

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: P233858

Luminaire Tested: **VERD-G-C029-D-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233858
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-C029-D-U-T3
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1040mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15598 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 121
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

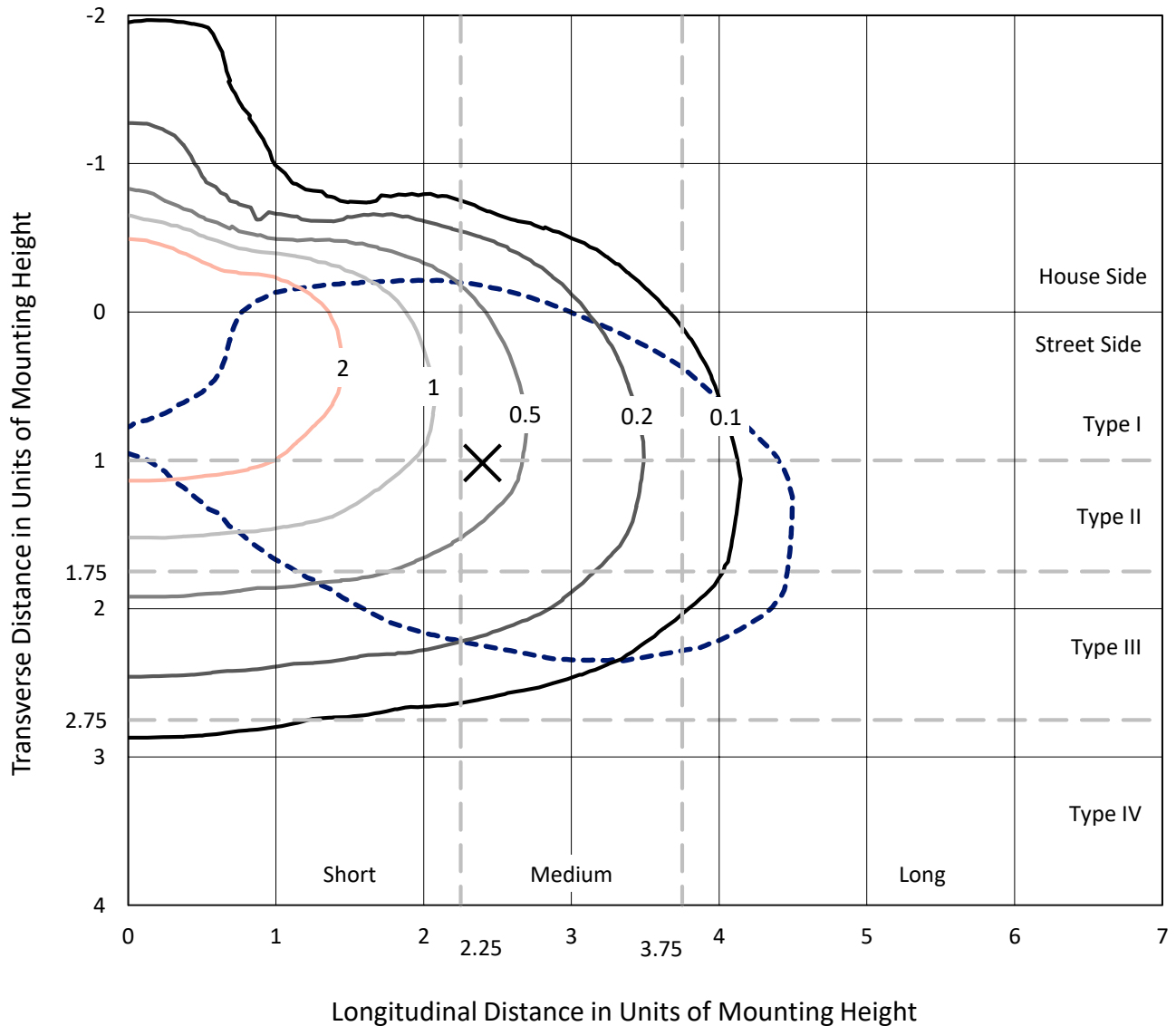


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

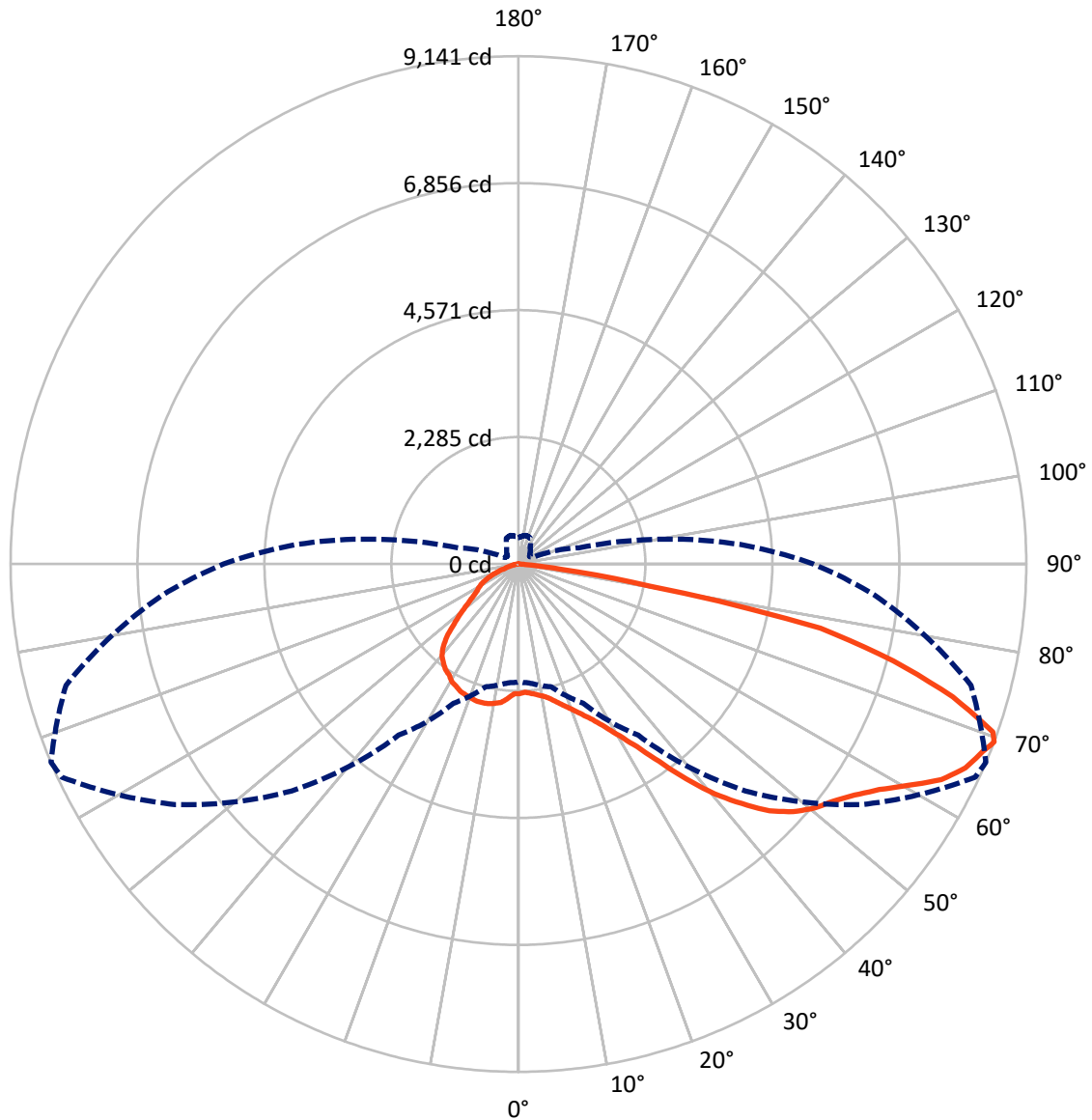


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



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



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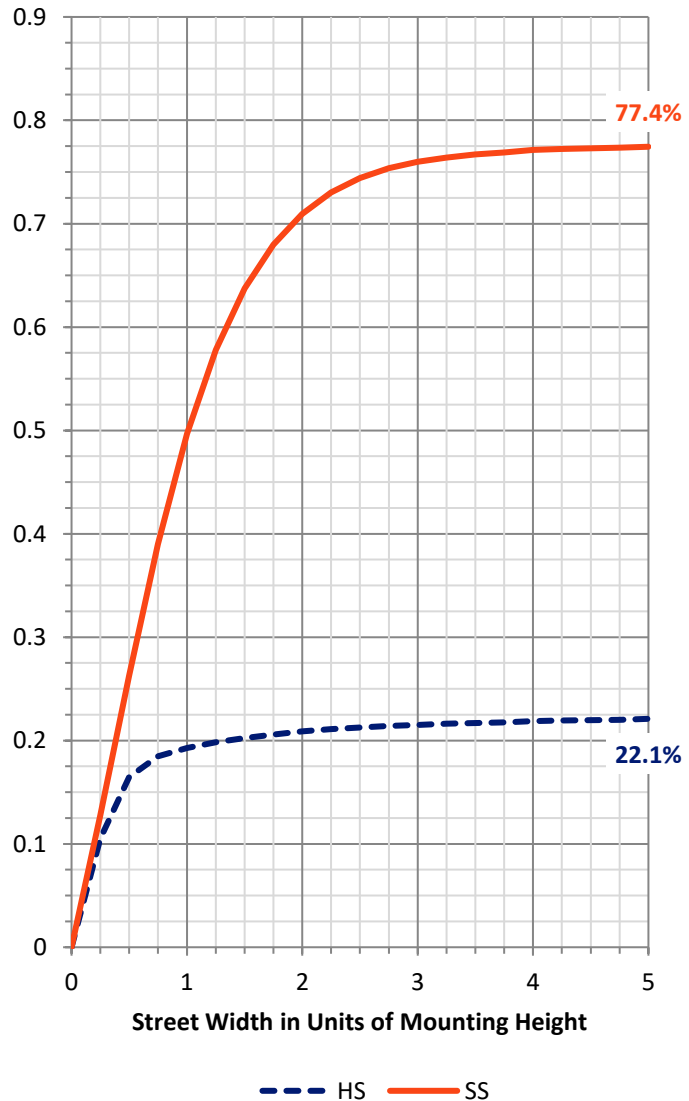
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3512.5 | 0.0 | 3512.5 |
| | % Fixture | 22.5 | 0.0 | 22.5 |
| Street Side | Lumens | 12085.5 | 0.0 | 12085.5 |
| | % Fixture | 77.5 | 0.0 | 77.5 |
| Total | Lumens | 15598.0 | 0.0 | 15598.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 236.3 | 1.5 |
| 10°-20° | 753.1 | 4.8 |
| 20°-30° | 1297.4 | 8.3 |
| 30°-40° | 1929.7 | 12.4 |
| 40°-50° | 2657.7 | 17.0 |
| 50°-60° | 3177.1 | 20.4 |
| 60°-70° | 3352.7 | 21.5 |
| 70°-80° | 2009.1 | 12.9 |
| 80°-90° | 184.8 | 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° | 15598.0 | 100.0 |
