

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: P509527

Luminaire Tested: **VERD-G-CA2-110-760-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509527
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-CA2-110-760-U-T3
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1020mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16357 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 - G2

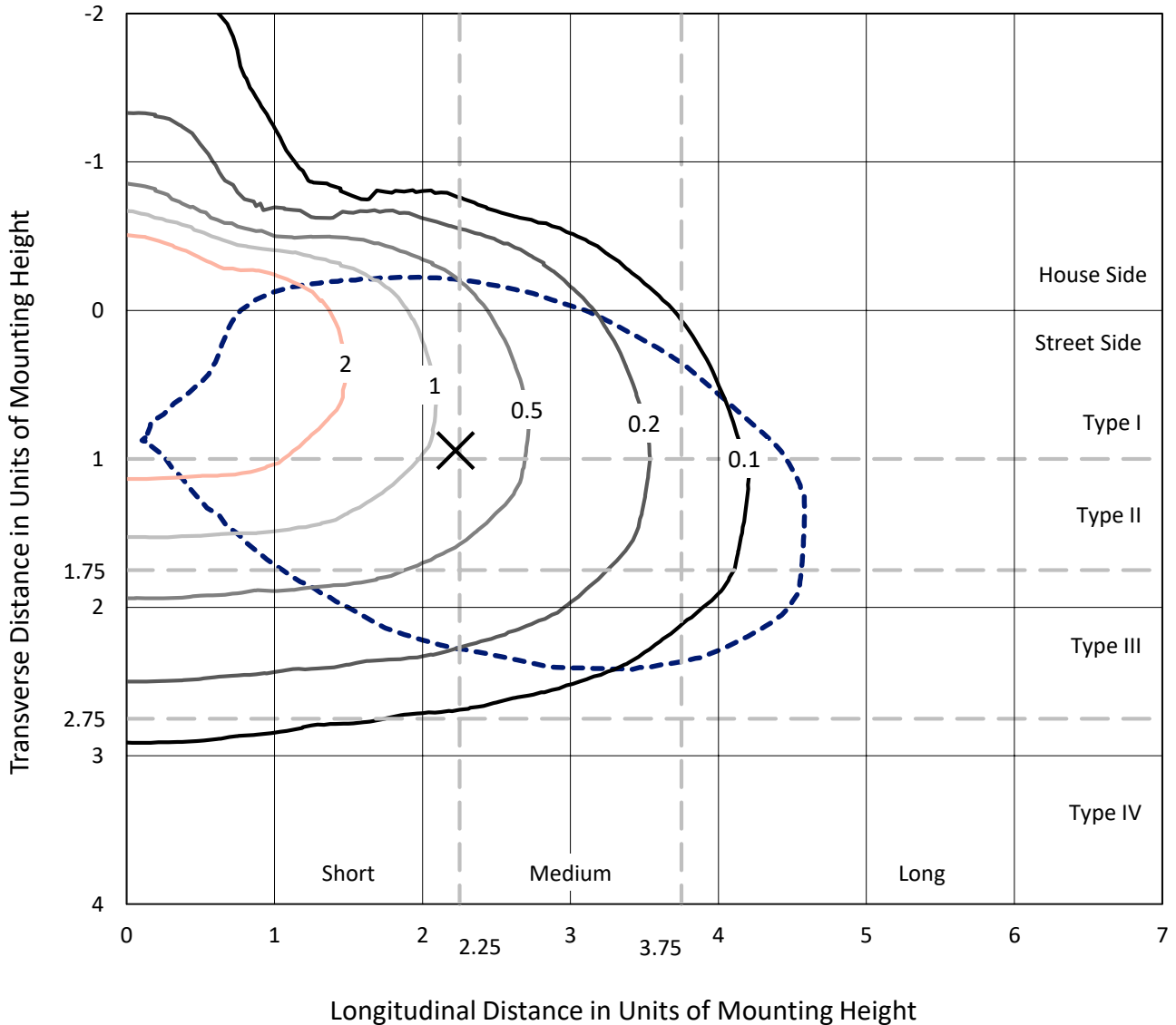
Input Watts (W): 113.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

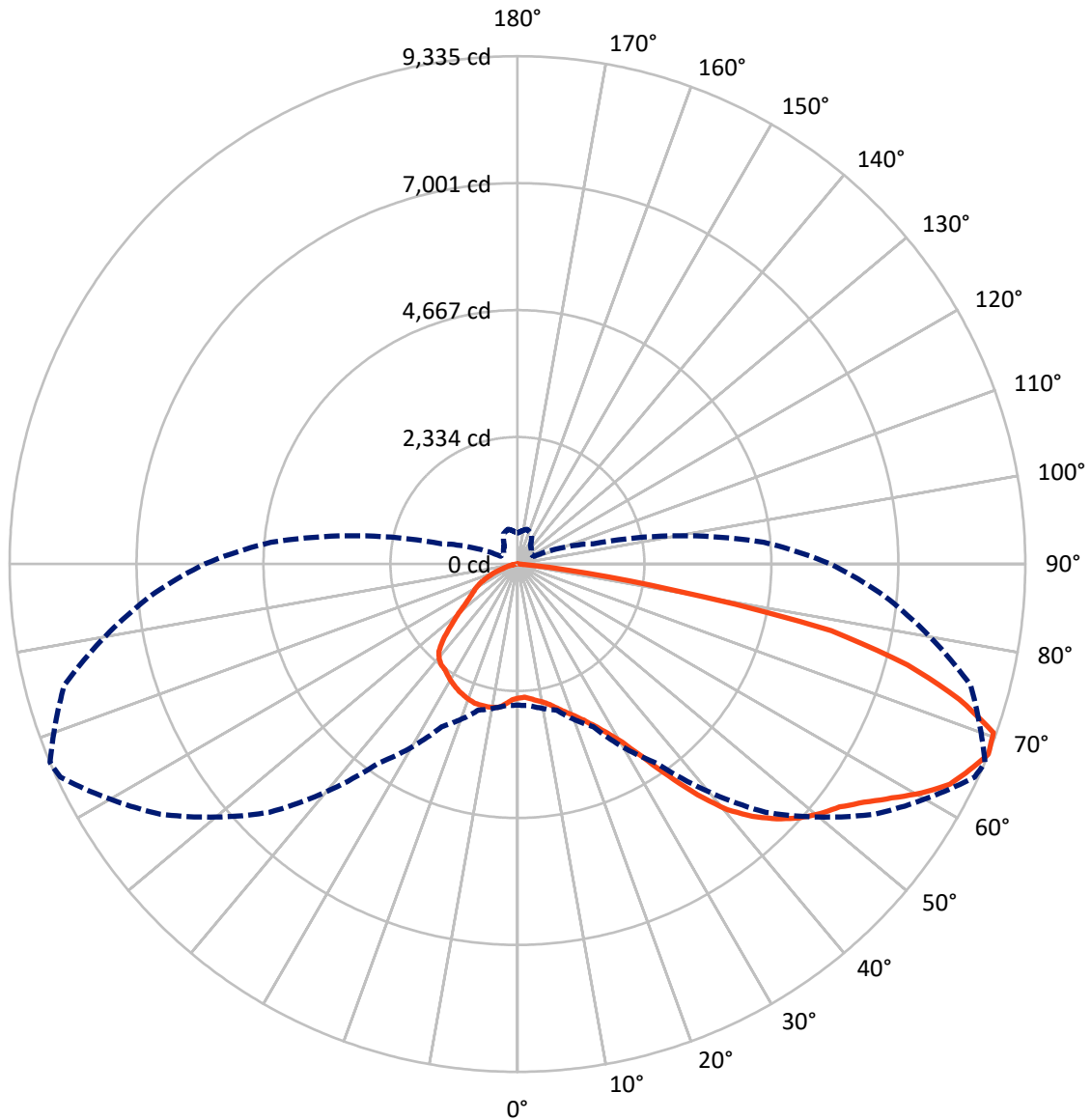
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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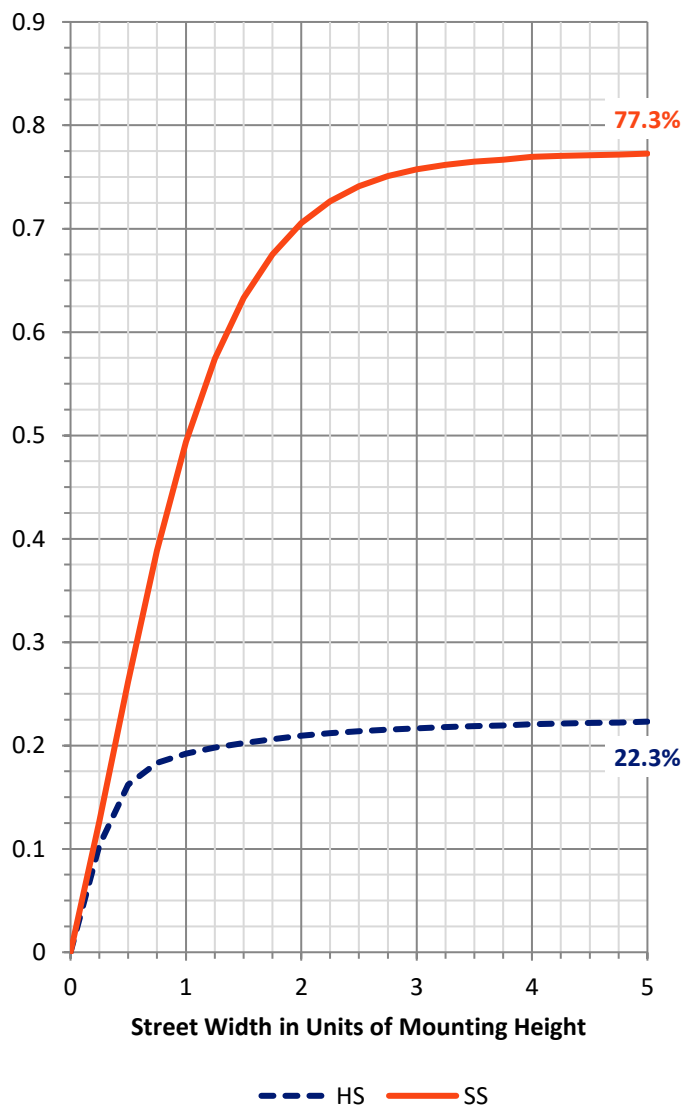
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3711.5 | 0.0 | 3711.5 |
| | % Fixture | 22.7 | 0.0 | 22.7 |
| Street Side | Lumens | 12645.5 | 0.0 | 12645.5 |
| | % Fixture | 77.3 | 0.0 | 77.3 |
| Total | Lumens | 16357.0 | 0.0 | 16357.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 249.8 | 1.5 |
| 10°-20° | 790.6 | 4.8 |
| 20°-30° | 1356.0 | 8.3 |
| 30°-40° | 2018.0 | 12.3 |
| 40°-50° | 2759.1 | 16.9 |
| 50°-60° | 3314.2 | 20.3 |
| 60°-70° | 3515.9 | 21.5 |
| 70°-80° | 2147.8 | 13.1 |
| 80°-90° | 205.7 | 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° | 16357.0 | 100.0 |
| 0°-180° | 16357.0 | 100.0 |

Coefficient of Utilization



