

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: P654391

Luminaire Tested: **GLAN-SA5B-840-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P654391
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: STREETWORKS
Catalog Number: GLAN-SA5B-840-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA 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: 14311.3 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

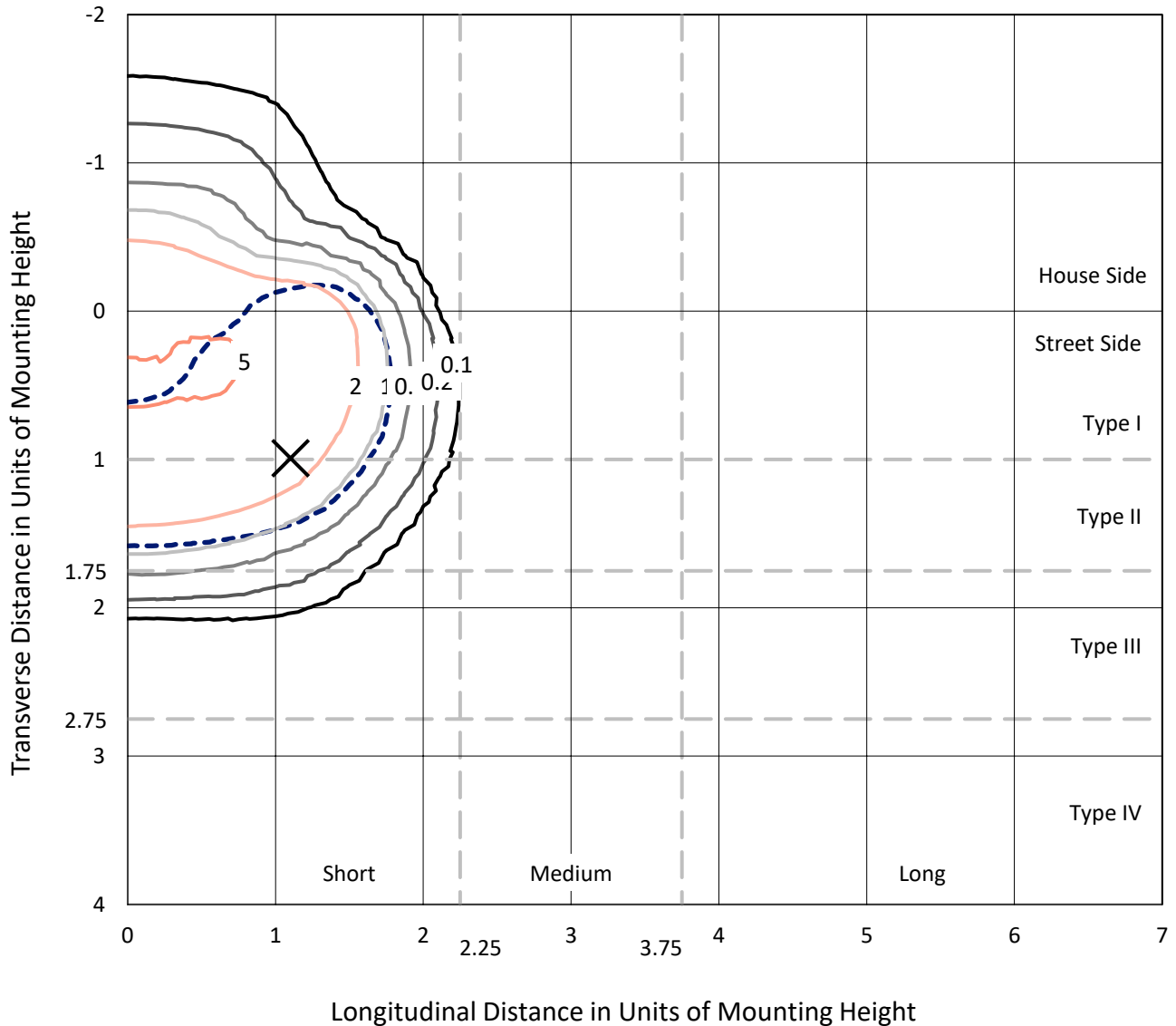
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

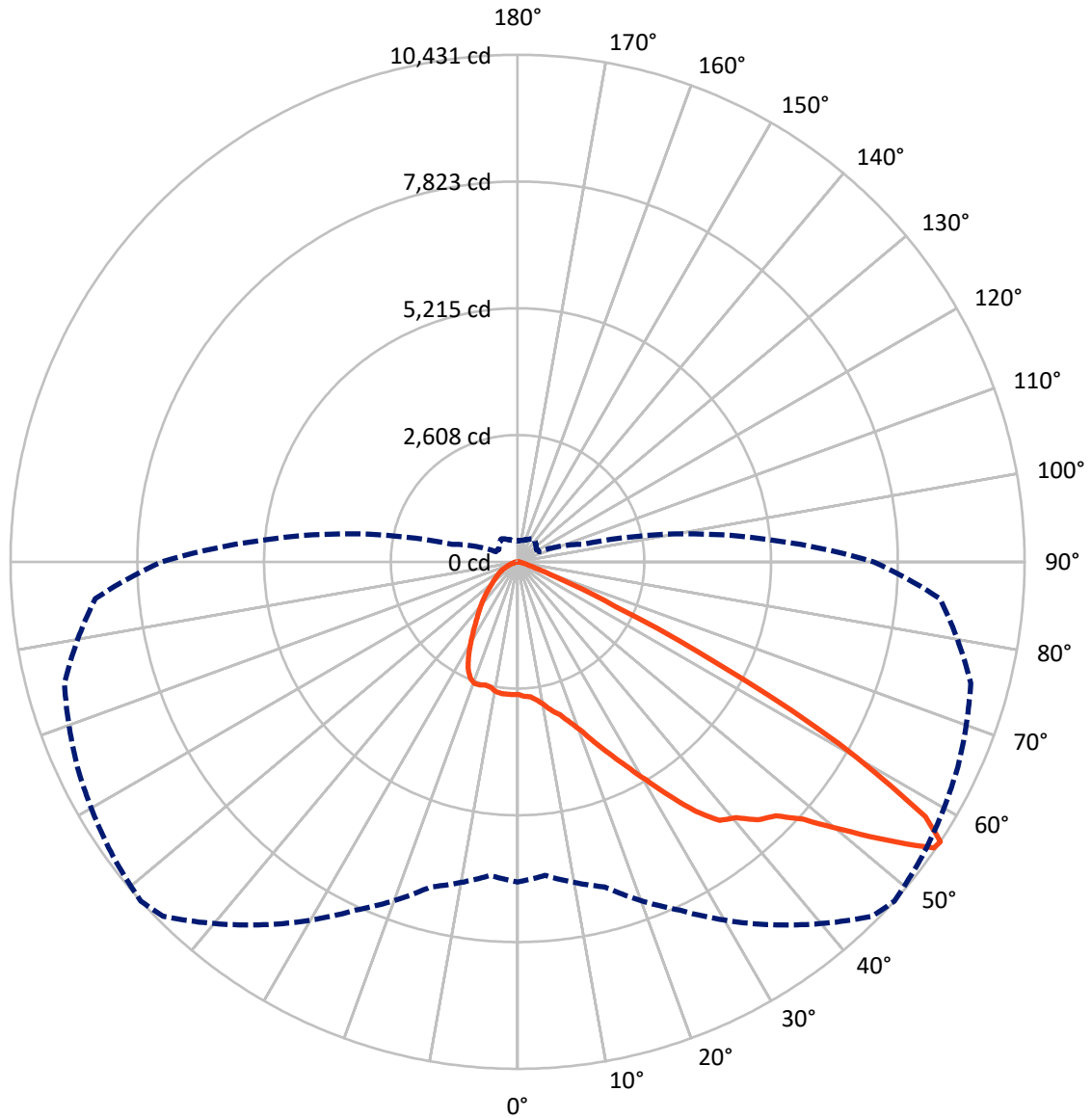
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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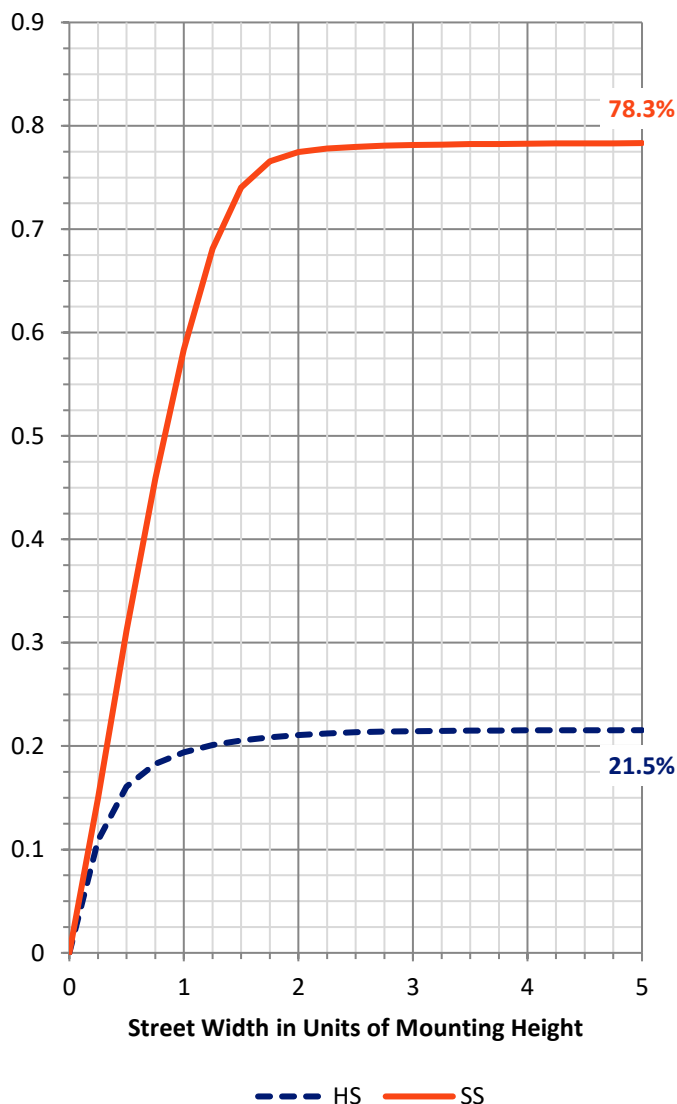
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3112.4 | 0.0 | 3112.4 |
| | % Fixture | 21.7 | 0.0 | 21.7 |
| Street Side | Lumens | 11198.9 | 0.0 | 11198.9 |
| | % Fixture | 78.3 | 0.0 | 78.3 |
| Total | Lumens | 14311.3 | 0.0 | 14311.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 266.3 | 1.9 |
| 10°-20° | 850.9 | 5.9 |
| 20°-30° | 1543.5 | 10.8 |
| 30°-40° | 2424.5 | 16.9 |
| 40°-50° | 3536.8 | 24.7 |
| 50°-60° | 4261.2 | 29.8 |
| 60°-70° | 1247.6 | 8.7 |
| 70°-80° | 158.3 | 1.1 |
| 80°-90° | 22.2 | 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° | 14311.3 | 100.0 |
| 0°-180° | 14311.3 | 100.0 |

Coefficient of Utilization

