

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: P533649

Luminaire Tested: **GLAN-SA9A-750-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9A-750-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27419 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

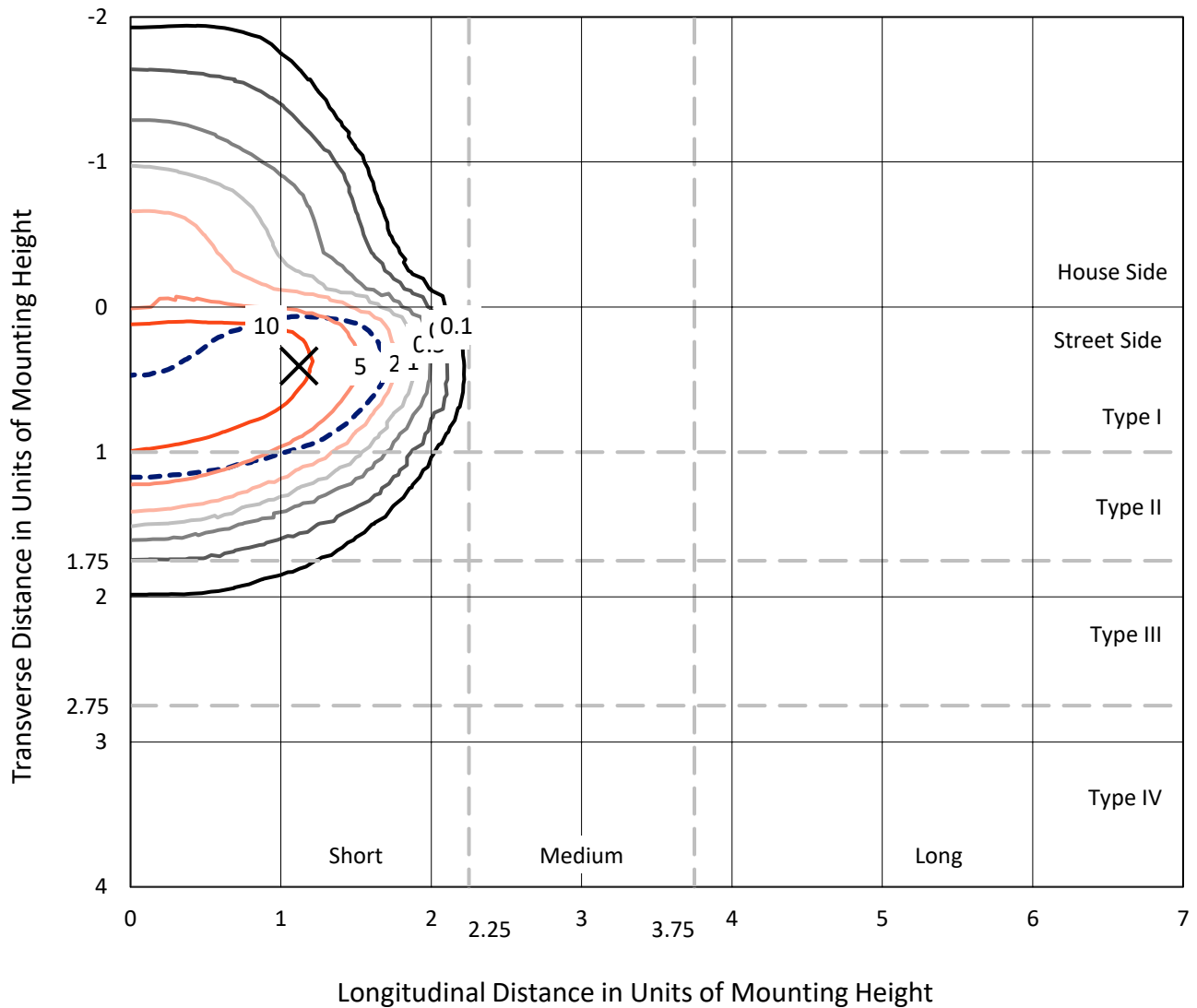
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

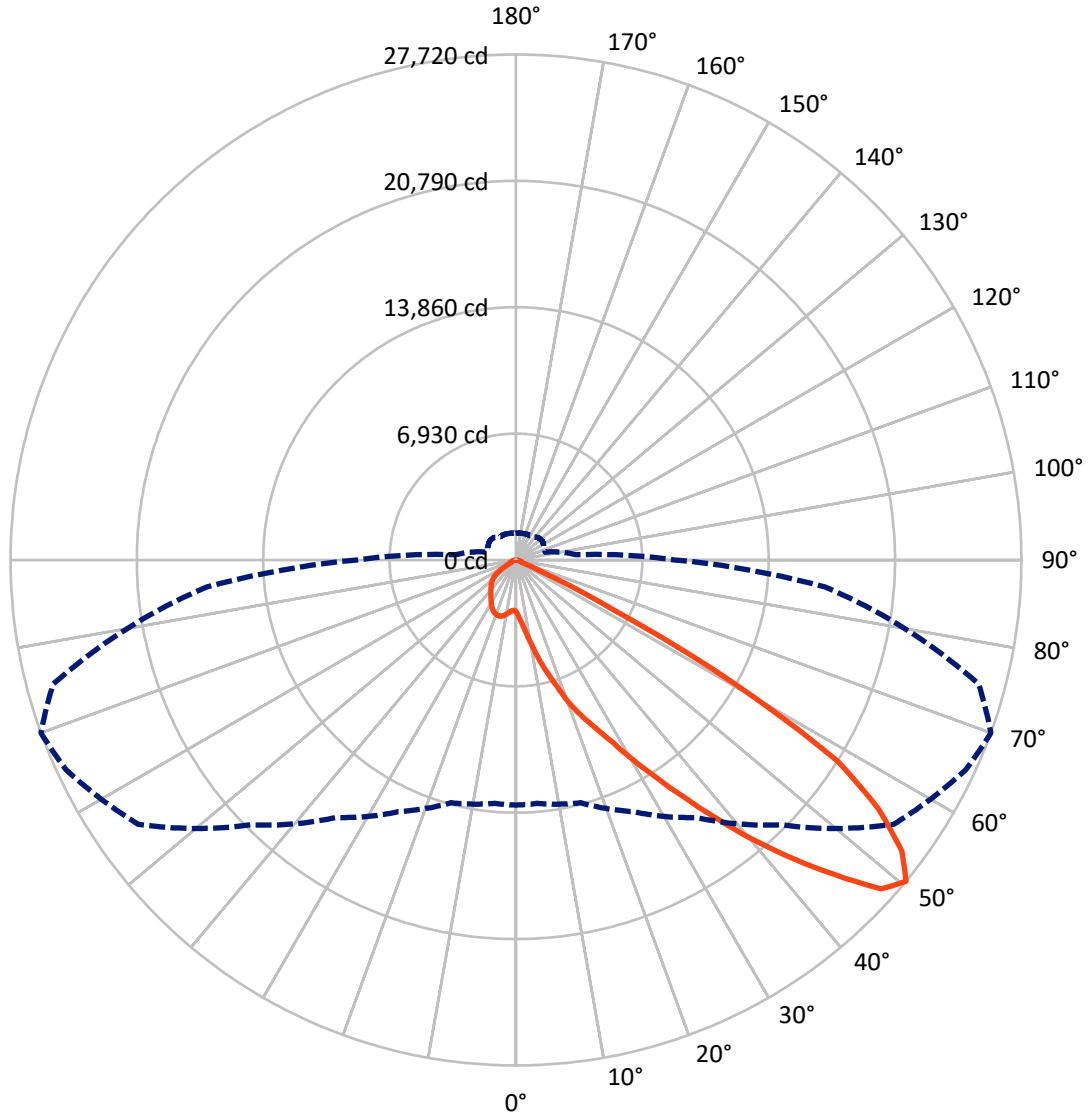
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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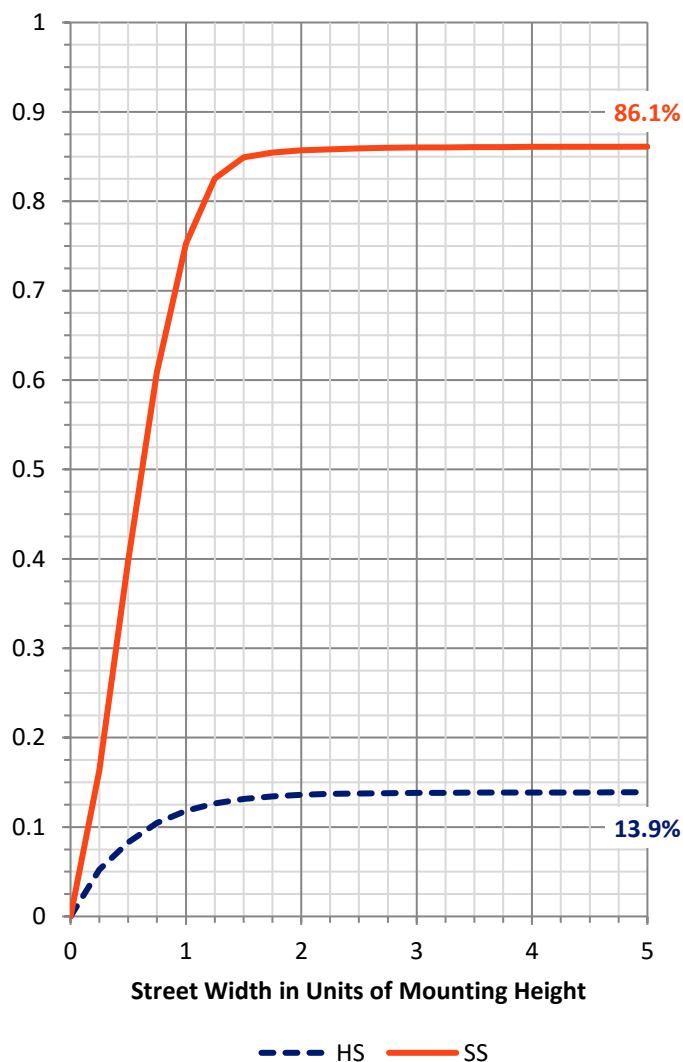
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3829.2 | 0.0 | 3829.2 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 23589.7 | 0.0 | 23589.7 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 27419.0 | 0.0 | 27419.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 369.3 | 1.3 |
| 10°-20° | 1597.5 | 5.8 |
| 20°-30° | 3351.3 | 12.2 |
| 30°-40° | 5776.5 | 21.1 |
| 40°-50° | 8442.4 | 30.8 |
| 50°-60° | 6575.2 | 24.0 |
| 60°-70° | 1114.0 | 4.1 |
| 70°-80° | 153.0 | 0.6 |
| 80°-90° | 39.6 | 0.1 |
| 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° | 27419.0 | 100.0 |
| 0°-180° | 27419.0 | 100.0 |

Coefficient of Utilization



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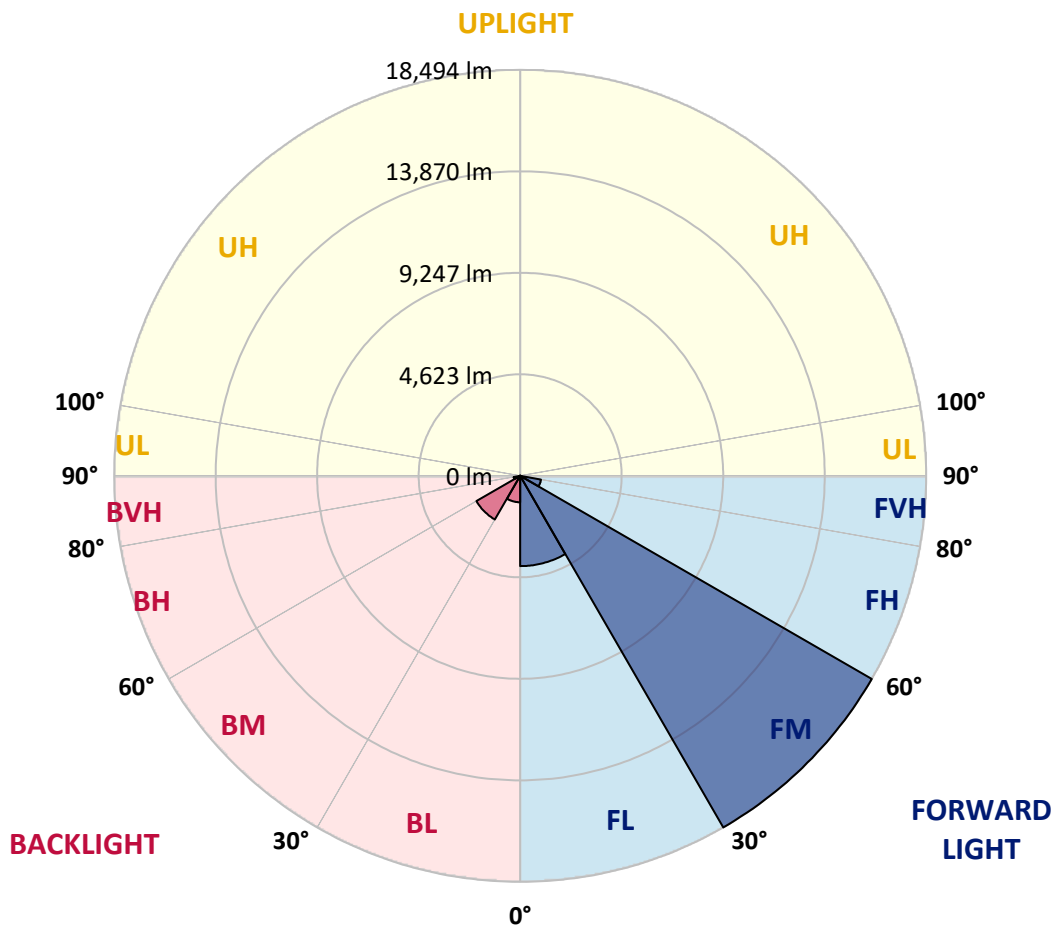
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4113.2 | 15.0 | | | |
