

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: P533676

Luminaire Tested: **GLAN-SA9A-760-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9A-760-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36431 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

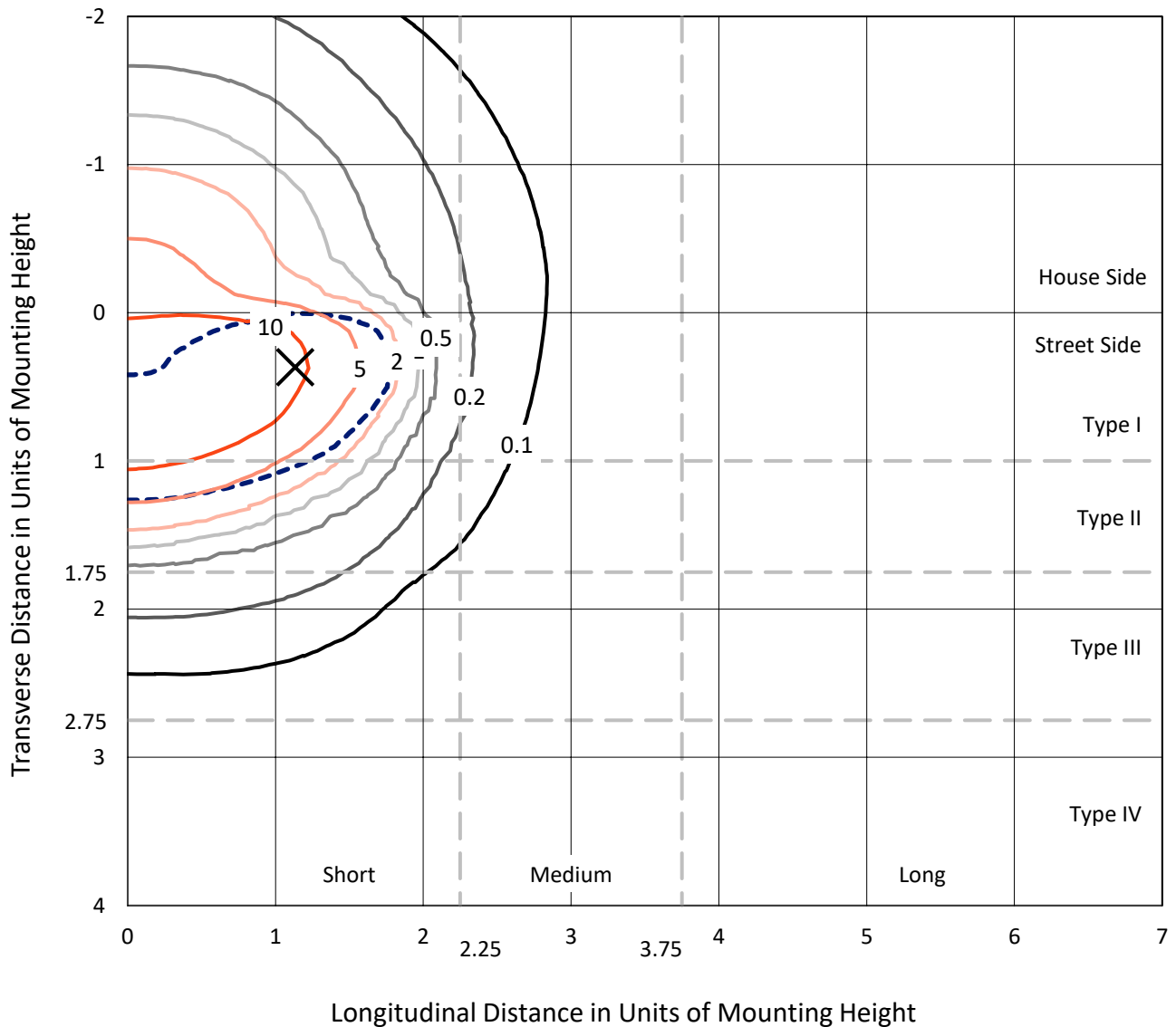
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

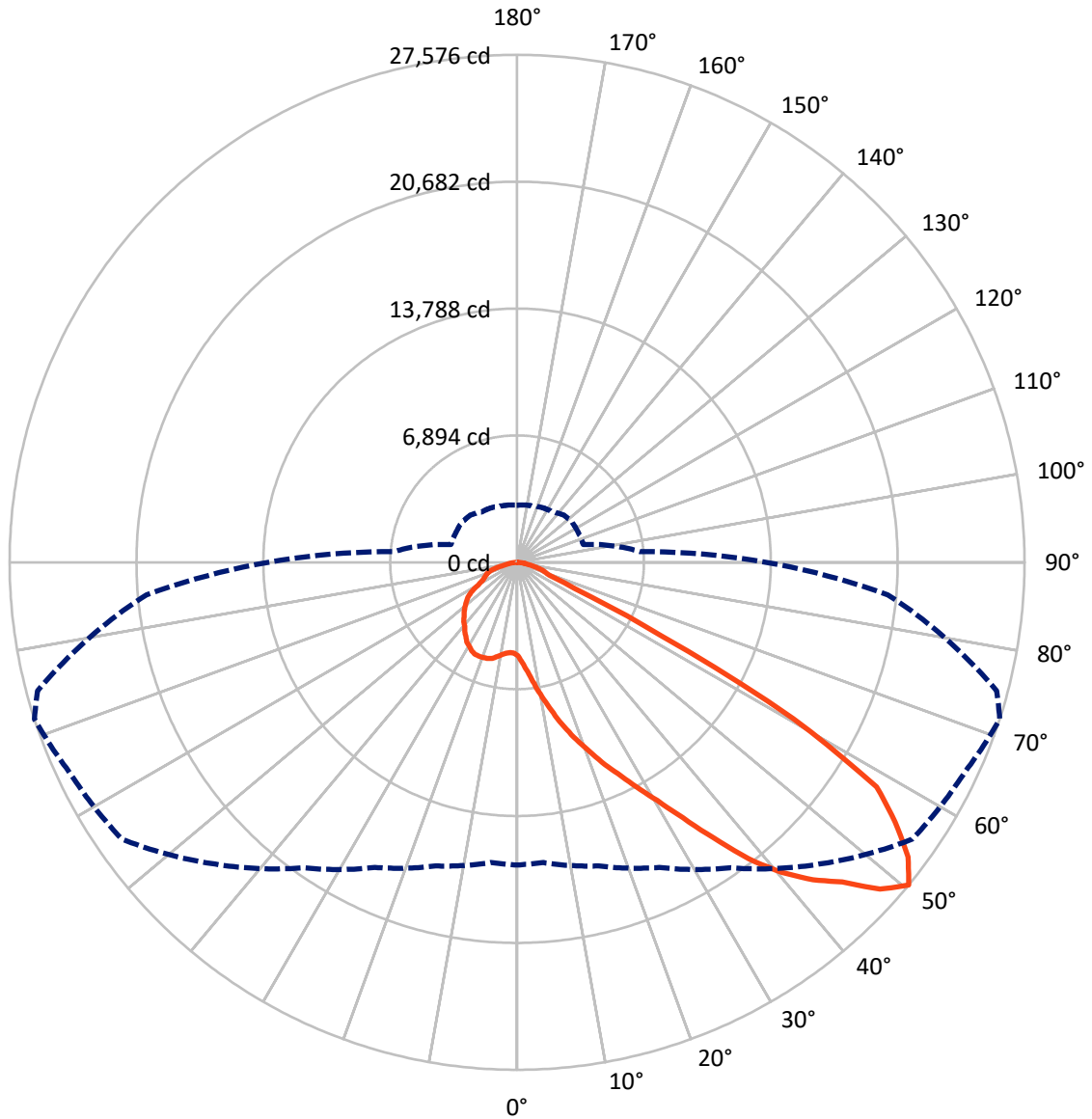
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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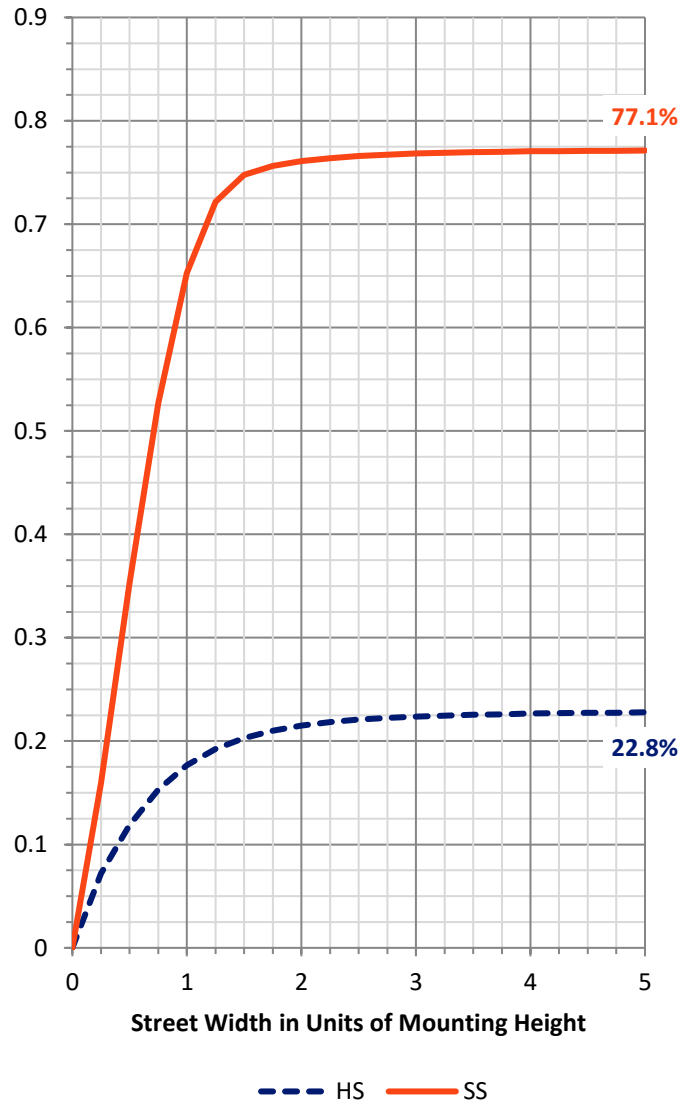
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8346.6 | 0.0 | 8346.6 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 28084.4 | 0.0 | 28084.4 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 36431.0 | 0.0 | 36431.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 596.5 | 1.6 |
| 10°-20° | 2230.1 | 6.1 |
| 20°-30° | 4323.9 | 11.9 |
| 30°-40° | 7163.3 | 19.7 |
| 40°-50° | 10022.9 | 27.5 |
| 50°-60° | 8455.6 | 23.2 |
| 60°-70° | 2577.3 | 7.1 |
| 70°-80° | 904.2 | 2.5 |
| 80°-90° | 157.2 | 0.4 |
| 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° | 36431.0 | 100.0 |
| 0°-180° | 36431.0 | 100.0 |

Coefficient of Utilization



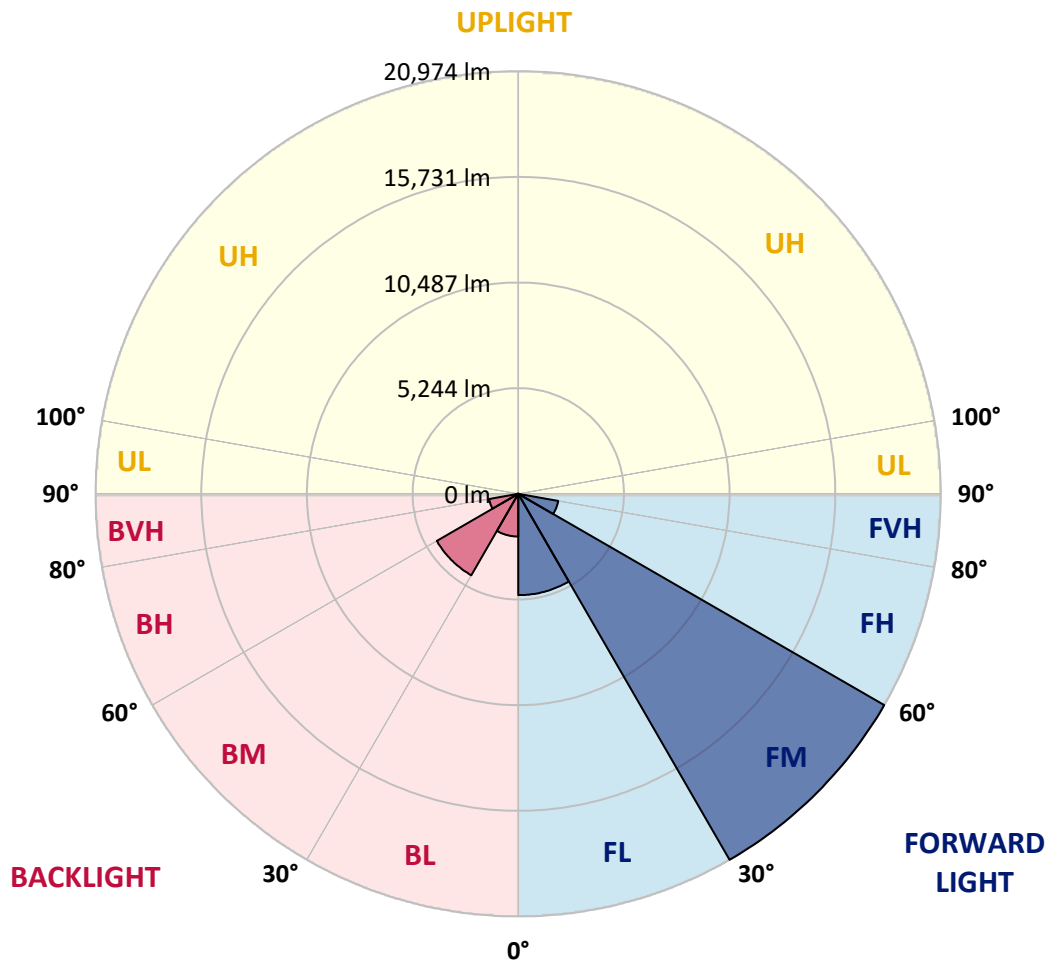
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5028.8 | 13.8 | | | |
| FM (30°-60°) | 20974.3 | 57.6 | | | |
