

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: P650564

Luminaire Tested: **GLAN-SA8B-835-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8B-835-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29476.8 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

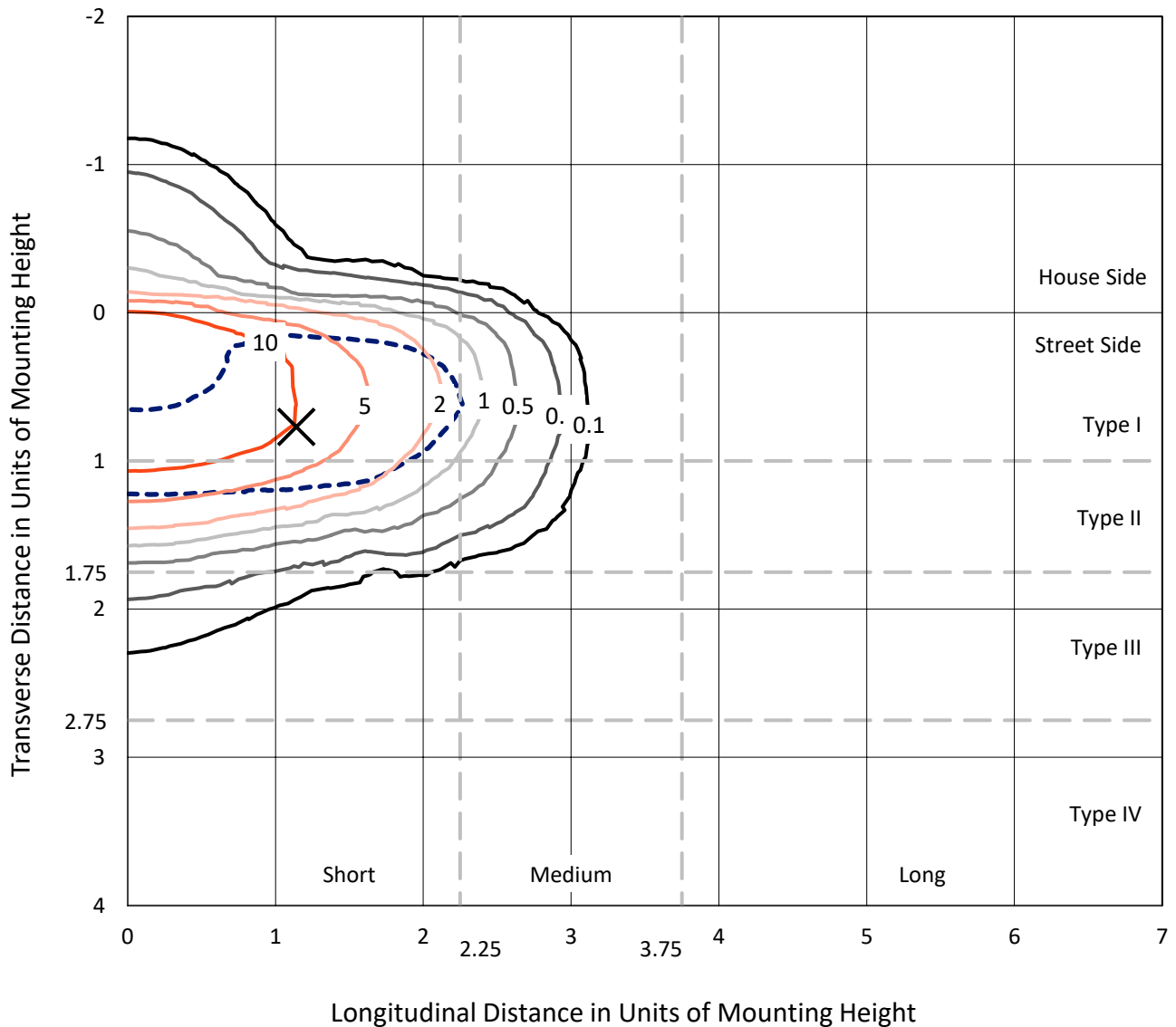
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

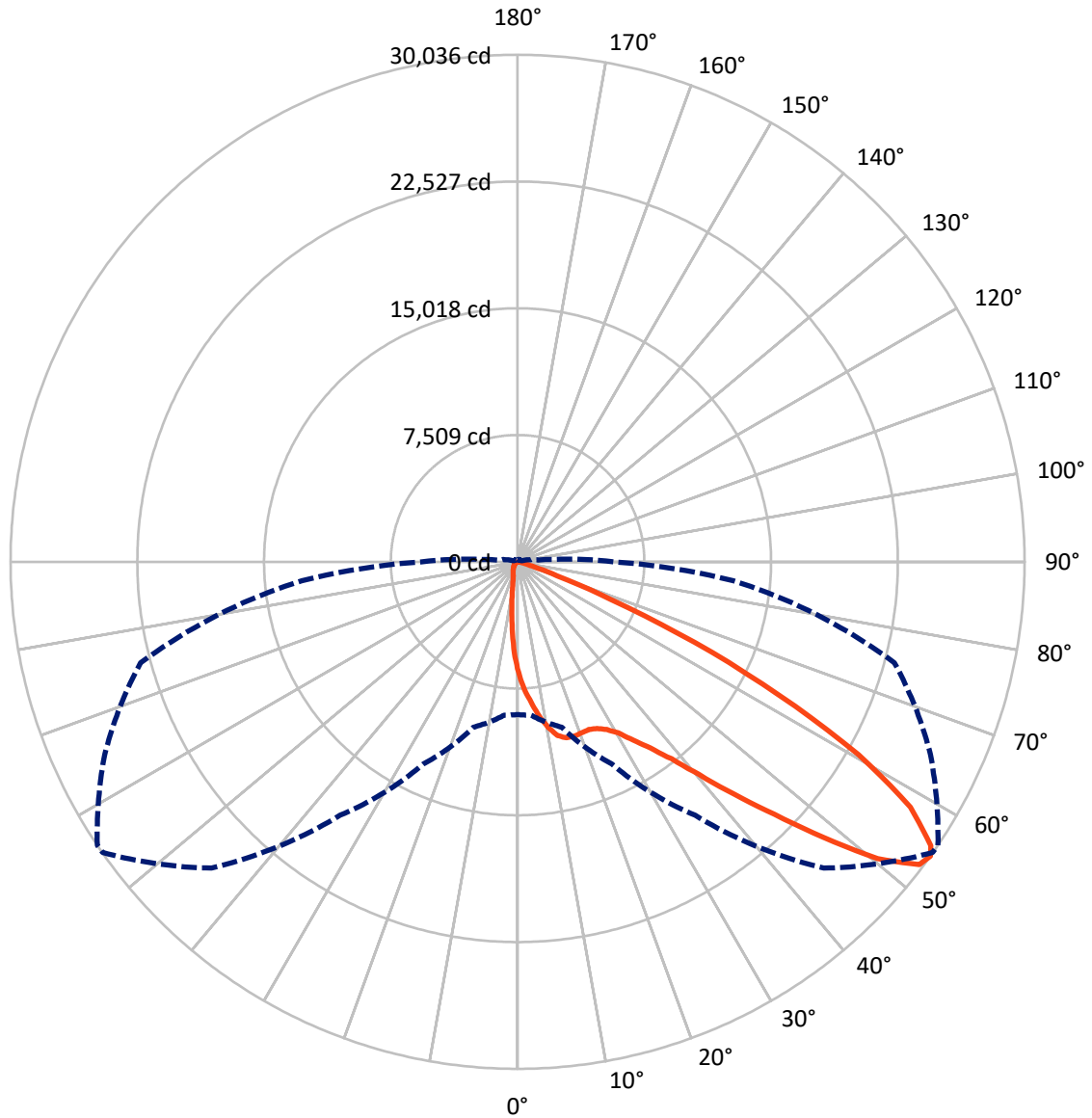
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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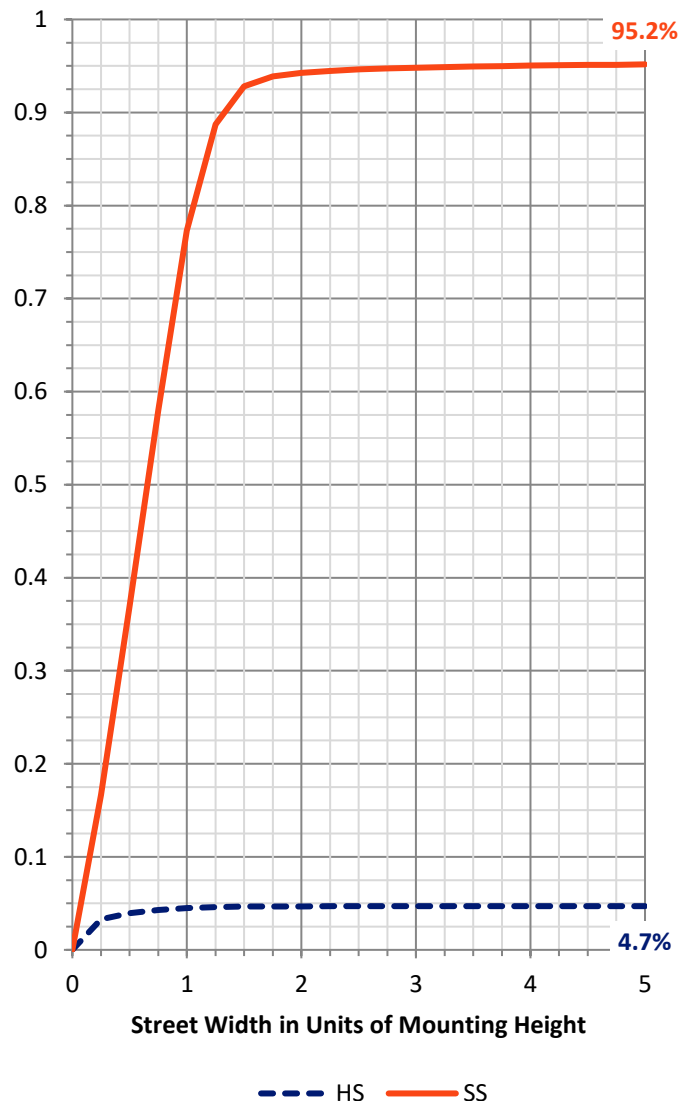
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1393.9 | 0.0 | 1393.9 |
| | % Fixture | 4.7 | 0.0 | 4.7 |
| Street Side | Lumens | 28082.9 | 0.0 | 28082.9 |
| | % Fixture | 95.3 | 0.0 | 95.3 |
| Total | Lumens | 29476.8 | 0.0 | 29476.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 578.7 | 2.0 |
| 10°-20° | 1564.4 | 5.3 |
| 20°-30° | 2709.4 | 9.2 |
| 30°-40° | 4676.9 | 15.9 |
| 40°-50° | 7960.3 | 27.0 |
| 50°-60° | 7877.7 | 26.7 |
| 60°-70° | 3595.5 | 12.2 |
| 70°-80° | 461.8 | 1.6 |
| 80°-90° | 52.0 | 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° | 29476.8 | 100.0 |
| 0°-180° | 29476.8 | 100.0 |

Coefficient of Utilization



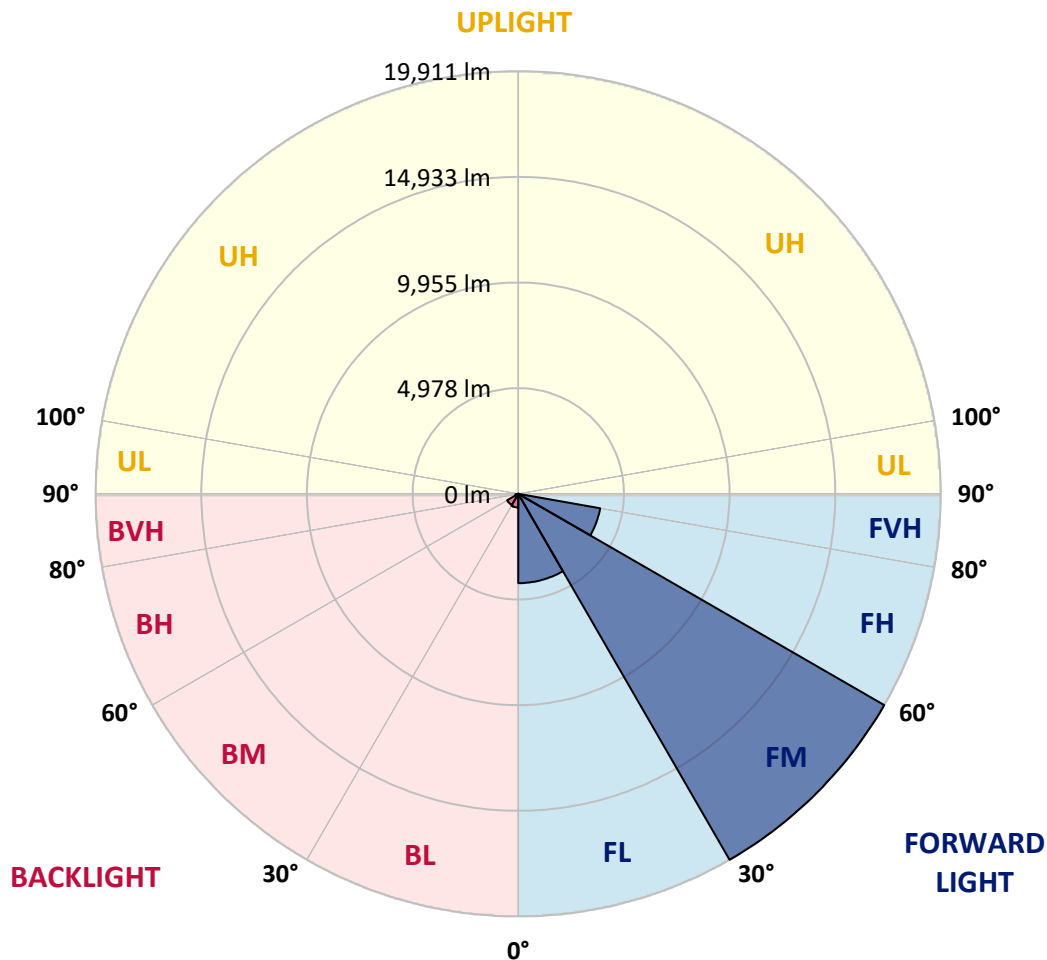
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4207.9 | 14.3 | | | |