| FM (30°-60°) | 18493.6 | 67.4 | | | |
| FH (60°-80°) | 964.6 | 3.5 | | | G1/1800 |
| FVH (80°-90°) | 18.3 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1205.0 | 4.4 | B3/2500 | | |
| BM (30°-60°) | 2300.5 | 8.4 | B2/2500 | | |
| BH (60°-80°) | 302.5 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 21.3 | 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 I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2840.1 | 2840.1 | 2840.1 | 2840.1 | 2840.1 | 2840.1 | 2840.1 | 2840.1 | 2840.1 | 2840.1 | 2840.1 |
| 2.5° | 3719.1 | 3692.1 | 3633.5 | 3525.3 | 3480.2 | 3372.0 | 3308.9 | 3187.2 | 3110.6 | 3024.9 | 2930.2 |
| 5° | 5238.3 | 5098.6 | 5012.9 | 4891.2 | 4535.1 | 4314.2 | 3949.0 | 3638.0 | 3493.7 | 3336.0 | 3119.6 |
| 7.5° | 6807.1 | 6717.0 | 6599.8 | 6338.3 | 6094.9 | 5635.1 | 5008.4 | 4323.2 | 4030.2 | 3759.7 | 3331.4 |
| 10° | 8105.5 | 7853.0 | 7839.5 | 7645.6 | 7379.7 | 6829.7 | 6076.8 | 5224.8 | 4701.9 | 4305.2 | 3633.5 |
| 12.5° | 9011.6 | 8781.7 | 8885.4 | 8862.8 | 8614.9 | 8110.0 | 7239.9 | 6112.9 | 5567.4 | 4949.8 | 3944.5 |
| 15° | 9836.6 | 9741.9 | 9710.3 | 9683.3 | 9584.1 | 9209.9 | 8430.0 | 7194.8 | 6405.9 | 5662.1 | 4296.2 |
| 17.5° | 10643.5 | 10400.1 | 10517.3 | 10539.8 | 10530.8 | 10192.7 | 9462.4 | 8222.7 | 7294.0 | 6414.9 | 4665.8 |
