

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: P534018

Luminaire Tested: **GLAN-SA9C-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9C-727-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46530 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

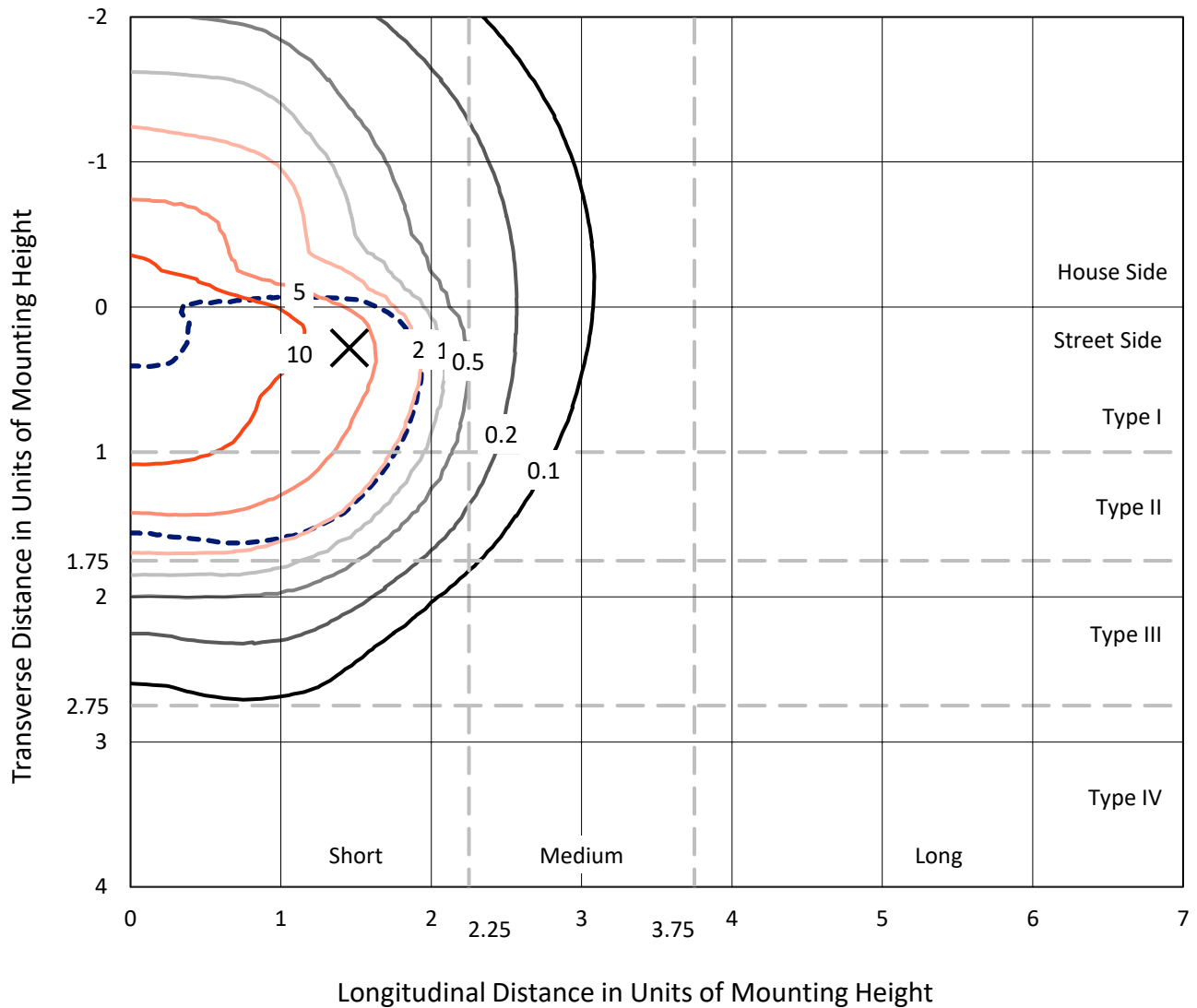
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

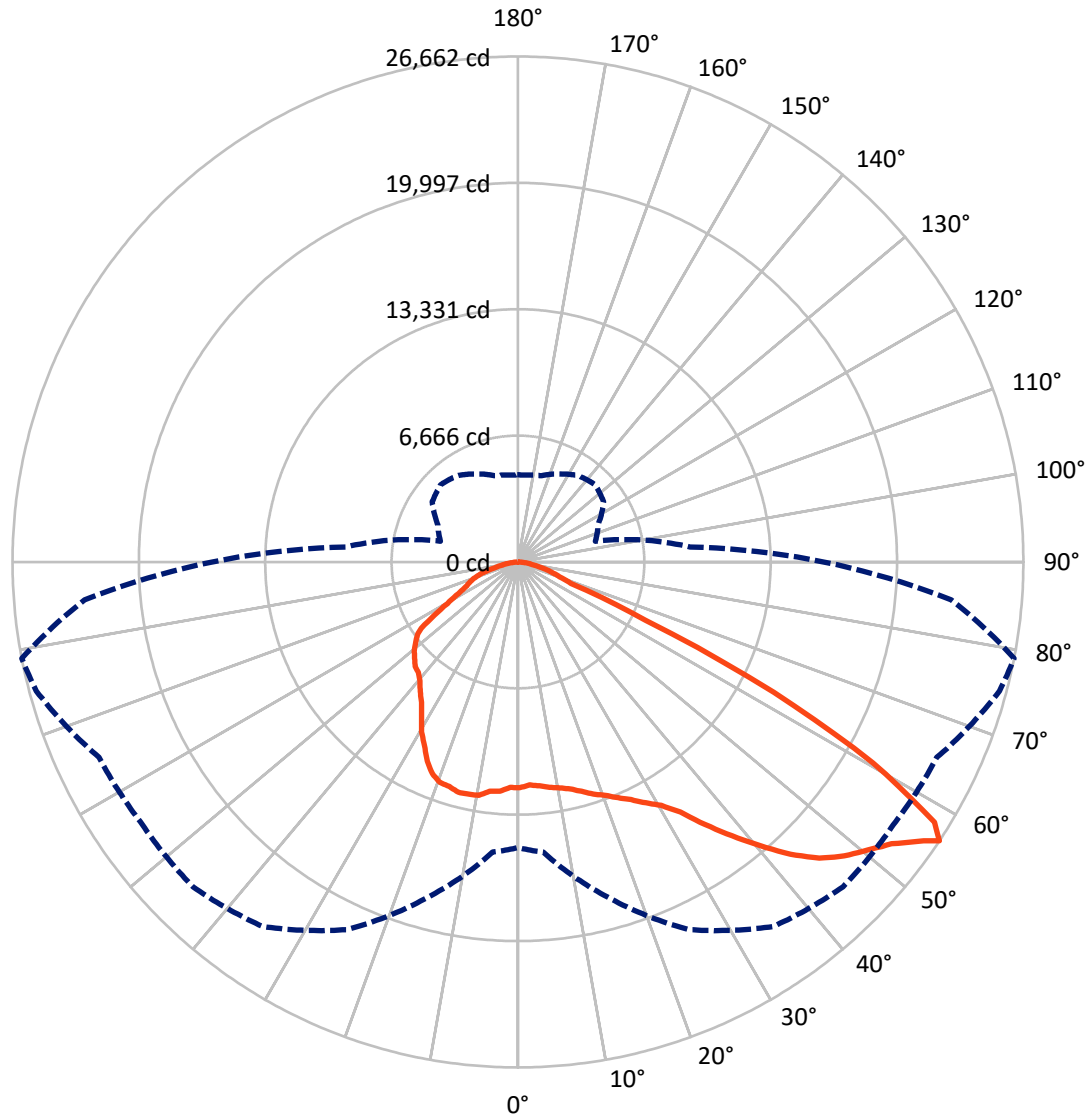
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical



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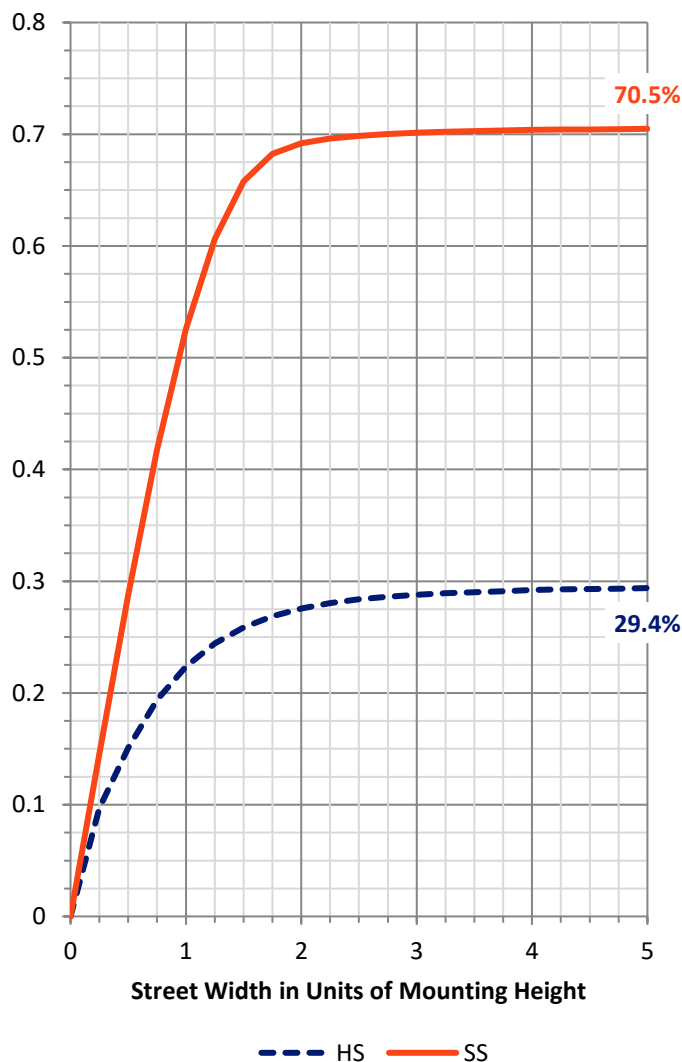
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 13741.3 | 0.0 | 13741.3 |
| | % Fixture | 29.5 | 0.0 | 29.5 |
| Street Side | Lumens | 32788.7 | 0.0 | 32788.7 |
| | % Fixture | 70.5 | 0.0 | 70.5 |
| Total | Lumens | 46530.0 | 0.0 | 46530.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1082.4 | 2.3 |
| 10°-20° | 2962.3 | 6.4 |
| 20°-30° | 5067.8 | 10.9 |
| 30°-40° | 7767.1 | 16.7 |
| 40°-50° | 10497.2 | 22.6 |
| 50°-60° | 12056.4 | 25.9 |
| 60°-70° | 5495.7 | 11.8 |
| 70°-80° | 1354.9 | 2.9 |
| 80°-90° | 246.3 | 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° | 46530.0 | 100.0 |
| 0°-180° | 46530.0 | 100.0 |

Coefficient of Utilization



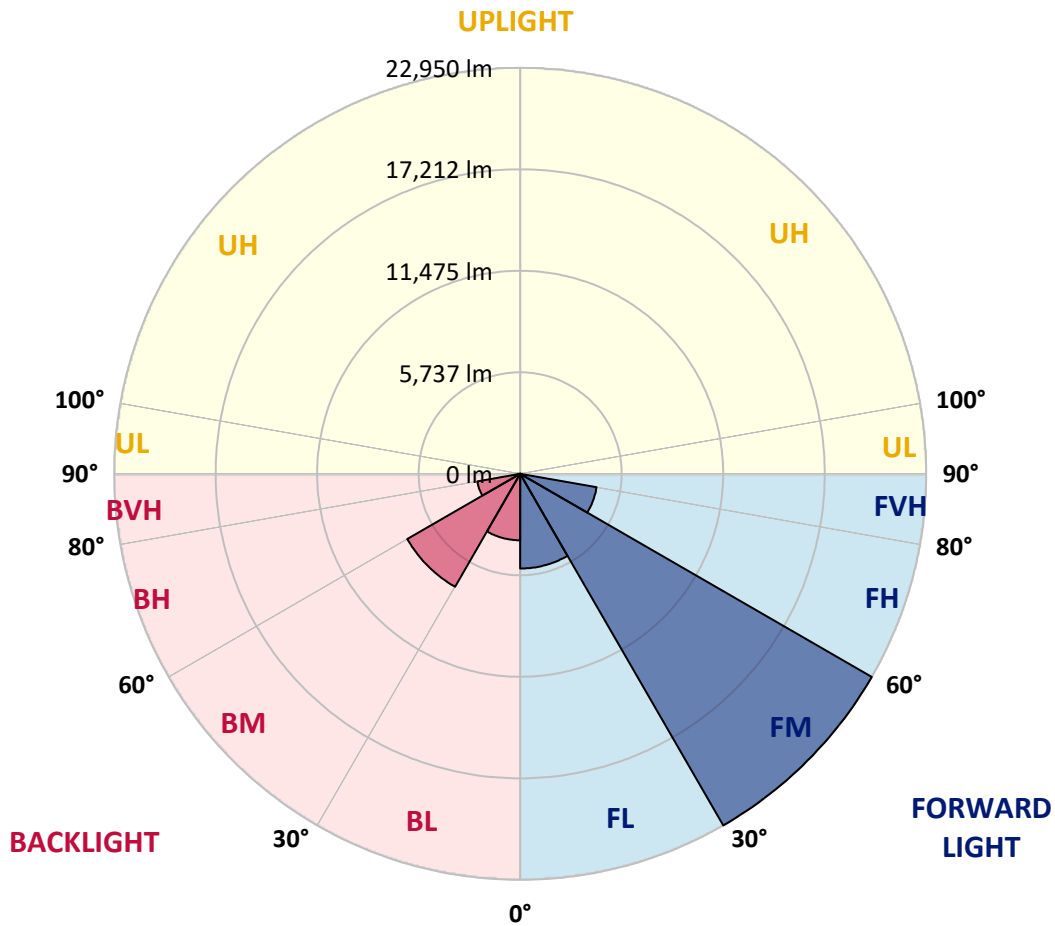
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5353.7 | 11.5 | | | |
| FM (30°-60°) | 22950.0 | 49.3 | | | |
| FH (60°-80°) | 4386.7 | 9.4 | | | G2/5000 |
