

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: P452111

Luminaire Tested: **GLAN-SA3A-740-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452111
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3A-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13627 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): 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

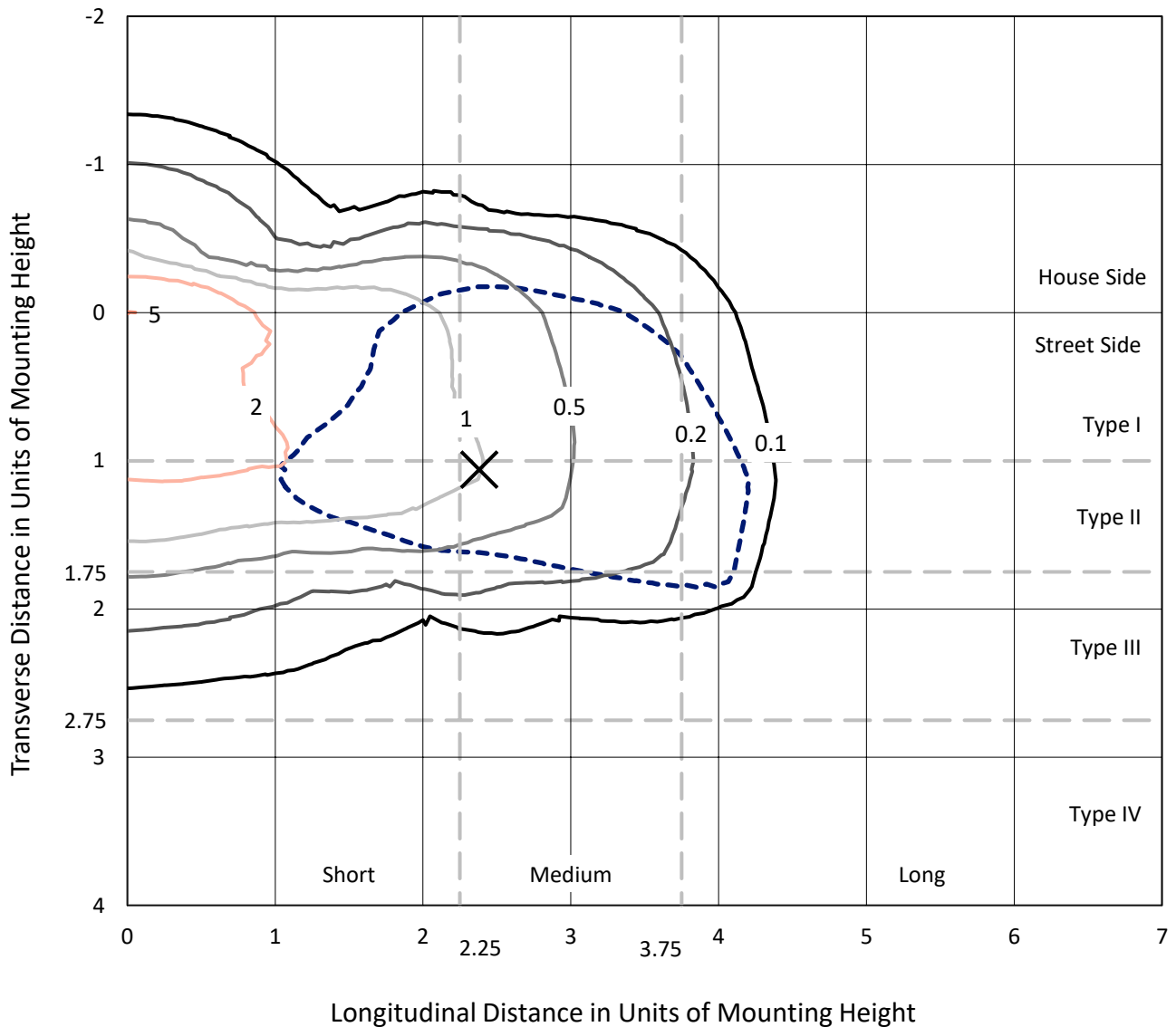




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Iso-Footcandle Lines of Horizontal Illumination

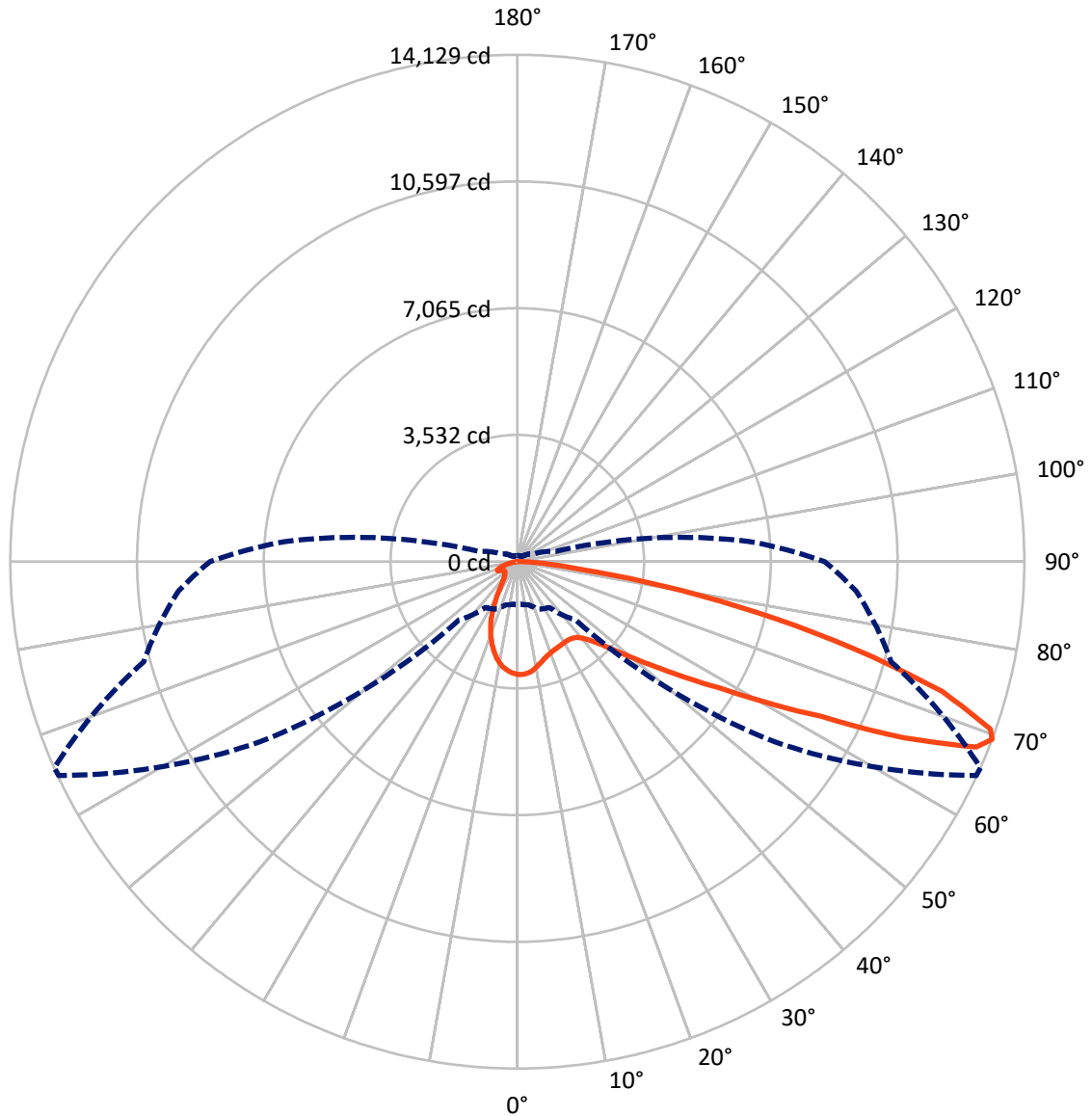
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2562.7 | 0.0 | 2562.7 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 11064.3 | 0.0 | 11064.3 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 13627.0 | 0.0 | 13627.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 273.3 | 2.0 |
| 10°-20° | 648.2 | 4.8 |
| 20°-30° | 882.4 | 6.5 |
| 30°-40° | 1185.8 | 8.7 |
| 40°-50° | 1770.5 | 13.0 |
| 50°-60° | 2816.3 | 20.7 |
| 60°-70° | 3463.9 | 25.4 |
| 70°-80° | 2253.8 | 16.5 |
| 80°-90° | 332.8 | 2.4 |
| 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° | 13627.0 | 100.0 |
| 0°-180° | 13627.0 | 100.0 |

Coefficient of Utilization



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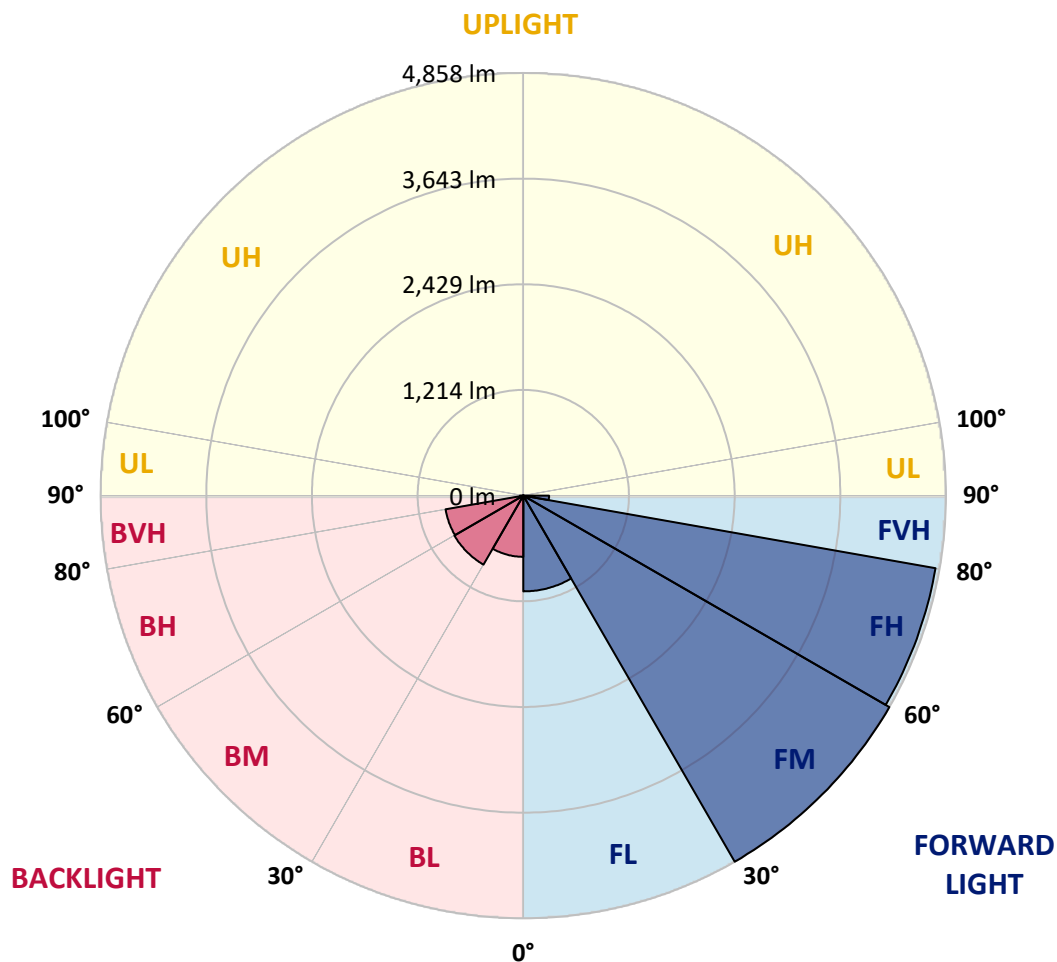
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1100.4 | 8.1 | | | |