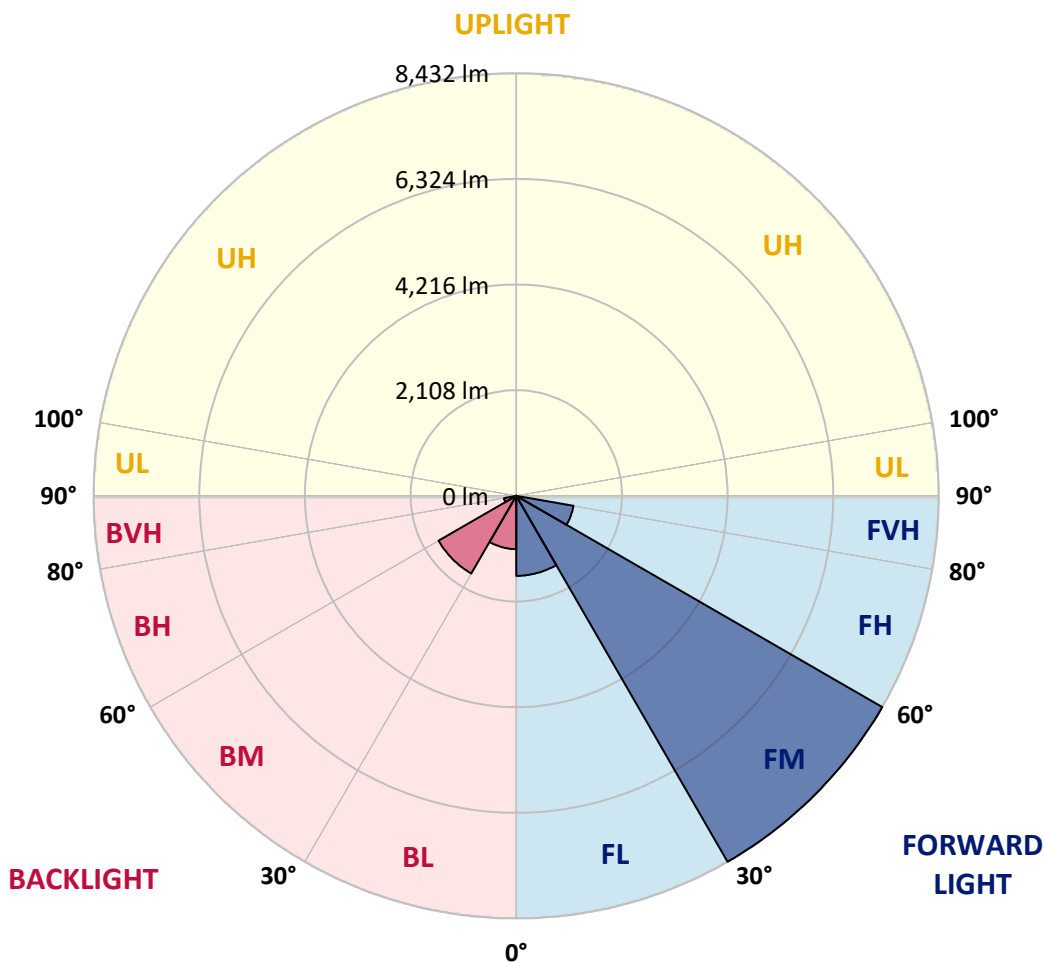


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1596.9 | 11.2 | | | |
| FM (30°-60°) | 8432.2 | 58.9 | | | |
| FH (60°-80°) | 1158.6 | 8.1 | | | G1/1800 |
| FVH (80°-90°) | 11.1 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1063.8 | 7.4 | B3/2500 | | |
| BM (30°-60°) | 1790.3 | 12.5 | B2/2500 | | |
| BH (60°-80°) | 247.3 | 1.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 11.1 | 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° | 2733.5 | 2733.5 | 2733.5 | 2733.5 | 2733.5 | 2733.5 | 2733.5 | 2733.5 | 2733.5 | 2733.5 | 2733.5 |
| 2.5° | 2783.0 | 2769.9 | 2769.9 | 2749.1 | 2772.5 | 2762.1 | 2769.9 | 2743.8 | 2769.9 | 2730.9 | 2762.1 |
| 5° | 2796.0 | 2798.6 | 2788.2 | 2801.2 | 2801.2 | 2816.8 | 2790.8 | 2814.2 | 2827.3 | 2798.6 | 2785.6 |
| 7.5° | 2863.8 | 2869.0 | 2866.4 | 2856.0 | 2876.8 | 2874.2 | 2871.6 | 2853.3 | 2858.6 | 2848.1 | 2832.5 |
| 10° | 2996.7 | 2994.0 | 3007.1 | 2981.0 | 2965.4 | 2983.6 | 2988.8 | 2960.2 | 2939.3 | 2931.5 | 2882.0 |
| 12.5° | 3189.5 | 3158.2 | 3140.0 | 3113.9 | 3121.7 | 3095.6 | 3142.6 | 3093.0 | 3082.6 | 3035.8 | 2986.2 |
| 15° | 3345.8 | 3340.6 | 3343.2 | 3301.5 | 3254.6 | 3265.0 | 3265.0 | 3239.0 | 3223.4 | 3166.0 | 3095.6 |
| 17.5° | 3666.3 | 3556.9 | 3580.3 | 3528.2 | 3489.1 | 3486.5 | 3463.1 | 3468.3 | 3426.6 | 3306.7 | 3199.9 |
