

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: McGRAW-EDISON

Report Number: P651971

Luminaire Tested: **GALN-SA6A-840-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651971
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-840-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13619.1 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

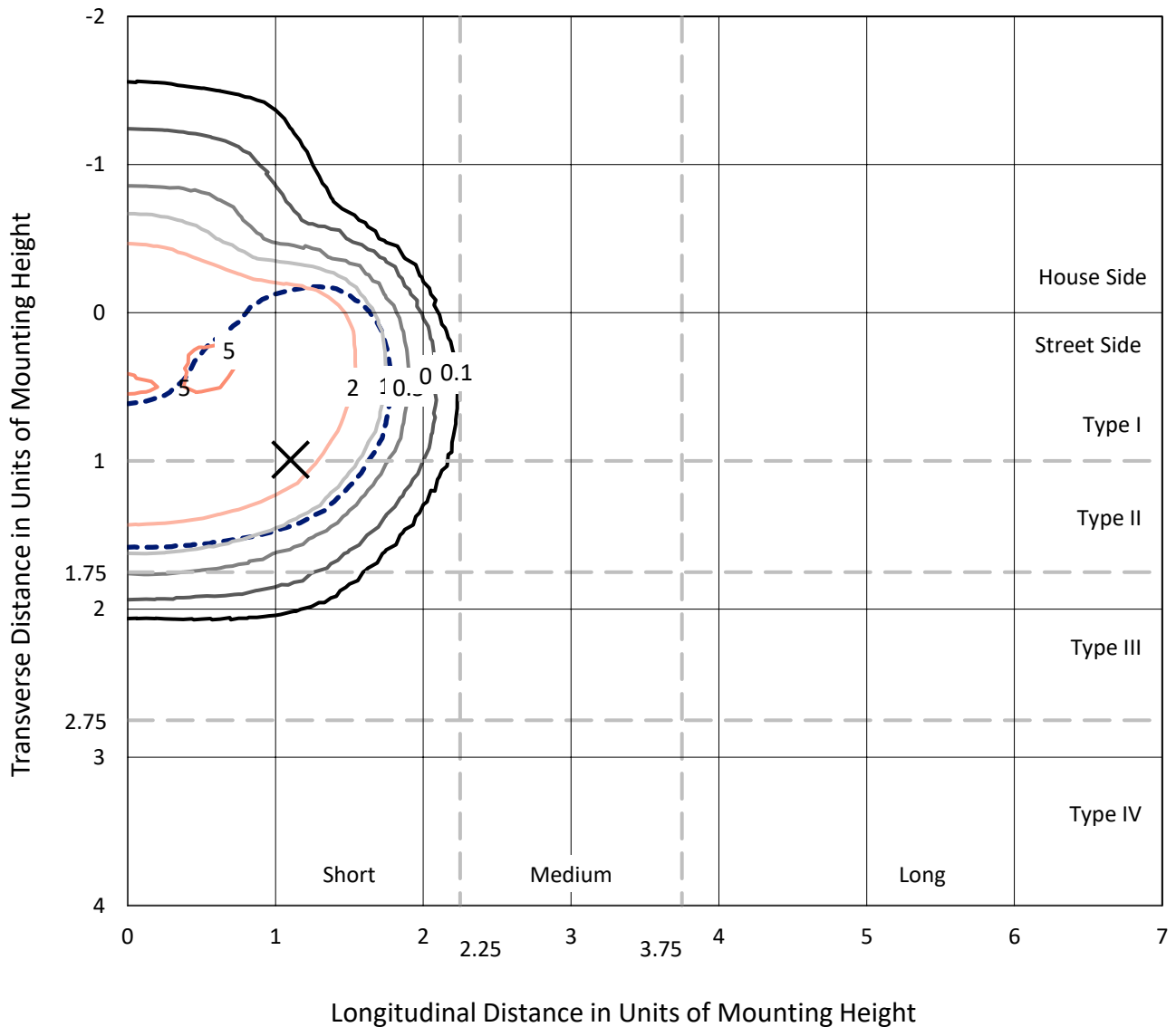
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

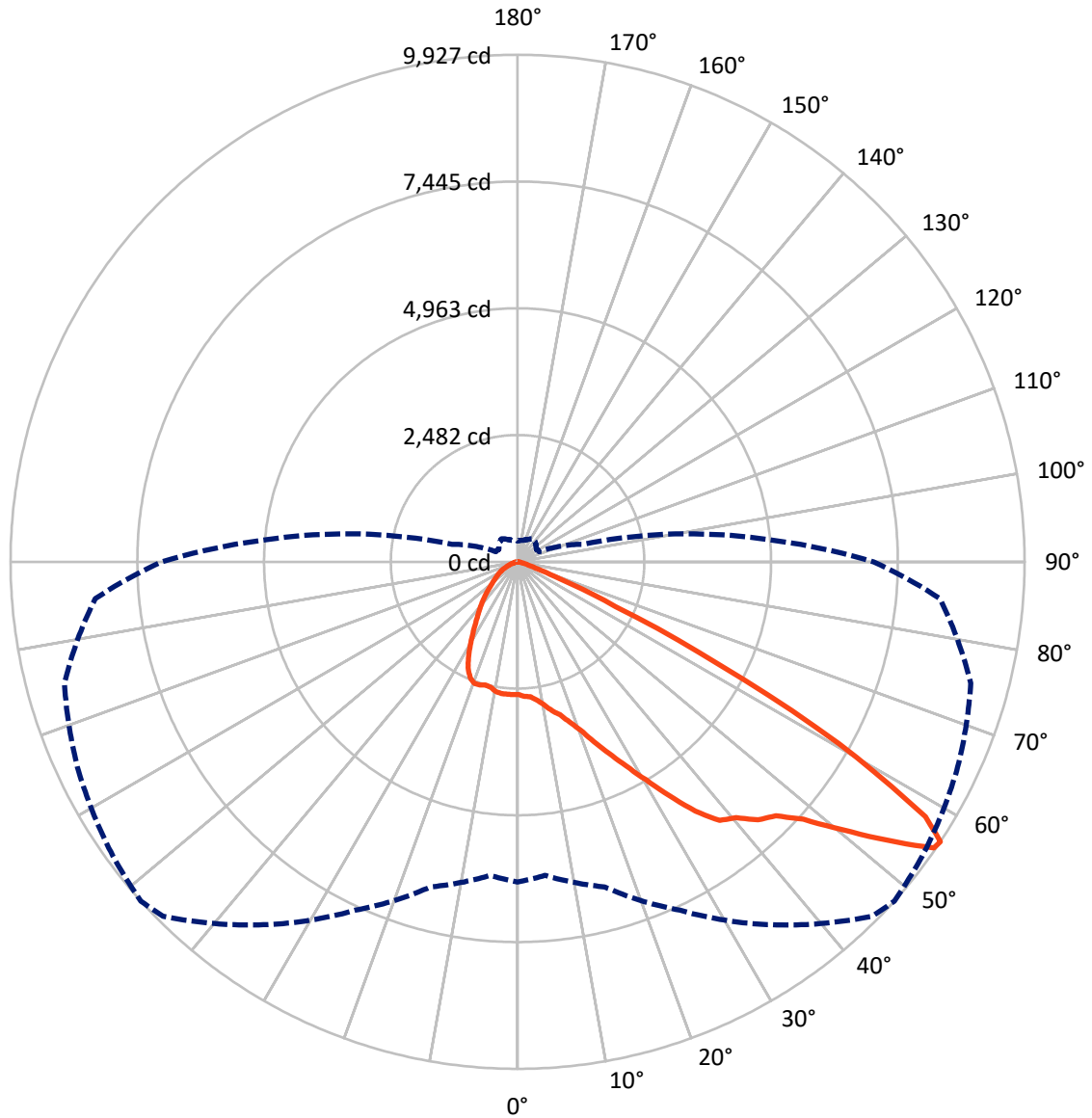
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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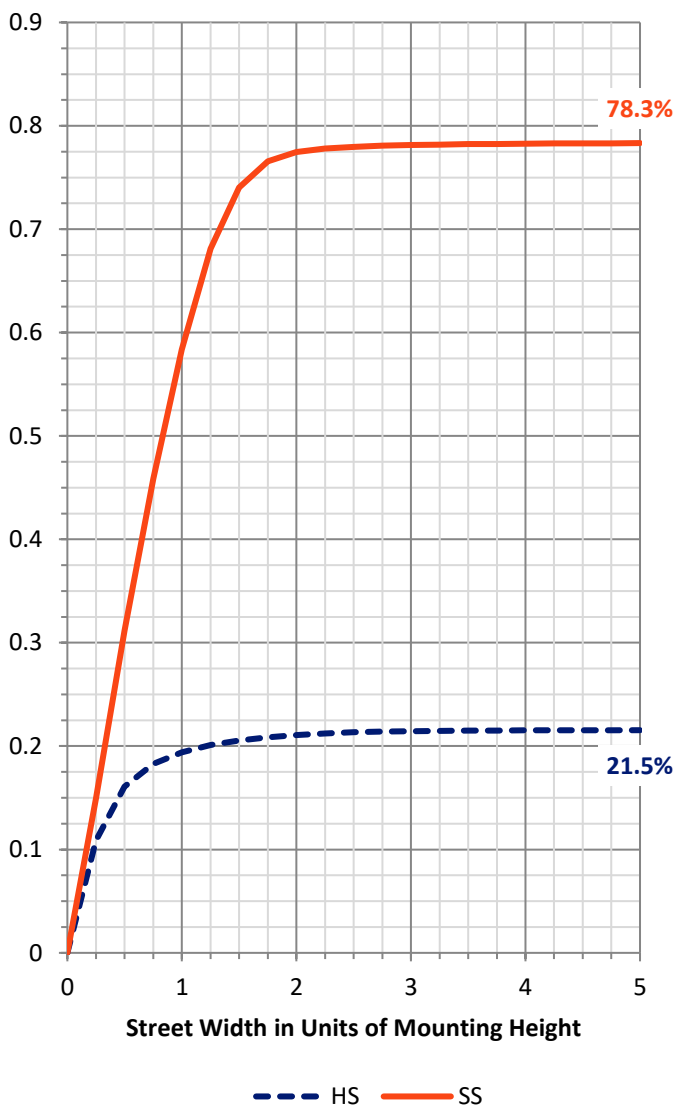
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2961.9 | 0.0 | 2961.9 |
| | % Fixture | 21.7 | 0.0 | 21.7 |
| Street Side | Lumens | 10657.2 | 0.0 | 10657.2 |
| | % Fixture | 78.3 | 0.0 | 78.3 |
| Total | Lumens | 13619.1 | 0.0 | 13619.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 253.4 | 1.9 |
| 10°-20° | 809.8 | 5.9 |
| 20°-30° | 1468.8 | 10.8 |
| 30°-40° | 2307.2 | 16.9 |
| 40°-50° | 3365.8 | 24.7 |
| 50°-60° | 4055.1 | 29.8 |
| 60°-70° | 1187.3 | 8.7 |
| 70°-80° | 150.6 | 1.1 |
| 80°-90° | 21.1 | 0.2 |
| 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° | 13619.1 | 100.0 |
| 0°-180° | 13619.1 | 100.0 |

Coefficient of Utilization

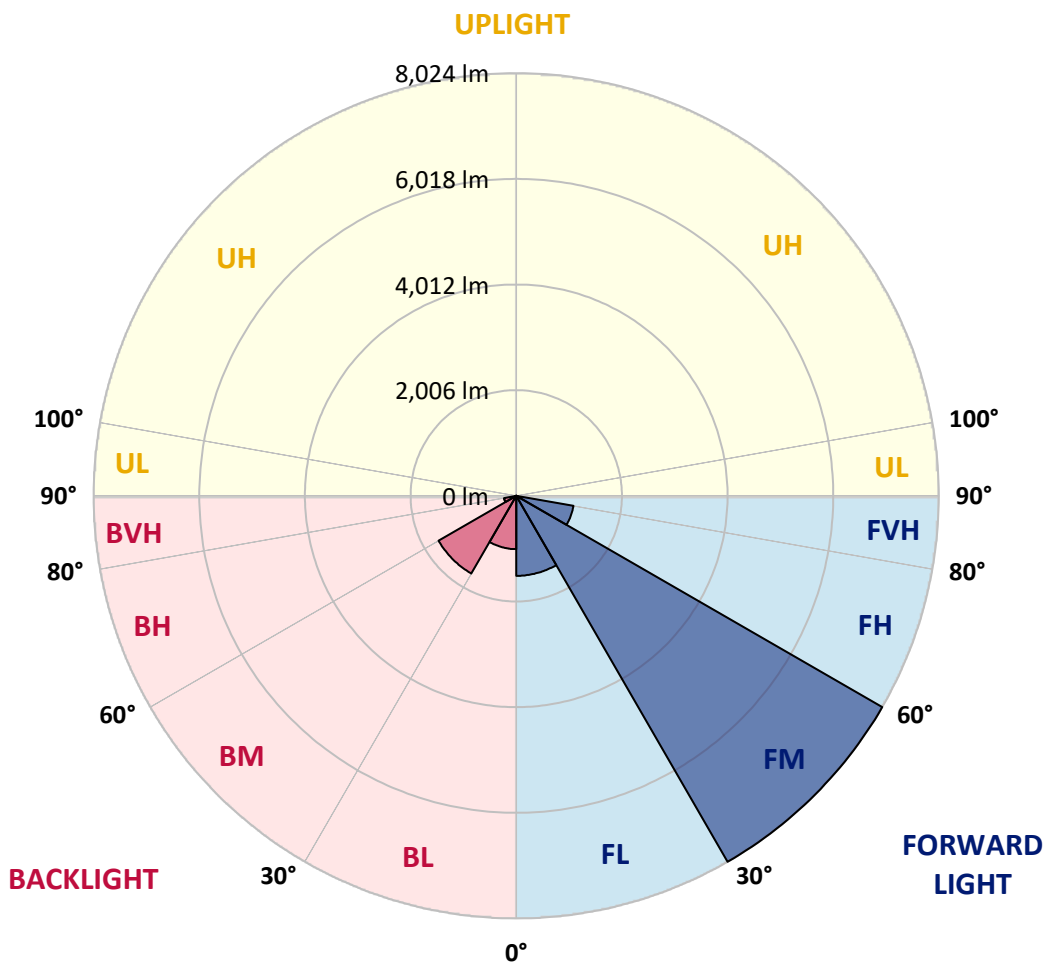