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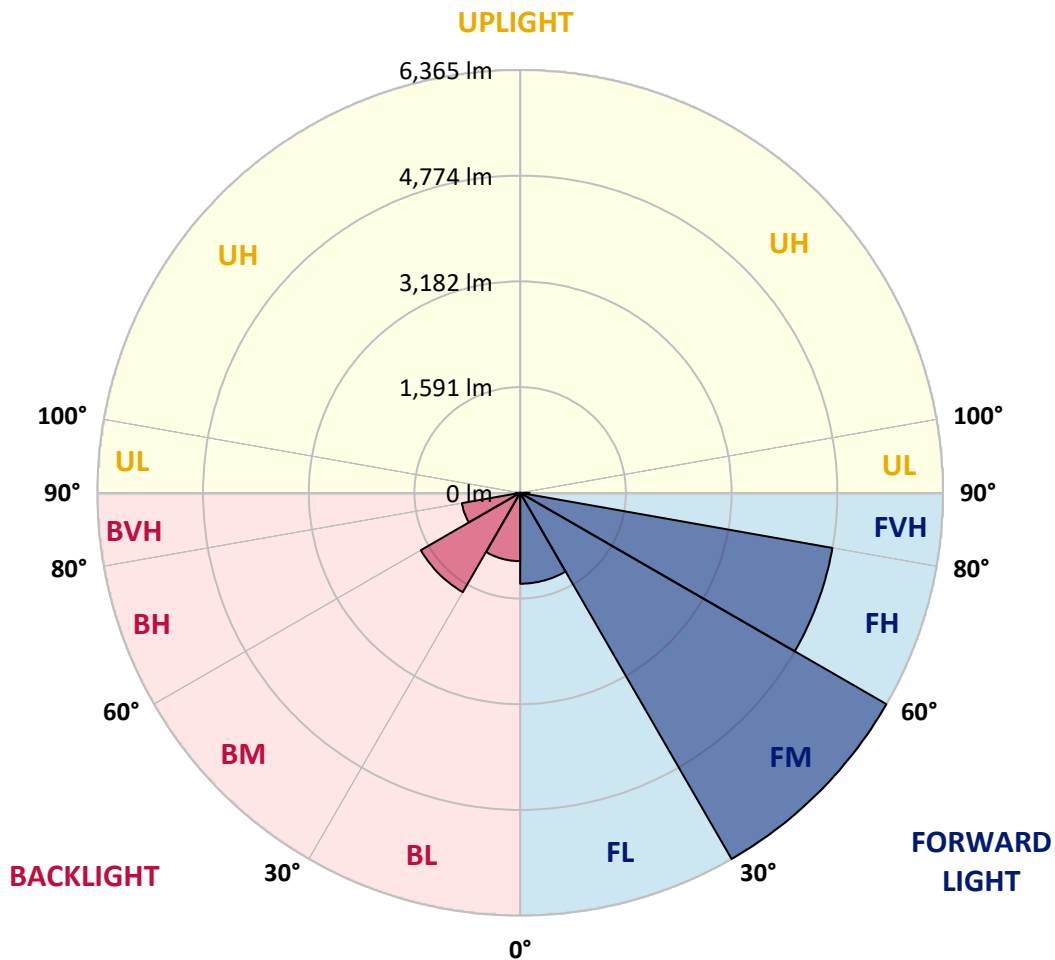
CATALOG NUMBER: VERD-G-CA2-110-760-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1368.1 | 8.4 | | | |
| FM (30°-60°) | 6364.9 | 38.9 | | | |
| FH (60°-80°) | 4772.5 | 29.2 | | | G2/5000 |
| FVH (80°-90°) | 140.1 | 0.9 | | | G2/225 |
| BL (0°-30°) | 1028.3 | 6.3 | B3/2500 | | |
| BM (30°-60°) | 1726.4 | 10.6 | B2/2500 | | |
| BH (60°-80°) | 891.1 | 5.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 65.6 | 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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2466.2 | 2466.2 | 2466.2 | 2466.2 | 2466.2 | 2466.2 | 2466.2 | 2466.2 | 2466.2 | 2466.2 | 2466.2 |
| 2.5° | 2505.2 | 2517.1 | 2497.6 | 2484.6 | 2470.5 | 2478.1 | 2459.7 | 2459.7 | 2451.0 | 2465.1 | 2456.4 |
| 5° | 2586.5 | 2597.3 | 2563.7 | 2536.6 | 2534.5 | 2511.7 | 2509.5 | 2498.7 | 2485.7 | 2497.6 | 2509.5 |
| 7.5° | 2694.8 | 2690.5 | 2666.6 | 2635.2 | 2603.8 | 2590.8 | 2569.1 | 2552.9 | 2533.4 | 2544.2 | 2547.5 |
| 10° | 2827.0 | 2819.4 | 2788.0 | 2738.2 | 2713.2 | 2677.5 | 2623.3 | 2593.0 | 2578.9 | 2589.7 | 2593.0 |
| 12.5° | 2967.9 | 2958.1 | 2927.8 | 2872.5 | 2829.2 | 2772.8 | 2711.1 | 2662.3 | 2652.6 | 2641.7 | 2660.1 |
| 15° | 3126.1 | 3108.7 | 3082.7 | 3038.3 | 2971.1 | 2897.4 | 2812.9 | 2766.3 | 2752.3 | 2733.8 | 2725.2 |