| FM | (30°-60°) | 4857.6 | 35.6 | | | |
| FH | (60°-80°) | 4810.4 | 35.3 | | | G2/5000 |
| FVH | (80°-90°) | 295.9 | 2.2 | | | G3/500 |
| BL | (0°-30°) | 703.5 | 5.2 | B2/1000 | | |
| BM | (30°-60°) | 915.0 | 6.7 | B1/1000 | | |
| BH | (60°-80°) | 907.3 | 6.7 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 36.9 | 0.3 | | | 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 Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| 0° | 3146.9 | 3146.9 | 3146.9 | 3146.9 | 3146.9 | 3146.9 | 3146.9 | 3146.9 | 3146.9 | 3146.9 | 3146.9 |
| 2.5° | 3036.7 | 3048.7 | 3062.3 | 3077.4 | 3106.1 | 3121.9 | 3133.3 | 3146.1 | 3147.6 | 3154.4 | 3149.1 |
| 5° | 2812.5 | 2826.9 | 2847.3 | 2875.9 | 2919.0 | 2986.1 | 3055.5 | 3112.1 | 3118.9 | 3150.6 | 3159.7 |
| 7.5° | 2625.4 | 2633.7 | 2650.3 | 2696.3 | 2757.5 | 2832.2 | 2933.3 | 3048.0 | 3064.6 | 3140.1 | 3166.5 |
| 10° | 2473.0 | 2481.3 | 2500.9 | 2548.4 | 2608.8 | 2702.4 | 2813.3 | 2964.2 | 2977.8 | 3107.6 | 3168.0 |
| 12.5° | 2359.0 | 2366.6 | 2387.7 | 2434.5 | 2503.9 | 2591.4 | 2713.7 | 2873.7 | 2893.3 | 3064.6 | 3153.6 |
| 15° | 2272.2 | 2286.6 | 2303.9 | 2342.4 | 2415.6 | 2500.1 | 2618.6 | 2790.7 | 2806.5 | 3019.3 | 3143.8 |
| 17.5° | 2235.2 | 2242.0 | 2254.1 | 2289.6 | 2343.2 | 2426.2 | 2545.4 | 2725.8 | 2744.6 | 2987.6 | 3141.6 |
| 20° | 2236.8 | 2243.5 | 2245.8 | 2265.4 | 2303.9 | 2375.6 | 2493.3 | 2674.4 | 2697.1 | 2959.7 | 3145.3 |