| FVH (80°-90°) | 98.3 | 0.2 | | | G1/100 |
| BL (0°-30°) | 3758.8 | 8.1 | B4/5000 | | |
| BM (30°-60°) | 7370.7 | 15.8 | B4/8500 | | |
| BH (60°-80°) | 2463.9 | 5.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 147.9 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11905.2 | 11905.2 | 11905.2 | 11905.2 | 11905.2 | 11905.2 | 11905.2 | 11905.2 | 11905.2 | 11905.2 | 11905.2 |
| 2.5° | 11325.6 | 11296.6 | 11366.1 | 11418.3 | 11482.1 | 11563.2 | 11603.8 | 11627.0 | 11829.8 | 11777.7 | 11934.2 |
| 5° | 11082.1 | 11006.8 | 11059.0 | 11099.5 | 11209.7 | 11308.2 | 11418.3 | 11592.2 | 11777.7 | 11858.8 | 12050.1 |
| 7.5° | 10867.7 | 10827.1 | 10815.5 | 10844.5 | 10995.2 | 11122.7 | 11314.0 | 11569.0 | 11870.4 | 12003.7 | 12113.8 |
| 10° | 10514.1 | 10456.2 | 10543.1 | 10734.4 | 10774.9 | 11041.6 | 11261.8 | 11627.0 | 11887.8 | 12119.6 | 12444.2 |
| 12.5° | 10357.6 | 10299.7 | 10317.1 | 10427.2 | 10711.2 | 10966.2 | 11227.0 | 11638.6 | 12189.2 | 12281.9 | 12716.6 |
| 15° | 10606.9 | 10548.9 | 10566.3 | 10537.3 | 10809.7 | 10943.0 | 11354.6 | 11870.4 | 12397.9 | 12554.3 | 13018.0 |
| 17.5° | 11174.9 | 11180.7 | 11105.3 | 11041.6 | 10977.8 | 11261.8 | 11545.8 | 12009.5 | 12479.0 | 12873.1 | 13220.9 |
| 20° | 12258.7 | 12067.5 | 11916.8 | 11557.4 | 11458.9 | 11580.6 | 11940.0 | 12386.3 | 12809.4 | 13134.0 | 13528.1 |
| 22.5° | 13093.4 | 13110.8 | 12896.3 | 12305.1 | 12090.7 | 12142.8 | 12450.0 | 12815.2 | 13278.9 | 13510.7 | 13962.8 |
