

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: P323187

Luminaire Tested: **GAN-SA3A-740-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323187
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11785 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

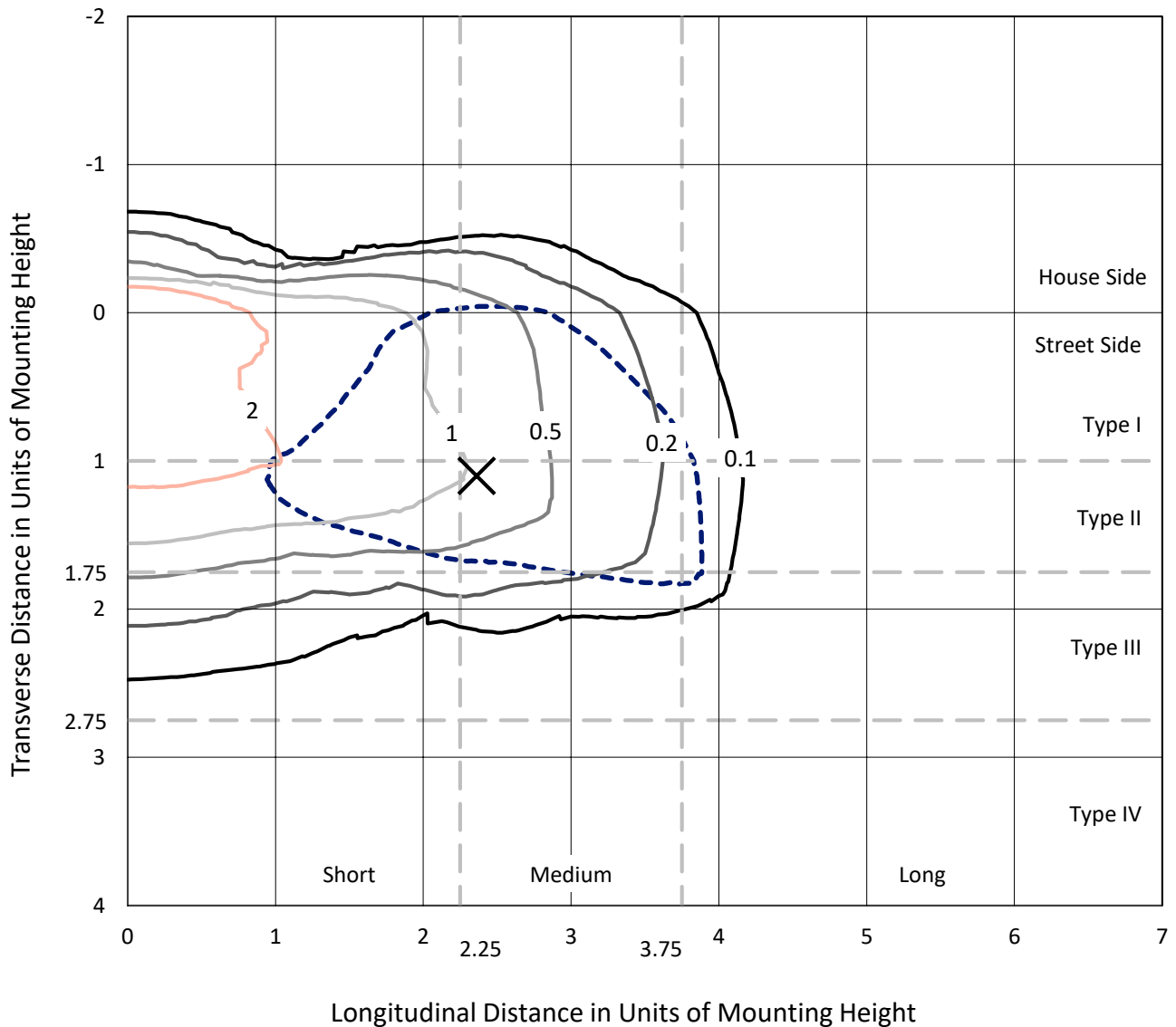
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

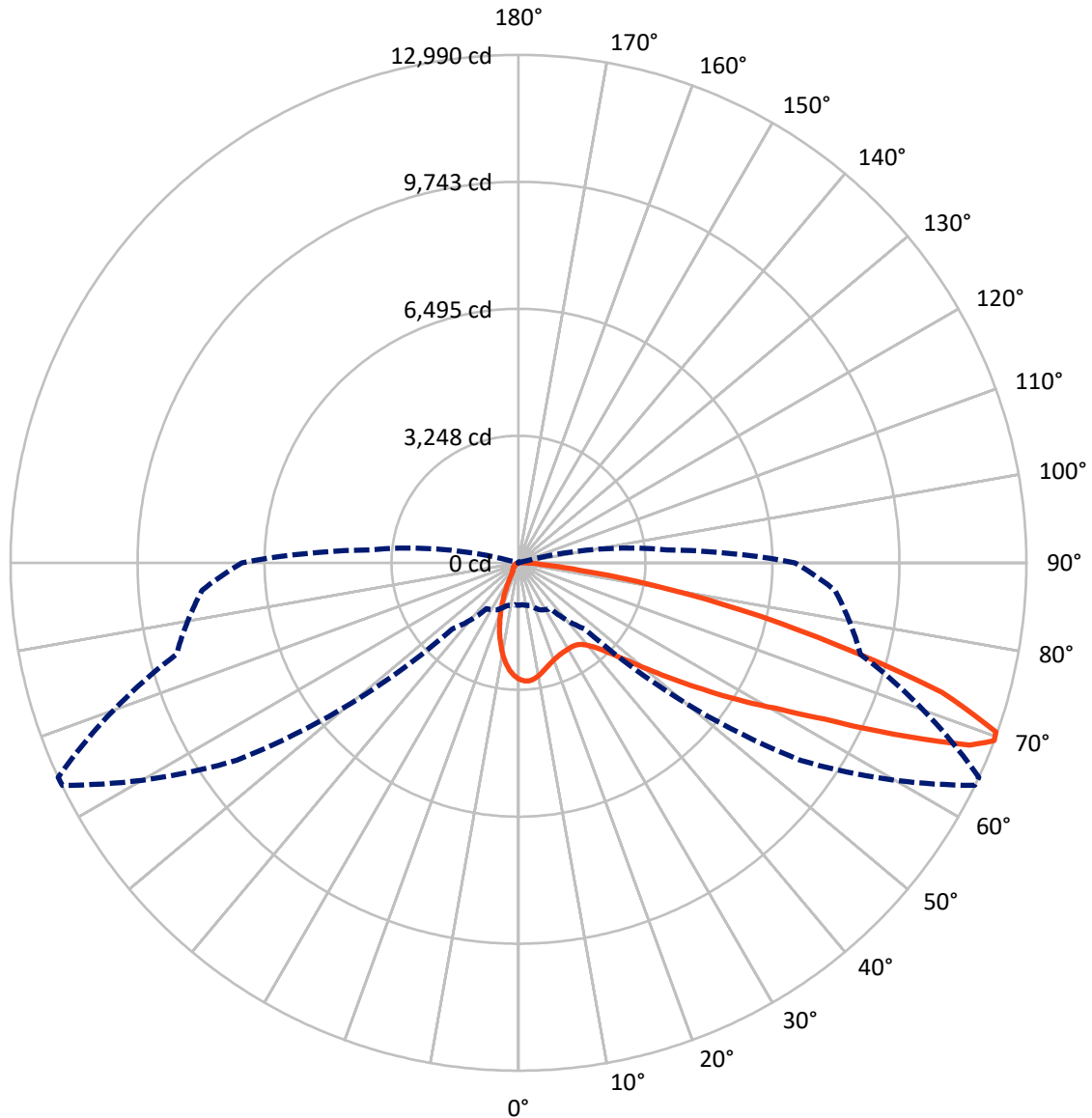
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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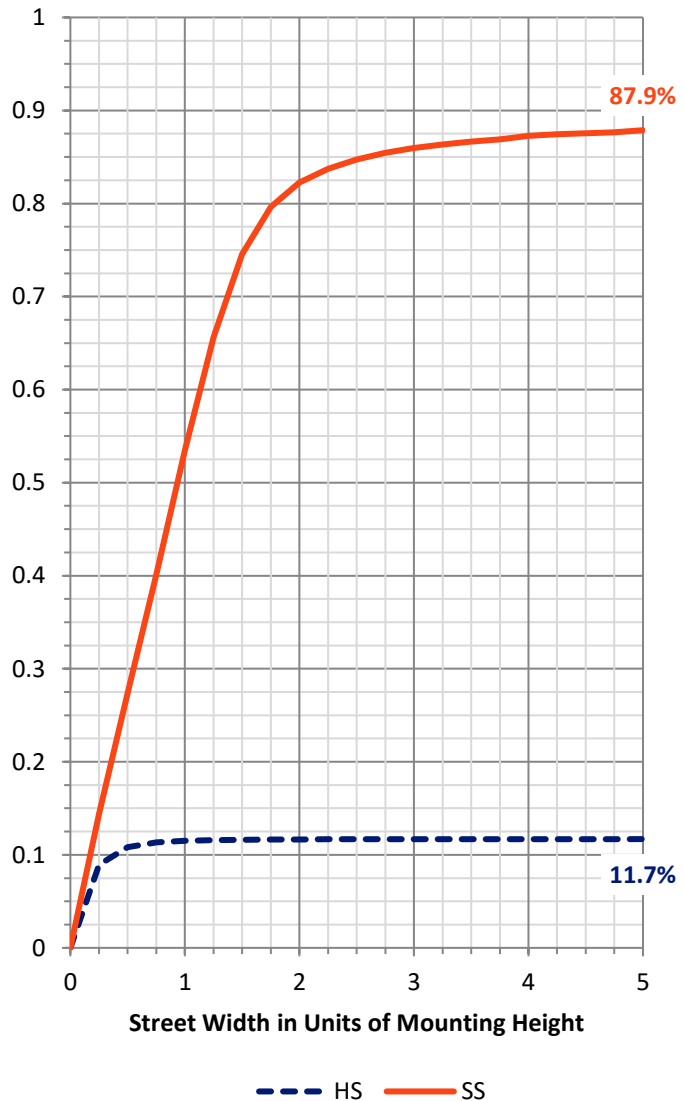
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1389.2 | 0.0 | 1389.2 |
| | % Fixture | 11.8 | 0.0 | 11.8 |
| Street Side | Lumens | 10395.8 | 0.0 | 10395.8 |
| | % Fixture | 88.2 | 0.0 | 88.2 |
| Total | Lumens | 11785.0 | 0.0 | 11785.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 249.0 | 2.1 |
| 10°-20° | 545.1 | 4.6 |
| 20°-30° | 755.0 | 6.4 |
| 30°-40° | 1052.8 | 8.9 |
| 40°-50° | 1636.3 | 13.9 |
| 50°-60° | 2627.0 | 22.3 |
| 60°-70° | 2971.5 | 25.2 |
| 70°-80° | 1745.2 | 14.8 |
| 80°-90° | 203.0 | 1.7 |
| 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° | 11785.0 | 100.0 |
| 0°-180° | 11785.0 | 100.0 |

Coefficient of Utilization

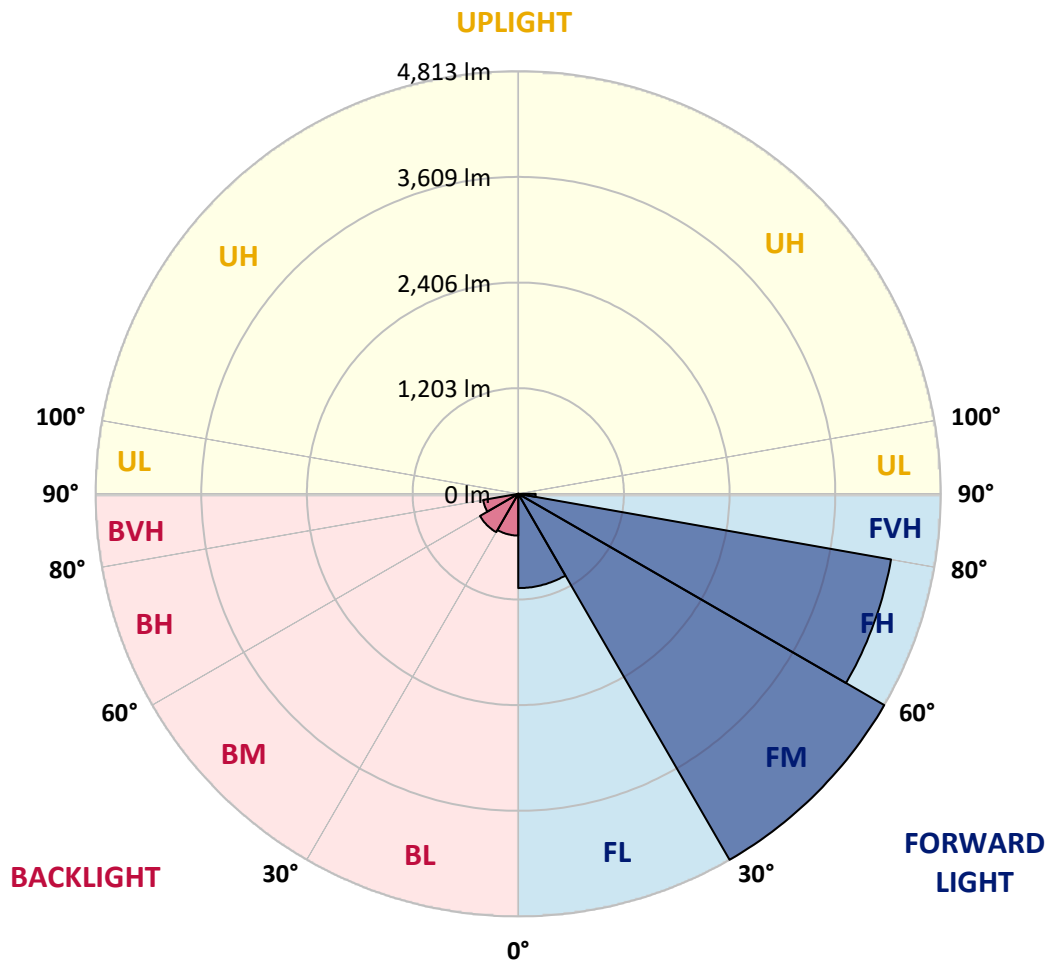


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1073.9 | 9.1 | | | |