| 22.5° | 2288.1 | 2288.8 | 2280.5 | 2273.7 | 2288.8 | 2348.4 | 2456.4 | 2636.0 | 2662.4 | 2947.6 | 3148.4 |
| 25° | 2367.3 | 2380.9 | 2368.8 | 2337.1 | 2309.2 | 2337.9 | 2442.0 | 2614.8 | 2639.7 | 2930.3 | 3144.6 |
| 27.5° | 2495.6 | 2497.9 | 2488.1 | 2445.0 | 2372.6 | 2351.5 | 2436.0 | 2599.0 | 2620.1 | 2917.4 | 3125.7 |
| 30° | 2667.7 | 2660.9 | 2651.8 | 2604.3 | 2490.3 | 2403.5 | 2448.8 | 2584.6 | 2606.5 | 2898.6 | 3103.1 |
| 32.5° | 2842.0 | 2863.1 | 2854.8 | 2799.0 | 2651.1 | 2504.7 | 2490.3 | 2583.1 | 2601.2 | 2884.2 | 3078.2 |
| 35° | 3026.9 | 3036.7 | 3075.9 | 3047.2 | 2895.6 | 2668.4 | 2568.0 | 2606.5 | 2620.9 | 2885.0 | 3060.8 |
| 37.5° | 3171.8 | 3198.2 | 3290.2 | 3315.1 | 3172.5 | 2885.0 | 2694.1 | 2672.9 | 2679.0 | 2922.0 | 3067.6 |
| 40° | 3346.8 | 3392.1 | 3510.6 | 3612.5 | 3518.9 | 3166.5 | 2908.4 | 2795.9 | 2803.5 | 3011.0 | 3112.1 |
| 42.5° | 3568.7 | 3600.4 | 3759.6 | 3897.7 | 3882.6 | 3538.5 | 3168.0 | 2997.4 | 3001.2 | 3188.4 | 3236.7 |
| 45° | 3828.3 | 3873.6 | 4052.4 | 4259.9 | 4295.4 | 3959.6 | 3543.0 | 3302.3 | 3300.0 | 3463.8 | 3469.1 |
| 47.5° | 4160.3 | 4188.3 | 4365.6 | 4592.0 | 4735.4 | 4488.6 | 3998.1 | 3740.0 | 3715.9 | 3865.3 | 3822.3 |
| 50° | 4466.0 | 4509.7 | 4644.1 | 4891.6 | 5248.5 | 5108.2 | 4596.5 | 4307.5 | 4250.9 | 4390.5 | 4318.1 |