| 25° | 14304.8 | 14183.1 | 13951.2 | 13481.7 | 13000.6 | 13041.2 | 13267.3 | 13597.6 | 13725.2 | 13887.4 | 14380.1 |
| 27.5° | 15411.8 | 15446.6 | 14988.7 | 14548.2 | 13951.2 | 13835.3 | 14241.0 | 14299.0 | 14084.5 | 14391.7 | 14559.8 |
| 30° | 16536.3 | 16507.3 | 16205.9 | 15690.0 | 15104.6 | 15127.8 | 15307.5 | 15023.5 | 14727.9 | 14896.0 | 15011.9 |
| 32.5° | 17701.3 | 17370.9 | 17359.3 | 16895.6 | 16449.3 | 16234.9 | 16014.6 | 16153.7 | 15695.8 | 15730.6 | 15620.5 |
| 35° | 18634.5 | 18680.8 | 18414.2 | 18083.8 | 17863.6 | 17486.8 | 16884.0 | 17133.3 | 17046.3 | 17005.8 | 16530.5 |
| 37.5° | 19312.6 | 19132.9 | 19266.2 | 19156.1 | 18947.4 | 18478.0 | 17852.0 | 18089.6 | 18130.2 | 18327.3 | 17776.6 |
| 40° | 19869.0 | 19793.7 | 20147.2 | 20205.2 | 20060.3 | 19046.0 | 17921.5 | 18628.7 | 19237.2 | 19666.2 | 19011.2 |
| 42.5° | 20135.6 | 20297.9 | 20668.9 | 21115.2 | 20790.6 | 19706.7 | 18280.9 | 19040.2 | 20396.5 | 21074.6 | 20182.0 |
| 45° | 20495.0 | 20286.3 | 20837.0 | 21654.2 | 21660.0 | 20263.2 | 18628.7 | 19596.6 | 21300.7 | 22286.0 | 20981.9 |
| 47.5° | 20129.8 | 20234.2 | 20802.2 | 21839.7 | 22106.3 | 20848.6 | 19567.6 | 20384.9 | 22297.6 | 23172.8 | 21723.8 |
| 50° | 19312.6 | 19521.3 | 20558.8 | 21636.8 | 22442.5 | 21468.7 | 20645.7 | 21236.9 | 23219.2 | 23885.7 | 21845.5 |
| 52.5° | 18460.6 | 18576.5 | 20199.4 | 21793.3 | 22593.2 | 22268.6 | 22088.9 | 22413.5 | 24343.6 | 24691.4 | 21996.2 |
