

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: P534239

Luminaire Tested: **GLAN-SA9D-727-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9D-727-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34299 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

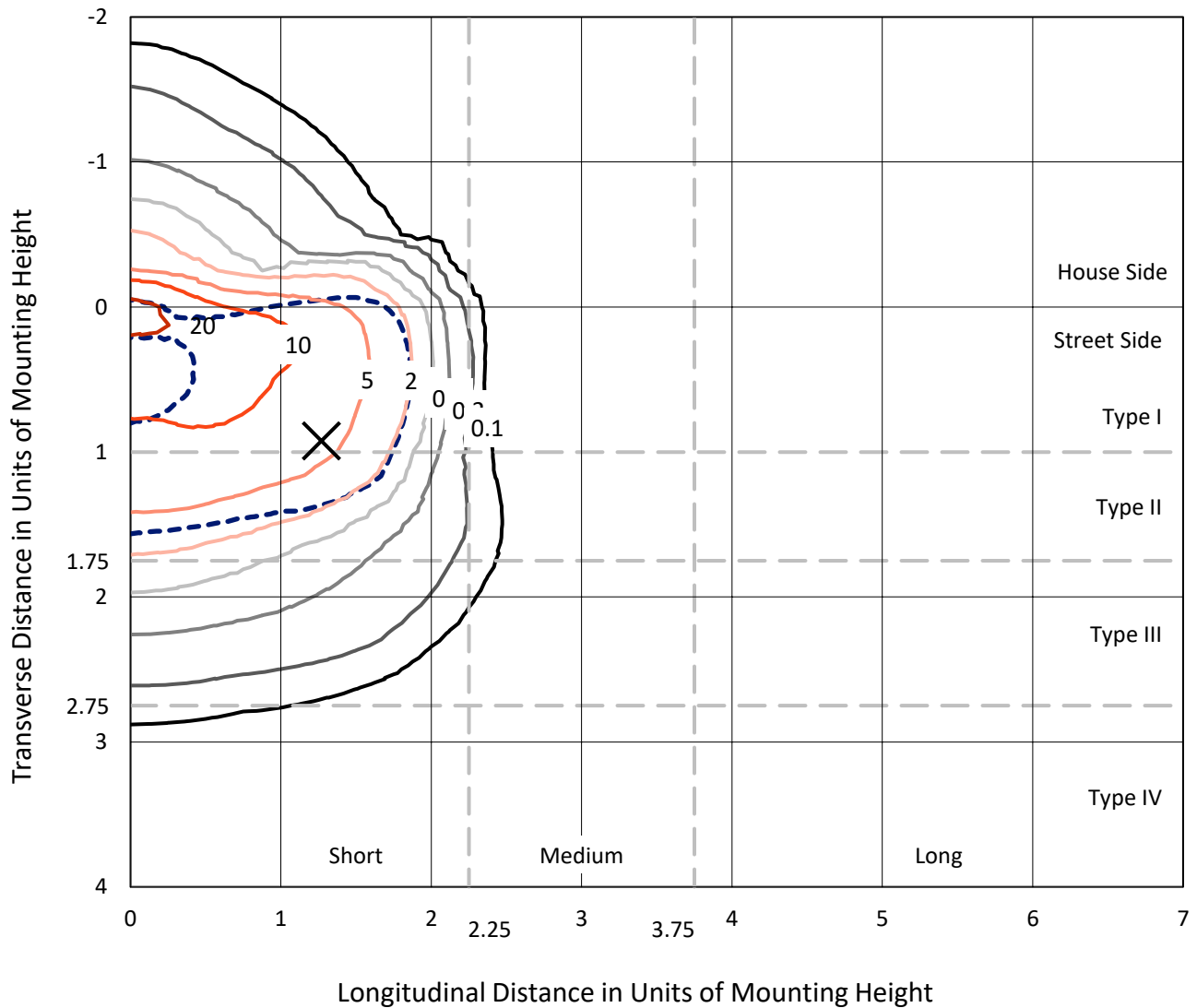
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

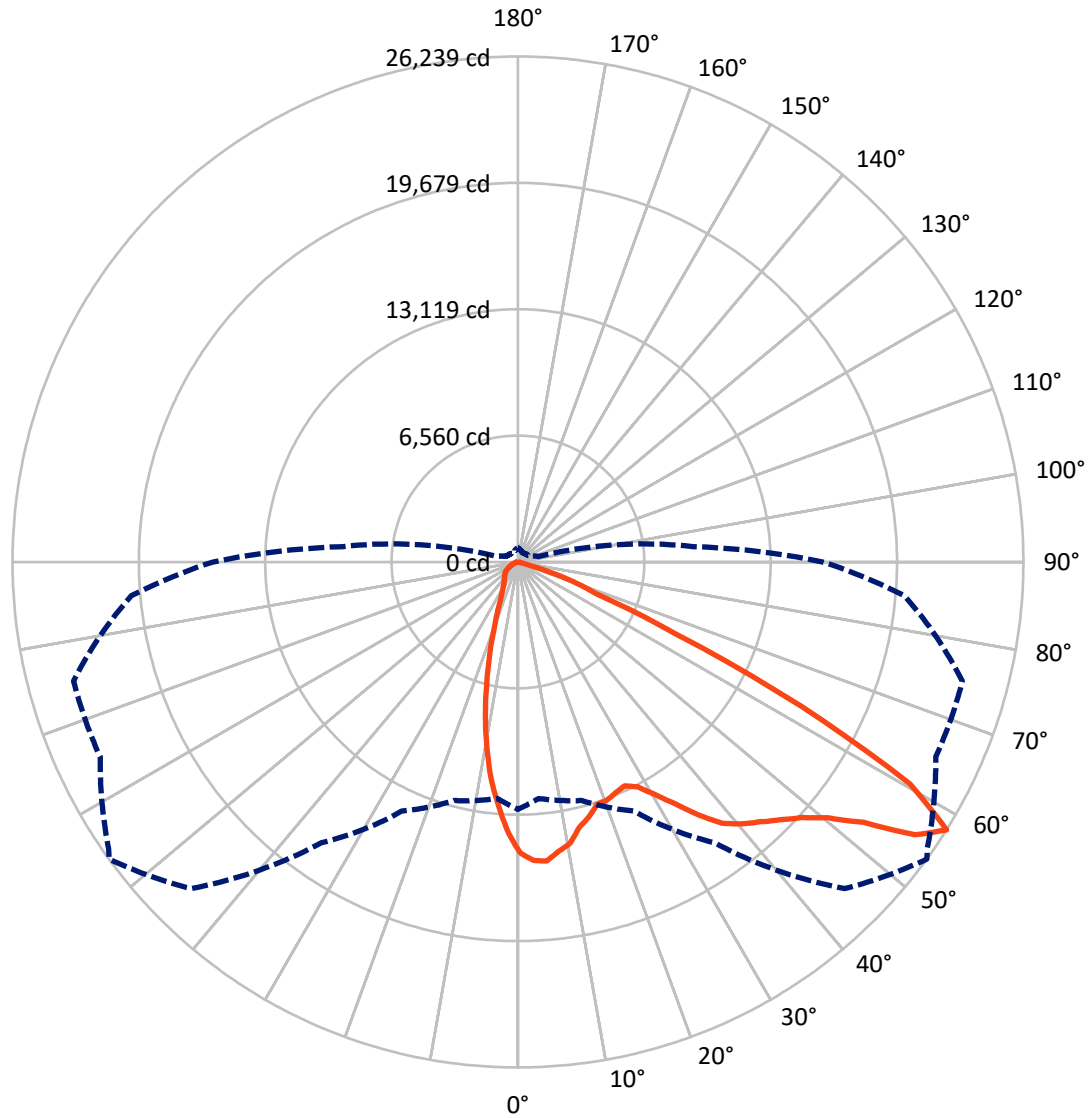
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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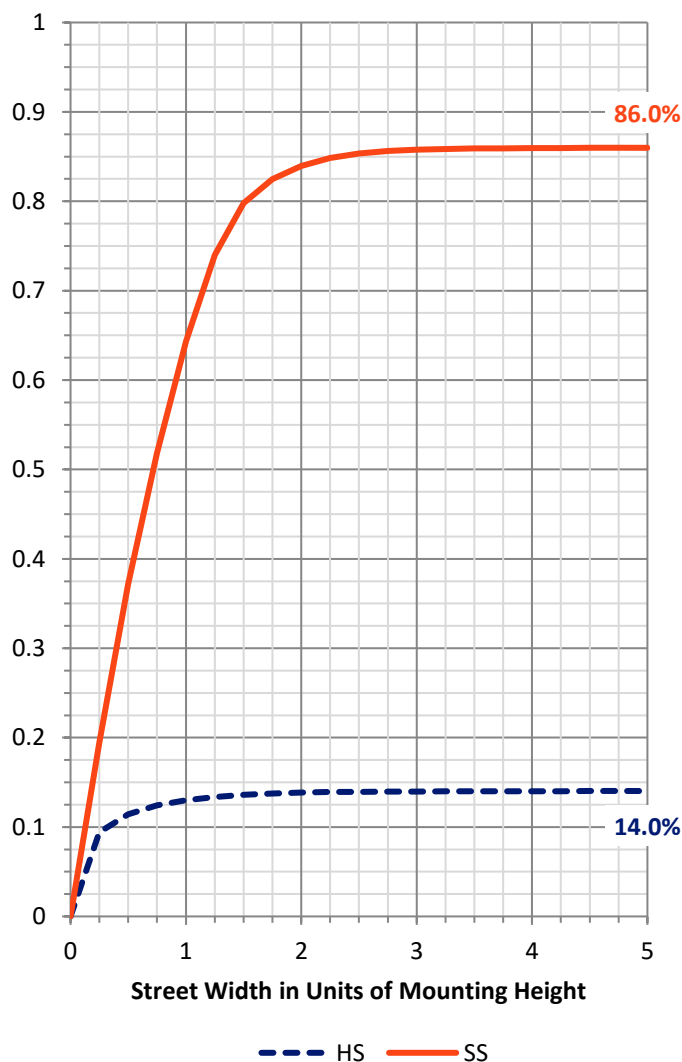
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4847.0 | 0.0 | 4847.0 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 29452.0 | 0.0 | 29452.0 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 34299.0 | 0.0 | 34299.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1264.4 | 3.7 |
| 10°-20° | 2699.4 | 7.9 |
| 20°-30° | 3577.2 | 10.4 |
| 30°-40° | 5198.7 | 15.2 |
| 40°-50° | 7709.0 | 22.5 |
| 50°-60° | 9639.8 | 28.1 |
| 60°-70° | 3802.5 | 11.1 |
| 70°-80° | 378.6 | 1.1 |
| 80°-90° | 29.4 | 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° | 34299.0 | 100.0 |
| 0°-180° | 34299.0 | 100.0 |

Coefficient of Utilization



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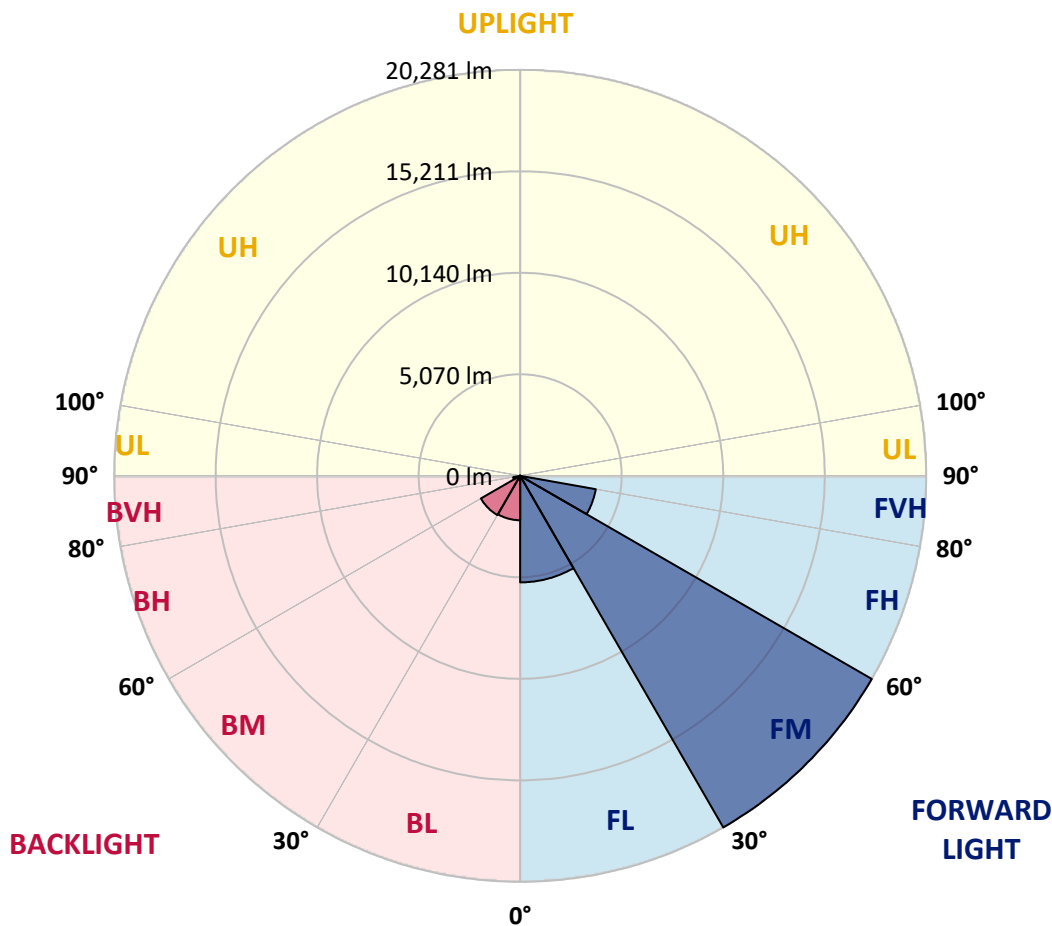