| 20° | 3916.5 | 3869.6 | 3833.1 | 3744.5 | 3684.6 | 3702.8 | 3692.4 | 3666.3 | 3653.3 | 3497.0 | 3345.8 |
| 22.5° | 4140.6 | 4156.2 | 4096.3 | 4072.8 | 3989.5 | 3997.3 | 4018.1 | 3994.7 | 3895.7 | 3734.1 | 3510.0 |
| 25° | 4455.9 | 4437.6 | 4356.9 | 4328.2 | 4250.0 | 4278.7 | 4359.5 | 4341.2 | 4278.7 | 3986.8 | 3637.7 |
| 27.5° | 4828.5 | 4765.9 | 4781.6 | 4651.3 | 4575.7 | 4656.5 | 4752.9 | 4844.2 | 4667.0 | 4283.9 | 3788.8 |
| 30° | 5091.7 | 5026.6 | 5021.4 | 5016.1 | 4997.9 | 5091.7 | 5203.8 | 5287.1 | 5143.8 | 4580.9 | 4039.0 |
| 32.5° | 5222.0 | 5237.6 | 5281.9 | 5266.3 | 5425.2 | 5618.0 | 5735.3 | 5855.2 | 5675.4 | 5065.7 | 4369.9 |
| 35° | 5568.5 | 5469.5 | 5568.5 | 5578.9 | 5743.1 | 6152.3 | 6300.8 | 6587.4 | 6543.1 | 5750.9 | 4773.8 |
| 37.5° | 5771.8 | 5764.0 | 5777.0 | 5876.1 | 6035.0 | 6540.5 | 6751.5 | 6973.1 | 6889.7 | 6162.7 | 5276.7 |
| 40° | 6107.9 | 6128.8 | 6126.2 | 6201.8 | 6376.4 | 6832.4 | 6918.3 | 7098.1 | 7105.9 | 6733.3 | 6016.8 |
| 42.5° | 6647.3 | 6563.9 | 6509.3 | 6587.4 | 6832.4 | 7085.1 | 7257.1 | 7220.7 | 7478.6 | 7426.5 | 6967.9 |
| 45° | 7132.0 | 7181.6 | 7100.7 | 7231.0 | 7319.6 | 7455.1 | 7449.9 | 7528.1 | 7856.5 | 8104.0 | 7684.5 |
| 47.5° | 7585.4 | 7616.7 | 7655.8 | 7744.3 | 7937.2 | 7958.0 | 7913.7 | 7879.9 | 8333.3 | 8588.6 | 8239.4 |
| 50° | 7856.5 | 7885.1 | 8067.5 | 8226.4 | 8586.0 | 8632.9 | 8659.0 | 8573.0 | 8880.5 | 8909.1 | 8763.2 |
