

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: P652721

Luminaire Tested: **GLAN-SA2C-840-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652721
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2C-840-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11784.9 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

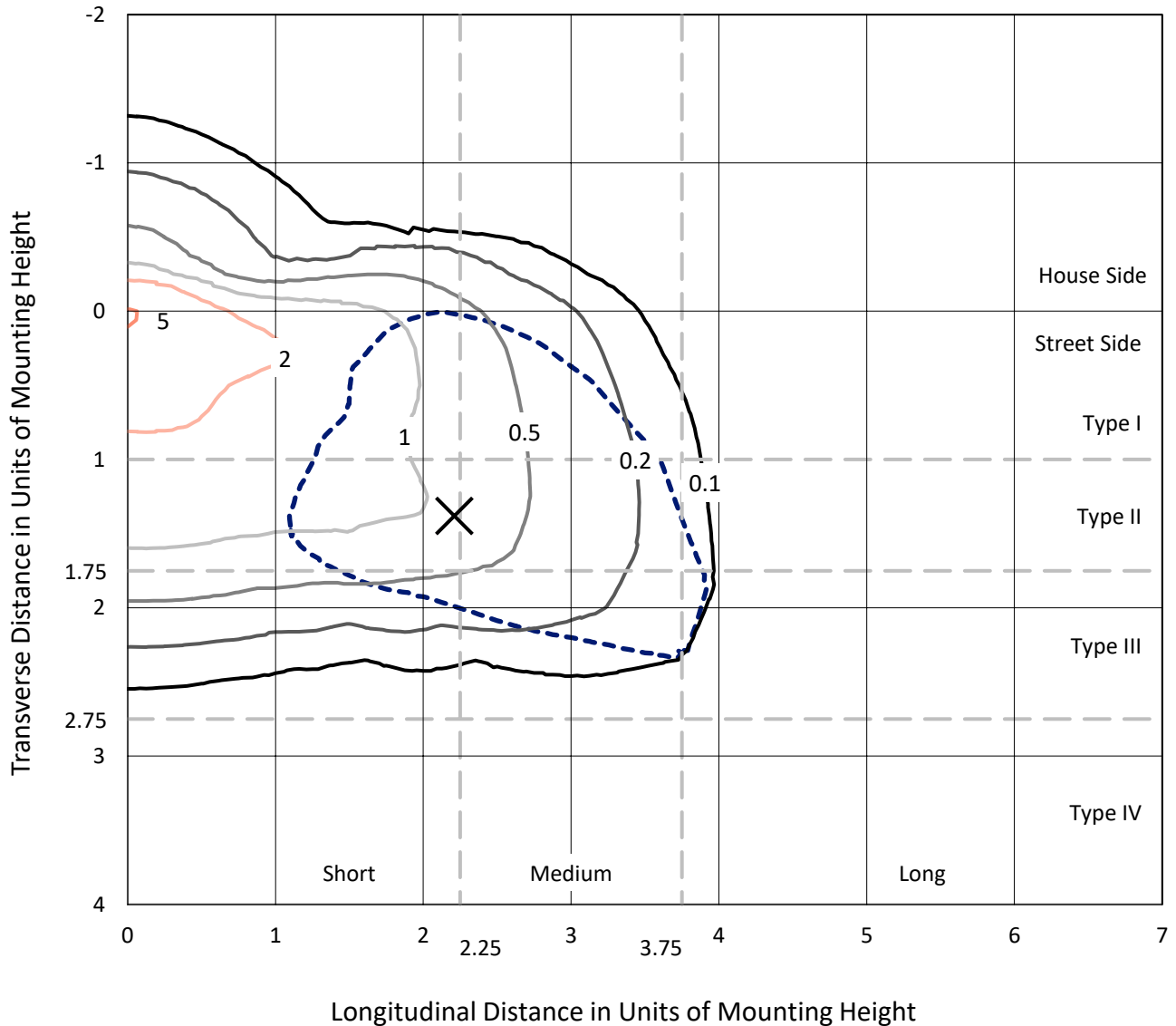
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

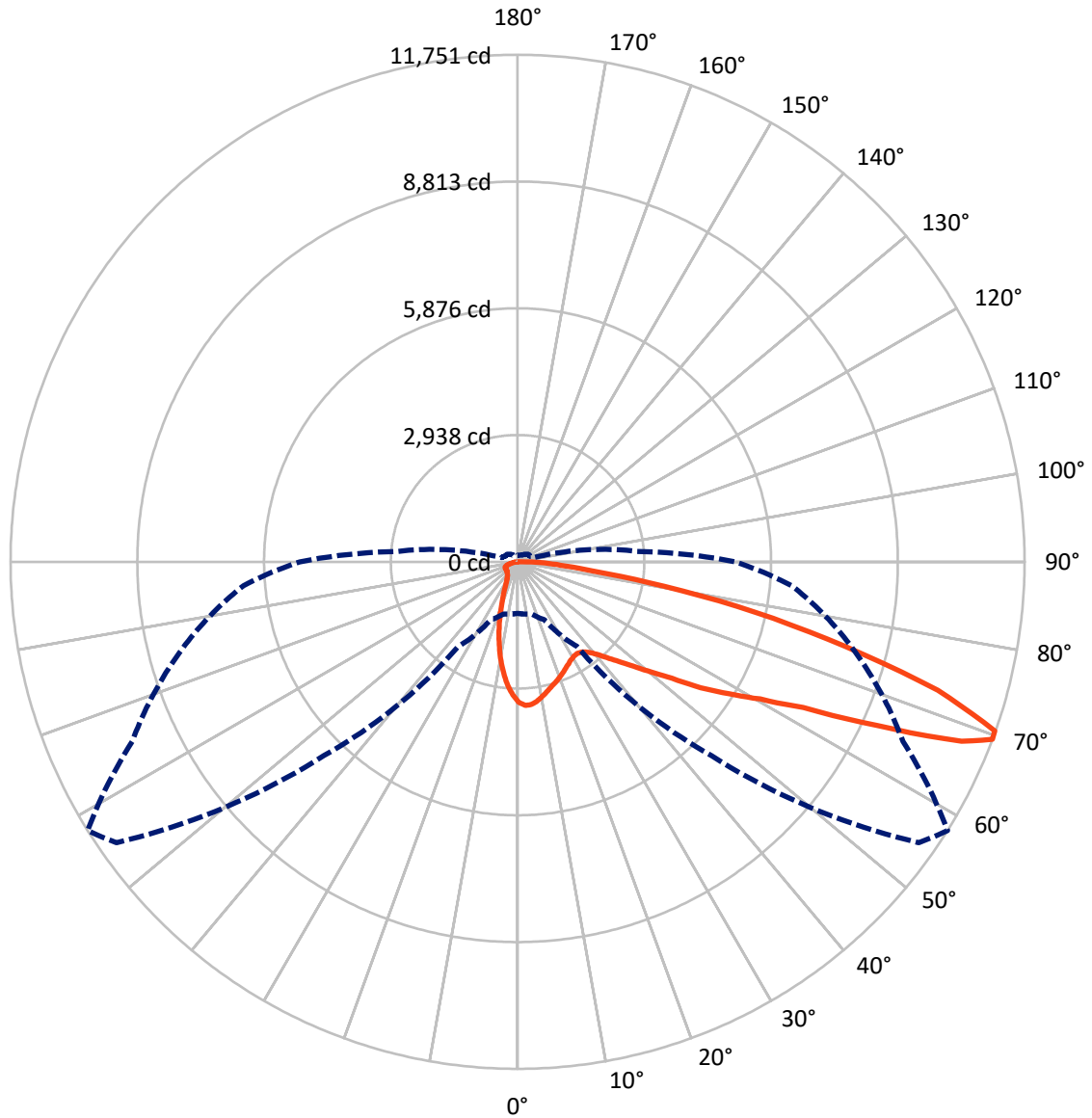
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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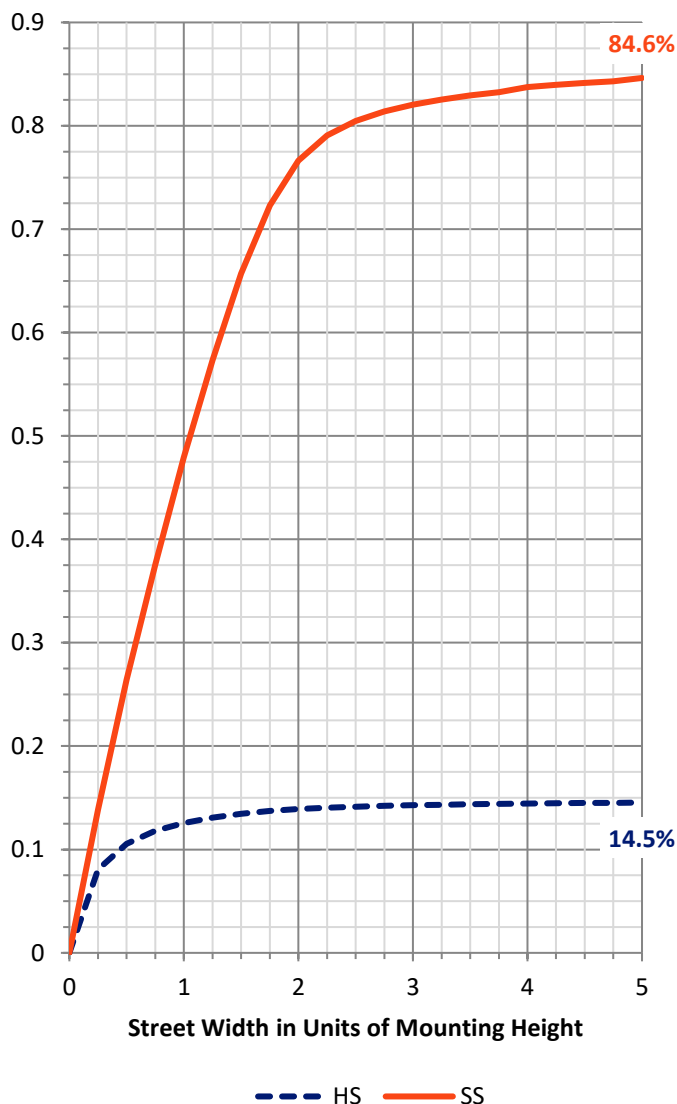
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1727.1 | 0.0 | 1727.1 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 10057.9 | 0.0 | 10057.9 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 11784.9 | 0.0 | 11784.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 276.6 | 2.3 |
| 10°-20° | 607.3 | 5.2 |
| 20°-30° | 784.6 | 6.7 |
| 30°-40° | 1019.1 | 8.6 |
| 40°-50° | 1481.6 | 12.6 |
| 50°-60° | 2364.2 | 20.1 |
| 60°-70° | 3158.3 | 26.8 |
| 70°-80° | 1820.6 | 15.4 |
| 80°-90° | 272.7 | 2.3 |
| 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° | 11784.9 | 100.0 |
| 0°-180° | 11784.9 | 100.0 |

Coefficient of Utilization



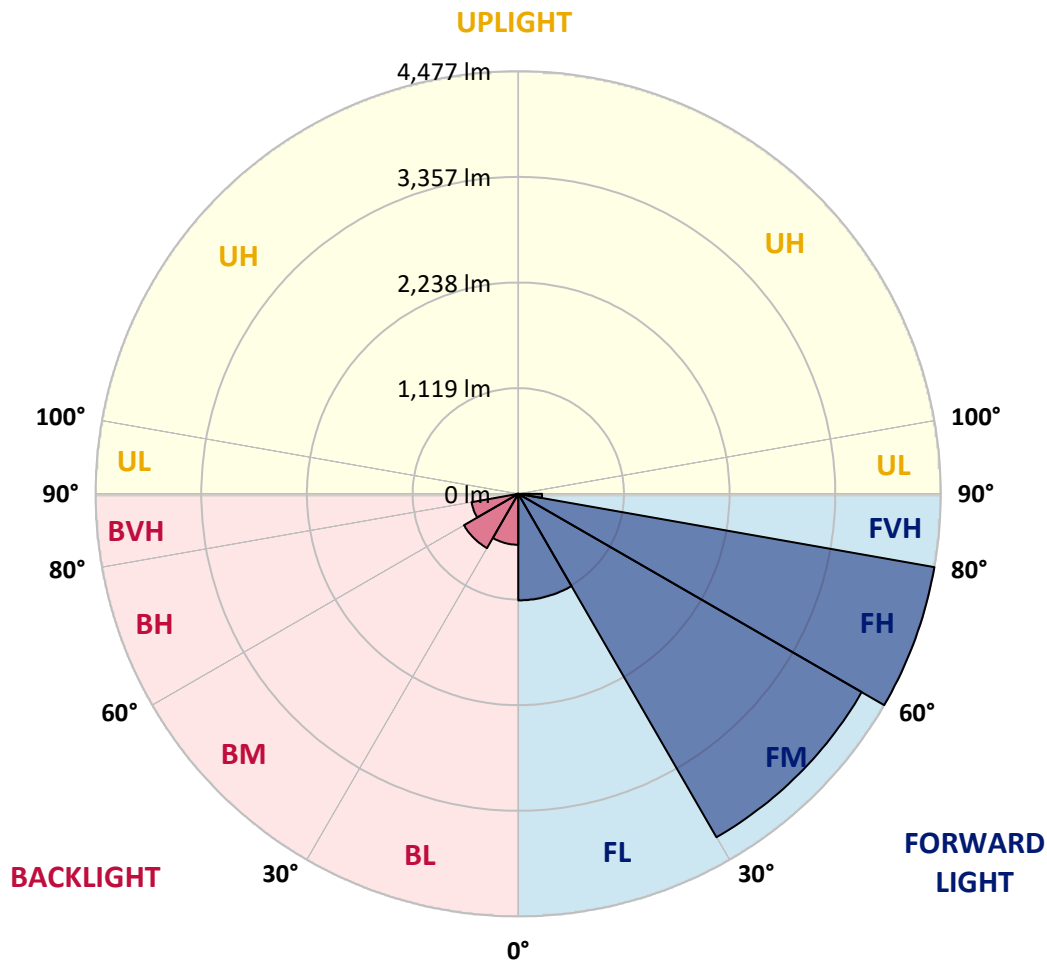
