

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: P194476

Luminaire Tested: **GAN-AF-08-LED-U-SL3-7060-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-08-LED-U-SL3-7060-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40755 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 445
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: 28.75 FT

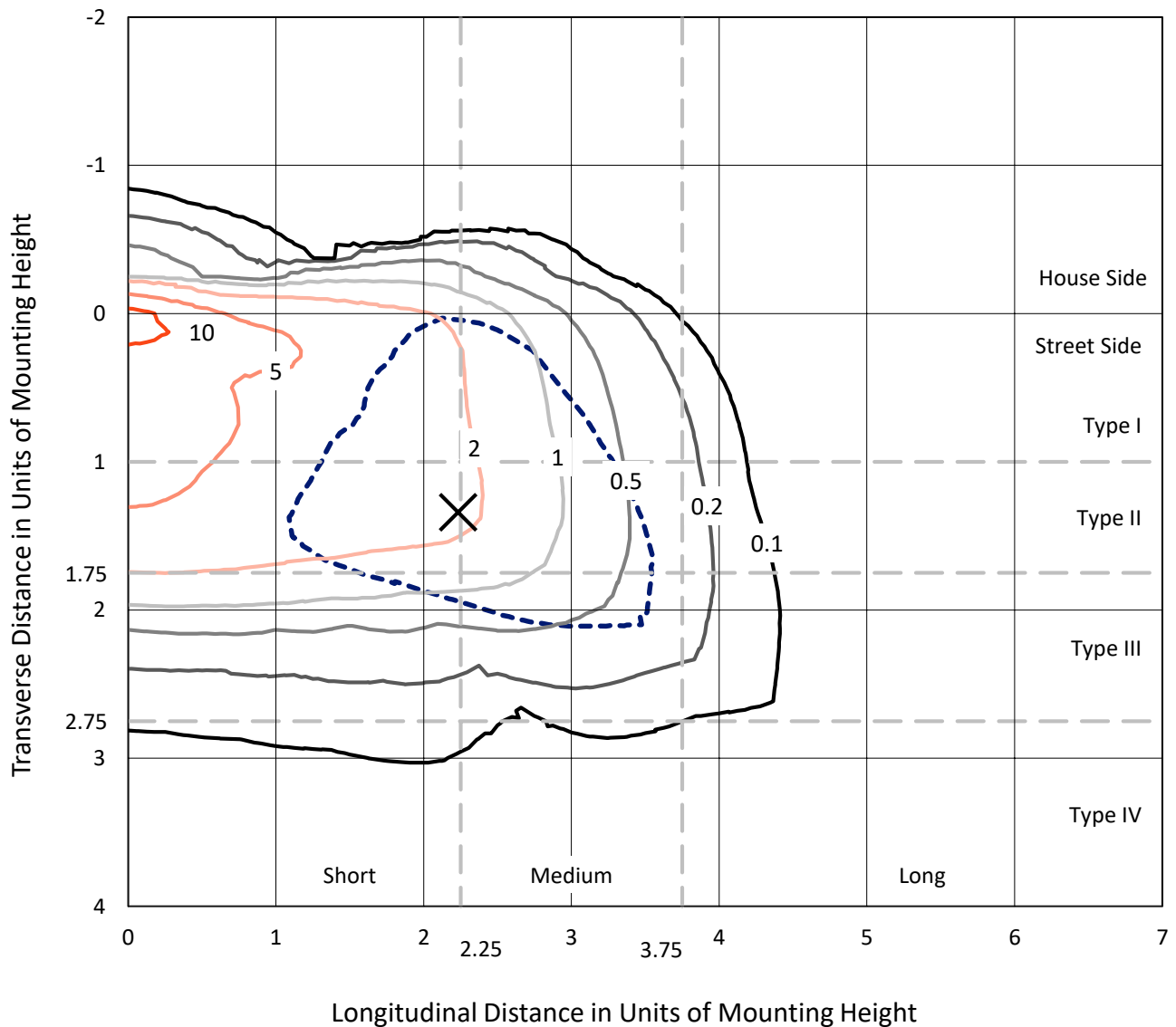


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

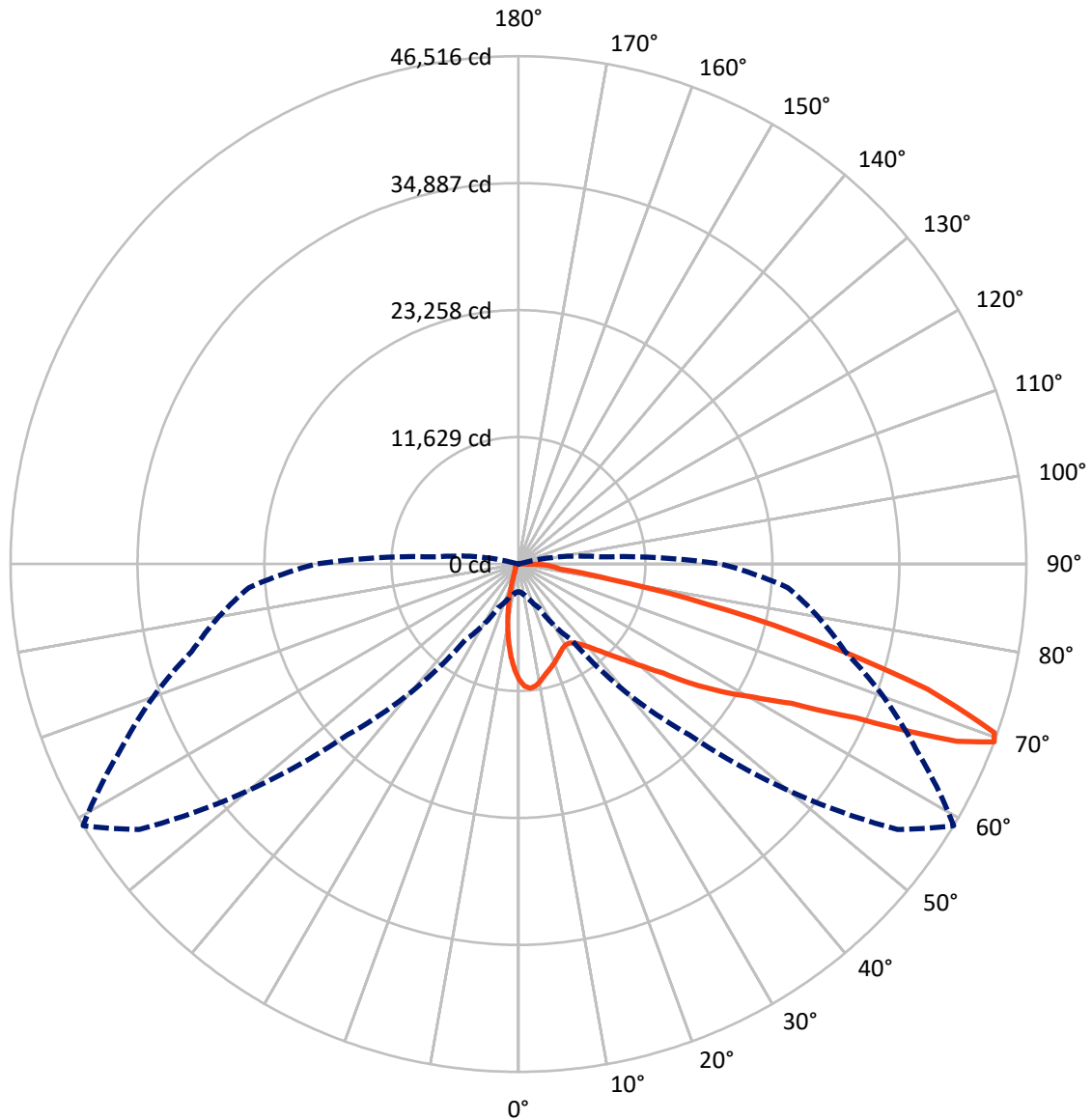


Based on 30 foot mounting height. Maximum calculated value = 11.8 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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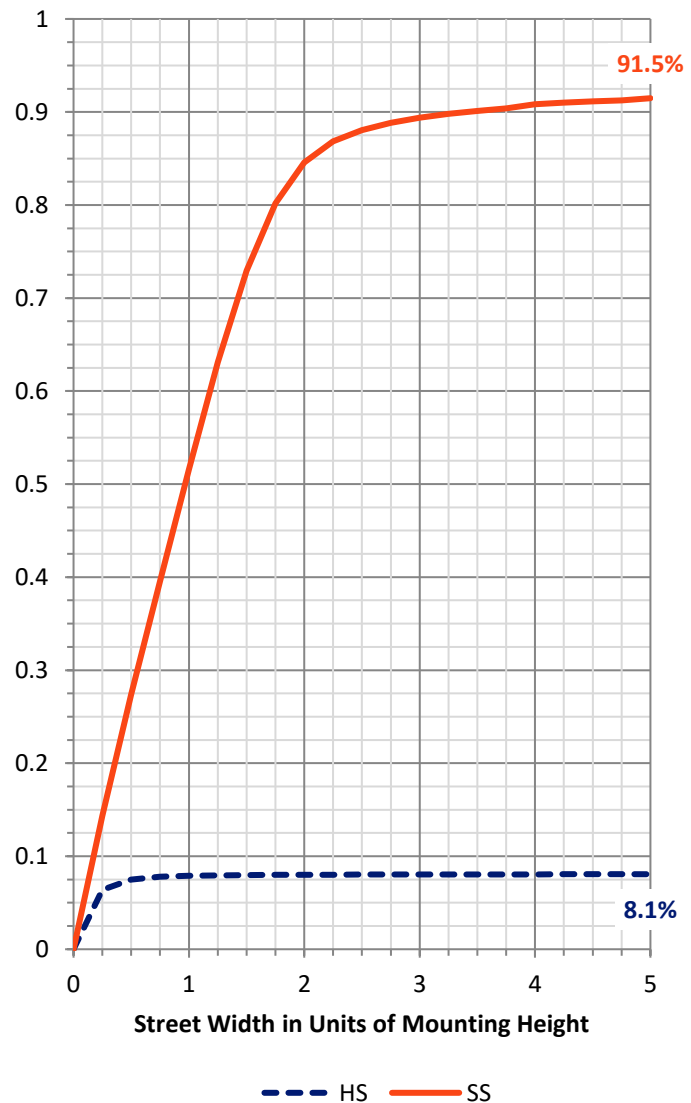
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3319.0 | 0.0 | 3319.0 |
| | % Fixture | 8.1 | 0.0 | 8.1 |
| Street Side | Lumens | 37436.0 | 0.0 | 37436.0 |
| | % Fixture | 91.9 | 0.0 | 91.9 |
| Total | Lumens | 40755.0 | 0.0 | 40755.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 861.1 | 2.1 |
| 10°-20° | 1779.2 | 4.4 |
| 20°-30° | 2394.1 | 5.9 |
| 30°-40° | 3476.1 | 8.5 |
| 40°-50° | 5788.0 | 14.2 |
| 50°-60° | 9029.1 | 22.2 |
| 60°-70° | 11172.8 | 27.4 |
| 70°-80° | 5662.3 | 13.9 |
| 80°-90° | 592.5 | 1.5 |
| 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° | 40755.0 | 100.0 |
| 0°-180° | 40755.0 | 100.0 |



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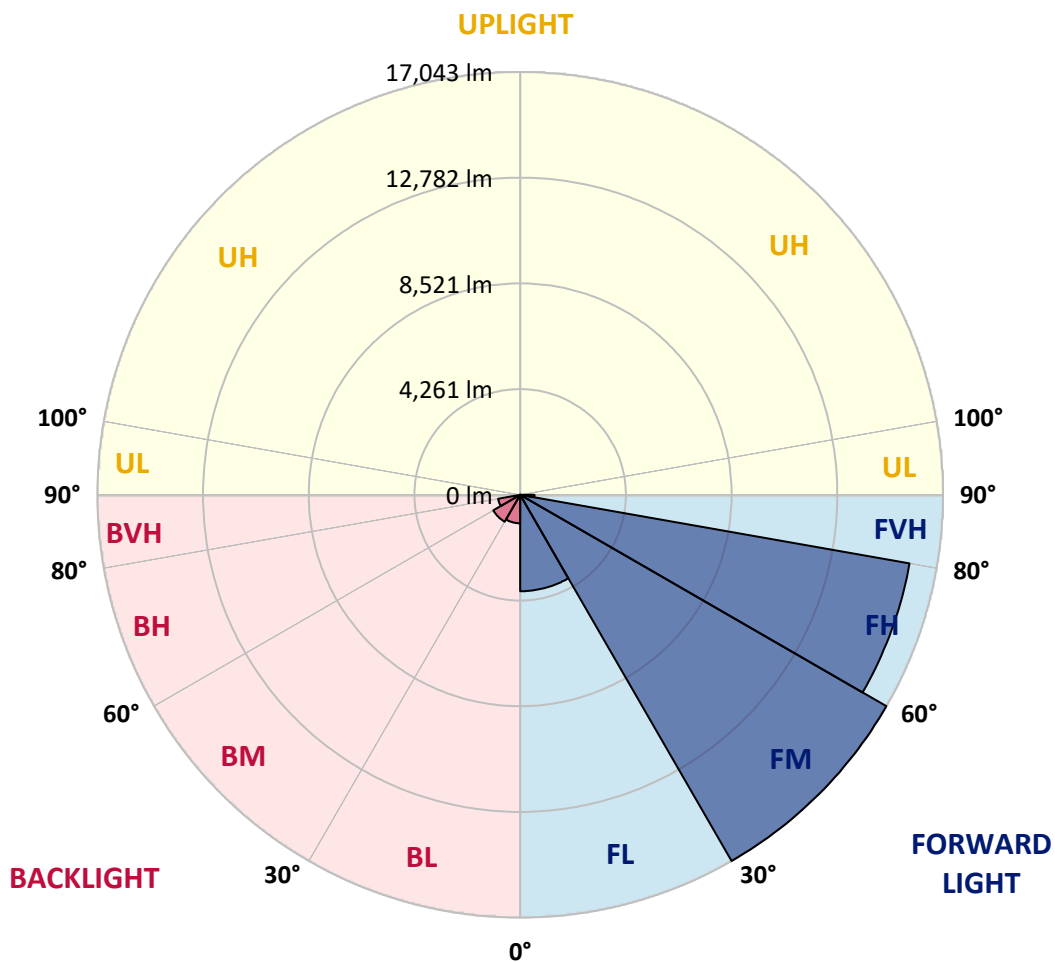