| FM (30°-60°) | 19910.8 | 67.5 | | | |
| FH (60°-80°) | 3917.7 | 13.3 | | | G2/5000 |
| FVH (80°-90°) | 46.5 | 0.2 | | | G1/100 |
| BL (0°-30°) | 644.6 | 2.2 | B2/1000 | | |
| BM (30°-60°) | 604.1 | 2.0 | B1/1000 | | |
| BH (60°-80°) | 139.6 | 0.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6548.9 | 6548.9 | 6548.9 | 6548.9 | 6548.9 | 6548.9 | 6548.9 | 6548.9 | 6548.9 | 6548.9 | 6548.9 |
| 2.5° | 8322.8 | 8265.2 | 8185.6 | 8124.0 | 7978.8 | 7770.0 | 7549.2 | 7549.2 | 7336.5 | 7040.1 | 6737.8 |
| 5° | 9599.7 | 9561.8 | 9484.2 | 9325.1 | 9162.1 | 8869.7 | 8426.3 | 8348.7 | 7968.8 | 7431.9 | 6867.1 |
| 7.5° | 10118.7 | 10136.6 | 10140.6 | 10098.8 | 10021.2 | 9732.8 | 9293.3 | 9239.6 | 8633.1 | 7913.2 | 7036.1 |
| 10° | 9621.5 | 9709.0 | 9794.5 | 9967.5 | 10212.1 | 10281.7 | 10033.1 | 9977.5 | 9380.9 | 8400.4 | 7219.1 |
| 12.5° | 8881.7 | 8929.4 | 8977.2 | 9249.6 | 9740.8 | 10303.7 | 10564.2 | 10562.2 | 10057.0 | 8885.6 | 7451.8 |
| 15° | 8537.6 | 8579.4 | 8583.4 | 8704.7 | 9130.2 | 9949.7 | 10790.8 | 10820.7 | 10717.3 | 9484.2 | 7702.4 |
| 17.5° | 8609.2 | 8643.1 | 8615.2 | 8645.0 | 8867.8 | 9559.9 | 10765.0 | 10864.4 | 11252.3 | 10059.0 | 7929.0 |
| 20° | 9076.6 | 9142.2 | 9034.8 | 8951.3 | 9018.9 | 9456.4 | 10677.5 | 10816.8 | 11630.1 | 10619.8 | 8135.9 |
| 22.5° | 9915.8 | 9951.6 | 9816.4 | 9587.7 | 9468.3 | 9673.2 | 10653.7 | 10790.8 | 11952.3 | 11079.2 | 8255.2 |