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1128.7 | 9.6 | | | |
| FM (30°-60°) | 4200.7 | 35.6 | | | |
| FH (60°-80°) | 4476.6 | 38.0 | | | G2/5000 |
| FVH (80°-90°) | 251.8 | 2.1 | | | G3/500 |
| BL (0°-30°) | 539.8 | 4.6 | B2/1000 | | |
| BM (30°-60°) | 664.2 | 5.6 | B1/1000 | | |
| BH (60°-80°) | 502.2 | 4.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 20.9 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|
| 0° | 3256.7 | 3256.7 | 3256.7 | 3256.7 | 3256.7 | 3256.7 | 3256.7 | 3256.7 | 3256.7 | 3256.7 | 3256.7 |
| 2.5° | 3377.6 | 3386.8 | 3384.2 | 3380.9 | 3375.6 | 3361.1 | 3337.5 | 3333.6 | 3318.4 | 3286.2 | 3246.2 |
| 5° | 3325.7 | 3333.6 | 3334.2 | 3338.9 | 3345.4 | 3342.8 | 3325.7 | 3323.7 | 3301.3 | 3257.9 | 3190.9 |
| 7.5° | 3147.5 | 3158.0 | 3181.1 | 3206.7 | 3229.7 | 3251.4 | 3256.7 | 3260.0 | 3246.2 | 3196.2 | 3106.8 |
| 10° | 2947.1 | 2957.6 | 2968.1 | 3006.2 | 3062.8 | 3116.7 | 3161.4 | 3167.3 | 3170.6 | 3124.6 | 3015.5 |
| 12.5° | 2724.9 | 2746.6 | 2769.0 | 2825.5 | 2901.1 | 2985.9 | 3064.8 | 3077.2 | 3099.6 | 3064.8 | 2936.6 |
| 15° | 2536.3 | 2558.7 | 2590.9 | 2641.5 | 2732.8 | 2855.1 | 2966.1 | 2986.6 | 3030.5 | 3012.8 | 2862.9 |
| 17.5° | 2405.5 | 2413.4 | 2435.8 | 2493.6 | 2592.2 | 2721.0 | 2869.6 | 2910.3 | 2980.6 | 2976.0 | 2799.9 |
| 20° | 2302.3 | 2312.2 | 2326.0 | 2361.5 | 2464.0 | 2600.0 | 2779.5 | 2832.1 | 2927.4 | 2943.2 | 2737.5 |