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1519.6 | 11.2 | | | |
| FM (30°-60°) | 8024.4 | 58.9 | | | |
| FH (60°-80°) | 1102.6 | 8.1 | | | G1/1800 |
| FVH (80°-90°) | 10.6 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1012.4 | 7.4 | B3/2500 | | |
| BM (30°-60°) | 1703.7 | 12.5 | B2/2500 | | |
| BH (60°-80°) | 235.3 | 1.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 10.5 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 48° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2601.3 | 2601.3 | 2601.3 | 2601.3 | 2601.3 | 2601.3 | 2601.3 | 2601.3 | 2601.3 | 2601.3 | 2601.3 |
| 2.5° | 2648.4 | 2635.9 | 2635.9 | 2616.2 | 2638.5 | 2628.5 | 2635.9 | 2611.2 | 2635.9 | 2598.8 | 2628.5 |
| 5° | 2660.8 | 2663.3 | 2653.4 | 2665.7 | 2665.7 | 2680.6 | 2655.8 | 2678.2 | 2690.5 | 2663.3 | 2650.8 |
| 7.5° | 2725.3 | 2730.2 | 2727.7 | 2717.8 | 2737.6 | 2735.2 | 2732.7 | 2715.3 | 2720.3 | 2710.4 | 2695.5 |
| 10° | 2851.7 | 2849.2 | 2861.7 | 2836.9 | 2822.0 | 2839.3 | 2844.3 | 2817.0 | 2797.2 | 2789.8 | 2742.6 |
| 12.5° | 3035.3 | 3005.5 | 2988.1 | 2963.3 | 2970.7 | 2945.9 | 2990.6 | 2943.5 | 2933.6 | 2888.9 | 2841.8 |
| 15° | 3184.0 | 3179.1 | 3181.5 | 3141.9 | 3097.2 | 3107.2 | 3107.2 | 3082.3 | 3067.5 | 3012.9 | 2945.9 |
| 17.5° | 3489.1 | 3384.9 | 3407.1 | 3357.6 | 3320.4 | 3317.9 | 3295.6 | 3300.6 | 3260.9 | 3146.8 | 3045.2 |