| 0°-180° | 15598.0 | 100.0 |

Coefficient of Utilization



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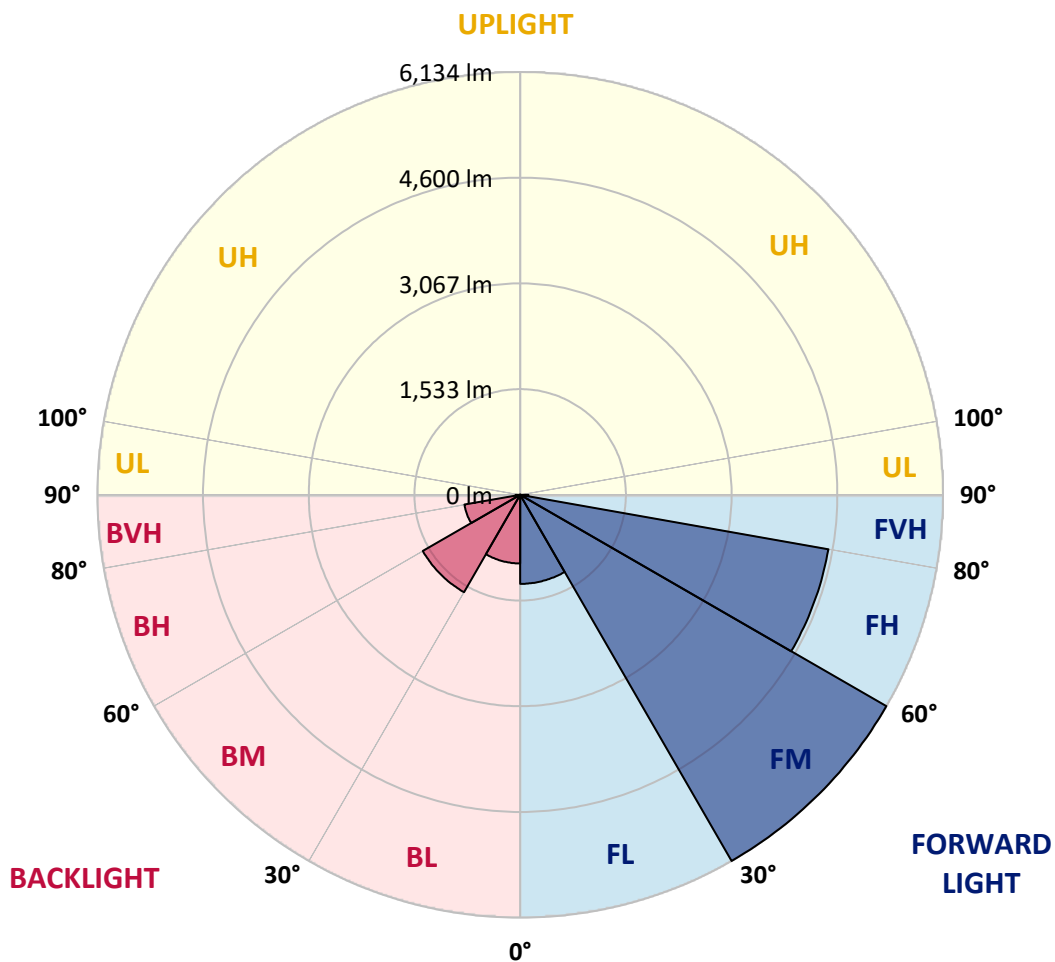
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1291.6 | 8.3 | | | |
| FM (30°-60°) | 6133.8 | 39.3 | | | |
| FH (60°-80°) | 4540.6 | 29.1 | | | G2/5000 |
| FVH (80°-90°) | 119.5 | 0.8 | | | G2/225 |
| BL (0°-30°) | 995.3 | 6.4 | B2/1000 | | |
| BM (30°-60°) | 1630.6 | 10.5 | B2/2500 | | |
| BH (60°-80°) | 821.3 | 5.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 65.3 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2333.1 | 2333.1 | 2333.1 | 2333.1 | 2333.1 | 2333.1 | 2333.1 | 2333.1 | 2333.1 | 2333.1 | 2333.1 |
| 2.5° | 2371.4 | 2370.0 | 2362.9 | 2337.4 | 2334.6 | 2331.7 | 2314.7 | 2316.1 | 2311.9 | 2316.1 | 2317.5 |
| 5° | 2436.7 | 2431.0 | 2423.9 | 2397.0 | 2387.0 | 2374.3 | 2348.7 | 2347.3 | 2337.4 | 2340.2 | 2343.1 |
| 7.5° | 2517.5 | 2511.8 | 2506.2 | 2475.0 | 2465.0 | 2442.4 | 2402.6 | 2382.8 | 2374.3 | 2377.1 | 2381.4 |
| 10° | 2626.7 | 2616.8 | 2608.3 | 2562.9 | 2547.3 | 2509.0 | 2460.8 | 2426.7 | 2415.4 | 2419.7 | 2431.0 |
| 12.5° | 2751.5 | 2738.8 | 2724.6 | 2677.8 | 2656.5 | 2596.9 | 2540.2 | 2496.2 | 2479.2 | 2489.2 | 2497.7 |
| 15° | 2880.6 | 2873.5 | 2867.8 | 2812.5 | 2782.7 | 2717.5 | 2646.6 | 2591.3 | 2575.7 | 2584.2 | 2588.4 |
| 17.5° | 3050.8 | 3046.6 | 3036.6 | 2979.9 | 2923.2 | 2848.0 | 2755.8 | 2697.6 | 2682.0 | 2686.3 | 2676.4 |