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3885.5 | 9.5 | | | |
| FM (30°-60°) | 17042.5 | 41.8 | | | |
| FH (60°-80°) | 15933.7 | 39.1 | | | G5 |
| FVH (80°-90°) | 574.2 | 1.4 | | | G4/750 |
| BL (0°-30°) | 1148.8 | 2.8 | B3/2500 | | |
| BM (30°-60°) | 1250.6 | 3.1 | B2/2500 | | |
| BH (60°-80°) | 901.3 | 2.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 18.2 | 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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10608.0 | 10608.0 | 10608.0 | 10608.0 | 10608.0 | 10608.0 | 10608.0 | 10608.0 | 10608.0 | 10608.0 | 10608.0 |
| 2.5° | 11626.6 | 11622.0 | 11571.3 | 11548.2 | 11506.7 | 11419.2 | 11283.2 | 11211.8 | 11096.5 | 10896.0 | 10626.4 |
| 5° | 11520.6 | 11575.9 | 11605.8 | 11608.1 | 11638.1 | 11605.8 | 11483.7 | 11423.8 | 11264.8 | 10942.1 | 10458.2 |
| 7.5° | 10801.5 | 10822.3 | 10907.6 | 10981.3 | 11124.2 | 11260.2 | 11303.9 | 11278.6 | 11184.1 | 10838.4 | 10195.4 |
| 10° | 10031.8 | 10052.6 | 10154.0 | 10250.8 | 10444.3 | 10654.1 | 10875.3 | 10921.4 | 10960.6 | 10690.9 | 9941.9 |
| 12.5° | 9368.1 | 9388.8 | 9492.5 | 9619.3 | 9845.1 | 10103.3 | 10446.6 | 10522.7 | 10695.5 | 10550.3 | 9739.1 |
| 15° | 8796.6 | 8805.8 | 8907.2 | 9063.9 | 9333.5 | 9665.4 | 10054.9 | 10177.0 | 10442.0 | 10451.3 | 9561.7 |
| 17.5° | 8310.3 | 8333.3 | 8395.6 | 8545.4 | 8840.4 | 9250.6 | 9704.6 | 9879.7 | 10190.8 | 10368.3 | 9388.8 |
