

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: P650095

Luminaire Tested: **GLAN-SA8A-835-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650095
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8A-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21615.5 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

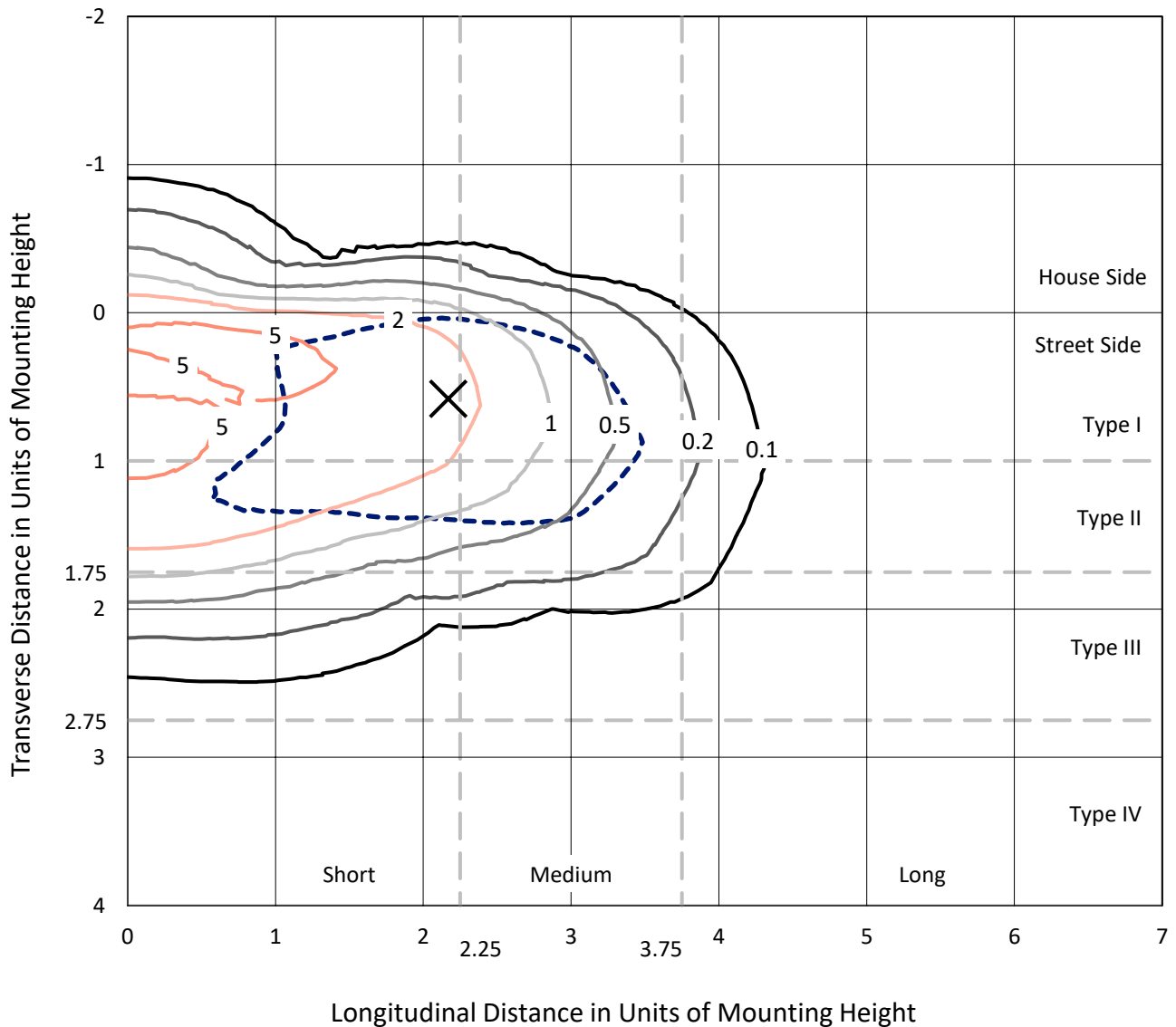
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

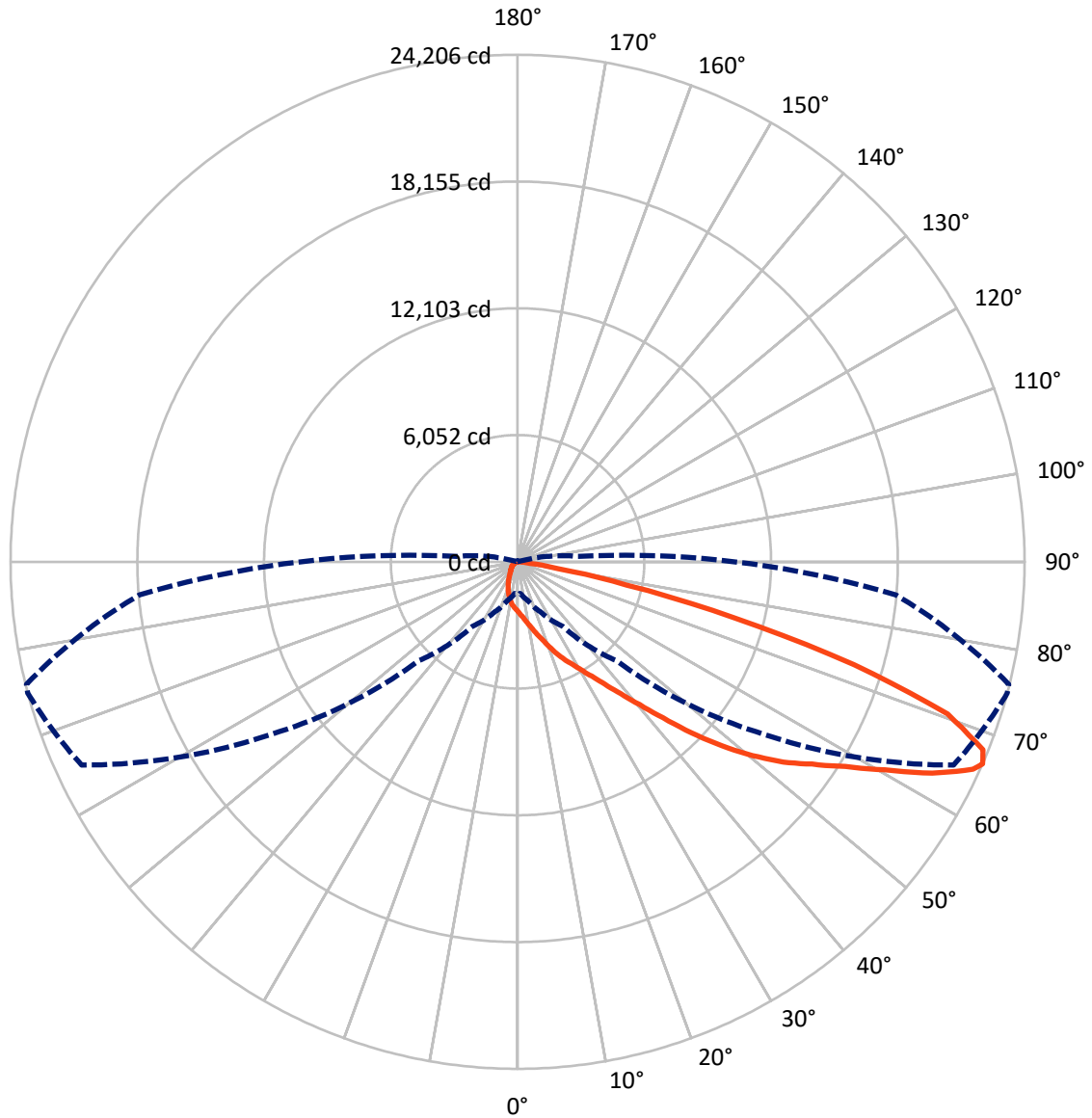
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1334.5 | 0.0 | 1334.5 |
| | % Fixture | 6.2 | 0.0 | 6.2 |
| Street Side | Lumens | 20281.1 | 0.0 | 20281.1 |
| | % Fixture | 93.8 | 0.0 | 93.8 |
| Total | Lumens | 21615.5 | 0.0 | 21615.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 228.0 | 1.1 |
| 10°-20° | 671.0 | 3.1 |
| 20°-30° | 1158.7 | 5.4 |
| 30°-40° | 2090.0 | 9.7 |
| 40°-50° | 3775.7 | 17.5 |
| 50°-60° | 5886.4 | 27.2 |
| 60°-70° | 5591.8 | 25.9 |
| 70°-80° | 2095.7 | 9.7 |
| 80°-90° | 118.2 | 0.5 |
| 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° | 21615.5 | 100.0 |
| 0°-180° | 21615.5 | 100.0 |

Coefficient of Utilization



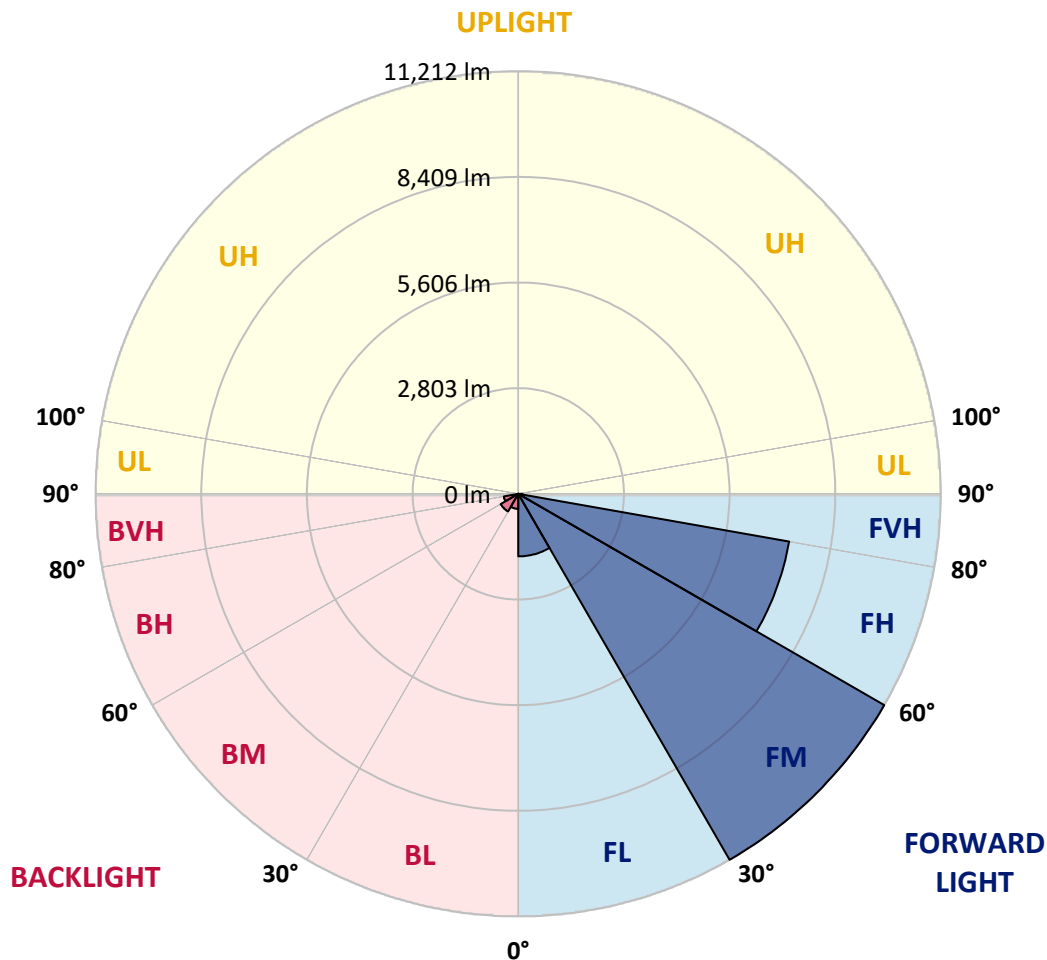
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1659.2 | 7.7 | | | |
| FM (30°-60°) | 11212.0 | 51.9 | | | |
| FH (60°-80°) | 7297.8 | 33.8 | | | G3/7500 |