| 20° | 3236.6 | 3225.3 | 3219.6 | 3155.8 | 3096.2 | 2992.7 | 2886.3 | 2804.0 | 2799.8 | 2801.2 | 2770.0 |
| 22.5° | 3445.1 | 3432.3 | 3421.0 | 3362.8 | 3289.1 | 3168.5 | 3029.5 | 2937.3 | 2940.2 | 2943.0 | 2873.5 |
| 25° | 3657.9 | 3647.9 | 3638.0 | 3582.7 | 3508.9 | 3377.0 | 3209.7 | 3106.1 | 3104.7 | 3106.1 | 3009.7 |
| 27.5° | 3880.5 | 3869.2 | 3867.8 | 3822.4 | 3748.6 | 3613.9 | 3421.0 | 3316.0 | 3316.0 | 3310.4 | 3164.3 |
| 30° | 4079.1 | 4090.4 | 4090.4 | 4064.9 | 3995.4 | 3860.7 | 3679.1 | 3574.2 | 3588.4 | 3577.0 | 3391.2 |
| 32.5° | 4296.1 | 4293.3 | 4313.1 | 4293.3 | 4236.5 | 4111.7 | 3960.0 | 3893.3 | 3917.4 | 3954.3 | 3768.5 |
| 35° | 4422.3 | 4442.2 | 4491.8 | 4520.2 | 4493.2 | 4391.1 | 4280.5 | 4331.6 | 4364.2 | 4530.1 | 4307.4 |
| 37.5° | 4568.4 | 4585.4 | 4653.5 | 4723.0 | 4734.4 | 4679.0 | 4679.0 | 4846.4 | 4910.2 | 5127.2 | 4867.7 |
| 40° | 4669.1 | 4686.1 | 4759.9 | 4840.7 | 4951.4 | 4989.7 | 5088.9 | 5348.5 | 5439.3 | 5585.4 | 5284.7 |
| 42.5° | 4609.5 | 4618.1 | 4776.9 | 4974.1 | 5137.2 | 5321.5 | 5479.0 | 5808.0 | 5894.5 | 5996.7 | 5627.9 |
| 45° | 4504.6 | 4520.2 | 4696.1 | 5013.8 | 5294.6 | 5660.5 | 5859.1 | 6240.6 | 6339.9 | 6330.0 | 5891.7 |
| 47.5° | 4388.3 | 4412.4 | 4608.1 | 4962.7 | 5429.3 | 5954.1 | 6206.6 | 6603.7 | 6660.4 | 6589.5 | 6074.7 |
| 50° | 4259.2 | 4300.4 | 4508.8 | 4911.6 | 5527.2 | 6210.8 | 6464.7 | 6876.0 | 6905.8 | 6761.1 | 6234.9 |