| 20° | 8013.0 | 8036.1 | 8033.8 | 8116.7 | 8381.7 | 8819.6 | 9354.3 | 9564.0 | 9941.9 | 10283.0 | 9234.4 |
| 22.5° | 7955.4 | 7955.4 | 7895.5 | 7884.0 | 8040.7 | 8407.1 | 8990.2 | 9246.0 | 9718.4 | 10246.1 | 9126.1 |
| 25° | 8160.5 | 8151.3 | 8001.5 | 7879.3 | 7886.3 | 8105.2 | 8637.6 | 8941.8 | 9529.4 | 10271.5 | 9068.5 |
| 27.5° | 8593.8 | 8582.2 | 8393.3 | 8160.5 | 7973.8 | 7971.5 | 8370.2 | 8697.5 | 9379.6 | 10391.3 | 9091.6 |
| 30° | 9193.0 | 9188.3 | 8983.2 | 8690.6 | 8351.8 | 8040.7 | 8278.0 | 8575.3 | 9282.8 | 10608.0 | 9144.6 |
| 32.5° | 9847.5 | 9840.5 | 9686.1 | 9377.3 | 8948.7 | 8351.8 | 8374.8 | 8623.7 | 9310.5 | 10896.0 | 9273.6 |
| 35° | 10541.1 | 10529.6 | 10462.8 | 10193.1 | 9720.7 | 8925.6 | 8692.9 | 8886.4 | 9485.6 | 11327.0 | 9527.1 |
| 37.5° | 11292.4 | 11303.9 | 11352.3 | 11094.2 | 10598.7 | 9729.9 | 9225.2 | 9356.6 | 9838.2 | 11912.4 | 9939.6 |
| 40° | 12400.9 | 12398.6 | 12414.8 | 12076.0 | 11598.9 | 10714.0 | 9969.6 | 10011.1 | 10428.2 | 12689.0 | 10566.5 |
| 42.5° | 14412.8 | 14272.2 | 13845.9 | 13154.5 | 12675.2 | 11838.6 | 10907.6 | 10863.8 | 11149.5 | 13650.0 | 11444.5 |
| 45° | 17116.1 | 16816.5 | 15710.3 | 14385.2 | 13772.1 | 13106.1 | 12062.2 | 11921.6 | 12103.6 | 14804.6 | 12527.7 |
| 47.5° | 19441.4 | 19130.3 | 17565.5 | 15666.5 | 14936.0 | 14309.1 | 13414.9 | 13161.4 | 13221.4 | 16097.5 | 13901.2 |