| 52.5° | 4594.3 | 4640.3 | 4753.5 | 5060.6 | 5688.5 | 5909.6 | 5356.4 | 4984.4 | 4890.1 | 4997.2 | 4970.8 |
| 55° | 4371.6 | 4431.3 | 4536.9 | 4910.4 | 5881.7 | 6834.0 | 6381.2 | 5767.0 | 5698.3 | 5652.3 | 5659.8 |
| 57.5° | 3773.2 | 3829.8 | 3972.4 | 4384.5 | 5650.8 | 7504.9 | 7844.5 | 6772.9 | 6625.7 | 6413.7 | 6449.9 |
| 60° | 2872.2 | 2907.6 | 2981.6 | 3438.1 | 4966.3 | 7679.2 | 9506.2 | 8044.5 | 7950.9 | 7172.1 | 7197.8 |
| 62.5° | 2039.8 | 2079.8 | 2131.1 | 2359.0 | 3635.9 | 7188.0 | 10807.2 | 9820.1 | 9485.8 | 7957.7 | 7932.8 |
| 65° | 1656.4 | 1629.3 | 1691.2 | 1797.6 | 2133.4 | 5570.8 | 11100.0 | 12284.8 | 11824.5 | 8992.3 | 8646.7 |
| 67.5° | 1362.1 | 1333.5 | 1394.6 | 1584.0 | 1622.5 | 3233.6 | 10045.0 | 13884.6 | 13792.6 | 10117.5 | 9371.9 |
| 69° | 1205.9 | 1190.8 | 1244.4 | 1460.2 | 1557.6 | 2296.4 | 8750.8 | 14107.3 | 14129.1 | 10780.8 | 9483.6 |
| 70° | 1086.7 | 1092.7 | 1144.8 | 1397.6 | 1528.1 | 1893.4 | 7479.2 | 13800.1 | 13985.8 | 11112.1 | 9362.8 |
| 72.5° | 799.9 | 812.7 | 885.2 | 1157.6 | 1500.2 | 1606.6 | 4450.9 | 12053.9 | 12382.1 | 11131.7 | 8565.2 |
| 75° | 559.2 | 553.2 | 617.3 | 871.6 | 1417.2 | 1592.3 | 2614.1 | 9322.1 | 9694.1 | 9621.7 | 7197.0 |
| 77.5° | 366.0 | 375.8 | 427.1 | 615.8 | 1192.3 | 1580.2 | 1704.0 | 6613.7 | 6855.2 | 6434.8 | 4256.9 |
| 80° | 258.1 | 257.3 | 286.0 | 420.3 | 884.4 | 1518.3 | 1395.3 | 4168.6 | 4107.5 | 2528.8 | 1262.5 |