| 55° | 16142.1 | 16692.8 | 19011.2 | 21723.8 | 23329.3 | 23711.8 | 23572.7 | 24048.0 | 25618.8 | 25966.5 | 22819.2 |
| 56° | 15069.9 | 15359.7 | 18298.3 | 21399.2 | 23474.2 | 24239.3 | 24169.7 | 24384.2 | 26296.9 | 26662.0 | 22946.8 |
| 57.5° | 13087.6 | 13110.8 | 15603.1 | 19961.8 | 22929.4 | 24395.8 | 24326.2 | 24494.3 | 26163.6 | 25914.4 | 21828.1 |
| 60° | 8189.9 | 8549.2 | 10618.5 | 15353.9 | 19498.1 | 22633.8 | 23027.9 | 21677.4 | 22059.9 | 21532.5 | 16982.6 |
| 62.5° | 4242.7 | 4190.6 | 5564.3 | 8978.2 | 12942.7 | 16205.9 | 16571.0 | 16507.3 | 15916.1 | 15145.2 | 11093.7 |
| 65° | 2115.6 | 2127.2 | 2909.6 | 4445.6 | 6630.7 | 8485.5 | 9505.6 | 9615.7 | 8045.0 | 7401.6 | 5262.9 |
| 67.5° | 1536.0 | 1593.9 | 2092.4 | 2718.4 | 3124.1 | 3495.0 | 4283.3 | 4202.2 | 3182.1 | 3025.6 | 2805.3 |
| 70° | 1194.0 | 1246.2 | 1698.3 | 2075.0 | 1883.7 | 1883.7 | 2051.8 | 2121.4 | 2266.3 | 2330.0 | 2405.4 |
| 72.5° | 869.4 | 910.0 | 1298.3 | 1431.6 | 1234.6 | 1327.3 | 1536.0 | 1698.3 | 1849.0 | 1872.1 | 1959.1 |
| 75° | 597.0 | 631.8 | 852.0 | 788.3 | 741.9 | 915.8 | 1124.4 | 1275.1 | 1385.3 | 1443.2 | 1495.4 |
| 77.5° | 388.3 | 399.9 | 486.9 | 411.5 | 475.3 | 591.2 | 730.3 | 857.8 | 967.9 | 1014.3 | 1025.9 |
| 80° | 173.9 | 191.3 | 208.7 | 260.8 | 330.4 | 423.1 | 521.6 | 626.0 | 695.5 | 712.9 | 747.7 |
| 82.5° | 98.5 | 98.5 | 127.5 | 185.5 | 243.4 | 307.2 | 376.7 | 452.1 | 533.2 | 550.6 | 544.8 |