| FM (30°-60°) | 4812.7 | 40.8 | | | |
| FH (60°-80°) | 4310.8 | 36.6 | | | G2/5000 |
| FVH (80°-90°) | 198.4 | 1.7 | | | G2/225 |
| BL (0°-30°) | 475.3 | 4.0 | B1/500 | | |
| BM (30°-60°) | 503.4 | 4.3 | B1/1000 | | |
| BH (60°-80°) | 405.9 | 3.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|
| 0° | 2978.1 | 2978.1 | 2978.1 | 2978.1 | 2978.1 | 2978.1 | 2978.1 | 2978.1 | 2978.1 | 2978.1 | 2978.1 |
| 2.5° | 3004.5 | 2997.0 | 3003.0 | 3016.0 | 3022.5 | 3022.5 | 3027.5 | 3021.5 | 3023.5 | 3009.0 | 2988.1 |
| 5° | 2816.5 | 2805.0 | 2821.5 | 2857.9 | 2902.8 | 2941.2 | 2998.0 | 3028.0 | 3030.9 | 3031.4 | 3007.0 |
| 7.5° | 2614.1 | 2603.6 | 2628.0 | 2670.9 | 2728.8 | 2800.1 | 2899.3 | 2986.1 | 2991.1 | 3037.9 | 3020.0 |
| 10° | 2449.5 | 2442.0 | 2470.4 | 2516.3 | 2584.1 | 2663.9 | 2785.6 | 2906.3 | 2920.7 | 3024.5 | 3018.0 |
| 12.5° | 2318.8 | 2312.9 | 2339.8 | 2392.6 | 2462.0 | 2550.2 | 2677.4 | 2817.5 | 2837.0 | 2994.0 | 3008.0 |
| 15° | 2223.6 | 2222.6 | 2245.0 | 2295.9 | 2372.7 | 2455.0 | 2585.1 | 2735.2 | 2757.7 | 2961.1 | 3006.5 |
| 17.5° | 2173.7 | 2175.2 | 2191.7 | 2235.1 | 2300.9 | 2382.7 | 2507.3 | 2665.9 | 2690.4 | 2931.7 | 3014.0 |
| 20° | 2168.7 | 2170.2 | 2179.2 | 2203.6 | 2257.0 | 2329.3 | 2444.0 | 2607.6 | 2633.0 | 2909.8 | 3026.0 |