| FH (60°-80°) | 2010.9 | 5.5 | | | G2/5000 |
| FVH (80°-90°) | 70.4 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2121.7 | 5.8 | B3/2500 | | |
| BM (30°-60°) | 4667.5 | 12.8 | B3/5000 | | |
| BH (60°-80°) | 1470.5 | 4.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 86.8 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 72° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5071.5 | 5071.5 | 5071.5 | 5071.5 | 5071.5 | 5071.5 | 5071.5 | 5071.5 | 5071.5 | 5071.5 | 5071.5 |
| 2.5° | 6523.1 | 6482.5 | 6360.8 | 6320.2 | 6176.0 | 5914.5 | 5824.3 | 5558.4 | 5445.7 | 5342.0 | 5220.3 |
| 5° | 8249.6 | 8060.3 | 8046.8 | 7816.9 | 7483.3 | 7289.4 | 6712.4 | 6324.7 | 5968.6 | 5788.3 | 5454.7 |
| 7.5° | 9349.6 | 9354.1 | 9354.1 | 9164.8 | 8898.8 | 8407.4 | 7889.0 | 7190.3 | 6653.8 | 6387.8 | 5819.8 |
| 10° | 10395.5 | 10305.3 | 10255.7 | 10237.7 | 10057.4 | 9579.5 | 9025.0 | 8159.5 | 7424.7 | 7113.6 | 6094.8 |
| 12.5° | 11134.8 | 11058.1 | 11170.8 | 11112.2 | 10981.5 | 10670.4 | 10147.5 | 9160.3 | 8240.6 | 7821.4 | 6536.6 |
| 15° | 11486.4 | 11540.5 | 11630.7 | 11792.9 | 11734.3 | 11617.1 | 11040.1 | 10188.1 | 9119.7 | 8646.4 | 6928.8 |
| 17.5° | 12027.4 | 11878.6 | 11986.8 | 12189.6 | 12351.9 | 12297.8 | 11968.8 | 10931.9 | 9989.7 | 9408.2 | 7456.2 |
| 20° | 12406.0 | 12320.4 | 12374.5 | 12608.9 | 12730.6 | 13037.2 | 12865.8 | 11905.6 | 10823.7 | 10210.6 | 8078.3 |