| 20° | 11360.3 | 11382.8 | 11225.0 | 11193.5 | 11166.4 | 11152.9 | 10440.6 | 9241.5 | 8385.0 | 7203.9 | 5148.2 |
| 22.5° | 12279.9 | 12122.1 | 12261.9 | 12171.7 | 11995.9 | 11887.7 | 11342.2 | 10143.1 | 9331.7 | 8155.1 | 5639.6 |
| 25° | 13366.4 | 13492.6 | 13163.5 | 13127.4 | 12933.6 | 12559.4 | 12068.0 | 11152.9 | 10242.3 | 9038.6 | 6171.5 |
| 27.5° | 14705.2 | 14484.3 | 14398.7 | 14200.3 | 13848.7 | 13690.9 | 13113.9 | 12194.3 | 11342.2 | 9967.3 | 6685.4 |
| 30° | 15854.8 | 15796.2 | 15367.9 | 15133.5 | 14827.0 | 14822.5 | 14015.5 | 13605.3 | 12775.8 | 11423.4 | 7393.2 |
| 32.5° | 16792.5 | 16535.5 | 16377.7 | 16215.4 | 15967.5 | 16035.1 | 15354.4 | 15138.0 | 14304.0 | 12775.8 | 8227.2 |
| 35° | 17419.1 | 17234.3 | 17139.6 | 16891.6 | 16819.5 | 17121.6 | 16837.5 | 16747.4 | 16062.2 | 14678.2 | 9205.4 |
| 37.5° | 17617.4 | 17676.0 | 17658.0 | 17347.0 | 17500.2 | 18316.2 | 18681.3 | 18446.9 | 18086.3 | 16684.3 | 10264.8 |
| 40° | 17793.3 | 17833.8 | 17743.7 | 18108.8 | 18546.1 | 19474.8 | 20795.6 | 20407.9 | 20272.7 | 18717.4 | 11738.9 |
| 42.5° | 17892.4 | 17860.9 | 17860.9 | 18492.0 | 19154.7 | 21021.0 | 22837.8 | 22580.8 | 22477.1 | 20881.3 | 13443.0 |
| 45° | 17464.2 | 17157.6 | 17486.7 | 18343.2 | 19677.6 | 21782.9 | 24469.7 | 24825.8 | 24677.0 | 23455.4 | 15435.5 |
| 47.5° | 15863.8 | 16053.1 | 16238.0 | 17383.0 | 19042.0 | 21548.5 | 25470.5 | 26683.1 | 26958.1 | 25619.2 | 16742.9 |