| 22.5° | 2258.9 | 2266.2 | 2264.2 | 2283.3 | 2352.9 | 2489.7 | 2688.2 | 2750.6 | 2880.1 | 2920.8 | 2679.6 |
| 25° | 2261.6 | 2268.2 | 2258.3 | 2253.7 | 2295.1 | 2392.4 | 2592.8 | 2672.4 | 2841.9 | 2905.7 | 2627.0 |
| 27.5° | 2305.6 | 2310.2 | 2291.8 | 2273.4 | 2276.7 | 2331.9 | 2514.0 | 2602.1 | 2809.7 | 2912.3 | 2583.0 |
| 30° | 2364.8 | 2373.3 | 2361.5 | 2339.2 | 2314.9 | 2317.5 | 2463.4 | 2550.2 | 2794.6 | 2935.3 | 2561.9 |
| 32.5° | 2441.0 | 2448.9 | 2443.6 | 2425.9 | 2394.3 | 2359.5 | 2450.8 | 2531.1 | 2795.9 | 2981.9 | 2557.3 |
| 35° | 2521.2 | 2537.0 | 2545.5 | 2544.2 | 2518.5 | 2458.1 | 2500.2 | 2566.6 | 2827.4 | 3060.1 | 2584.3 |
| 37.5° | 2611.9 | 2625.0 | 2661.8 | 2685.5 | 2661.8 | 2591.5 | 2611.2 | 2657.2 | 2897.2 | 3173.2 | 2643.4 |
| 40° | 2699.9 | 2719.7 | 2773.6 | 2847.2 | 2838.0 | 2776.2 | 2780.9 | 2811.0 | 3020.0 | 3341.5 | 2759.2 |
| 42.5° | 2792.0 | 2815.7 | 2909.6 | 3018.8 | 3040.5 | 2992.4 | 3005.0 | 3031.9 | 3194.9 | 3574.8 | 2957.6 |
| 45° | 2910.3 | 2938.5 | 3054.3 | 3190.2 | 3275.7 | 3246.2 | 3281.7 | 3294.8 | 3428.8 | 3878.4 | 3219.2 |
| 47.5° | 3062.8 | 3095.6 | 3238.3 | 3407.8 | 3528.8 | 3555.7 | 3617.5 | 3609.6 | 3718.7 | 4238.0 | 3558.4 |
| 50° | 3319.8 | 3338.2 | 3472.9 | 3645.7 | 3812.0 | 3933.6 | 4000.6 | 4013.2 | 4078.3 | 4587.6 | 3937.6 |