| 22.5° | 13488.0 | 13361.7 | 13185.9 | 13222.0 | 13267.1 | 13483.4 | 13524.0 | 12974.0 | 11792.9 | 11143.8 | 8668.9 |
| 25° | 14822.3 | 14705.1 | 14497.7 | 14285.9 | 14155.1 | 14114.6 | 14254.3 | 13812.5 | 12721.6 | 12049.9 | 9304.5 |
| 27.5° | 16291.9 | 16093.6 | 15962.8 | 15525.6 | 15173.9 | 15119.8 | 15052.2 | 14813.3 | 13821.5 | 13095.8 | 10021.3 |
| 30° | 17721.0 | 17563.2 | 17387.4 | 16688.6 | 16323.5 | 16264.9 | 15931.3 | 15998.9 | 15016.2 | 14209.2 | 10832.7 |
| 32.5° | 18802.9 | 18816.4 | 18415.2 | 17887.8 | 17545.2 | 17234.1 | 17112.4 | 17306.2 | 16548.9 | 15899.7 | 11738.8 |
| 35° | 19677.4 | 19718.0 | 19334.8 | 18857.0 | 18487.3 | 18703.7 | 18649.6 | 18739.8 | 18379.1 | 17585.7 | 12793.7 |
| 37.5° | 20529.5 | 20326.6 | 19916.4 | 19686.5 | 19492.6 | 19848.7 | 20308.6 | 20385.2 | 20452.8 | 19519.7 | 14019.9 |
| 40° | 20669.2 | 20687.2 | 20448.3 | 20610.6 | 20367.2 | 20903.6 | 21972.0 | 21872.8 | 22147.8 | 21331.9 | 15349.8 |
| 42.5° | 20470.9 | 20511.4 | 20606.1 | 20836.0 | 21422.0 | 22066.7 | 23653.5 | 23247.8 | 23581.4 | 22855.6 | 16643.6 |
| 45° | 20146.3 | 19979.5 | 20096.7 | 20971.2 | 21985.5 | 23419.1 | 25190.7 | 24875.2 | 24767.0 | 24158.4 | 18185.3 |
| 47.5° | 18595.5 | 18766.8 | 19132.0 | 20209.4 | 21733.1 | 23653.5 | 26281.7 | 26209.5 | 26534.1 | 26105.9 | 19587.3 |
| 50° | 16445.2 | 16377.6 | 17080.8 | 18293.5 | 20259.0 | 23193.7 | 26223.1 | 26876.7 | 27575.5 | 26980.4 | 20213.9 |