CATALOG NUMBER: GLAN-SA9D-727-U-SL3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5324.2 | 15.5 | | | |
| FM (30°-60°) | 20280.9 | 59.1 | | | |
| FH (60°-80°) | 3833.5 | 11.2 | | | G2/5000 |
| FVH (80°-90°) | 13.4 | 0.0 | | | G1/100 |
| BL (0°-30°) | 2216.8 | 6.5 | B3/2500 | | |
| BM (30°-60°) | 2266.6 | 6.6 | B2/2500 | | |
| BH (60°-80°) | 347.6 | 1.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 16.1 | 0.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 15109.2 | 15109.2 | 15109.2 | 15109.2 | 15109.2 | 15109.2 | 15109.2 | 15109.2 | 15109.2 | 15109.2 | 15109.2 |
| 2.5° | 15989.3 | 15823.5 | 15836.2 | 15778.8 | 15702.3 | 15759.7 | 15511.0 | 15568.4 | 15562.0 | 15224.0 | 15000.7 |
| 5° | 15587.5 | 15766.1 | 15581.1 | 15734.2 | 15587.5 | 15747.0 | 15593.9 | 15479.1 | 15294.1 | 15045.4 | 14630.8 |
| 7.5° | 14905.1 | 14732.9 | 14783.9 | 14975.2 | 15007.1 | 15364.3 | 15172.9 | 15319.6 | 15243.1 | 14752.0 | 14184.4 |
| 10° | 13533.8 | 13495.6 | 13750.7 | 14005.8 | 14318.3 | 14701.0 | 14847.7 | 14764.8 | 14707.4 | 14522.4 | 13763.4 |
| 12.5° | 12481.5 | 12589.9 | 12583.5 | 13004.5 | 13533.8 | 13750.7 | 14133.4 | 14120.6 | 14439.5 | 14095.1 | 13368.0 |
| 15° | 11480.2 | 11537.6 | 11805.4 | 12066.9 | 12653.7 | 13272.3 | 13744.3 | 13808.1 | 14190.8 | 13948.4 | 13061.9 |
| 17.5° | 10867.9 | 10785.0 | 10995.4 | 11308.0 | 11907.5 | 12717.5 | 13240.5 | 13393.5 | 13916.5 | 13865.5 | 12711.1 |