| 52.5° | 3625.4 | 3641.8 | 3739.1 | 3890.2 | 4098.6 | 4356.2 | 4521.9 | 4481.1 | 4496.9 | 5013.5 | 4381.2 |
| 55° | 3969.1 | 3996.8 | 4058.5 | 4159.1 | 4429.2 | 4808.4 | 5141.0 | 5150.9 | 4976.0 | 5421.0 | 4806.5 |
| 57.5° | 4235.3 | 4282.0 | 4387.7 | 4531.1 | 4873.5 | 5311.3 | 5758.2 | 5764.7 | 5541.3 | 5856.1 | 5275.8 |
| 60° | 4101.2 | 4156.5 | 4398.3 | 4747.3 | 5456.5 | 6188.7 | 6495.5 | 6458.1 | 6091.4 | 6351.7 | 5848.2 |
| 62.5° | 3522.9 | 3532.7 | 3884.3 | 4429.9 | 5635.9 | 7362.5 | 7593.2 | 7434.8 | 6825.6 | 6980.0 | 6429.9 |
| 65° | 2280.0 | 2344.4 | 2623.1 | 3387.5 | 5046.3 | 8013.8 | 9516.3 | 9150.2 | 7854.8 | 7693.1 | 6916.9 |
| 67.5° | 1439.4 | 1423.0 | 1538.6 | 1934.3 | 3470.9 | 7440.1 | 11157.5 | 11099.6 | 9200.8 | 8143.3 | 6800.6 |
| 69° | 1193.5 | 1212.0 | 1251.4 | 1482.8 | 2388.4 | 6352.3 | 11351.3 | 11751.0 | 9853.5 | 8107.8 | 6378.0 |
| 70° | 1082.5 | 1091.0 | 1132.4 | 1314.5 | 1842.9 | 5320.4 | 11033.2 | 11733.2 | 10109.8 | 7959.3 | 6071.7 |
| 72.5° | 859.0 | 858.3 | 929.4 | 1093.6 | 1377.6 | 3037.1 | 9059.5 | 10186.7 | 9823.2 | 7267.8 | 5016.8 |
| 75° | 652.6 | 663.1 | 741.3 | 925.4 | 1269.2 | 1659.5 | 6322.0 | 7844.9 | 7845.6 | 5740.4 | 3130.5 |
| 77.5° | 470.6 | 477.2 | 568.5 | 776.8 | 1195.6 | 1345.3 | 4211.0 | 5626.7 | 5289.6 | 2630.3 | 983.9 |
| 80° | 308.2 | 312.2 | 381.9 | 615.2 | 1077.9 | 1269.2 | 2496.8 | 3444.0 | 2494.9 | 698.0 | 325.3 |