| 20° | 3727.1 | 3682.4 | 3647.8 | 3563.4 | 3506.4 | 3523.7 | 3513.8 | 3489.1 | 3476.6 | 3327.8 | 3184.0 |
| 22.5° | 3940.3 | 3955.2 | 3898.2 | 3875.8 | 3796.5 | 3803.9 | 3823.8 | 3801.5 | 3707.2 | 3553.5 | 3340.2 |
| 25° | 4240.4 | 4223.0 | 4146.1 | 4118.9 | 4044.5 | 4071.8 | 4148.7 | 4131.2 | 4071.8 | 3794.0 | 3461.7 |
| 27.5° | 4595.0 | 4535.5 | 4550.3 | 4426.4 | 4354.4 | 4431.3 | 4523.1 | 4609.9 | 4441.2 | 4076.7 | 3605.5 |
| 30° | 4845.4 | 4783.4 | 4778.5 | 4773.5 | 4756.2 | 4845.4 | 4952.1 | 5031.5 | 4895.0 | 4359.4 | 3843.6 |
| 32.5° | 4969.5 | 4984.3 | 5026.5 | 5011.6 | 5162.8 | 5346.3 | 5457.9 | 5572.0 | 5400.9 | 4820.6 | 4158.6 |
| 35° | 5299.2 | 5205.0 | 5299.2 | 5309.1 | 5465.4 | 5854.7 | 5996.1 | 6268.8 | 6226.7 | 5472.8 | 4542.9 |
| 37.5° | 5492.7 | 5485.3 | 5497.6 | 5591.8 | 5743.1 | 6224.2 | 6425.1 | 6635.8 | 6556.4 | 5864.6 | 5021.5 |
| 40° | 5812.6 | 5832.4 | 5829.9 | 5901.8 | 6068.0 | 6501.9 | 6583.8 | 6754.8 | 6762.3 | 6407.7 | 5725.8 |
| 42.5° | 6325.8 | 6246.5 | 6194.5 | 6268.8 | 6501.9 | 6742.5 | 6906.1 | 6871.4 | 7116.9 | 7067.3 | 6630.9 |
| 45° | 6787.1 | 6834.2 | 6757.4 | 6881.3 | 6965.7 | 7094.6 | 7089.6 | 7164.0 | 7476.5 | 7712.1 | 7312.8 |
| 47.5° | 7218.6 | 7248.3 | 7285.5 | 7369.9 | 7553.4 | 7573.2 | 7531.0 | 7498.8 | 7930.3 | 8173.3 | 7841.0 |
| 50° | 7476.5 | 7503.7 | 7677.3 | 7828.6 | 8170.8 | 8215.4 | 8240.2 | 8158.4 | 8451.0 | 8478.3 | 8339.4 |