| 20° | 10262.0 | 10262.0 | 10434.2 | 10804.1 | 11352.6 | 12264.6 | 13195.8 | 13151.2 | 13916.5 | 13769.8 | 12334.8 |
| 22.5° | 10057.9 | 10159.9 | 10204.6 | 10485.2 | 11135.8 | 11920.2 | 13004.5 | 13087.4 | 14024.9 | 13725.2 | 12169.0 |
| 25° | 10338.5 | 10204.6 | 10217.3 | 10440.6 | 11052.8 | 11754.4 | 12864.2 | 13049.1 | 14222.6 | 13948.4 | 12035.0 |
| 27.5° | 10383.2 | 10517.1 | 10555.4 | 10708.4 | 11116.6 | 11805.4 | 13214.9 | 13591.2 | 14713.7 | 14471.4 | 12073.3 |
| 30° | 10772.2 | 10906.2 | 10899.8 | 11161.3 | 11441.9 | 12220.0 | 13999.4 | 14076.0 | 15727.8 | 15128.3 | 12309.3 |
| 32.5° | 11244.2 | 11384.5 | 11429.1 | 11735.3 | 11958.5 | 12979.0 | 14956.1 | 15153.8 | 16703.6 | 16161.5 | 12927.9 |
| 35° | 11830.9 | 11779.9 | 11984.0 | 12290.2 | 12768.5 | 14088.7 | 16123.3 | 16454.9 | 17756.0 | 17500.9 | 13565.7 |
| 37.5° | 12564.4 | 12500.6 | 12698.3 | 13195.8 | 13846.4 | 15402.6 | 17201.1 | 17418.0 | 18521.3 | 18744.6 | 14745.6 |
| 40° | 13081.0 | 13106.5 | 13706.0 | 14375.7 | 15064.5 | 16652.6 | 17883.5 | 18094.0 | 19057.1 | 19905.3 | 15638.5 |
| 42.5° | 13942.0 | 14101.5 | 14822.2 | 15638.5 | 16359.2 | 17590.2 | 18438.4 | 18642.5 | 19305.8 | 20836.5 | 16844.0 |
| 45° | 15192.1 | 15121.9 | 15919.2 | 16831.2 | 17628.4 | 18566.0 | 19095.3 | 19025.2 | 19452.5 | 21761.3 | 17602.9 |