| 17.5° | 3297.3 | 3295.1 | 3261.5 | 3212.8 | 3144.5 | 3042.6 | 2934.3 | 2861.7 | 2861.7 | 2854.1 | 2807.5 |
| 20° | 3481.5 | 3472.8 | 3439.2 | 3412.1 | 3315.7 | 3208.4 | 3076.2 | 2984.1 | 2974.4 | 2959.2 | 2882.3 |
| 22.5° | 3666.8 | 3667.9 | 3624.5 | 3603.9 | 3532.4 | 3394.8 | 3227.9 | 3135.8 | 3116.3 | 3095.7 | 2962.5 |
| 25° | 3834.7 | 3836.9 | 3823.9 | 3786.0 | 3727.5 | 3600.7 | 3426.2 | 3303.8 | 3292.9 | 3264.8 | 3103.3 |
| 27.5° | 4004.8 | 4031.9 | 3994.0 | 3998.3 | 3972.3 | 3827.1 | 3652.7 | 3504.2 | 3515.1 | 3453.3 | 3232.3 |
| 30° | 4206.4 | 4216.1 | 4197.7 | 4203.1 | 4186.9 | 4091.5 | 3922.5 | 3802.2 | 3802.2 | 3731.8 | 3451.1 |
| 32.5° | 4367.8 | 4359.2 | 4360.3 | 4416.6 | 4424.2 | 4372.2 | 4233.5 | 4194.5 | 4228.1 | 4219.4 | 3966.9 |
| 35° | 4448.0 | 4463.2 | 4505.5 | 4634.4 | 4697.2 | 4665.8 | 4649.6 | 4701.6 | 4786.1 | 4840.3 | 4530.4 |
| 37.5° | 4551.0 | 4597.6 | 4650.7 | 4794.8 | 4910.7 | 4997.4 | 5086.2 | 5257.4 | 5378.8 | 5449.2 | 5065.7 |
| 40° | 4657.2 | 4661.5 | 4767.7 | 4946.5 | 5172.9 | 5310.5 | 5521.8 | 5816.6 | 5935.8 | 5882.7 | 5362.6 |
| 42.5° | 4574.8 | 4585.6 | 4733.0 | 5051.6 | 5335.5 | 5687.6 | 5916.3 | 6256.5 | 6338.8 | 6177.4 | 5669.2 |
| 45° | 4468.6 | 4489.2 | 4675.6 | 5051.6 | 5514.3 | 6033.3 | 6294.4 | 6673.7 | 6683.4 | 6465.6 | 5854.5 |
| 47.5° | 4374.3 | 4391.7 | 4587.8 | 5012.6 | 5682.2 | 6336.7 | 6598.9 | 6907.7 | 6973.8 | 6700.8 | 6100.5 |