| 25° | 10848.5 | 10836.6 | 10687.5 | 10430.9 | 10180.3 | 10110.7 | 10810.7 | 10934.0 | 12218.8 | 11492.9 | 8291.0 |
| 27.5° | 11781.3 | 11817.0 | 11566.5 | 11248.3 | 10948.0 | 10767.0 | 11162.8 | 11254.2 | 12519.1 | 11964.2 | 8334.8 |
| 30° | 12865.2 | 12807.5 | 12560.8 | 12196.9 | 11852.8 | 11600.3 | 11729.6 | 11755.4 | 12932.7 | 12588.7 | 8450.1 |
| 32.5° | 14275.1 | 14116.0 | 13839.6 | 13203.2 | 12956.6 | 12529.0 | 12560.8 | 12592.7 | 13435.9 | 13207.2 | 8589.4 |
| 35° | 16188.3 | 16180.3 | 15639.4 | 14782.3 | 14181.7 | 13650.7 | 13511.4 | 13537.3 | 14197.6 | 14125.9 | 8897.6 |
| 37.5° | 18491.2 | 18523.0 | 17906.6 | 17043.5 | 15937.7 | 15094.5 | 14808.1 | 14812.1 | 15355.0 | 15394.8 | 9367.0 |
| 40° | 20366.6 | 20450.2 | 20082.2 | 19499.5 | 18407.7 | 17089.2 | 16607.9 | 16564.1 | 16981.8 | 16932.1 | 10037.1 |
| 42.5° | 21174.0 | 21251.6 | 21388.8 | 21591.7 | 20991.1 | 19903.2 | 18767.6 | 18827.3 | 18954.6 | 18606.6 | 10788.9 |
| 45° | 20778.3 | 20901.6 | 21440.6 | 22693.5 | 23258.2 | 22892.3 | 21538.0 | 21329.2 | 20790.2 | 20426.3 | 11544.6 |
| 47.5° | 19129.6 | 19429.9 | 20330.8 | 22417.0 | 24393.8 | 25630.8 | 24664.3 | 24387.9 | 22627.8 | 21754.8 | 12025.9 |
| 50° | 16419.0 | 16436.9 | 17691.8 | 20358.7 | 23805.2 | 27359.0 | 27856.2 | 27649.4 | 24340.1 | 22500.5 | 12268.5 |