| 50° | 20231.9 | 20079.8 | 18713.2 | 16781.9 | 16062.9 | 15823.2 | 14984.4 | 14675.5 | 14590.3 | 17593.1 | 15493.7 |
| 52.5° | 19957.6 | 19946.1 | 19035.8 | 17505.6 | 17095.3 | 17390.3 | 16959.4 | 16602.2 | 16288.7 | 19169.5 | 17113.8 |
| 55° | 19517.5 | 19575.1 | 19167.2 | 18139.3 | 18125.5 | 18821.5 | 19660.3 | 19363.0 | 18455.0 | 20881.8 | 18510.4 |
| 57.5° | 18302.9 | 18549.5 | 19093.4 | 19337.7 | 19904.6 | 20616.7 | 21909.6 | 22084.8 | 21010.8 | 22193.1 | 19669.6 |
| 60° | 14850.7 | 15392.3 | 17171.4 | 19510.5 | 22197.7 | 23972.2 | 24624.4 | 24774.2 | 23108.0 | 23283.1 | 21234.4 |
| 62.5° | 10541.1 | 11094.2 | 13350.4 | 17307.4 | 22232.2 | 28380.9 | 28668.9 | 28081.3 | 25417.2 | 24898.6 | 23933.0 |
| 65° | 5595.5 | 6021.9 | 7865.5 | 12493.1 | 19275.5 | 29404.1 | 35741.7 | 33990.2 | 29491.7 | 28076.6 | 27419.8 |
| 67.5° | 2862.3 | 2991.3 | 3724.2 | 6114.0 | 13251.3 | 26117.8 | 42081.6 | 43314.5 | 36513.7 | 31229.3 | 27251.6 |
| 69° | 2532.7 | 2608.8 | 3095.0 | 4420.2 | 8485.4 | 22121.6 | 42390.4 | 46515.6 | 40189.5 | 30966.6 | 24765.0 |
| 70° | 2452.1 | 2518.9 | 2961.4 | 4000.7 | 6632.6 | 18551.8 | 41208.1 | 46234.4 | 41129.8 | 29966.4 | 22907.5 |
| 72.5° | 2081.0 | 2138.6 | 2636.4 | 3535.2 | 5390.4 | 9209.1 | 33474.0 | 39177.8 | 36907.8 | 24963.2 | 16581.4 |
| 75° | 1392.0 | 1580.9 | 2530.4 | 3314.0 | 5014.8 | 5231.4 | 22068.6 | 28311.7 | 26299.8 | 16837.2 | 8637.6 |