| 50° | 4248.7 | 4292.0 | 4484.9 | 4977.9 | 5760.2 | 6548.0 | 6868.7 | 7189.4 | 7212.2 | 6922.9 | 6284.7 |
| 52.5° | 4112.1 | 4150.0 | 4387.3 | 4912.9 | 5859.9 | 6722.4 | 7047.5 | 7460.3 | 7418.1 | 7219.8 | 6491.6 |
| 55° | 3927.9 | 3961.5 | 4235.6 | 4808.9 | 5871.8 | 6816.7 | 7176.4 | 7711.7 | 7728.0 | 7466.8 | 6692.1 |
| 57.5° | 3716.6 | 3773.0 | 4022.2 | 4616.0 | 5762.4 | 6844.9 | 7398.6 | 8052.0 | 8114.8 | 7772.4 | 6852.5 |
| 60° | 3488.0 | 3532.4 | 3815.2 | 4411.2 | 5617.2 | 6951.1 | 7703.1 | 8493.0 | 8542.8 | 8039.0 | 6917.5 |
| 62.5° | 3253.9 | 3290.8 | 3524.8 | 4103.5 | 5350.6 | 6971.6 | 7968.5 | 8936.1 | 8919.9 | 8276.3 | 7007.4 |
| 65° | 2962.5 | 2965.7 | 3186.8 | 3731.8 | 4980.1 | 6824.3 | 8105.1 | 9116.0 | 9132.3 | 8491.9 | 6904.5 |
| 67.5° | 2591.9 | 2612.5 | 2780.4 | 3298.4 | 4475.1 | 6453.7 | 8018.4 | 9271.0 | 9334.9 | 8625.2 | 6773.4 |
| 70° | 2064.2 | 2076.1 | 2251.6 | 2733.8 | 3804.4 | 5880.5 | 7853.7 | 9294.8 | 9280.7 | 8452.9 | 6412.5 |
| 72.5° | 1468.2 | 1513.7 | 1631.8 | 1922.2 | 2919.1 | 4813.2 | 7109.3 | 8559.1 | 8494.1 | 7787.6 | 5720.1 |
| 75° | 943.8 | 948.1 | 1066.2 | 1255.8 | 1708.8 | 3412.1 | 5926.0 | 7378.0 | 7405.1 | 6754.9 | 4657.2 |
| 77.5° | 312.1 | 352.2 | 391.2 | 529.9 | 708.7 | 1420.6 | 4000.5 | 5815.5 | 5897.8 | 5321.4 | 3178.1 |