| 52.5° | 12315.9 | 12676.5 | 13280.6 | 14786.3 | 17590.2 | 20687.2 | 24942.8 | 26033.7 | 26601.7 | 26475.5 | 19709.0 |
| 55° | 7785.3 | 7893.5 | 8258.7 | 10048.3 | 12572.8 | 16603.0 | 21381.5 | 23910.5 | 24924.8 | 25398.1 | 19244.7 |
| 57.5° | 3782.2 | 3579.4 | 4025.6 | 5463.7 | 7262.4 | 11166.3 | 16490.3 | 20827.0 | 23031.4 | 23887.9 | 18234.9 |
| 60° | 1974.5 | 2051.1 | 2227.0 | 2740.9 | 3755.2 | 5797.3 | 10278.3 | 13880.1 | 17247.6 | 18564.0 | 13821.5 |
| 62.5° | 1636.4 | 1663.5 | 1780.7 | 2037.6 | 2497.4 | 3335.9 | 5247.3 | 6766.5 | 8795.1 | 9980.7 | 7862.0 |
| 65° | 1388.5 | 1402.0 | 1528.2 | 1699.5 | 1992.5 | 2348.7 | 2700.3 | 2826.5 | 3421.6 | 3511.7 | 2795.0 |
| 67.5° | 1158.6 | 1172.1 | 1307.3 | 1469.6 | 1658.9 | 1753.6 | 1843.8 | 1834.8 | 1902.4 | 1875.3 | 1870.8 |
| 70° | 892.6 | 906.1 | 1045.9 | 1217.2 | 1311.8 | 1257.7 | 1537.2 | 1600.3 | 1627.4 | 1649.9 | 1686.0 |
| 72.5° | 644.6 | 671.7 | 779.9 | 901.6 | 852.0 | 978.2 | 1266.7 | 1361.4 | 1397.5 | 1411.0 | 1456.1 |
| 75° | 468.8 | 477.8 | 504.9 | 468.8 | 541.0 | 680.7 | 892.6 | 1009.8 | 1054.9 | 1068.4 | 1136.0 |
| 77.5° | 207.4 | 211.9 | 216.4 | 270.5 | 347.1 | 423.8 | 531.9 | 626.6 | 689.7 | 707.8 | 725.8 |
| 80° | 108.2 | 112.7 | 139.7 | 184.8 | 247.9 | 311.1 | 387.7 | 441.8 | 482.4 | 486.9 | 504.9 |
| 82.5° | 67.6 | 72.1 | 99.2 | 130.7 | 175.8 | 229.9 | 284.0 | 329.1 | 360.6 | 365.1 | 369.7 |