| 22.5° | 2212.6 | 2211.6 | 2214.1 | 2211.6 | 2241.5 | 2296.4 | 2402.1 | 2562.7 | 2592.1 | 2895.3 | 3035.4 |
| 25° | 2296.9 | 2295.4 | 2294.4 | 2276.0 | 2256.0 | 2285.4 | 2384.7 | 2537.3 | 2565.2 | 2884.8 | 3040.9 |
| 27.5° | 2414.1 | 2413.1 | 2411.6 | 2381.2 | 2321.3 | 2302.9 | 2386.7 | 2527.8 | 2551.2 | 2876.4 | 3039.9 |
| 30° | 2568.2 | 2575.2 | 2573.2 | 2530.8 | 2437.5 | 2356.2 | 2407.6 | 2522.8 | 2543.2 | 2859.9 | 3029.5 |
| 32.5° | 2749.2 | 2763.2 | 2774.1 | 2728.8 | 2612.1 | 2462.0 | 2456.0 | 2528.3 | 2543.2 | 2847.4 | 3010.5 |
| 35° | 2937.2 | 2955.2 | 2995.5 | 2979.6 | 2826.0 | 2621.0 | 2539.3 | 2561.2 | 2573.7 | 2854.4 | 3001.5 |
| 37.5° | 3122.2 | 3143.7 | 3231.4 | 3277.8 | 3106.2 | 2831.5 | 2668.9 | 2642.5 | 2649.0 | 2896.8 | 3011.5 |
| 40° | 3337.1 | 3369.6 | 3502.7 | 3577.5 | 3440.9 | 3113.2 | 2862.9 | 2782.1 | 2784.6 | 2990.1 | 3057.9 |
| 42.5° | 3619.4 | 3652.8 | 3796.9 | 3914.1 | 3817.9 | 3469.3 | 3126.2 | 2995.5 | 2993.1 | 3164.6 | 3167.1 |
| 45° | 3963.5 | 3998.4 | 4147.5 | 4277.6 | 4234.3 | 3891.2 | 3463.3 | 3307.2 | 3304.2 | 3439.9 | 3374.0 |
| 47.5° | 4353.4 | 4387.8 | 4521.0 | 4655.1 | 4702.0 | 4383.9 | 3892.7 | 3732.6 | 3725.6 | 3822.3 | 3693.7 |
| 50° | 4688.0 | 4710.5 | 4833.2 | 5013.7 | 5225.1 | 4989.2 | 4426.7 | 4272.7 | 4265.2 | 4330.5 | 4162.9 |