| 52.5° | 7407.0 | 7436.8 | 7679.8 | 8178.2 | 8723.8 | 9132.9 | 9058.6 | 8919.6 | 8902.3 | 9009.0 | 8800.6 |
| 55° | 6792.1 | 6764.8 | 7099.6 | 7875.7 | 8897.4 | 9879.3 | 9889.2 | 9743.0 | 9462.8 | 9390.9 | 8731.3 |
| 56° | 6268.8 | 6162.2 | 6588.7 | 7526.0 | 8674.2 | 9814.9 | 9926.5 | 9770.2 | 9507.4 | 9185.0 | 8302.2 |
| 57.5° | 5135.6 | 5237.2 | 5661.3 | 6437.4 | 7903.0 | 9351.2 | 9415.7 | 9378.4 | 9180.0 | 8639.5 | 7305.3 |
| 60° | 2831.9 | 3010.4 | 3384.9 | 4334.6 | 5626.5 | 7176.4 | 7228.5 | 7531.0 | 7568.2 | 6616.0 | 5026.5 |
| 62.5° | 1202.7 | 1182.9 | 1572.2 | 2271.5 | 3203.9 | 4332.2 | 4428.9 | 4738.8 | 4795.9 | 3813.9 | 2521.9 |
| 65° | 488.5 | 515.8 | 711.7 | 1143.2 | 1693.7 | 1973.9 | 2110.2 | 2211.9 | 2400.4 | 1574.6 | 929.9 |
| 67.5° | 322.4 | 319.9 | 419.1 | 652.2 | 912.6 | 880.3 | 880.3 | 929.9 | 860.5 | 642.3 | 401.7 |
| 70° | 230.6 | 238.1 | 300.1 | 451.3 | 567.8 | 421.6 | 404.2 | 386.9 | 438.9 | 424.0 | 324.9 |
| 72.5° | 151.3 | 161.2 | 200.8 | 270.3 | 295.1 | 230.6 | 230.6 | 277.7 | 362.1 | 342.2 | 265.3 |
| 75° | 99.2 | 101.7 | 124.0 | 156.3 | 146.3 | 119.0 | 131.4 | 185.9 | 262.8 | 253.0 | 188.5 |
| 77.5° | 66.9 | 69.5 | 84.4 | 101.7 | 81.8 | 66.9 | 71.9 | 94.2 | 128.9 | 128.9 | 99.2 |
| 80° | 24.8 | 27.2 | 34.7 | 32.2 | 37.2 | 47.1 | 52.1 | 64.5 | 76.9 | 76.9 | 66.9 |