| FVH (80°-90°) | 112.1 | 0.5 | | | G2/225 |
| BL (0°-30°) | 398.5 | 1.8 | B1/500 | | |
| BM (30°-60°) | 540.1 | 2.5 | B1/1000 | | |
| BH (60°-80°) | 389.7 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 6.1 | 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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2363.9 | 2363.9 | 2363.9 | 2363.9 | 2363.9 | 2363.9 | 2363.9 | 2363.9 | 2363.9 | 2363.9 | 2363.9 |
| 2.5° | 2824.2 | 2789.0 | 2800.2 | 2784.2 | 2747.5 | 2693.1 | 2645.1 | 2576.5 | 2507.7 | 2496.5 | 2419.8 |
| 5° | 3196.6 | 3187.0 | 3174.2 | 3127.9 | 3102.2 | 3019.2 | 2920.0 | 2801.8 | 2659.5 | 2634.0 | 2495.0 |
| 7.5° | 3450.7 | 3445.9 | 3452.3 | 3428.4 | 3406.0 | 3330.8 | 3225.3 | 3064.0 | 2843.4 | 2829.0 | 2597.2 |
| 10° | 3533.8 | 3546.6 | 3570.6 | 3608.9 | 3644.1 | 3620.1 | 3540.2 | 3338.8 | 3081.5 | 3039.9 | 2713.9 |
| 12.5° | 3485.8 | 3500.2 | 3557.8 | 3660.1 | 3773.6 | 3839.1 | 3807.1 | 3660.1 | 3334.0 | 3300.5 | 2845.0 |
| 15° | 3362.8 | 3380.4 | 3461.9 | 3620.1 | 3823.1 | 4008.5 | 4088.4 | 3983.0 | 3628.1 | 3573.8 | 3003.2 |
| 17.5° | 3180.6 | 3206.2 | 3322.8 | 3532.2 | 3810.3 | 4130.0 | 4355.4 | 4320.2 | 3941.4 | 3890.3 | 3175.8 |
| 20° | 3043.1 | 3062.3 | 3161.4 | 3401.2 | 3756.0 | 4197.1 | 4609.4 | 4708.6 | 4328.2 | 4240.3 | 3378.8 |
