2 | 5465.6 | 3727.2 | 1613.2 | 536.7  | 399.0  | 384.9  | 430.3  | 522.6  | 575.8  | 580.5  |
| 47.5° | 6235.4 | 5592.3 | 3658.3 | 1270.6 | 403.7  | 377.1  | 378.7  | 436.6  | 528.9  | 588.3  | 586.8  |
| 50°   | 6380.9 | 5659.6 | 3434.6 | 1007.7 | 383.4  | 361.5  | 386.5  | 453.8  | 549.2  | 604.0  | 600.9  |
| 52.5° | 6535.8 | 5725.3 | 3162.3 | 790.2  | 367.7  | 353.6  | 395.9  | 464.7  | 549.2  | 583.6  | 578.9  |
| 55°   | 6668.8 | 5783.2 | 2957.3 | 635.3  | 356.8  | 352.1  | 405.3  | 481.9  | 546.1  | 560.2  | 550.8  |
| 57.5° | 6737.7 | 5684.6 | 2735.1 | 533.6  | 345.8  | 352.1  | 411.5  | 478.8  | 564.9  | 610.2  | 600.9  |
| 60°   | 6700.1 | 5592.3 | 2555.2 | 496.0  | 330.2  | 350.5  | 414.7  | 513.2  | 693.2  | 735.4  | 732.3  |
| 62.5° | 6631.3 | 5490.6 | 2303.3 | 445.9  | 312.9  | 353.6  | 413.1  | 544.5  | 798.0  | 783.9  | 744.8  |
| 65°   | 6490.5 | 5287.2 | 1959.0 | 388.1  | 295.7  | 359.9  | 413.1  | 613.4  | 696.3  | 680.7  | 663.4  |
| 67.5° | 6190.0 | 4847.5 | 1567.8 | 333.3  | 277.0  | 341.1  | 406.8  | 583.6  | 599.3  | 558.6  | 538.3  |
| 69°   | 5853.6 | 4428.2 | 1240.8 | 303.6  | 266.0  | 331.7  | 405.3  | 563.3  | 589.9  | 546.1  | 522.6  |
| 70°   | 5590.7 | 4101.1 | 1003.0 | 281.6  | 255.0  | 328.6  | 403.7  | 549.2  | 585.2  | 536.7  | 511.7  |
| 72.5° | 4656.6 | 3314.1 | 525.7  | 226.9  | 217.5  | 298.9  | 389.6  | 536.7  | 586.8  | 514.8  | 478.8  |
| 75°   | 3658.3 | 2358.0 | 348.9  | 173.7  | 167.4  | 261.3  | 356.8  | 516.4  | 552.3  | 463.2  | 408.4  |
| 77.5° | 2256.3 | 1032.7 | 241.0  | 120.5  | 122.0  | 203.4  | 306.7  | 461.6  | 557.0  | 467.9  | 397.4  |
| 80°   | 655.6  | 399.0  | 153.3  | 81.4   | 75.1   | 120.5  | 241.0  | 397.4  | 528.9  | 480.4  | 433.4  |
| 82.5° | 378.7  | 259.7  | 103.3  | 51.6   | 45.4   | 54.8   | 151.8  | 308.2  | 466.3  | 439.7  | 449.1  |
| 85°   | 86.1   | 72.0   | 37.6   | 25.0   | 25.0   | 31.3   | 51.6   | 178.4  | 322.3  | 377.1  | 425.6  |
| 87.5° | 9.4    | 9.4    | 9.4    | 9.4    | 9.4    | 7.8    | 9.4    | 48.5   | 140.8  | 200.3  | 233.1  |
| 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)