| 77.5° | 334.2 | 359.5 | 714.4 | 2636.4 | 4586.1 | 4604.5 | 11350.0 | 17600.0 | 14355.2 | 6001.1 | 2041.9 |
| 80° | 179.8 | 172.8 | 200.5 | 523.1 | 4270.4 | 4321.1 | 5109.2 | 8543.1 | 5125.4 | 995.6 | 672.9 |
| 82.5° | 126.8 | 119.8 | 129.1 | 218.9 | 1343.6 | 3936.2 | 3696.5 | 3867.1 | 2124.8 | 382.6 | 301.9 |
| 85° | 46.1 | 43.8 | 71.4 | 198.2 | 421.7 | 2263.1 | 3797.9 | 3189.5 | 1721.5 | 175.1 | 221.2 |
| 87.5° | 16.1 | 13.8 | 27.7 | 108.3 | 129.1 | 963.3 | 2343.8 | 2410.6 | 677.5 | 106.0 | 103.7 |
| 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° | 10608.0 | 10608.0 | 10608.0 | 10608.0 | 10608.0 | 10608.0 | 10608.0 | 10608.0 | 10608.0 | 10608.0 | 10608.0 |
| 2.5° | 10513.5 | 10370.6 | 10107.9 | 9838.2 | 9589.3 | 9289.7 | 9139.9 | 8992.5 | 8930.2 | 8907.2 | 8798.9 |
| 5° | 10209.3 | 9967.3 | 9409.6 | 8849.6 | 8333.3 | 7784.9 | 7423.0 | 7132.7 | 6962.1 | 6879.2 | 6747.8 |
| 7.5° | 9819.8 | 9423.4 | 8577.6 | 7713.4 | 6909.1 | 6116.3 | 5528.7 | 5077.0 | 4765.9 | 4616.1 | 4480.1 |
| 10° | 9441.8 | 8914.1 | 7711.1 | 6533.5 | 5441.1 | 4390.2 | 3579.0 | 2991.3 | 2615.7 | 2442.9 | 2332.2 |
| 12.5° | 9103.1 | 8418.6 | 6874.6 | 5383.5 | 4012.3 | 2781.6 | 1956.6 | 1488.8 | 1256.0 | 1175.3 | 1136.2 |
| 15° | 8801.2 | 7962.3 | 6084.1 | 4291.1 | 2717.1 | 1590.2 | 1069.3 | 910.3 | 873.4 | 873.4 | 868.8 |
| 17.5° | 8515.4 | 7515.2 | 5321.3 | 3265.6 | 1705.4 | 972.5 | 813.5 | 792.8 | 792.8 | 802.0 | 802.0 |