| 52.5° | 11902.5 | 12294.4 | 13443.9 | 16532.3 | 21255.6 | 27096.5 | 29890.7 | 29805.1 | 26106.1 | 22882.4 | 12618.5 |
| 54° | 9048.7 | 9124.3 | 10146.5 | 13211.2 | 18326.2 | 25654.7 | 30016.0 | 30035.9 | 26983.1 | 23113.1 | 12825.4 |
| 55° | 7418.0 | 7237.0 | 8310.9 | 11254.2 | 16327.5 | 24379.9 | 29606.2 | 29701.8 | 27376.9 | 23232.4 | 12978.5 |
| 57.5° | 3516.1 | 3518.1 | 4339.4 | 5936.4 | 10226.1 | 18930.7 | 27102.4 | 27440.5 | 27420.7 | 23437.2 | 13449.8 |
| 60° | 1779.9 | 1791.8 | 1972.8 | 2740.5 | 5051.4 | 12584.7 | 22409.1 | 23214.5 | 25310.6 | 23467.1 | 13604.9 |
| 62.5° | 1245.0 | 1231.0 | 1201.2 | 1318.5 | 2125.9 | 6395.8 | 16683.5 | 17383.5 | 21504.2 | 22331.5 | 13111.7 |
| 65° | 1066.0 | 1036.1 | 952.6 | 934.7 | 1073.9 | 2547.6 | 10391.1 | 11532.7 | 16419.0 | 19336.5 | 11707.7 |
| 67.5° | 910.9 | 898.9 | 823.3 | 777.6 | 759.7 | 1109.7 | 5361.6 | 5962.2 | 11222.4 | 13899.3 | 8867.8 |
| 70° | 773.6 | 767.7 | 721.9 | 664.2 | 614.5 | 664.2 | 1988.7 | 2464.0 | 6254.6 | 7483.6 | 4184.3 |
| 72.5° | 628.4 | 634.4 | 642.4 | 568.8 | 517.1 | 471.4 | 849.2 | 988.4 | 2617.2 | 2674.9 | 1463.7 |
| 75° | 550.8 | 544.9 | 544.9 | 495.2 | 431.6 | 350.0 | 467.4 | 503.2 | 801.5 | 743.8 | 340.1 |
| 77.5° | 387.8 | 373.9 | 437.5 | 407.7 | 359.9 | 248.6 | 266.5 | 282.4 | 332.1 | 284.4 | 159.1 |