| 50° | 13443.0 | 13402.4 | 13785.6 | 15228.2 | 17243.3 | 20538.7 | 25276.6 | 27219.6 | 27720.0 | 26268.4 | 17017.9 |
| 52.5° | 9778.0 | 10075.5 | 10490.2 | 11923.8 | 14313.0 | 17924.0 | 22774.6 | 25835.6 | 26502.8 | 25470.5 | 16837.5 |
| 55° | 5693.7 | 5364.6 | 6297.7 | 7510.4 | 9764.4 | 13519.6 | 19253.9 | 22900.9 | 24136.1 | 24018.9 | 15926.9 |
| 57.5° | 2281.1 | 2208.9 | 2529.0 | 3408.1 | 5094.1 | 8380.5 | 14002.0 | 18816.6 | 20795.6 | 21999.3 | 13997.5 |
| 60° | 1000.8 | 978.2 | 1149.6 | 1388.5 | 2082.7 | 3863.4 | 7659.2 | 11702.9 | 13767.6 | 15372.4 | 9633.7 |
| 62.5° | 721.3 | 712.3 | 797.9 | 883.6 | 1100.0 | 1681.5 | 3218.7 | 4715.4 | 5878.5 | 7100.2 | 4314.2 |
| 65° | 581.5 | 604.1 | 662.7 | 707.8 | 811.4 | 933.2 | 1136.0 | 1311.8 | 1609.4 | 1668.0 | 951.2 |
| 67.5° | 473.3 | 491.4 | 545.5 | 595.1 | 613.1 | 504.9 | 522.9 | 459.8 | 459.8 | 410.2 | 329.1 |
| 70° | 347.1 | 351.6 | 414.7 | 473.3 | 378.7 | 202.9 | 356.1 | 356.1 | 320.1 | 306.5 | 279.5 |
| 72.5° | 257.0 | 261.5 | 311.1 | 293.0 | 148.8 | 126.2 | 261.5 | 288.5 | 261.5 | 247.9 | 225.4 |
| 75° | 189.3 | 193.8 | 162.3 | 67.6 | 63.1 | 81.1 | 153.3 | 198.4 | 189.3 | 184.8 | 171.3 |
| 77.5° | 36.1 | 27.0 | 22.5 | 31.6 | 45.1 | 67.6 | 99.2 | 121.7 | 126.2 | 135.2 | 126.2 |
| 80° | 4.5 | 4.5 | 13.5 | 27.0 | 49.6 | 72.1 | 103.7 | 117.2 | 121.7 | 126.2 | 117.2 |