| 82.5° | 168.9 | 188.6 | 233.3 | 398.3 | 865.0 | 1172.5 | 1517.6 | 1743.1 | 935.9 | 310.9 | 169.5 |
| 85° | 84.8 | 90.1 | 131.4 | 232.7 | 565.2 | 970.1 | 1056.9 | 999.7 | 483.1 | 154.5 | 88.1 |
| 87.5° | 25.0 | 31.5 | 54.6 | 90.1 | 229.3 | 505.4 | 588.2 | 527.8 | 186.0 | 55.8 | 18.4 |
| 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° | 3256.7 | 3256.7 | 3256.7 | 3256.7 | 3256.7 | 3256.7 | 3256.7 | 3256.7 | 3256.7 | 3256.7 | 3256.7 |
| 2.5° | 3229.7 | 3217.9 | 3165.3 | 3118.0 | 3074.6 | 3028.6 | 2989.8 | 2955.6 | 2958.9 | 2959.6 | 2924.7 |
| 5° | 3156.1 | 3129.2 | 3029.3 | 2935.9 | 2857.0 | 2757.1 | 2671.7 | 2616.5 | 2588.9 | 2552.1 | 2565.2 |
| 7.5° | 3056.2 | 3004.3 | 2865.6 | 2710.5 | 2565.2 | 2435.8 | 2295.1 | 2198.5 | 2136.7 | 2076.9 | 2084.8 |
| 10° | 2953.0 | 2869.6 | 2667.7 | 2462.7 | 2274.7 | 2067.7 | 1888.3 | 1734.5 | 1620.1 | 1577.4 | 1549.1 |
| 12.5° | 2847.2 | 2737.5 | 2481.1 | 2208.4 | 1948.8 | 1700.9 | 1446.6 | 1281.6 | 1155.4 | 1088.4 | 1096.9 |
| 15° | 2750.6 | 2617.2 | 2286.6 | 1954.0 | 1616.8 | 1321.7 | 1068.1 | 911.0 | 822.8 | 804.5 | 815.0 |
| 17.5° | 2661.2 | 2486.3 | 2104.5 | 1706.9 | 1313.2 | 991.1 | 802.5 | 713.8 | 678.3 | 668.4 | 667.8 |
| 20° | 2569.2 | 2375.3 | 1900.1 | 1442.7 | 1023.3 | 768.3 | 658.6 | 617.1 | 610.6 | 614.5 | 615.2 |