| 47.5° | 16799.3 | 16812.1 | 17341.4 | 18119.5 | 18948.6 | 19414.2 | 19828.8 | 19580.1 | 19758.6 | 22737.1 | 18617.0 |
| 50° | 17896.3 | 17992.0 | 18419.3 | 19216.5 | 19631.1 | 20345.4 | 20874.8 | 20721.7 | 20664.3 | 23323.9 | 19254.8 |
| 52.5° | 18176.9 | 18463.9 | 18693.5 | 19688.5 | 20657.9 | 21786.8 | 22462.9 | 22788.1 | 21767.7 | 23521.6 | 20064.8 |
| 55° | 16059.5 | 16314.6 | 17124.6 | 18489.4 | 21047.0 | 24070.1 | 25001.2 | 25007.6 | 23209.1 | 24401.7 | 20632.4 |
| 57.5° | 12838.6 | 12322.0 | 12819.5 | 14267.3 | 17794.3 | 23974.4 | 26238.6 | 25938.8 | 23929.8 | 23885.1 | 20141.3 |
| 60° | 8878.0 | 8750.4 | 8782.3 | 9356.3 | 12315.7 | 19069.8 | 23381.3 | 23770.3 | 22035.5 | 20702.6 | 15944.7 |
| 62.5° | 7034.8 | 6926.4 | 6786.1 | 6722.3 | 7647.1 | 11882.0 | 16493.2 | 17041.7 | 15408.9 | 13425.4 | 9452.0 |
| 65° | 5510.5 | 5446.7 | 5465.8 | 5720.9 | 5714.6 | 6741.4 | 9018.3 | 8795.1 | 7041.2 | 5204.3 | 2972.1 |
| 67.5° | 3718.3 | 3814.0 | 3890.5 | 4662.2 | 5057.6 | 4694.1 | 4356.1 | 4228.5 | 2289.7 | 963.1 | 656.9 |
| 70° | 2091.9 | 2104.7 | 2187.6 | 2914.7 | 3839.5 | 3641.8 | 3004.0 | 3004.0 | 1141.6 | 350.8 | 376.3 |
| 72.5° | 1141.6 | 1103.4 | 1026.8 | 1256.4 | 1709.3 | 1734.8 | 1339.4 | 1167.1 | 338.0 | 229.6 | 210.5 |
| 75° | 554.9 | 548.5 | 472.0 | 389.0 | 369.9 | 306.1 | 236.0 | 216.8 | 153.1 | 146.7 | 127.6 |