| 22.5° | 3134.3 | 3140.6 | 3174.2 | 3318.0 | 3658.5 | 4214.7 | 4833.2 | 5112.9 | 4739.0 | 4660.6 | 3589.7 |
| 25° | 3580.2 | 3516.2 | 3482.7 | 3450.7 | 3637.7 | 4198.7 | 5036.2 | 5534.9 | 5148.1 | 5065.0 | 3799.1 |
| 27.5° | 4283.4 | 4254.7 | 4085.2 | 3858.2 | 3815.1 | 4219.5 | 5170.5 | 5934.4 | 5533.3 | 5443.8 | 4003.7 |
| 30° | 5049.0 | 4999.5 | 4895.6 | 4563.1 | 4229.1 | 4366.6 | 5267.9 | 6322.8 | 5988.8 | 5870.5 | 4190.7 |
| 32.5° | 5752.2 | 5784.2 | 5629.1 | 5287.1 | 4900.3 | 4679.8 | 5394.2 | 6746.4 | 6511.4 | 6364.4 | 4408.1 |
| 35° | 6572.2 | 6636.1 | 6398.0 | 6070.3 | 5617.9 | 5245.6 | 5640.3 | 7224.3 | 7174.7 | 6989.3 | 4743.7 |
| 37.5° | 7404.8 | 7443.2 | 7297.8 | 6837.5 | 6429.9 | 5964.8 | 6103.9 | 7814.0 | 7991.5 | 7833.2 | 5144.9 |
| 40° | 8104.9 | 8157.7 | 8050.6 | 7641.5 | 7206.7 | 6797.5 | 6776.7 | 8456.6 | 8963.2 | 8800.1 | 5742.7 |
| 42.5° | 8640.3 | 8680.3 | 8683.5 | 8394.2 | 8002.7 | 7817.2 | 7635.0 | 9276.4 | 10181.1 | 9992.5 | 6436.3 |
| 45° | 9316.4 | 9374.0 | 9340.4 | 9143.8 | 8851.3 | 8817.8 | 8723.5 | 10267.4 | 11638.7 | 11400.6 | 7336.2 |
| 47.5° | 10361.7 | 10400.0 | 10317.0 | 10085.2 | 9787.9 | 9840.7 | 9784.8 | 11378.2 | 13125.1 | 12920.6 | 8267.9 |
| 50° | 11087.4 | 11151.3 | 11269.6 | 11362.3 | 11146.5 | 10951.5 | 10785.3 | 12415.5 | 14536.4 | 14352.6 | 9220.5 |