| 85° | 52.2 | 52.2 | 75.3 | 110.1 | 150.7 | 179.7 | 173.9 | 179.7 | 191.3 | 220.3 | 214.5 |
| 87.5° | 17.4 | 17.4 | 23.2 | 23.2 | 29.0 | 34.8 | 29.0 | 40.6 | 52.2 | 52.2 | 52.2 |
| 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° | 11905.2 | 11905.2 | 11905.2 | 11905.2 | 11905.2 | 11905.2 | 11905.2 | 11905.2 | 11905.2 | 11905.2 | 11905.2 |
| 2.5° | 11887.8 | 11940.0 | 11870.4 | 12021.1 | 12021.1 | 11992.1 | 11847.2 | 11893.6 | 11928.4 | 11928.4 | 11957.3 |
| 5° | 12113.8 | 12096.5 | 12142.8 | 11963.1 | 11853.0 | 11812.4 | 11574.8 | 11458.9 | 11360.4 | 11354.6 | 11267.6 |
| 7.5° | 12241.4 | 12195.0 | 12177.6 | 12044.3 | 11557.4 | 11261.8 | 10751.8 | 10456.2 | 10392.4 | 10166.4 | 10253.3 |
| 10° | 12444.2 | 12531.2 | 12444.2 | 11719.7 | 11041.6 | 10363.4 | 9865.0 | 9407.1 | 9227.4 | 9082.5 | 8995.5 |
| 12.5° | 12861.5 | 12821.0 | 12316.7 | 11337.2 | 10386.6 | 9580.9 | 8839.0 | 8358.0 | 8178.3 | 8050.8 | 8039.2 |
| 15° | 13215.1 | 13012.2 | 12241.4 | 10734.4 | 9366.5 | 8508.7 | 7900.1 | 7558.1 | 7477.0 | 7488.6 | 7540.7 |
| 17.5° | 13336.8 | 13197.7 | 11847.2 | 10108.4 | 8607.2 | 7598.7 | 7314.7 | 7262.5 | 7337.9 | 7424.8 | 7448.0 |
| 20° | 13528.1 | 13307.8 | 11684.9 | 9256.4 | 7668.2 | 7030.7 | 7013.3 | 7198.8 | 7337.9 | 7465.4 | 7482.8 |
| 22.5° | 13928.0 | 13371.6 | 11157.5 | 8450.7 | 7024.9 | 6862.6 | 7030.7 | 7187.2 | 7401.6 | 7505.9 | 7413.2 |
| 25° | 14043.9 | 13232.5 | 10415.6 | 7482.8 | 6619.1 | 6758.2 | 6937.9 | 7152.4 | 7303.1 | 7361.0 | 7401.6 |