| 52.5° | 7783.5 | 7814.7 | 8070.1 | 8593.8 | 9167.2 | 9597.1 | 9518.9 | 9373.0 | 9354.8 | 9466.8 | 9247.9 |
| 55° | 7137.2 | 7108.6 | 7460.3 | 8275.9 | 9349.6 | 10381.5 | 10391.8 | 10238.1 | 9943.6 | 9868.1 | 9175.0 |
| 56° | 6587.4 | 6475.4 | 6923.5 | 7908.5 | 9115.0 | 10313.7 | 10430.9 | 10266.8 | 9990.6 | 9651.8 | 8724.1 |
| 57.5° | 5396.6 | 5503.4 | 5949.0 | 6764.6 | 8304.6 | 9826.4 | 9894.1 | 9855.1 | 9646.6 | 9078.5 | 7676.6 |
| 60° | 2975.8 | 3163.4 | 3556.9 | 4554.9 | 5912.5 | 7541.2 | 7595.8 | 7913.7 | 7952.8 | 6952.2 | 5281.9 |
| 62.5° | 1263.8 | 1243.0 | 1652.1 | 2386.9 | 3366.7 | 4552.3 | 4653.9 | 4979.6 | 5039.6 | 4007.7 | 2650.1 |
| 65° | 513.3 | 542.0 | 747.8 | 1201.3 | 1779.7 | 2074.2 | 2217.5 | 2324.4 | 2522.4 | 1654.7 | 977.2 |
| 67.5° | 338.8 | 336.1 | 440.3 | 685.3 | 958.9 | 925.0 | 925.0 | 977.2 | 904.2 | 674.9 | 422.1 |
| 70° | 242.4 | 250.1 | 315.3 | 474.2 | 596.7 | 443.0 | 424.7 | 406.5 | 461.2 | 445.6 | 341.4 |
| 72.5° | 158.9 | 169.4 | 211.1 | 284.0 | 310.1 | 242.4 | 242.4 | 291.8 | 380.5 | 359.6 | 278.8 |
| 75° | 104.2 | 106.8 | 130.3 | 164.2 | 153.7 | 125.1 | 138.1 | 195.4 | 276.2 | 265.8 | 198.1 |
| 77.5° | 70.4 | 73.0 | 88.6 | 106.8 | 86.0 | 70.4 | 75.6 | 99.0 | 135.5 | 135.5 | 104.2 |
| 80° | 26.1 | 28.7 | 36.5 | 33.9 | 39.1 | 49.5 | 54.7 | 67.8 | 80.8 | 80.8 | 70.4 |