| 80° | 268.5 | 268.5 | 280.4 | 365.9 | 324.2 | 181.0 | 163.1 | 175.0 | 196.8 | 169.0 | 91.5 |
| 82.5° | 151.1 | 155.1 | 183.0 | 194.9 | 188.9 | 121.3 | 107.4 | 109.4 | 131.2 | 115.3 | 57.7 |
| 85° | 17.9 | 29.8 | 105.4 | 103.4 | 77.6 | 53.7 | 59.7 | 61.6 | 81.5 | 71.6 | 33.8 |
| 87.5° | 2.0 | 4.0 | 21.8 | 27.9 | 19.9 | 21.8 | 21.8 | 21.8 | 27.9 | 31.8 | 23.9 |
| 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° | 6548.9 | 6548.9 | 6548.9 | 6548.9 | 6548.9 | 6548.9 | 6548.9 | 6548.9 | 6548.9 | 6548.9 | 6548.9 |
| 2.5° | 6574.8 | 6423.6 | 6063.6 | 5646.0 | 5379.5 | 4946.0 | 4580.1 | 4315.6 | 4249.9 | 4122.7 | 4160.5 |
| 5° | 6566.8 | 6252.6 | 5518.7 | 4743.1 | 3915.8 | 3299.3 | 2839.9 | 2478.0 | 2318.9 | 2213.5 | 2139.9 |
| 7.5° | 6570.8 | 6079.5 | 4902.2 | 3667.3 | 2678.8 | 2074.2 | 1648.7 | 1427.9 | 1280.8 | 1219.1 | 1227.0 |
| 10° | 6582.7 | 5884.6 | 4186.3 | 2716.6 | 1807.8 | 1340.4 | 1079.9 | 974.4 | 924.7 | 916.8 | 914.8 |
| 12.5° | 6610.6 | 5671.9 | 3502.1 | 2016.5 | 1264.9 | 974.4 | 875.1 | 839.2 | 823.3 | 823.3 | 817.4 |
| 15° | 6640.4 | 5437.2 | 2933.4 | 1499.5 | 974.4 | 837.3 | 791.5 | 773.6 | 763.7 | 763.7 | 761.7 |
| 17.5° | 6640.4 | 5166.7 | 2402.4 | 1163.4 | 839.2 | 769.6 | 733.8 | 709.9 | 702.0 | 702.0 | 700.0 |
| 20° | 6598.7 | 4852.5 | 1931.0 | 936.7 | 761.7 | 706.0 | 670.2 | 644.3 | 634.4 | 630.4 | 628.4 |