| 82.5° | 147.9 | 158.5 | 191.7 | 295.8 | 591.6 | 1336.5 | 1283.6 | 1993.8 | 1820.2 | 720.7 | 426.4 |
| 85° | 82.3 | 86.0 | 114.0 | 178.8 | 345.6 | 1006.7 | 1120.6 | 907.1 | 855.8 | 301.1 | 183.4 |
| 87.5° | 26.4 | 28.7 | 47.5 | 90.6 | 157.0 | 475.4 | 634.7 | 418.8 | 386.4 | 108.7 | 74.0 |
| 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° | 3146.9 | 3146.9 | 3146.9 | 3146.9 | 3146.9 | 3146.9 | 3146.9 | 3146.9 | 3146.9 | 3146.9 | 3146.9 |
| 2.5° | 3151.4 | 3160.4 | 3136.3 | 3112.9 | 3091.8 | 3062.3 | 3035.9 | 3014.0 | 2998.9 | 2996.7 | 2989.1 |
| 5° | 3161.9 | 3162.7 | 3116.7 | 3054.8 | 2994.4 | 2928.0 | 2859.3 | 2810.3 | 2764.2 | 2738.6 | 2725.8 |
| 7.5° | 3169.5 | 3162.7 | 3079.7 | 2979.3 | 2863.1 | 2742.4 | 2621.6 | 2525.0 | 2450.3 | 2420.9 | 2432.2 |
| 10° | 3166.5 | 3145.3 | 3023.8 | 2863.1 | 2694.1 | 2513.7 | 2340.1 | 2204.3 | 2079.8 | 2015.6 | 2017.2 |
| 12.5° | 3149.9 | 3115.2 | 2940.8 | 2732.6 | 2484.3 | 2242.8 | 1977.2 | 1793.8 | 1649.6 | 1564.4 | 1538.0 |
| 15° | 3135.5 | 3075.2 | 2843.5 | 2555.2 | 2246.6 | 1901.7 | 1578.0 | 1351.6 | 1230.8 | 1163.7 | 1162.9 |
| 17.5° | 3120.4 | 3036.7 | 2737.1 | 2367.3 | 1973.4 | 1529.7 | 1190.1 | 1017.3 | 960.7 | 967.4 | 956.1 |
| 20° | 3104.6 | 2991.4 | 2626.2 | 2158.3 | 1640.6 | 1141.0 | 891.2 | 821.0 | 836.9 | 867.8 | 872.4 |
| 22.5° | 3086.5 | 2943.1 | 2506.9 | 1928.1 | 1290.4 | 858.8 | 722.9 | 712.4 | 753.1 | 801.4 | 808.2 |