| 82.5° | 0.0 | 2.6 | 7.8 | 18.2 | 28.7 | 39.1 | 44.3 | 52.1 | 60.0 | 67.8 | 65.2 |
| 85° | 0.0 | 2.6 | 7.8 | 13.0 | 20.9 | 23.5 | 26.1 | 18.2 | 15.6 | 15.6 | 13.0 |
| 87.5° | 0.0 | 0.0 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 5.2 | 2.6 | 2.6 |
| 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° | 2733.5 | 2733.5 | 2733.5 | 2733.5 | 2733.5 | 2733.5 | 2733.5 | 2733.5 | 2733.5 | 2733.5 | 2733.5 |
| 2.5° | 2733.5 | 2730.9 | 2730.9 | 2723.1 | 2738.7 | 2730.9 | 2736.1 | 2733.5 | 2699.6 | 2725.7 | 2707.4 |
| 5° | 2762.1 | 2780.3 | 2751.7 | 2746.5 | 2725.7 | 2733.5 | 2733.5 | 2707.4 | 2730.9 | 2728.3 | 2723.1 |
| 7.5° | 2835.1 | 2803.8 | 2772.5 | 2741.2 | 2736.1 | 2728.3 | 2699.6 | 2689.2 | 2707.4 | 2686.6 | 2717.9 |
| 10° | 2866.4 | 2871.6 | 2824.7 | 2783.0 | 2743.8 | 2689.2 | 2650.1 | 2626.6 | 2597.9 | 2629.2 | 2647.5 |
| 12.5° | 3009.7 | 2957.5 | 2876.8 | 2811.6 | 2678.8 | 2624.0 | 2584.9 | 2574.6 | 2624.0 | 2634.4 | 2616.2 |
| 15° | 3059.2 | 3051.4 | 2947.1 | 2801.2 | 2663.1 | 2597.9 | 2605.8 | 2584.9 | 2590.1 | 2564.1 | 2569.3 |
| 17.5° | 3160.8 | 3072.3 | 2949.7 | 2767.3 | 2660.5 | 2644.9 | 2597.9 | 2514.6 | 2467.7 | 2446.8 | 2465.1 |
| 20° | 3272.8 | 3186.9 | 3009.7 | 2780.3 | 2684.0 | 2642.3 | 2488.5 | 2386.9 | 2290.5 | 2238.4 | 2241.0 |
| 22.5° | 3371.9 | 3265.0 | 2983.6 | 2785.6 | 2704.8 | 2532.8 | 2347.8 | 2147.2 | 2027.3 | 1946.5 | 1949.1 |