| 52.5° | 4111.7 | 4138.7 | 4369.8 | 4813.8 | 5595.3 | 6381.0 | 6670.4 | 7078.8 | 7091.6 | 6973.9 | 6403.7 |
| 55° | 3907.5 | 3931.6 | 4188.3 | 4683.3 | 5605.2 | 6481.7 | 6802.3 | 7295.8 | 7338.4 | 7223.5 | 6556.9 |
| 57.5° | 3687.6 | 3717.4 | 3981.2 | 4494.7 | 5514.4 | 6522.9 | 6961.1 | 7575.3 | 7657.5 | 7493.0 | 6680.3 |
| 60° | 3432.3 | 3470.6 | 3737.3 | 4264.9 | 5335.7 | 6586.7 | 7257.6 | 7982.3 | 8084.4 | 7797.9 | 6798.0 |
| 62.5° | 3167.1 | 3188.4 | 3433.8 | 3947.2 | 5057.7 | 6619.3 | 7527.0 | 8447.5 | 8545.4 | 8085.9 | 6853.3 |
| 65° | 2794.1 | 2828.1 | 3046.6 | 3565.7 | 4666.3 | 6478.9 | 7653.3 | 8772.3 | 8843.2 | 8319.9 | 6799.4 |
| 67.5° | 2398.4 | 2398.4 | 2584.2 | 3109.0 | 4144.3 | 6107.3 | 7602.2 | 8928.3 | 9013.4 | 8484.4 | 6629.2 |
| 69° | 2124.6 | 2145.9 | 2287.8 | 2765.7 | 3761.4 | 5776.8 | 7546.9 | 9071.6 | 9141.1 | 8431.9 | 6433.5 |
| 70° | 1914.7 | 1933.2 | 2076.4 | 2516.1 | 3476.3 | 5515.9 | 7427.8 | 9007.8 | 9058.8 | 8270.2 | 6227.9 |
| 72.5° | 1408.4 | 1424.0 | 1523.3 | 1753.0 | 2614.0 | 4450.7 | 6697.3 | 8144.0 | 8175.2 | 7437.7 | 5494.6 |
| 75° | 960.2 | 968.7 | 1043.9 | 1184.3 | 1524.7 | 3111.8 | 5471.9 | 6878.9 | 6971.1 | 6450.5 | 4498.9 |
| 77.5° | 331.9 | 357.4 | 402.8 | 544.6 | 652.4 | 1222.6 | 3708.9 | 5420.8 | 5558.4 | 4995.3 | 3147.3 |
| 80° | 113.5 | 112.0 | 215.6 | 279.4 | 343.2 | 561.7 | 1173.0 | 2272.2 | 2401.2 | 2059.4 | 1133.2 |