| 25° | 3058.6 | 2882.7 | 2356.7 | 1687.4 | 995.4 | 692.0 | 633.1 | 640.7 | 680.7 | 721.4 | 726.0 |
| 27.5° | 3019.3 | 2808.0 | 2205.1 | 1387.0 | 747.8 | 593.9 | 578.8 | 588.6 | 608.2 | 633.1 | 639.2 |
| 30° | 2966.5 | 2723.5 | 2030.7 | 1127.4 | 599.2 | 544.9 | 538.8 | 544.1 | 555.4 | 566.0 | 569.0 |
| 32.5° | 2913.7 | 2642.0 | 1854.9 | 863.3 | 534.3 | 512.4 | 506.4 | 506.4 | 506.4 | 507.9 | 508.6 |
| 35° | 2864.6 | 2565.0 | 1666.2 | 672.4 | 500.3 | 486.7 | 478.4 | 469.4 | 467.9 | 462.6 | 462.6 |
| 37.5° | 2837.5 | 2494.8 | 1465.5 | 563.0 | 475.4 | 465.6 | 454.3 | 439.2 | 430.9 | 431.7 | 430.1 |
| 40° | 2842.7 | 2448.8 | 1282.9 | 501.1 | 455.0 | 444.5 | 427.1 | 409.8 | 404.5 | 404.5 | 403.0 |
| 42.5° | 2902.3 | 2433.7 | 1107.8 | 468.6 | 435.4 | 423.4 | 401.5 | 385.6 | 382.6 | 381.8 | 383.4 |
| 45° | 3039.7 | 2470.7 | 950.8 | 447.5 | 418.8 | 400.7 | 378.8 | 364.5 | 361.5 | 361.5 | 360.7 |
| 47.5° | 3307.6 | 2590.7 | 838.4 | 433.9 | 406.8 | 383.4 | 360.7 | 346.4 | 341.1 | 339.6 | 339.6 |
| 50° | 3724.2 | 2851.0 | 754.6 | 421.8 | 391.7 | 367.5 | 344.1 | 327.5 | 319.2 | 318.5 | 317.7 |
| 52.5° | 4303.0 | 3257.0 | 722.2 | 412.8 | 375.1 | 350.9 | 325.3 | 309.4 | 298.8 | 296.6 | 295.1 |
| 55° | 4979.9 | 3823.8 | 766.7 | 406.0 | 357.7 | 332.0 | 305.6 | 289.0 | 279.2 | 274.7 | 273.9 |