| 22.5° | 6453.4 | 4432.9 | 1537.3 | 805.5 | 698.0 | 650.3 | 604.6 | 574.7 | 566.8 | 562.8 | 564.8 |
| 25° | 6194.9 | 3959.6 | 1217.1 | 708.0 | 640.3 | 582.7 | 542.9 | 521.1 | 513.1 | 513.1 | 515.1 |
| 27.5° | 5928.4 | 3464.4 | 964.5 | 634.4 | 570.7 | 519.1 | 487.3 | 473.3 | 471.4 | 477.3 | 479.3 |
| 30° | 5681.8 | 2967.2 | 781.6 | 574.7 | 509.1 | 465.3 | 443.5 | 439.5 | 439.5 | 441.5 | 443.5 |
| 32.5° | 5407.4 | 2531.7 | 654.3 | 523.0 | 459.4 | 421.6 | 409.7 | 409.7 | 413.7 | 413.7 | 417.7 |
| 35° | 5234.4 | 2157.8 | 574.7 | 473.3 | 421.6 | 389.8 | 381.9 | 383.8 | 389.8 | 397.8 | 401.8 |
| 37.5° | 5140.9 | 1859.5 | 523.0 | 433.5 | 385.8 | 363.9 | 356.0 | 359.9 | 373.9 | 387.8 | 389.8 |
| 40° | 5148.9 | 1634.7 | 481.3 | 399.7 | 358.0 | 334.1 | 328.2 | 340.1 | 354.0 | 367.9 | 369.9 |
| 42.5° | 5236.3 | 1467.7 | 441.5 | 359.9 | 334.1 | 300.3 | 298.3 | 310.2 | 316.2 | 330.1 | 332.1 |
| 45° | 5339.7 | 1346.4 | 399.7 | 318.2 | 290.3 | 260.5 | 262.5 | 272.5 | 280.4 | 302.3 | 306.2 |
| 47.5° | 5371.5 | 1262.8 | 352.0 | 270.4 | 238.7 | 228.7 | 230.7 | 236.6 | 252.6 | 272.5 | 274.4 |
| 50° | 5407.4 | 1211.1 | 306.2 | 228.7 | 202.9 | 200.8 | 202.9 | 206.8 | 216.7 | 224.7 | 222.8 |
| 52.5° | 5560.5 | 1209.2 | 268.5 | 198.9 | 173.0 | 177.0 | 179.0 | 177.0 | 169.0 | 157.1 | 153.2 |