| 82.5° | 85.1 | 87.9 | 143.3 | 154.6 | 105.0 | 207.1 | 456.7 | 695.0 | 761.6 | 665.2 | 469.5 |
| 85° | 53.9 | 52.5 | 63.8 | 66.7 | 48.2 | 87.9 | 110.6 | 112.0 | 116.3 | 100.7 | 102.1 |
| 87.5° | 29.8 | 29.8 | 28.4 | 24.1 | 12.8 | 11.3 | 9.9 | 9.9 | 8.5 | 8.5 | 8.5 |
| 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° | 2333.1 | 2333.1 | 2333.1 | 2333.1 | 2333.1 | 2333.1 | 2333.1 | 2333.1 | 2333.1 | 2333.1 | 2333.1 |
| 2.5° | 2310.4 | 2330.3 | 2334.6 | 2340.2 | 2354.4 | 2372.9 | 2398.4 | 2398.4 | 2408.3 | 2438.1 | 2448.0 |
| 5° | 2343.1 | 2367.2 | 2398.4 | 2431.0 | 2469.3 | 2510.4 | 2551.6 | 2565.7 | 2585.6 | 2625.3 | 2633.8 |
| 7.5° | 2392.7 | 2419.7 | 2473.6 | 2517.5 | 2550.1 | 2591.3 | 2625.3 | 2631.0 | 2656.5 | 2693.4 | 2700.5 |
| 10° | 2443.8 | 2467.9 | 2521.8 | 2544.5 | 2588.4 | 2633.8 | 2650.8 | 2659.4 | 2680.6 | 2709.0 | 2704.7 |
| 12.5° | 2513.3 | 2520.4 | 2558.7 | 2574.3 | 2595.5 | 2623.9 | 2632.4 | 2632.4 | 2645.2 | 2690.6 | 2692.0 |
| 15° | 2581.3 | 2581.3 | 2587.0 | 2578.5 | 2581.3 | 2595.5 | 2596.9 | 2578.5 | 2592.7 | 2615.4 | 2606.9 |
| 17.5° | 2653.7 | 2633.8 | 2608.3 | 2571.4 | 2538.8 | 2537.4 | 2507.6 | 2463.6 | 2450.9 | 2483.5 | 2482.1 |
| 20° | 2721.8 | 2687.7 | 2626.7 | 2543.1 | 2497.7 | 2436.7 | 2361.5 | 2336.0 | 2334.6 | 2340.2 | 2336.0 |
| 22.5° | 2811.1 | 2741.6 | 2631.0 | 2516.1 | 2391.3 | 2294.8 | 2232.4 | 2145.9 | 2143.1 | 2130.3 | 2110.5 |