| 77.5° | 114.8 | 108.4 | 57.4 | 57.4 | 63.8 | 70.2 | 89.3 | 89.3 | 108.4 | 108.4 | 89.3 |
| 80° | 0.0 | 0.0 | 6.4 | 25.5 | 44.6 | 63.8 | 76.5 | 76.5 | 89.3 | 89.3 | 70.2 |
| 82.5° | 0.0 | 0.0 | 6.4 | 19.1 | 38.3 | 57.4 | 70.2 | 76.5 | 89.3 | 95.7 | 76.5 |
| 85° | 0.0 | 0.0 | 0.0 | 12.8 | 31.9 | 44.6 | 38.3 | 38.3 | 31.9 | 25.5 | 12.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 15109.2 | 15109.2 | 15109.2 | 15109.2 | 15109.2 | 15109.2 | 15109.2 | 15109.2 | 15109.2 | 15109.2 | 15109.2 |
| 2.5° | 14885.9 | 14873.2 | 14579.8 | 14414.0 | 14114.2 | 13852.7 | 13642.3 | 13489.2 | 13489.2 | 13393.5 | 13304.2 |
| 5° | 14465.0 | 14356.6 | 13731.6 | 13329.7 | 12762.1 | 12341.2 | 12054.2 | 11830.9 | 11480.2 | 11575.8 | 11199.5 |
| 7.5° | 13942.0 | 13667.8 | 12838.6 | 12226.4 | 11441.9 | 10842.4 | 10230.1 | 9688.0 | 9165.0 | 8929.0 | 9056.6 |
| 10° | 13380.8 | 12902.4 | 11786.3 | 10816.9 | 9841.1 | 8744.1 | 8029.7 | 7162.3 | 6626.6 | 6594.7 | 6454.4 |
| 12.5° | 12787.6 | 12245.5 | 10887.0 | 9547.7 | 8265.7 | 6945.5 | 5854.9 | 5044.9 | 4681.4 | 4279.5 | 4356.1 |
| 15° | 12341.2 | 11537.6 | 9885.7 | 8272.1 | 6569.2 | 5236.2 | 4139.2 | 3514.2 | 3169.8 | 3074.1 | 3042.2 |
| 17.5° | 11856.5 | 10995.4 | 8865.2 | 6913.6 | 5153.3 | 3769.3 | 2978.5 | 2678.7 | 2544.8 | 2544.8 | 2525.6 |