| 25° | 3491.7 | 3340.6 | 2994.0 | 2796.0 | 2650.1 | 2358.2 | 2092.4 | 1897.0 | 1753.7 | 1699.0 | 1717.2 |
| 27.5° | 3559.5 | 3387.5 | 3051.4 | 2819.5 | 2506.8 | 2110.7 | 1824.0 | 1641.6 | 1558.3 | 1532.2 | 1529.6 |
| 30° | 3762.7 | 3491.7 | 3121.7 | 2772.5 | 2267.0 | 1844.9 | 1579.1 | 1467.0 | 1386.3 | 1362.8 | 1368.1 |
| 32.5° | 4065.1 | 3682.0 | 3213.0 | 2650.1 | 2022.1 | 1607.7 | 1420.1 | 1336.8 | 1261.2 | 1216.9 | 1211.7 |
| 35° | 4317.8 | 4007.7 | 3309.3 | 2459.8 | 1738.1 | 1425.3 | 1308.1 | 1203.9 | 1089.2 | 1039.7 | 1026.7 |
| 37.5° | 4799.8 | 4375.1 | 3288.5 | 2173.2 | 1467.0 | 1289.8 | 1188.2 | 1060.6 | 961.5 | 893.8 | 886.0 |
| 40° | 5440.8 | 4805.1 | 3186.9 | 1824.0 | 1266.4 | 1170.0 | 1060.6 | 938.1 | 815.6 | 758.2 | 753.0 |
| 42.5° | 6220.0 | 5331.4 | 3001.9 | 1469.6 | 1065.8 | 1050.2 | 951.1 | 810.4 | 701.0 | 659.3 | 661.9 |
| 45° | 6853.2 | 5782.2 | 2814.2 | 1180.4 | 917.2 | 932.8 | 846.9 | 714.0 | 638.4 | 604.5 | 604.5 |
| 47.5° | 7416.0 | 6087.1 | 2611.0 | 974.6 | 779.1 | 815.6 | 740.1 | 661.9 | 596.7 | 570.7 | 565.5 |
| 50° | 7958.0 | 6397.2 | 2407.8 | 789.5 | 664.5 | 701.0 | 693.2 | 630.6 | 578.5 | 547.2 | 549.8 |
| 52.5° | 8296.8 | 6446.7 | 2149.8 | 646.2 | 581.1 | 622.8 | 648.8 | 591.5 | 534.2 | 516.0 | 510.7 |
| 55° | 7882.5 | 5808.3 | 1667.7 | 531.6 | 492.5 | 547.2 | 596.7 | 531.6 | 487.3 | 456.0 | 453.4 |