| 82.5° | 0.0 | 2.4 | 7.4 | 17.3 | 27.2 | 37.2 | 42.1 | 49.6 | 57.0 | 64.5 | 62.0 |
| 85° | 0.0 | 2.4 | 7.4 | 12.4 | 19.8 | 22.3 | 24.8 | 17.3 | 14.9 | 14.9 | 12.4 |
| 87.5° | 0.0 | 0.0 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 5.0 | 2.4 | 2.4 |
| 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° | 2601.3 | 2601.3 | 2601.3 | 2601.3 | 2601.3 | 2601.3 | 2601.3 | 2601.3 | 2601.3 | 2601.3 | 2601.3 |
| 2.5° | 2601.3 | 2598.8 | 2598.8 | 2591.4 | 2606.3 | 2598.8 | 2603.7 | 2601.3 | 2569.0 | 2593.8 | 2576.5 |
| 5° | 2628.5 | 2645.9 | 2618.6 | 2613.7 | 2593.8 | 2601.3 | 2601.3 | 2576.5 | 2598.8 | 2596.3 | 2591.4 |
| 7.5° | 2698.0 | 2668.2 | 2638.5 | 2608.7 | 2603.7 | 2596.3 | 2569.0 | 2559.1 | 2576.5 | 2556.6 | 2586.4 |
| 10° | 2727.7 | 2732.7 | 2688.1 | 2648.4 | 2611.2 | 2559.1 | 2521.9 | 2499.6 | 2472.3 | 2502.1 | 2519.5 |
| 12.5° | 2864.1 | 2814.5 | 2737.6 | 2675.6 | 2549.2 | 2497.1 | 2459.9 | 2450.0 | 2497.1 | 2507.0 | 2489.7 |
| 15° | 2911.2 | 2903.8 | 2804.6 | 2665.7 | 2534.3 | 2472.3 | 2479.8 | 2459.9 | 2464.9 | 2440.1 | 2445.0 |
| 17.5° | 3007.9 | 2923.7 | 2807.1 | 2633.5 | 2531.8 | 2516.9 | 2472.3 | 2393.0 | 2348.3 | 2328.5 | 2345.9 |
| 20° | 3114.6 | 3032.7 | 2864.1 | 2645.9 | 2554.1 | 2514.5 | 2368.2 | 2271.5 | 2179.7 | 2130.1 | 2132.6 |
| 22.5° | 3208.8 | 3107.2 | 2839.3 | 2650.8 | 2574.0 | 2410.3 | 2234.3 | 2043.3 | 1929.3 | 1852.4 | 1854.8 |