| 52.5° | 11079.4 | 11184.8 | 11558.8 | 12025.5 | 12497.0 | 12437.9 | 11960.0 | 13561.5 | 15883.8 | 15656.9 | 10115.6 |
| 55° | 10332.9 | 10537.5 | 11087.4 | 11915.2 | 13221.0 | 13871.5 | 13654.2 | 14888.0 | 17047.3 | 16893.9 | 11152.8 |
| 57.5° | 8792.2 | 8916.9 | 9680.9 | 10838.0 | 12816.7 | 14546.0 | 15616.9 | 16686.1 | 18442.6 | 18370.7 | 12763.9 |
| 60° | 5913.7 | 5969.6 | 6952.6 | 8383.0 | 10911.5 | 13873.1 | 17055.3 | 18861.4 | 20160.8 | 20125.7 | 14645.2 |
| 62.5° | 3388.4 | 3412.3 | 4125.2 | 5331.9 | 7764.5 | 11757.0 | 17176.8 | 21544.9 | 22221.0 | 22240.2 | 16822.0 |
| 65° | 1823.7 | 1836.4 | 2411.8 | 3129.4 | 4724.5 | 8379.8 | 15445.8 | 23015.3 | 23886.4 | 23923.2 | 18170.9 |
| 66° | 1574.3 | 1513.6 | 1919.5 | 2667.5 | 3759.2 | 6669.7 | 14351.1 | 22962.6 | 24206.1 | 24166.1 | 18123.0 |
| 67.5° | 1197.1 | 1251.5 | 1532.7 | 2050.6 | 2785.8 | 4742.1 | 11848.1 | 21941.3 | 23963.2 | 23838.4 | 17386.2 |
| 70° | 856.7 | 879.1 | 1091.7 | 1462.4 | 1897.1 | 2602.0 | 7571.1 | 18223.7 | 21779.8 | 21612.1 | 15147.0 |
| 72.5° | 553.0 | 577.0 | 773.6 | 1058.1 | 1371.3 | 1420.9 | 4238.7 | 13166.7 | 16791.6 | 16767.6 | 11407.0 |
| 75° | 394.8 | 417.2 | 511.5 | 757.6 | 1030.9 | 879.1 | 2041.0 | 8873.7 | 10675.0 | 10603.1 | 7056.5 |
| 77.5° | 286.1 | 297.3 | 342.0 | 495.5 | 736.8 | 629.7 | 946.2 | 4739.0 | 5314.3 | 5565.3 | 3118.3 |