| 80° | 137.6 | 137.6 | 233.0 | 300.1 | 382.5 | 609.0 | 1596.1 | 2632.0 | 2884.4 | 2481.4 | 1224.4 |
| 82.5° | 100.8 | 102.9 | 156.0 | 178.8 | 150.6 | 253.6 | 573.2 | 843.0 | 893.9 | 802.9 | 486.5 |
| 85° | 57.4 | 59.6 | 67.2 | 76.9 | 63.9 | 102.9 | 126.8 | 130.0 | 131.1 | 113.8 | 88.9 |
| 87.5° | 26.0 | 26.0 | 23.8 | 20.6 | 11.9 | 7.6 | 7.6 | 5.4 | 6.5 | 5.4 | 4.3 |
| 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° | 2466.2 | 2466.2 | 2466.2 | 2466.2 | 2466.2 | 2466.2 | 2466.2 | 2466.2 | 2466.2 | 2466.2 | 2466.2 |
| 2.5° | 2453.2 | 2464.0 | 2487.9 | 2492.2 | 2503.0 | 2519.3 | 2539.9 | 2549.6 | 2582.1 | 2597.3 | 2601.6 |
| 5° | 2511.7 | 2517.1 | 2558.3 | 2572.4 | 2621.1 | 2646.1 | 2667.7 | 2682.9 | 2723.0 | 2732.7 | 2750.1 |
| 7.5° | 2556.1 | 2574.5 | 2624.4 | 2655.8 | 2686.2 | 2712.2 | 2710.0 | 2745.7 | 2766.3 | 2782.6 | 2789.1 |
| 10° | 2601.6 | 2611.4 | 2662.3 | 2676.4 | 2699.2 | 2718.7 | 2724.1 | 2733.8 | 2739.2 | 2762.0 | 2769.6 |
| 12.5° | 2672.1 | 2665.6 | 2672.1 | 2684.0 | 2702.4 | 2698.1 | 2710.0 | 2695.9 | 2703.5 | 2732.7 | 2721.9 |
| 15° | 2724.1 | 2708.9 | 2680.7 | 2681.8 | 2669.9 | 2664.5 | 2647.1 | 2635.2 | 2634.1 | 2640.6 | 2651.5 |
| 17.5° | 2782.6 | 2738.2 | 2686.2 | 2672.1 | 2627.6 | 2584.3 | 2554.0 | 2521.5 | 2516.0 | 2522.5 | 2515.0 |
| 20° | 2833.5 | 2773.9 | 2684.0 | 2639.6 | 2552.9 | 2474.9 | 2430.4 | 2381.7 | 2379.5 | 2375.2 | 2366.5 |