| 85° | 31.6 | 40.6 | 58.6 | 81.1 | 117.2 | 148.8 | 153.3 | 130.7 | 139.7 | 144.3 | 135.2 |
| 87.5° | 9.0 | 13.5 | 18.0 | 13.5 | 18.0 | 18.0 | 22.5 | 27.0 | 27.0 | 27.0 | 31.6 |
| 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° | 5071.5 | 5071.5 | 5071.5 | 5071.5 | 5071.5 | 5071.5 | 5071.5 | 5071.5 | 5071.5 | 5071.5 | 5071.5 |
| 2.5° | 5152.6 | 5112.1 | 4954.3 | 4895.7 | 4742.4 | 4769.5 | 4688.3 | 4683.8 | 4665.8 | 4661.3 | 4656.8 |
| 5° | 5278.9 | 5152.6 | 4963.3 | 4819.1 | 4733.4 | 4724.4 | 4665.8 | 4665.8 | 4683.8 | 4697.3 | 4665.8 |
| 7.5° | 5486.2 | 5342.0 | 5021.9 | 4886.7 | 4810.0 | 4796.5 | 4755.9 | 4724.4 | 4765.0 | 4751.4 | 4715.4 |
| 10° | 5725.2 | 5472.7 | 5134.6 | 5017.4 | 4891.2 | 4859.6 | 4859.6 | 4873.2 | 4805.5 | 4828.1 | 4792.0 |
| 12.5° | 5991.1 | 5653.0 | 5278.9 | 5143.6 | 4994.9 | 4976.8 | 4967.8 | 4868.6 | 4904.7 | 4886.7 | 4796.5 |
| 15° | 6329.2 | 5860.4 | 5463.7 | 5233.8 | 5107.6 | 5026.4 | 4909.2 | 4891.2 | 4868.6 | 4823.6 | 4783.0 |
| 17.5° | 6694.4 | 6085.8 | 5549.4 | 5260.8 | 5071.5 | 5012.9 | 4922.7 | 4828.1 | 4760.5 | 4769.5 | 4737.9 |
| 20° | 7005.4 | 6293.2 | 5580.9 | 5287.9 | 5044.5 | 4931.8 | 4792.0 | 4733.4 | 4661.3 | 4656.8 | 4652.3 |
| 22.5° | 7375.1 | 6572.7 | 5626.0 | 5215.8 | 4963.3 | 4846.1 | 4751.4 | 4647.8 | 4598.2 | 4535.1 | 4566.6 |