| 25° | 2917.5 | 2818.2 | 2649.4 | 2486.3 | 2304.8 | 2180.0 | 2029.6 | 1937.4 | 1884.9 | 1896.3 | 1862.3 |
| 27.5° | 3055.1 | 2934.5 | 2656.5 | 2421.1 | 2185.6 | 1974.3 | 1792.8 | 1673.6 | 1628.2 | 1608.4 | 1585.7 |
| 30° | 3243.7 | 3057.9 | 2707.6 | 2365.8 | 2038.1 | 1758.7 | 1536.0 | 1363.0 | 1297.8 | 1314.8 | 1317.6 |
| 32.5° | 3545.8 | 3291.9 | 2734.5 | 2256.5 | 1867.9 | 1523.3 | 1233.9 | 1046.7 | 1008.4 | 1056.6 | 1069.4 |
| 35° | 4072.0 | 3655.0 | 2798.3 | 2191.3 | 1673.6 | 1248.1 | 917.7 | 841.1 | 849.6 | 890.7 | 893.5 |
| 37.5° | 4589.7 | 4114.6 | 2995.5 | 2049.5 | 1441.0 | 924.7 | 712.0 | 670.9 | 712.0 | 764.5 | 771.6 |
| 40° | 4952.8 | 4473.4 | 3169.9 | 1909.1 | 1114.8 | 669.4 | 543.2 | 493.6 | 553.1 | 636.8 | 652.4 |
| 42.5° | 5274.7 | 4758.5 | 3293.3 | 1714.8 | 763.1 | 478.0 | 390.0 | 402.8 | 490.7 | 551.7 | 565.9 |
| 45° | 5505.9 | 4954.2 | 3378.4 | 1462.3 | 486.5 | 361.7 | 348.9 | 390.0 | 473.7 | 521.9 | 526.2 |
| 47.5° | 5652.0 | 5069.1 | 3316.0 | 1151.7 | 365.9 | 341.8 | 343.2 | 395.7 | 479.4 | 533.3 | 531.9 |
| 50° | 5783.9 | 5130.1 | 3113.2 | 913.4 | 347.5 | 327.6 | 350.3 | 411.3 | 497.8 | 547.5 | 544.6 |
| 52.5° | 5924.3 | 5189.6 | 2866.4 | 716.3 | 333.3 | 320.5 | 358.8 | 421.2 | 497.8 | 529.0 | 524.8 |
| 55° | 6044.9 | 5242.1 | 2680.6 | 575.8 | 323.4 | 319.1 | 367.3 | 436.8 | 495.0 | 507.8 | 499.2 |