| 20° | 8241.2 | 7088.9 | 4583.8 | 2343.8 | 1073.9 | 772.0 | 735.2 | 730.6 | 735.2 | 746.7 | 746.7 |
| 22.5° | 8006.1 | 6701.7 | 3894.7 | 1608.6 | 797.4 | 696.0 | 677.5 | 670.6 | 672.9 | 679.8 | 684.5 |
| 25° | 7830.9 | 6374.5 | 3244.8 | 1090.1 | 686.8 | 633.8 | 613.0 | 601.5 | 592.3 | 592.3 | 596.9 |
| 27.5° | 7720.3 | 6097.9 | 2615.7 | 792.8 | 617.6 | 576.1 | 543.9 | 525.4 | 504.7 | 493.2 | 497.8 |
| 30° | 7639.7 | 5835.2 | 2025.7 | 647.6 | 553.1 | 511.6 | 470.1 | 440.2 | 410.2 | 396.4 | 401.0 |
| 32.5° | 7609.7 | 5623.2 | 1514.1 | 571.5 | 495.5 | 449.4 | 398.7 | 359.5 | 327.2 | 315.7 | 318.0 |
| 35° | 7690.4 | 5454.9 | 1108.5 | 516.2 | 449.4 | 391.8 | 334.2 | 290.4 | 265.0 | 258.1 | 260.4 |
| 37.5° | 7902.4 | 5365.1 | 829.6 | 470.1 | 407.9 | 343.4 | 278.9 | 237.4 | 221.2 | 221.2 | 223.5 |
| 40° | 8303.4 | 5362.7 | 666.0 | 437.9 | 371.0 | 297.3 | 230.5 | 200.5 | 191.3 | 195.9 | 198.2 |
| 42.5° | 8888.7 | 5484.9 | 580.8 | 407.9 | 338.8 | 253.5 | 191.3 | 170.5 | 168.2 | 172.8 | 175.1 |
| 45° | 9688.4 | 5708.4 | 534.7 | 382.6 | 304.2 | 212.0 | 161.3 | 147.5 | 147.5 | 154.4 | 156.7 |
| 47.5° | 10667.9 | 6035.7 | 495.5 | 357.2 | 269.6 | 177.5 | 138.3 | 129.1 | 131.4 | 138.3 | 140.6 |
| 50° | 11847.8 | 6448.2 | 456.3 | 329.6 | 244.3 | 147.5 | 119.8 | 112.9 | 115.2 | 124.4 | 126.8 |
| 52.5° | 13191.4 | 7003.6 | 424.0 | 304.2 | 212.0 | 122.1 | 101.4 | 96.8 | 101.4 | 110.6 | 112.9 |