| 54° | 5703.7 | 1215.1 | 250.6 | 184.9 | 159.1 | 165.1 | 163.1 | 153.2 | 133.3 | 121.3 | 115.3 |
| 55° | 5819.0 | 1221.1 | 240.6 | 175.0 | 151.1 | 153.2 | 155.1 | 135.2 | 109.4 | 97.5 | 93.5 |
| 57.5° | 6045.8 | 1207.2 | 216.7 | 153.2 | 133.3 | 125.3 | 123.3 | 89.5 | 59.7 | 51.7 | 47.8 |
| 60° | 5932.4 | 1089.9 | 196.8 | 131.2 | 113.4 | 101.4 | 83.5 | 49.7 | 29.8 | 21.8 | 21.8 |
| 62.5° | 5487.0 | 924.7 | 175.0 | 107.4 | 93.5 | 77.6 | 43.8 | 27.9 | 13.9 | 8.0 | 6.0 |
| 65° | 4908.2 | 777.6 | 157.1 | 85.5 | 73.6 | 49.7 | 23.9 | 17.9 | 6.0 | 0.0 | 0.0 |
| 67.5° | 3649.3 | 576.8 | 133.3 | 67.7 | 55.7 | 31.8 | 15.9 | 9.9 | 2.0 | 0.0 | 0.0 |
| 70° | 1690.4 | 352.0 | 113.4 | 51.7 | 39.8 | 23.9 | 11.9 | 6.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 485.2 | 220.7 | 93.5 | 37.8 | 27.9 | 19.9 | 9.9 | 4.0 | 2.0 | 0.0 | 0.0 |
| 75° | 169.0 | 177.0 | 69.6 | 27.9 | 21.8 | 13.9 | 8.0 | 4.0 | 2.0 | 0.0 | 0.0 |
| 77.5° | 101.4 | 143.2 | 43.8 | 23.9 | 17.9 | 11.9 | 8.0 | 4.0 | 2.0 | 2.0 | 0.0 |
| 80° | 57.7 | 95.4 | 27.9 | 19.9 | 15.9 | 9.9 | 6.0 | 4.0 | 2.0 | 2.0 | 0.0 |
| 82.5° | 31.8 | 45.7 | 21.8 | 17.9 | 13.9 | 9.9 | 6.0 | 4.0 | 2.0 | 2.0 | 2.0 |
| 85° | 25.8 | 23.9 | 17.9 | 15.9 | 11.9 | 8.0 | 6.0 | 2.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 19.9 | 15.9 | 15.9 | 15.9 | 11.9 | 8.0 | 6.0 | 2.0 | 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)