| 57.5° | 6107.3 | 5152.8 | 2479.2 | 483.6 | 313.4 | 319.1 | 373.0 | 434.0 | 512.0 | 553.1 | 544.6 |
| 60° | 6073.3 | 5069.1 | 2316.1 | 449.6 | 299.3 | 317.7 | 375.9 | 465.2 | 628.3 | 666.6 | 663.8 |
| 62.5° | 6010.8 | 4976.9 | 2087.8 | 404.2 | 283.7 | 320.5 | 374.4 | 493.6 | 723.3 | 710.6 | 675.1 |
| 65° | 5883.2 | 4792.5 | 1775.7 | 351.7 | 268.1 | 326.2 | 374.4 | 556.0 | 631.2 | 617.0 | 601.4 |
| 67.5° | 5610.9 | 4394.0 | 1421.2 | 302.1 | 251.0 | 309.2 | 368.8 | 529.0 | 543.2 | 506.3 | 487.9 |
| 69° | 5305.9 | 4013.9 | 1124.7 | 275.2 | 241.1 | 300.7 | 367.3 | 510.6 | 534.7 | 495.0 | 473.7 |
| 70° | 5067.7 | 3717.4 | 909.1 | 255.3 | 231.2 | 297.8 | 365.9 | 497.8 | 530.5 | 486.5 | 463.8 |
| 72.5° | 4220.9 | 3004.0 | 476.6 | 205.7 | 197.1 | 270.9 | 353.2 | 486.5 | 531.9 | 466.6 | 434.0 |
| 75° | 3316.0 | 2137.4 | 316.3 | 157.4 | 151.8 | 236.9 | 323.4 | 468.0 | 500.7 | 419.8 | 370.2 |
| 77.5° | 2045.2 | 936.1 | 218.4 | 109.2 | 110.6 | 184.4 | 278.0 | 418.4 | 504.9 | 424.1 | 360.3 |
| 80° | 594.3 | 361.7 | 139.0 | 73.8 | 68.1 | 109.2 | 218.4 | 360.3 | 479.4 | 435.4 | 392.9 |
| 82.5° | 343.2 | 235.4 | 93.6 | 46.8 | 41.1 | 49.6 | 137.6 | 279.4 | 422.7 | 398.5 | 407.1 |
| 85° | 78.0 | 65.2 | 34.0 | 22.7 | 22.7 | 28.4 | 46.8 | 161.7 | 292.2 | 341.8 | 385.8 |
| 87.5° | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 7.1 | 8.5 | 44.0 | 127.6 | 181.5 | 211.3 |
| 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)