| 22.5° | 2895.3 | 2820.5 | 2682.9 | 2593.0 | 2490.0 | 2364.3 | 2272.2 | 2235.4 | 2191.0 | 2208.3 | 2206.1 |
| 25° | 2987.4 | 2894.2 | 2692.7 | 2543.1 | 2376.3 | 2226.7 | 2108.6 | 2027.3 | 1982.9 | 1973.2 | 1977.5 |
| 27.5° | 3101.2 | 2977.6 | 2698.1 | 2480.3 | 2272.2 | 2058.8 | 1871.3 | 1748.9 | 1721.8 | 1686.0 | 1689.3 |
| 30° | 3266.9 | 3091.4 | 2724.1 | 2410.9 | 2119.4 | 1844.2 | 1621.0 | 1461.7 | 1416.2 | 1423.8 | 1426.0 |
| 32.5° | 3658.1 | 3325.5 | 2742.5 | 2330.7 | 1951.5 | 1606.9 | 1315.4 | 1156.2 | 1120.4 | 1133.4 | 1141.0 |
| 35° | 4171.7 | 3774.1 | 2843.3 | 2227.8 | 1760.8 | 1329.5 | 1008.8 | 918.9 | 926.4 | 951.4 | 957.9 |
| 37.5° | 4681.0 | 4249.7 | 3065.4 | 2137.9 | 1517.0 | 1017.5 | 805.1 | 752.0 | 796.4 | 820.3 | 827.8 |
| 40° | 4994.1 | 4566.1 | 3310.3 | 1999.2 | 1207.1 | 747.7 | 613.3 | 583.0 | 633.9 | 689.1 | 716.2 |
| 42.5° | 5310.5 | 4825.1 | 3469.6 | 1830.1 | 863.6 | 543.9 | 456.2 | 481.1 | 564.5 | 619.8 | 632.8 |
| 45° | 5512.1 | 4958.4 | 3484.7 | 1561.4 | 575.4 | 421.5 | 416.1 | 469.2 | 554.8 | 599.2 | 606.8 |
| 47.5° | 5708.2 | 5137.2 | 3420.8 | 1250.4 | 433.4 | 400.9 | 412.8 | 474.6 | 559.1 | 609.0 | 607.9 |
| 50° | 5903.3 | 5312.7 | 3282.1 | 992.5 | 409.6 | 387.9 | 419.3 | 485.4 | 566.7 | 604.6 | 604.6 |
| 52.5° | 6022.4 | 5399.4 | 3003.6 | 789.9 | 394.4 | 380.3 | 422.6 | 489.8 | 559.1 | 580.8 | 577.5 |