| 82.5° | 0.0 | 4.5 | 13.5 | 27.0 | 49.6 | 67.6 | 90.2 | 103.7 | 112.7 | 117.2 | 112.7 |
| 85° | 0.0 | 4.5 | 9.0 | 22.5 | 40.6 | 49.6 | 45.1 | 31.6 | 27.0 | 31.6 | 22.5 |
| 87.5° | 0.0 | 0.0 | 4.5 | 4.5 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| 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° | 2840.1 | 2840.1 | 2840.1 | 2840.1 | 2840.1 | 2840.1 | 2840.1 | 2840.1 | 2840.1 | 2840.1 | 2840.1 |
| 2.5° | 2876.1 | 2858.1 | 2795.0 | 2727.4 | 2668.8 | 2695.8 | 2668.8 | 2646.2 | 2655.2 | 2646.2 | 2637.2 |
| 5° | 3033.9 | 2952.8 | 2817.5 | 2758.9 | 2709.3 | 2704.8 | 2691.3 | 2686.8 | 2691.3 | 2691.3 | 2650.7 |
| 7.5° | 3182.7 | 3051.9 | 2907.7 | 2844.6 | 2786.0 | 2790.5 | 2758.9 | 2758.9 | 2754.4 | 2731.9 | 2722.9 |
| 10° | 3408.1 | 3232.3 | 3047.4 | 2934.7 | 2862.6 | 2849.1 | 2817.5 | 2786.0 | 2786.0 | 2786.0 | 2740.9 |
| 12.5° | 3656.0 | 3435.1 | 3182.7 | 3051.9 | 2966.3 | 2898.7 | 2849.1 | 2840.1 | 2790.5 | 2781.5 | 2758.9 |
| 15° | 3872.4 | 3592.9 | 3272.8 | 3092.5 | 2984.3 | 2894.2 | 2817.5 | 2767.9 | 2745.4 | 2731.9 | 2713.8 |
| 17.5° | 4084.3 | 3728.2 | 3322.4 | 3092.5 | 2975.3 | 2871.6 | 2790.5 | 2745.4 | 2691.3 | 2700.3 | 2664.3 |
| 20° | 4368.3 | 3872.4 | 3336.0 | 3033.9 | 2889.7 | 2790.5 | 2682.3 | 2659.7 | 2628.2 | 2601.1 | 2610.2 |
| 22.5° | 4643.3 | 3976.1 | 3295.4 | 2961.8 | 2754.4 | 2637.2 | 2583.1 | 2556.1 | 2542.5 | 2520.0 | 2488.4 |