| 25° | 3322.9 | 3179.1 | 2849.2 | 2660.8 | 2521.9 | 2244.2 | 1991.2 | 1805.3 | 1668.9 | 1616.8 | 1634.1 |
| 27.5° | 3387.4 | 3223.7 | 2903.8 | 2683.1 | 2385.5 | 2008.6 | 1735.8 | 1562.2 | 1482.9 | 1458.1 | 1455.6 |
| 30° | 3580.8 | 3322.9 | 2970.7 | 2638.5 | 2157.4 | 1755.7 | 1502.7 | 1396.1 | 1319.2 | 1296.9 | 1301.9 |
| 32.5° | 3868.4 | 3503.9 | 3057.5 | 2521.9 | 1924.3 | 1530.0 | 1351.5 | 1272.1 | 1200.2 | 1158.1 | 1153.1 |
| 35° | 4109.0 | 3813.9 | 3149.3 | 2340.9 | 1654.0 | 1356.4 | 1244.8 | 1145.6 | 1036.5 | 989.4 | 977.0 |
| 37.5° | 4567.7 | 4163.5 | 3129.4 | 2068.1 | 1396.1 | 1227.4 | 1130.8 | 1009.3 | 915.0 | 850.6 | 843.1 |
| 40° | 5177.7 | 4572.7 | 3032.7 | 1735.8 | 1205.2 | 1113.4 | 1009.3 | 892.7 | 776.2 | 721.6 | 716.6 |
| 42.5° | 5919.2 | 5073.6 | 2856.7 | 1398.6 | 1014.2 | 999.4 | 905.1 | 771.2 | 667.1 | 627.4 | 629.8 |
| 45° | 6521.8 | 5502.6 | 2678.2 | 1123.3 | 872.9 | 887.8 | 805.9 | 679.4 | 607.5 | 575.3 | 575.3 |
| 47.5° | 7057.4 | 5792.7 | 2484.7 | 927.5 | 741.4 | 776.2 | 704.3 | 629.8 | 567.8 | 543.0 | 538.1 |
| 50° | 7573.2 | 6087.8 | 2291.3 | 751.3 | 632.3 | 667.1 | 659.6 | 600.1 | 550.5 | 520.7 | 523.3 |
| 52.5° | 7895.6 | 6134.9 | 2045.8 | 614.9 | 553.0 | 592.7 | 617.5 | 562.9 | 508.4 | 491.0 | 486.0 |
| 55° | 7501.3 | 5527.4 | 1587.1 | 505.9 | 468.7 | 520.7 | 567.8 | 505.9 | 463.7 | 434.0 | 431.5 |