| 25° | 7816.9 | 6680.9 | 5635.0 | 5175.2 | 4904.7 | 4697.3 | 4647.8 | 4535.1 | 4517.0 | 4426.9 | 4444.9 |
| 27.5° | 8136.9 | 6739.5 | 5562.9 | 5049.0 | 4769.5 | 4611.7 | 4521.5 | 4440.4 | 4408.8 | 4341.2 | 4323.2 |
| 30° | 8565.2 | 6829.6 | 5409.6 | 4891.2 | 4634.2 | 4458.4 | 4404.3 | 4386.3 | 4296.1 | 4224.0 | 4215.0 |
| 32.5° | 9052.1 | 6888.2 | 5310.4 | 4728.9 | 4494.5 | 4359.2 | 4386.3 | 4300.6 | 4187.9 | 4124.8 | 4106.8 |
| 35° | 9439.8 | 6910.8 | 5062.5 | 4544.1 | 4399.8 | 4314.2 | 4282.6 | 4264.6 | 4102.3 | 4043.7 | 3998.6 |
| 37.5° | 10030.3 | 6861.2 | 4855.1 | 4413.3 | 4296.1 | 4264.6 | 4237.5 | 4115.8 | 3931.0 | 3845.3 | 3782.2 |
| 40° | 10720.0 | 6847.7 | 4589.1 | 4228.5 | 4197.0 | 4233.0 | 4151.9 | 3962.5 | 3705.6 | 3610.9 | 3565.8 |
| 42.5° | 11382.7 | 6942.3 | 4422.4 | 4129.3 | 4088.8 | 4102.3 | 3989.6 | 3705.6 | 3579.4 | 3525.3 | 3453.1 |
| 45° | 12491.7 | 7140.7 | 4147.4 | 3976.1 | 3958.0 | 3949.0 | 3813.8 | 3516.2 | 3444.1 | 3376.5 | 3363.0 |
| 47.5° | 13492.5 | 7009.9 | 3971.6 | 3818.3 | 3836.3 | 3786.7 | 3498.2 | 3403.5 | 3322.4 | 3254.8 | 3232.2 |
| 50° | 13551.1 | 6698.9 | 3723.6 | 3696.6 | 3701.1 | 3615.4 | 3340.4 | 3277.3 | 3173.6 | 3128.6 | 3097.0 |
| 52.5° | 13244.5 | 6189.5 | 3493.7 | 3502.7 | 3516.2 | 3376.5 | 3146.6 | 3101.5 | 3015.9 | 2952.7 | 2934.7 |
| 55° | 12383.5 | 5396.1 | 3268.3 | 3304.4 | 3340.4 | 3074.5 | 3002.3 | 2889.6 | 2822.0 | 2731.9 | 2736.4 |