| 52.5° | 4809.7 | 4822.7 | 4947.4 | 5200.2 | 5727.8 | 5809.1 | 5128.4 | 4929.9 | 4924.4 | 4952.8 | 4787.8 |
| 55° | 4563.4 | 4586.8 | 4739.9 | 5114.9 | 6000.1 | 6735.6 | 6014.0 | 5743.7 | 5702.4 | 5641.0 | 5441.0 |
| 57.5° | 3892.2 | 3929.6 | 4094.1 | 4592.8 | 5872.9 | 7470.7 | 7315.6 | 6664.3 | 6603.5 | 6228.5 | 5972.1 |
| 60° | 2916.3 | 2962.1 | 3098.8 | 3636.8 | 5194.2 | 7732.5 | 8737.8 | 7690.1 | 7552.9 | 6696.2 | 6460.3 |
| 62.5° | 2001.2 | 2024.1 | 2116.9 | 2467.4 | 3825.3 | 7303.6 | 9927.6 | 9063.9 | 8813.6 | 7204.9 | 6988.4 |
| 65° | 1528.4 | 1536.4 | 1574.3 | 1695.0 | 2277.9 | 5932.7 | 10400.9 | 10876.6 | 10573.9 | 7813.2 | 7536.5 |
| 67.5° | 1231.7 | 1225.2 | 1277.6 | 1450.1 | 1525.4 | 3619.4 | 9848.8 | 12591.6 | 12449.9 | 8626.6 | 8088.0 |
| 69° | 1086.1 | 1077.1 | 1130.5 | 1331.0 | 1432.7 | 2392.6 | 8804.6 | 12981.0 | 12990.0 | 9055.9 | 8125.9 |
| 70° | 977.4 | 983.4 | 1036.2 | 1260.2 | 1401.3 | 1878.0 | 7807.3 | 12881.8 | 12952.6 | 9216.5 | 7898.5 |
| 72.5° | 652.8 | 668.7 | 774.9 | 1046.2 | 1347.4 | 1421.2 | 4714.0 | 11054.1 | 11326.4 | 8855.0 | 6776.5 |
| 75° | 368.0 | 380.0 | 506.2 | 788.9 | 1269.6 | 1353.4 | 2489.9 | 8143.9 | 8407.2 | 7404.8 | 5225.6 |
| 77.5° | 180.5 | 187.0 | 286.2 | 509.1 | 1061.7 | 1289.6 | 1412.2 | 5531.8 | 5832.5 | 4833.2 | 2955.6 |