| 22.5° | 2475.8 | 2237.9 | 1689.8 | 1180.4 | 815.0 | 628.3 | 575.7 | 564.6 | 569.9 | 579.0 | 580.4 |
| 25° | 2389.8 | 2117.0 | 1487.4 | 950.4 | 650.7 | 552.1 | 526.5 | 526.5 | 538.3 | 552.1 | 552.7 |
| 27.5° | 2318.8 | 2000.0 | 1285.6 | 754.5 | 544.9 | 496.9 | 488.4 | 492.9 | 509.4 | 519.9 | 520.6 |
| 30° | 2260.3 | 1890.9 | 1095.0 | 604.7 | 479.1 | 452.9 | 450.9 | 458.8 | 470.6 | 480.5 | 481.1 |
| 32.5° | 2216.2 | 1794.9 | 916.9 | 508.0 | 433.8 | 419.3 | 418.6 | 424.6 | 431.2 | 433.8 | 436.4 |
| 35° | 2199.1 | 1715.4 | 753.9 | 446.9 | 403.5 | 394.3 | 394.3 | 393.7 | 396.3 | 397.6 | 399.0 |
| 37.5° | 2212.9 | 1654.3 | 627.6 | 407.5 | 381.2 | 374.7 | 370.7 | 366.8 | 365.4 | 365.4 | 366.1 |
| 40° | 2271.5 | 1622.1 | 533.7 | 381.9 | 365.4 | 355.6 | 348.3 | 343.7 | 339.2 | 340.4 | 341.8 |
| 42.5° | 2395.7 | 1628.0 | 470.0 | 364.7 | 351.6 | 337.8 | 327.3 | 322.0 | 318.7 | 322.7 | 322.0 |
| 45° | 2593.5 | 1687.1 | 429.2 | 353.0 | 337.8 | 320.1 | 310.2 | 304.9 | 304.9 | 310.9 | 312.9 |
| 47.5° | 2870.2 | 1800.2 | 407.5 | 343.7 | 327.3 | 306.3 | 296.5 | 292.5 | 293.8 | 303.7 | 304.3 |
| 50° | 3208.0 | 1996.7 | 403.5 | 339.2 | 322.0 | 296.5 | 285.3 | 281.3 | 284.6 | 295.1 | 296.5 |
| 52.5° | 3580.7 | 2249.8 | 422.6 | 339.8 | 317.5 | 290.5 | 276.0 | 270.1 | 273.4 | 282.0 | 284.6 |
| 55° | 4022.3 | 2566.6 | 471.9 | 342.5 | 310.9 | 287.2 | 269.5 | 256.3 | 260.3 | 266.2 | 266.8 |