| 20° | 11352.6 | 10383.2 | 7851.2 | 5650.8 | 3865.0 | 2812.6 | 2385.3 | 2289.7 | 2283.3 | 2276.9 | 2276.9 |
| 22.5° | 11021.0 | 9681.6 | 6932.7 | 4490.0 | 2914.7 | 2251.4 | 2072.8 | 2034.5 | 2060.1 | 2136.6 | 2136.6 |
| 25° | 10670.2 | 9005.6 | 5918.7 | 3463.2 | 2257.8 | 1932.5 | 1830.4 | 1856.0 | 1919.7 | 1989.9 | 1964.4 |
| 27.5° | 10313.0 | 8565.5 | 4962.0 | 2717.0 | 1849.6 | 1690.1 | 1651.9 | 1709.3 | 1779.4 | 1843.2 | 1824.1 |
| 30° | 10230.1 | 8093.5 | 4056.3 | 2060.1 | 1588.1 | 1473.3 | 1498.8 | 1549.8 | 1620.0 | 1645.5 | 1671.0 |
| 32.5° | 10357.7 | 7723.6 | 3322.9 | 1690.1 | 1384.0 | 1352.1 | 1352.1 | 1377.6 | 1422.3 | 1479.7 | 1460.5 |
| 35° | 10721.2 | 7513.1 | 2627.7 | 1466.9 | 1269.2 | 1237.3 | 1230.9 | 1256.4 | 1282.0 | 1301.1 | 1282.0 |
| 37.5° | 11276.1 | 7347.3 | 2149.3 | 1301.1 | 1192.7 | 1141.6 | 1128.9 | 1122.5 | 1148.0 | 1154.4 | 1167.1 |
| 40° | 11984.0 | 7436.6 | 1824.1 | 1199.0 | 1116.1 | 1058.7 | 1020.5 | 1020.5 | 1020.5 | 1039.6 | 1046.0 |
| 42.5° | 12749.4 | 7557.8 | 1575.3 | 1141.6 | 1046.0 | 975.8 | 937.5 | 924.8 | 937.5 | 963.1 | 956.7 |
| 45° | 13553.0 | 7793.8 | 1415.9 | 1052.3 | 982.2 | 892.9 | 841.9 | 829.1 | 861.0 | 912.0 | 905.7 |
| 47.5° | 14305.6 | 8131.8 | 1294.7 | 994.9 | 918.4 | 835.5 | 771.7 | 759.0 | 816.4 | 886.5 | 892.9 |
| 50° | 15058.1 | 8718.5 | 1250.1 | 950.3 | 873.8 | 778.1 | 720.7 | 707.9 | 771.7 | 861.0 | 880.1 |