| 55° | 6165.5 | 5420.0 | 2816.2 | 657.7 | 378.2 | 374.9 | 429.1 | 501.7 | 558.0 | 560.2 | 552.6 |
| 57.5° | 6240.2 | 5369.1 | 2663.4 | 559.1 | 364.1 | 377.1 | 436.7 | 504.9 | 589.5 | 615.5 | 619.8 |
| 60° | 6207.7 | 5307.3 | 2490.0 | 497.4 | 351.1 | 373.8 | 434.5 | 529.9 | 687.0 | 741.2 | 731.4 |
| 62.5° | 6176.3 | 5191.4 | 2198.5 | 446.4 | 337.0 | 376.0 | 432.3 | 587.3 | 807.3 | 750.9 | 720.6 |
| 65° | 6062.5 | 4950.8 | 1819.3 | 397.7 | 319.7 | 377.1 | 428.0 | 649.1 | 826.8 | 758.5 | 706.5 |
| 67.5° | 5750.5 | 4549.9 | 1439.0 | 345.7 | 299.1 | 361.9 | 418.3 | 610.0 | 662.1 | 596.0 | 567.8 |
| 70° | 5285.6 | 3969.1 | 987.1 | 299.1 | 274.1 | 343.5 | 411.8 | 577.5 | 622.0 | 575.4 | 539.6 |
| 72.5° | 4535.8 | 3118.5 | 547.2 | 250.3 | 240.6 | 320.7 | 410.7 | 570.0 | 626.3 | 493.0 | 454.0 |
| 75° | 3449.0 | 2068.5 | 355.4 | 196.1 | 197.2 | 286.1 | 391.2 | 543.9 | 606.8 | 463.8 | 410.7 |
| 77.5° | 2031.7 | 871.2 | 248.1 | 139.8 | 153.9 | 222.1 | 347.8 | 521.2 | 574.3 | 454.0 | 410.7 |
| 80° | 690.2 | 383.6 | 161.5 | 94.3 | 94.3 | 141.9 | 248.1 | 425.8 | 511.4 | 442.1 | 437.8 |
| 82.5° | 358.7 | 243.8 | 102.9 | 58.5 | 54.2 | 68.3 | 152.8 | 292.6 | 410.7 | 374.9 | 426.9 |
| 85° | 71.5 | 50.9 | 32.5 | 23.8 | 26.0 | 34.7 | 54.2 | 148.4 | 260.1 | 289.3 | 346.7 |
| 87.5° | 5.4 | 4.3 | 6.5 | 6.5 | 6.5 | 6.5 | 7.6 | 36.8 | 104.0 | 127.9 | 158.2 |
| 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)