| 27.5° | 14142.5 | 13018.0 | 9412.9 | 6839.4 | 6491.6 | 6752.5 | 6937.9 | 7117.6 | 7198.8 | 7250.9 | 7297.3 |
| 30° | 14420.7 | 12954.3 | 8543.4 | 6410.5 | 6410.5 | 6636.5 | 6874.2 | 6920.5 | 7030.7 | 7094.4 | 7175.6 |
| 32.5° | 14559.8 | 12513.8 | 7650.8 | 6138.1 | 6329.3 | 6694.5 | 6711.9 | 6798.8 | 6804.6 | 6856.8 | 6769.8 |
| 35° | 14925.0 | 12200.8 | 6822.0 | 5941.0 | 6364.1 | 6636.5 | 6723.5 | 6671.3 | 6387.3 | 6248.2 | 6277.2 |
| 37.5° | 15191.6 | 12044.3 | 6225.0 | 5917.8 | 6369.9 | 6700.3 | 6746.7 | 6352.5 | 6056.9 | 5825.1 | 5883.0 |
| 40° | 15910.3 | 11656.0 | 5772.9 | 5877.2 | 6422.1 | 6769.8 | 6642.3 | 6213.4 | 5680.2 | 5442.5 | 5402.0 |
| 42.5° | 16460.9 | 11377.7 | 5488.9 | 5830.9 | 6462.6 | 6868.4 | 6590.2 | 5935.2 | 5390.4 | 5170.1 | 5228.1 |
| 45° | 17098.5 | 11314.0 | 5338.2 | 5842.5 | 6532.2 | 6920.5 | 6526.4 | 5720.7 | 5141.1 | 5054.2 | 5036.8 |
| 47.5° | 17324.5 | 10856.1 | 5175.9 | 5743.9 | 6514.8 | 6903.2 | 6312.0 | 5558.5 | 5048.4 | 5060.0 | 5106.4 |
| 50° | 16947.8 | 10386.6 | 5054.2 | 5541.1 | 6398.9 | 6746.7 | 5975.8 | 5344.0 | 4996.2 | 5141.1 | 5222.3 |
| 52.5° | 16466.7 | 9905.5 | 4805.0 | 5268.7 | 6161.3 | 6503.2 | 5819.3 | 5332.4 | 4944.1 | 4897.7 | 4915.1 |
| 55° | 16611.6 | 9511.4 | 4457.2 | 4897.7 | 5778.7 | 6051.1 | 5645.4 | 5222.3 | 4816.6 | 4642.7 | 4700.6 |
| 56° | 16142.1 | 9105.7 | 4231.2 | 4665.9 | 5517.9 | 5761.3 | 5558.5 | 5123.8 | 4712.2 | 4596.3 | 4596.3 |