| 52.5° | 15925.5 | 9350.0 | 1218.2 | 892.9 | 822.7 | 733.5 | 669.7 | 656.9 | 727.1 | 841.9 | 848.3 |
| 55° | 16493.2 | 9885.7 | 1192.7 | 790.9 | 727.1 | 663.3 | 612.3 | 605.9 | 682.4 | 784.5 | 810.0 |
| 57.5° | 15829.9 | 9139.5 | 1103.4 | 688.8 | 618.7 | 586.8 | 542.1 | 542.1 | 605.9 | 701.6 | 720.7 |
| 60° | 12003.1 | 6014.3 | 784.5 | 554.9 | 523.0 | 503.9 | 484.7 | 484.7 | 535.7 | 605.9 | 612.3 |
| 62.5° | 7028.4 | 3240.0 | 503.9 | 446.5 | 446.5 | 427.3 | 395.4 | 395.4 | 446.5 | 484.7 | 491.1 |
| 65° | 2085.6 | 1039.6 | 408.2 | 382.7 | 376.3 | 344.4 | 312.5 | 306.1 | 344.4 | 363.5 | 357.2 |
| 67.5° | 599.5 | 478.3 | 338.0 | 318.9 | 312.5 | 261.5 | 242.4 | 236.0 | 242.4 | 229.6 | 223.2 |
| 70° | 357.2 | 325.3 | 261.5 | 267.9 | 236.0 | 191.3 | 172.2 | 165.8 | 153.1 | 133.9 | 121.2 |
| 72.5° | 197.7 | 197.7 | 191.3 | 204.1 | 165.8 | 127.6 | 108.4 | 89.3 | 70.2 | 57.4 | 51.0 |
| 75° | 121.2 | 127.6 | 133.9 | 140.3 | 108.4 | 82.9 | 70.2 | 44.6 | 25.5 | 12.8 | 12.8 |
| 77.5° | 82.9 | 89.3 | 95.7 | 102.0 | 89.3 | 76.5 | 57.4 | 31.9 | 6.4 | 0.0 | 0.0 |
| 80° | 63.8 | 70.2 | 82.9 | 89.3 | 95.7 | 102.0 | 76.5 | 31.9 | 6.4 | 0.0 | 0.0 |
| 82.5° | 70.2 | 76.5 | 95.7 | 89.3 | 89.3 | 89.3 | 70.2 | 31.9 | 6.4 | 0.0 | 0.0 |
| 85° | 12.8 | 19.1 | 31.9 | 31.9 | 44.6 | 57.4 | 44.6 | 12.8 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)