| 25° | 4891.2 | 4088.8 | 3232.3 | 2831.1 | 2610.2 | 2524.5 | 2474.9 | 2470.4 | 2438.9 | 2438.9 | 2380.2 |
| 27.5° | 5143.7 | 4129.4 | 3124.1 | 2677.8 | 2483.9 | 2434.3 | 2411.8 | 2402.8 | 2389.3 | 2357.7 | 2317.1 |
| 30° | 5432.2 | 4142.9 | 2966.3 | 2520.0 | 2371.2 | 2317.1 | 2348.7 | 2371.2 | 2312.6 | 2254.0 | 2272.1 |
| 32.5° | 5671.1 | 4111.3 | 2777.0 | 2371.2 | 2290.1 | 2263.0 | 2326.2 | 2348.7 | 2281.1 | 2218.0 | 2186.4 |
| 35° | 5959.6 | 4034.7 | 2592.1 | 2254.0 | 2208.9 | 2263.0 | 2317.1 | 2317.1 | 2181.9 | 2105.3 | 2087.2 |
| 37.5° | 6396.9 | 3949.0 | 2420.8 | 2154.8 | 2123.3 | 2236.0 | 2308.1 | 2258.5 | 2046.7 | 1952.0 | 1929.4 |
| 40° | 6865.8 | 3895.0 | 2254.0 | 2055.7 | 2078.2 | 2190.9 | 2231.5 | 2078.2 | 1861.8 | 1803.2 | 1785.2 |
| 42.5° | 7546.5 | 3786.8 | 2105.3 | 1970.0 | 2037.6 | 2127.8 | 2127.8 | 1852.8 | 1771.7 | 1740.1 | 1735.6 |
| 45° | 8394.0 | 3710.1 | 1974.5 | 1897.9 | 1979.0 | 2001.6 | 1929.4 | 1735.6 | 1677.0 | 1668.0 | 1672.5 |
| 47.5° | 8808.7 | 3561.4 | 1839.3 | 1812.2 | 1870.8 | 1875.3 | 1686.0 | 1640.9 | 1591.3 | 1577.8 | 1568.8 |
| 50° | 8745.6 | 3295.4 | 1663.5 | 1699.5 | 1780.7 | 1735.6 | 1537.2 | 1546.3 | 1501.2 | 1496.7 | 1474.1 |
| 52.5° | 8303.8 | 2876.1 | 1487.7 | 1573.3 | 1663.5 | 1532.7 | 1415.5 | 1406.5 | 1406.5 | 1347.9 | 1325.4 |