| 80° | 164.6 | 174.2 | 238.1 | 302.1 | 498.7 | 429.9 | 452.3 | 1902.0 | 1961.1 | 1866.8 | 975.0 |
| 82.5° | 81.5 | 92.7 | 142.3 | 206.2 | 311.6 | 289.3 | 207.8 | 572.2 | 604.2 | 588.2 | 246.2 |
| 85° | 19.2 | 24.0 | 79.9 | 135.9 | 151.8 | 129.4 | 100.7 | 167.8 | 207.8 | 203.0 | 94.3 |
| 87.5° | 1.6 | 3.2 | 28.7 | 24.0 | 25.6 | 43.1 | 35.2 | 43.1 | 67.1 | 62.3 | 33.6 |
| 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° | 2363.9 | 2363.9 | 2363.9 | 2363.9 | 2363.9 | 2363.9 | 2363.9 | 2363.9 | 2363.9 | 2363.9 | 2363.9 |
| 2.5° | 2384.6 | 2354.2 | 2266.4 | 2180.0 | 2108.1 | 2033.1 | 1964.3 | 1924.3 | 1908.3 | 1890.8 | 1898.8 |
| 5° | 2418.2 | 2344.7 | 2167.3 | 2013.9 | 1863.6 | 1735.8 | 1633.4 | 1568.0 | 1535.9 | 1531.2 | 1523.2 |
| 7.5° | 2462.9 | 2336.7 | 2061.8 | 1822.0 | 1625.4 | 1483.2 | 1366.6 | 1272.2 | 1243.5 | 1217.9 | 1197.1 |
| 10° | 2517.3 | 2322.3 | 1930.7 | 1620.7 | 1411.3 | 1232.3 | 1078.8 | 966.9 | 909.5 | 893.5 | 904.6 |
| 12.5° | 2574.8 | 2295.1 | 1793.3 | 1435.2 | 1193.9 | 965.4 | 823.1 | 767.2 | 751.2 | 744.8 | 746.4 |
| 15° | 2632.4 | 2261.5 | 1649.5 | 1256.2 | 951.0 | 770.4 | 704.9 | 690.4 | 684.0 | 680.9 | 677.7 |
| 17.5° | 2685.1 | 2207.2 | 1488.0 | 1082.0 | 770.4 | 658.5 | 634.5 | 621.7 | 608.9 | 604.2 | 596.2 |
| 20° | 2747.5 | 2144.9 | 1342.5 | 887.1 | 652.1 | 596.2 | 567.4 | 543.4 | 524.2 | 511.5 | 509.9 |