| 80° | 76.3 | 79.8 | 143.1 | 314.2 | 759.0 | 1230.7 | 1048.7 | 3404.5 | 3441.9 | 1893.5 | 787.4 |
| 82.5° | 29.4 | 30.4 | 60.3 | 196.0 | 482.2 | 959.5 | 877.2 | 1614.2 | 1575.3 | 356.6 | 179.5 |
| 85° | 3.5 | 4.0 | 21.9 | 117.7 | 268.3 | 493.7 | 712.6 | 695.7 | 643.8 | 70.8 | 92.3 |
| 87.5° | 0.0 | 0.0 | 1.5 | 35.9 | 79.8 | 231.4 | 370.5 | 288.7 | 260.3 | 22.9 | 47.9 |
| 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° | 2978.1 | 2978.1 | 2978.1 | 2978.1 | 2978.1 | 2978.1 | 2978.1 | 2978.1 | 2978.1 | 2978.1 | 2978.1 |
| 2.5° | 2970.6 | 2965.6 | 2938.7 | 2899.8 | 2862.9 | 2817.0 | 2773.1 | 2746.7 | 2725.8 | 2711.8 | 2728.3 |
| 5° | 2978.6 | 2956.6 | 2874.9 | 2770.1 | 2667.4 | 2551.7 | 2444.0 | 2352.8 | 2316.8 | 2277.0 | 2294.9 |
| 7.5° | 2976.1 | 2934.7 | 2787.6 | 2601.1 | 2412.6 | 2217.6 | 2033.1 | 1891.0 | 1817.2 | 1744.9 | 1763.3 |
| 10° | 2963.6 | 2893.8 | 2670.9 | 2394.6 | 2112.4 | 1832.1 | 1570.3 | 1371.4 | 1260.2 | 1159.4 | 1173.9 |
| 12.5° | 2936.2 | 2839.0 | 2533.3 | 2158.3 | 1780.8 | 1411.3 | 1104.6 | 849.7 | 713.1 | 652.8 | 660.2 |
| 15° | 2919.7 | 2785.6 | 2387.7 | 1918.9 | 1426.7 | 982.9 | 675.2 | 502.2 | 439.8 | 419.9 | 422.4 |
| 17.5° | 2911.8 | 2734.2 | 2237.1 | 1645.1 | 1064.7 | 625.8 | 436.3 | 385.0 | 371.5 | 368.0 | 369.0 |