| 55° | 7361.6 | 2317.1 | 1275.8 | 1384.0 | 1492.2 | 1289.3 | 1257.7 | 1248.7 | 1226.2 | 1172.1 | 1158.6 |
| 57.5° | 5828.9 | 1699.5 | 960.2 | 1077.4 | 1266.8 | 1095.5 | 1090.9 | 1050.4 | 991.8 | 951.2 | 951.2 |
| 60° | 3466.7 | 978.2 | 604.1 | 658.2 | 838.5 | 888.1 | 987.3 | 969.2 | 870.1 | 806.9 | 788.9 |
| 62.5° | 1582.3 | 504.9 | 383.2 | 392.2 | 450.8 | 577.0 | 775.4 | 897.1 | 757.4 | 649.2 | 640.1 |
| 65° | 531.9 | 374.2 | 315.6 | 302.0 | 311.1 | 347.1 | 464.3 | 635.6 | 604.1 | 500.4 | 482.4 |
| 67.5° | 324.6 | 333.6 | 297.5 | 275.0 | 275.0 | 270.5 | 266.0 | 288.5 | 356.1 | 347.1 | 351.6 |
| 70° | 279.5 | 306.5 | 275.0 | 247.9 | 238.9 | 225.4 | 189.3 | 157.8 | 135.2 | 157.8 | 166.8 |
| 72.5° | 225.4 | 243.4 | 234.4 | 211.9 | 189.3 | 171.3 | 135.2 | 103.7 | 76.6 | 67.6 | 67.6 |
| 75° | 166.8 | 180.3 | 189.3 | 162.3 | 144.3 | 121.7 | 99.2 | 67.6 | 40.6 | 27.0 | 27.0 |
| 77.5° | 121.7 | 135.2 | 139.7 | 126.2 | 108.2 | 85.7 | 63.1 | 45.1 | 22.5 | 9.0 | 9.0 |
| 80° | 103.7 | 121.7 | 135.2 | 126.2 | 112.7 | 81.1 | 58.6 | 31.6 | 18.0 | 4.5 | 4.5 |
| 82.5° | 99.2 | 121.7 | 135.2 | 121.7 | 108.2 | 76.6 | 58.6 | 36.1 | 13.5 | 4.5 | 4.5 |
| 85° | 22.5 | 31.6 | 40.6 | 49.6 | 58.6 | 58.6 | 45.1 | 27.0 | 13.5 | 4.5 | 4.5 |
| 87.5° | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 4.5 | 4.5 | 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)