| 57.5° | 5763.9 | 4504.5 | 935.8 | 396.9 | 341.9 | 311.7 | 286.0 | 269.4 | 258.8 | 253.6 | 252.1 |
| 60° | 6468.0 | 5204.0 | 1230.8 | 391.7 | 328.3 | 289.8 | 263.4 | 248.3 | 238.5 | 233.2 | 232.4 |
| 62.5° | 7241.5 | 5871.1 | 1583.2 | 406.0 | 322.2 | 268.7 | 242.2 | 228.7 | 220.4 | 215.1 | 215.1 |
| 65° | 8067.9 | 6539.0 | 1816.4 | 454.3 | 331.3 | 252.1 | 219.6 | 208.3 | 200.7 | 197.0 | 196.2 |
| 67.5° | 8624.8 | 6769.9 | 1496.5 | 504.1 | 353.9 | 233.9 | 197.7 | 188.7 | 184.1 | 180.4 | 180.4 |
| 69° | 8564.4 | 6477.8 | 1104.0 | 516.9 | 360.7 | 224.9 | 185.6 | 178.8 | 172.8 | 171.3 | 169.8 |
| 70° | 8373.5 | 6145.0 | 925.2 | 508.6 | 355.4 | 216.6 | 178.1 | 169.8 | 164.5 | 163.0 | 162.2 |
| 72.5° | 7458.1 | 5329.3 | 689.0 | 442.2 | 302.6 | 187.9 | 157.7 | 150.2 | 145.6 | 143.4 | 143.4 |
| 75° | 6196.4 | 4355.8 | 538.1 | 351.7 | 237.0 | 158.5 | 135.1 | 129.0 | 125.3 | 123.8 | 123.0 |
| 77.5° | 3472.9 | 2432.2 | 386.4 | 275.4 | 179.6 | 128.3 | 113.2 | 107.9 | 104.1 | 102.6 | 102.6 |
| 80° | 967.4 | 695.0 | 227.1 | 181.9 | 122.3 | 97.3 | 89.8 | 86.0 | 80.7 | 77.0 | 79.2 |
| 82.5° | 364.5 | 301.1 | 129.8 | 109.4 | 77.7 | 64.9 | 62.6 | 59.6 | 57.4 | 52.1 | 52.1 |
| 85° | 177.3 | 146.4 | 83.0 | 58.1 | 43.0 | 34.0 | 32.4 | 30.9 | 29.4 | 25.7 | 26.4 |
| 87.5° | 61.1 | 64.9 | 36.2 | 21.1 | 12.8 | 8.3 | 6.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| 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)