| 20° | 2903.8 | 2682.4 | 2082.0 | 1374.3 | 733.6 | 420.9 | 358.5 | 343.6 | 338.6 | 334.1 | 335.1 |
| 22.5° | 2890.3 | 2632.5 | 1915.4 | 1100.1 | 494.7 | 341.6 | 323.1 | 308.7 | 298.2 | 292.7 | 293.7 |
| 25° | 2873.9 | 2580.1 | 1745.4 | 819.3 | 361.0 | 304.7 | 287.2 | 266.8 | 254.3 | 244.4 | 244.8 |
| 27.5° | 2847.4 | 2515.8 | 1569.8 | 596.4 | 303.2 | 272.8 | 249.3 | 226.9 | 206.0 | 194.5 | 194.5 |
| 30° | 2810.5 | 2443.0 | 1374.8 | 426.9 | 271.8 | 241.4 | 212.9 | 185.0 | 162.6 | 152.1 | 151.1 |
| 32.5° | 2769.6 | 2367.2 | 1177.9 | 323.6 | 246.8 | 211.9 | 179.5 | 150.1 | 130.2 | 121.7 | 121.2 |
| 35° | 2734.7 | 2285.4 | 981.4 | 271.3 | 221.9 | 183.5 | 148.1 | 123.2 | 107.2 | 100.2 | 99.7 |
| 37.5° | 2712.3 | 2203.6 | 789.9 | 242.4 | 199.5 | 157.1 | 124.2 | 101.7 | 90.3 | 84.8 | 84.3 |
| 40° | 2708.8 | 2142.8 | 614.9 | 220.4 | 178.5 | 133.6 | 103.7 | 86.3 | 75.8 | 69.8 | 69.3 |
| 42.5° | 2754.2 | 2107.9 | 471.7 | 202.0 | 157.1 | 113.2 | 88.3 | 73.8 | 62.8 | 56.8 | 56.4 |
| 45° | 2873.4 | 2118.9 | 363.0 | 185.5 | 135.6 | 95.7 | 74.8 | 61.3 | 51.4 | 46.9 | 45.9 |
| 47.5° | 3090.8 | 2194.7 | 288.7 | 169.1 | 115.2 | 81.3 | 63.8 | 50.9 | 42.4 | 37.9 | 37.4 |
| 50° | 3477.8 | 2372.7 | 241.4 | 151.1 | 96.2 | 69.3 | 52.9 | 41.4 | 34.4 | 30.4 | 29.9 |
| 52.5° | 3991.4 | 2689.9 | 215.4 | 133.6 | 79.8 | 58.8 | 43.4 | 32.9 | 26.9 | 23.9 | 23.4 |