| 57.5° | 14814.8 | 7743.6 | 3935.6 | 4294.9 | 4967.3 | 5257.1 | 5390.4 | 5065.8 | 4596.3 | 4393.4 | 4399.2 |
| 60° | 10925.6 | 5506.3 | 3529.8 | 3784.9 | 4115.2 | 4347.1 | 4967.3 | 4903.5 | 4306.5 | 4167.4 | 4115.2 |
| 62.5° | 6735.1 | 4022.5 | 3240.0 | 3338.6 | 3506.6 | 3697.9 | 4335.5 | 4439.8 | 3999.3 | 3848.6 | 3813.8 |
| 65° | 3773.3 | 3077.7 | 3019.8 | 3060.3 | 3141.5 | 3240.0 | 3599.4 | 3831.2 | 3529.8 | 3298.0 | 3286.4 |
| 67.5° | 2758.9 | 2753.1 | 2799.5 | 2834.3 | 2869.1 | 2869.1 | 2956.0 | 3048.7 | 3008.2 | 2822.7 | 2805.3 |
| 70° | 2451.7 | 2469.1 | 2503.9 | 2509.7 | 2521.3 | 2480.7 | 2411.2 | 2382.2 | 2428.6 | 2312.6 | 2289.5 |
| 72.5° | 2022.8 | 2080.8 | 2121.4 | 2127.2 | 2063.4 | 2011.2 | 1918.5 | 1820.0 | 1785.2 | 1762.0 | 1756.2 |
| 75° | 1553.4 | 1593.9 | 1611.3 | 1605.5 | 1582.3 | 1507.0 | 1396.9 | 1298.3 | 1234.6 | 1165.0 | 1199.8 |
| 77.5° | 1049.1 | 1107.1 | 1136.0 | 1136.0 | 1101.3 | 985.3 | 933.2 | 857.8 | 794.1 | 718.7 | 730.3 |
| 80° | 736.1 | 776.7 | 823.0 | 817.2 | 759.3 | 701.3 | 626.0 | 556.4 | 504.3 | 446.3 | 440.5 |
| 82.5° | 550.6 | 573.8 | 597.0 | 585.4 | 544.8 | 486.9 | 434.7 | 371.0 | 313.0 | 272.4 | 272.4 |
| 85° | 197.1 | 214.5 | 260.8 | 272.4 | 295.6 | 295.6 | 249.2 | 208.7 | 168.1 | 139.1 | 139.1 |
| 87.5° | 58.0 | 58.0 | 63.8 | 63.8 | 58.0 | 63.8 | 52.2 | 58.0 | 63.8 | 40.6 | 40.6 |
| 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)