| 56° | 6970.6 | 4942.1 | 1326.7 | 466.2 | 443.9 | 500.9 | 550.5 | 483.6 | 436.5 | 419.1 | 406.7 |
| 57.5° | 5901.8 | 4044.5 | 979.5 | 414.1 | 411.7 | 466.2 | 523.3 | 461.2 | 406.7 | 391.8 | 391.8 |
| 60° | 3680.0 | 2276.4 | 592.7 | 347.2 | 357.1 | 414.1 | 471.1 | 411.7 | 362.1 | 362.1 | 369.5 |
| 62.5° | 1676.3 | 947.3 | 359.5 | 295.1 | 307.5 | 357.1 | 419.1 | 372.0 | 344.7 | 372.0 | 376.9 |
| 65° | 570.4 | 409.1 | 260.4 | 235.6 | 243.0 | 295.1 | 359.5 | 376.9 | 374.4 | 391.8 | 401.7 |
| 67.5° | 319.9 | 262.8 | 218.2 | 195.9 | 190.9 | 218.2 | 295.1 | 376.9 | 362.1 | 354.6 | 359.5 |
| 70° | 270.3 | 223.2 | 193.4 | 173.6 | 166.2 | 176.0 | 228.2 | 285.2 | 255.4 | 248.0 | 243.0 |
| 72.5° | 218.2 | 185.9 | 168.6 | 156.3 | 133.9 | 114.0 | 104.1 | 109.1 | 121.5 | 128.9 | 141.4 |
| 75° | 153.7 | 141.4 | 141.4 | 126.5 | 96.7 | 71.9 | 57.0 | 47.1 | 32.2 | 22.3 | 24.8 |
| 77.5° | 86.8 | 86.8 | 89.2 | 76.9 | 62.0 | 47.1 | 34.7 | 24.8 | 12.4 | 5.0 | 2.4 |
| 80° | 59.5 | 64.5 | 69.5 | 62.0 | 52.1 | 42.1 | 29.8 | 17.3 | 7.4 | 0.0 | 0.0 |
| 82.5° | 59.5 | 66.9 | 71.9 | 62.0 | 52.1 | 39.7 | 29.8 | 17.3 | 7.4 | 2.4 | 0.0 |
| 85° | 12.4 | 14.9 | 17.3 | 19.8 | 29.8 | 29.8 | 22.3 | 14.9 | 7.4 | 2.4 | 0.0 |
| 87.5° | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 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)