| 55° | 14343.7 | 7501.4 | 384.9 | 283.5 | 170.5 | 101.4 | 83.0 | 83.0 | 87.6 | 99.1 | 101.4 |
| 57.5° | 15452.2 | 8022.2 | 350.3 | 244.3 | 133.7 | 80.7 | 69.1 | 71.4 | 78.4 | 89.9 | 92.2 |
| 60° | 17079.2 | 8904.9 | 308.8 | 205.1 | 101.4 | 64.5 | 57.6 | 59.9 | 69.1 | 80.7 | 83.0 |
| 62.5° | 19842.4 | 10248.4 | 267.3 | 170.5 | 78.4 | 50.7 | 46.1 | 50.7 | 62.2 | 76.1 | 78.4 |
| 65° | 22336.0 | 10794.6 | 218.9 | 142.9 | 59.9 | 39.2 | 39.2 | 46.1 | 59.9 | 73.7 | 76.1 |
| 67.5° | 20946.3 | 9086.9 | 170.5 | 112.9 | 46.1 | 30.0 | 32.3 | 43.8 | 57.6 | 73.7 | 76.1 |
| 69° | 18524.2 | 7430.0 | 145.2 | 89.9 | 39.2 | 27.7 | 30.0 | 43.8 | 57.6 | 71.4 | 73.7 |
| 70° | 16636.7 | 6273.1 | 129.1 | 76.1 | 34.6 | 27.7 | 30.0 | 41.5 | 57.6 | 71.4 | 73.7 |
| 72.5° | 11142.6 | 3387.7 | 103.7 | 55.3 | 32.3 | 25.4 | 25.4 | 41.5 | 55.3 | 69.1 | 71.4 |
| 75° | 4788.9 | 935.7 | 83.0 | 39.2 | 27.7 | 23.0 | 23.0 | 39.2 | 53.0 | 66.8 | 71.4 |
| 77.5° | 875.7 | 237.4 | 66.8 | 34.6 | 27.7 | 23.0 | 20.7 | 36.9 | 50.7 | 64.5 | 66.8 |
| 80° | 348.0 | 117.5 | 53.0 | 30.0 | 25.4 | 20.7 | 18.4 | 34.6 | 48.4 | 62.2 | 64.5 |
| 82.5° | 209.7 | 66.8 | 43.8 | 27.7 | 25.4 | 18.4 | 16.1 | 30.0 | 46.1 | 59.9 | 62.2 |
| 85° | 170.5 | 46.1 | 34.6 | 27.7 | 23.0 | 18.4 | 13.8 | 27.7 | 41.5 | 57.6 | 59.9 |
| 87.5° | 83.0 | 32.3 | 32.3 | 25.4 | 23.0 | 18.4 | 13.8 | 25.4 | 39.2 | 55.3 | 57.6 |
| 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)