| 22.5° | 2806.6 | 2065.0 | 1190.7 | 735.2 | 594.5 | 535.4 | 489.1 | 463.5 | 441.1 | 425.2 | 429.9 |
| 25° | 2838.5 | 1967.5 | 1054.9 | 640.9 | 541.8 | 474.7 | 423.5 | 391.6 | 367.6 | 359.6 | 358.0 |
| 27.5° | 2838.5 | 1847.6 | 922.2 | 586.5 | 493.8 | 420.3 | 367.6 | 337.2 | 321.3 | 310.1 | 311.6 |
| 30° | 2816.2 | 1714.9 | 799.1 | 545.0 | 452.3 | 372.4 | 322.8 | 295.7 | 282.9 | 274.9 | 273.3 |
| 32.5° | 2798.6 | 1588.7 | 693.7 | 505.0 | 409.2 | 330.8 | 287.7 | 266.9 | 254.2 | 246.2 | 246.2 |
| 35° | 2825.8 | 1480.0 | 612.1 | 465.1 | 369.2 | 298.9 | 260.5 | 241.3 | 228.6 | 222.1 | 220.6 |
| 37.5° | 2897.7 | 1380.9 | 549.8 | 422.0 | 332.5 | 271.7 | 241.3 | 218.9 | 206.2 | 198.2 | 195.0 |
| 40° | 3075.1 | 1325.0 | 503.5 | 382.0 | 297.3 | 249.3 | 218.9 | 198.2 | 182.2 | 174.2 | 172.7 |
| 42.5° | 3359.6 | 1326.6 | 458.7 | 345.2 | 270.1 | 230.1 | 199.8 | 175.8 | 158.2 | 150.3 | 148.6 |
| 45° | 3787.9 | 1387.3 | 423.5 | 310.1 | 246.2 | 209.4 | 179.0 | 153.5 | 137.4 | 129.4 | 129.4 |
| 47.5° | 4301.0 | 1505.6 | 393.1 | 279.7 | 223.8 | 190.2 | 158.2 | 132.6 | 116.7 | 110.2 | 110.2 |
| 50° | 4857.2 | 1659.0 | 362.8 | 247.7 | 204.6 | 169.4 | 135.9 | 115.1 | 102.3 | 97.5 | 97.5 |
| 52.5° | 5424.6 | 1844.4 | 332.5 | 222.1 | 183.8 | 147.0 | 116.7 | 102.3 | 91.1 | 87.9 | 86.3 |