| 57.5° | 10909.4 | 4345.7 | 2952.7 | 3011.3 | 3088.0 | 2795.0 | 2740.9 | 2601.1 | 2501.9 | 2429.8 | 2420.8 |
| 60° | 7312.0 | 3092.5 | 2479.4 | 2501.9 | 2673.2 | 2556.0 | 2551.5 | 2411.8 | 2276.5 | 2213.4 | 2177.4 |
| 62.5° | 4314.2 | 2362.2 | 2141.3 | 2118.8 | 2114.3 | 2181.9 | 2294.6 | 2245.0 | 2069.2 | 1947.5 | 1983.5 |
| 65° | 2258.5 | 2042.1 | 1992.5 | 1915.9 | 1870.8 | 1852.8 | 1938.4 | 1961.0 | 1843.8 | 1713.0 | 1704.0 |
| 67.5° | 1897.9 | 1897.9 | 1857.3 | 1830.3 | 1767.1 | 1690.5 | 1636.4 | 1564.3 | 1546.2 | 1510.2 | 1465.1 |
| 70° | 1726.6 | 1771.6 | 1758.1 | 1695.0 | 1640.9 | 1555.3 | 1415.5 | 1298.3 | 1185.6 | 1145.0 | 1172.1 |
| 72.5° | 1505.7 | 1550.8 | 1550.8 | 1519.2 | 1447.1 | 1316.3 | 1181.1 | 1045.9 | 951.2 | 879.1 | 870.0 |
| 75° | 1158.6 | 1181.1 | 1235.2 | 1199.1 | 1104.5 | 1023.3 | 883.6 | 743.8 | 653.7 | 586.0 | 572.5 |
| 77.5° | 739.3 | 775.4 | 775.4 | 770.9 | 703.2 | 626.6 | 536.5 | 437.3 | 369.7 | 320.1 | 306.5 |
| 80° | 491.4 | 513.9 | 531.9 | 513.9 | 468.8 | 410.2 | 342.6 | 275.0 | 225.4 | 184.8 | 175.8 |
| 82.5° | 360.6 | 387.7 | 401.2 | 383.2 | 338.1 | 293.0 | 243.4 | 193.8 | 144.3 | 112.7 | 103.7 |
| 85° | 139.7 | 144.3 | 162.3 | 193.8 | 189.3 | 184.8 | 148.8 | 108.2 | 81.1 | 58.6 | 54.1 |
| 87.5° | 36.1 | 31.6 | 36.1 | 36.1 | 31.6 | 27.0 | 27.0 | 27.0 | 27.0 | 13.5 | 18.0 |
| 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)