| 55° | 4557.9 | 3073.8 | 198.5 | 114.7 | 65.3 | 48.9 | 34.4 | 25.9 | 20.9 | 18.5 | 17.5 |
| 57.5° | 5110.9 | 3406.5 | 182.5 | 96.2 | 54.4 | 39.9 | 27.4 | 20.4 | 16.5 | 14.0 | 13.5 |
| 60° | 5619.1 | 3712.1 | 164.1 | 77.3 | 44.4 | 31.4 | 21.4 | 16.0 | 13.0 | 10.5 | 10.5 |
| 62.5° | 6163.1 | 3948.5 | 138.6 | 60.3 | 36.4 | 23.9 | 17.5 | 14.5 | 10.5 | 9.0 | 8.5 |
| 65° | 6739.6 | 4124.0 | 108.7 | 46.9 | 28.4 | 18.0 | 14.5 | 15.0 | 8.5 | 6.5 | 6.0 |
| 67.5° | 7165.5 | 4089.1 | 80.3 | 36.9 | 21.9 | 14.0 | 14.0 | 16.0 | 7.5 | 5.0 | 4.5 |
| 69° | 7071.7 | 3805.4 | 67.3 | 31.9 | 18.9 | 12.0 | 13.0 | 16.0 | 7.0 | 4.5 | 4.0 |
| 70° | 6799.9 | 3491.2 | 59.3 | 28.4 | 17.0 | 11.0 | 12.5 | 15.5 | 6.5 | 4.5 | 4.0 |
| 72.5° | 5663.0 | 2629.5 | 46.4 | 21.4 | 13.5 | 9.0 | 10.5 | 13.5 | 6.5 | 4.5 | 3.5 |
| 75° | 4259.7 | 1683.0 | 35.4 | 15.5 | 10.0 | 7.0 | 8.0 | 10.0 | 6.5 | 4.0 | 3.5 |
| 77.5° | 2317.8 | 606.9 | 25.4 | 10.5 | 7.0 | 5.5 | 5.5 | 7.5 | 6.0 | 3.0 | 2.0 |
| 80° | 595.9 | 152.6 | 16.0 | 7.0 | 5.5 | 4.0 | 3.5 | 5.0 | 3.5 | 0.5 | 0.0 |
| 82.5° | 147.1 | 34.4 | 8.5 | 5.0 | 4.0 | 1.5 | 1.5 | 2.5 | 1.5 | 0.0 | 0.0 |
| 85° | 80.8 | 17.0 | 5.5 | 3.5 | 2.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 |
| 87.5° | 41.4 | 5.0 | 1.5 | 1.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)