| 55° | 6169.4 | 2081.0 | 300.5 | 195.0 | 161.5 | 126.3 | 103.9 | 89.5 | 76.7 | 72.0 | 70.3 |
| 57.5° | 7315.3 | 2437.4 | 265.3 | 171.0 | 132.6 | 105.5 | 89.5 | 75.1 | 60.8 | 52.8 | 51.1 |
| 60° | 8697.9 | 2872.1 | 228.6 | 150.3 | 107.1 | 86.3 | 72.0 | 57.6 | 44.8 | 35.2 | 33.6 |
| 62.5° | 9992.5 | 3148.6 | 193.4 | 126.3 | 84.7 | 65.5 | 51.1 | 43.1 | 31.9 | 22.4 | 20.7 |
| 65° | 10564.7 | 3055.9 | 159.8 | 102.3 | 67.1 | 46.4 | 33.6 | 30.4 | 19.2 | 9.6 | 8.0 |
| 66° | 10374.5 | 2918.5 | 147.0 | 92.7 | 60.8 | 39.9 | 28.7 | 25.6 | 14.4 | 4.8 | 4.8 |
| 67.5° | 9813.5 | 2594.0 | 127.9 | 79.9 | 52.8 | 31.9 | 22.4 | 19.2 | 8.0 | 1.6 | 0.0 |
| 70° | 8408.6 | 2098.5 | 100.7 | 59.1 | 38.4 | 22.4 | 12.8 | 9.6 | 4.8 | 0.0 | 0.0 |
| 72.5° | 6458.7 | 1563.1 | 79.9 | 44.8 | 27.2 | 12.8 | 6.4 | 3.2 | 4.8 | 0.0 | 0.0 |
| 75° | 3957.4 | 893.5 | 62.3 | 33.6 | 17.6 | 8.0 | 4.8 | 0.0 | 4.8 | 1.6 | 0.0 |
| 77.5° | 1756.5 | 401.2 | 41.6 | 22.4 | 12.8 | 6.4 | 3.2 | 0.0 | 3.2 | 1.6 | 0.0 |
| 80° | 444.4 | 131.1 | 24.0 | 16.0 | 9.6 | 4.8 | 1.6 | 0.0 | 3.2 | 3.2 | 1.6 |
| 82.5° | 121.4 | 47.9 | 17.6 | 12.8 | 8.0 | 4.8 | 1.6 | 0.0 | 3.2 | 3.2 | 3.2 |
| 85° | 47.9 | 22.4 | 16.0 | 12.8 | 9.6 | 4.8 | 1.6 | 0.0 | 3.2 | 3.2 | 3.2 |
| 87.5° | 22.4 | 16.0 | 16.0 | 14.4 | 11.2 | 4.8 | 1.6 | 0.0 | 3.2 | 1.6 | 3.2 |
| 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)