| 57.5° | 4473.2 | 2966.1 | 558.7 | 343.0 | 305.6 | 281.3 | 258.3 | 241.2 | 241.2 | 245.2 | 247.1 |
| 60° | 5024.0 | 3401.3 | 673.1 | 343.7 | 306.3 | 272.7 | 243.2 | 224.1 | 221.5 | 223.5 | 224.1 |
| 62.5° | 5570.9 | 3765.4 | 692.1 | 341.8 | 312.9 | 264.2 | 226.7 | 207.1 | 202.4 | 201.8 | 200.5 |
| 65° | 5812.1 | 3697.7 | 567.2 | 332.5 | 320.1 | 258.9 | 213.6 | 190.6 | 182.7 | 180.1 | 180.1 |
| 67.5° | 5419.0 | 3127.8 | 426.6 | 320.1 | 315.5 | 253.7 | 201.1 | 176.8 | 167.6 | 162.3 | 162.3 |
| 69° | 5049.6 | 2782.1 | 383.2 | 311.5 | 303.7 | 245.2 | 193.3 | 169.5 | 158.4 | 152.5 | 150.5 |
| 70° | 4764.4 | 2544.2 | 364.7 | 304.3 | 292.5 | 235.3 | 187.3 | 164.3 | 151.8 | 145.2 | 144.0 |
| 72.5° | 3802.2 | 1996.0 | 319.4 | 276.7 | 249.1 | 197.8 | 166.3 | 147.8 | 136.1 | 128.8 | 126.8 |
| 75° | 2191.2 | 1081.9 | 264.8 | 240.5 | 200.5 | 153.8 | 140.6 | 128.8 | 119.6 | 113.0 | 111.1 |
| 77.5° | 674.3 | 418.0 | 191.9 | 190.0 | 147.3 | 119.0 | 112.4 | 107.8 | 101.3 | 94.0 | 92.7 |
| 80° | 283.9 | 212.9 | 130.1 | 128.2 | 97.9 | 82.8 | 80.8 | 80.1 | 77.5 | 71.7 | 69.6 |
| 82.5° | 155.8 | 120.3 | 90.7 | 78.9 | 59.1 | 48.0 | 50.0 | 50.6 | 48.6 | 42.7 | 38.8 |
| 85° | 76.3 | 65.8 | 44.1 | 35.5 | 26.9 | 17.1 | 16.4 | 19.7 | 18.4 | 13.1 | 14.5 |
| 87.5° | 15.1 | 18.4 | 11.9 | 5.3 | 2.6 | 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)