| 56° | 7324.9 | 5193.3 | 1394.1 | 489.9 | 466.4 | 526.4 | 578.5 | 508.1 | 458.6 | 440.3 | 427.3 |
| 57.5° | 6201.8 | 4250.0 | 1029.3 | 435.1 | 432.5 | 489.9 | 549.8 | 484.7 | 427.3 | 411.8 | 411.8 |
| 60° | 3867.0 | 2392.1 | 622.8 | 364.8 | 375.3 | 435.1 | 495.1 | 432.5 | 380.5 | 380.5 | 388.3 |
| 62.5° | 1761.5 | 995.4 | 377.9 | 310.1 | 323.1 | 375.3 | 440.3 | 390.9 | 362.2 | 390.9 | 396.1 |
| 65° | 599.3 | 429.9 | 273.6 | 247.6 | 255.3 | 310.1 | 377.9 | 396.1 | 393.5 | 411.8 | 422.1 |
| 67.5° | 336.1 | 276.2 | 229.3 | 205.9 | 200.7 | 229.3 | 310.1 | 396.1 | 380.5 | 372.6 | 377.9 |
| 70° | 284.0 | 234.6 | 203.3 | 182.4 | 174.6 | 185.0 | 239.8 | 299.6 | 268.4 | 260.5 | 255.3 |
| 72.5° | 229.3 | 195.4 | 177.2 | 164.2 | 140.7 | 119.8 | 109.4 | 114.6 | 127.7 | 135.5 | 148.5 |
| 75° | 161.6 | 148.5 | 148.5 | 132.9 | 101.6 | 75.6 | 60.0 | 49.5 | 33.9 | 23.5 | 26.1 |
| 77.5° | 91.2 | 91.2 | 93.8 | 80.8 | 65.2 | 49.5 | 36.5 | 26.1 | 13.0 | 5.2 | 2.6 |
| 80° | 62.6 | 67.8 | 73.0 | 65.2 | 54.7 | 44.3 | 31.3 | 18.2 | 7.8 | 0.0 | 0.0 |
| 82.5° | 62.6 | 70.4 | 75.6 | 65.2 | 54.7 | 41.7 | 31.3 | 18.2 | 7.8 | 2.6 | 0.0 |
| 85° | 13.0 | 15.6 | 18.2 | 20.9 | 31.3 | 31.3 | 23.5 | 15.6 | 7.8 | 2.6 | 0.0 |
| 87.5° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 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)