

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: P268600

Luminaire Tested: **GAN-AF-06-LED-U-SL3-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268600
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-06-LED-U-SL3-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 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: 26424.4 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

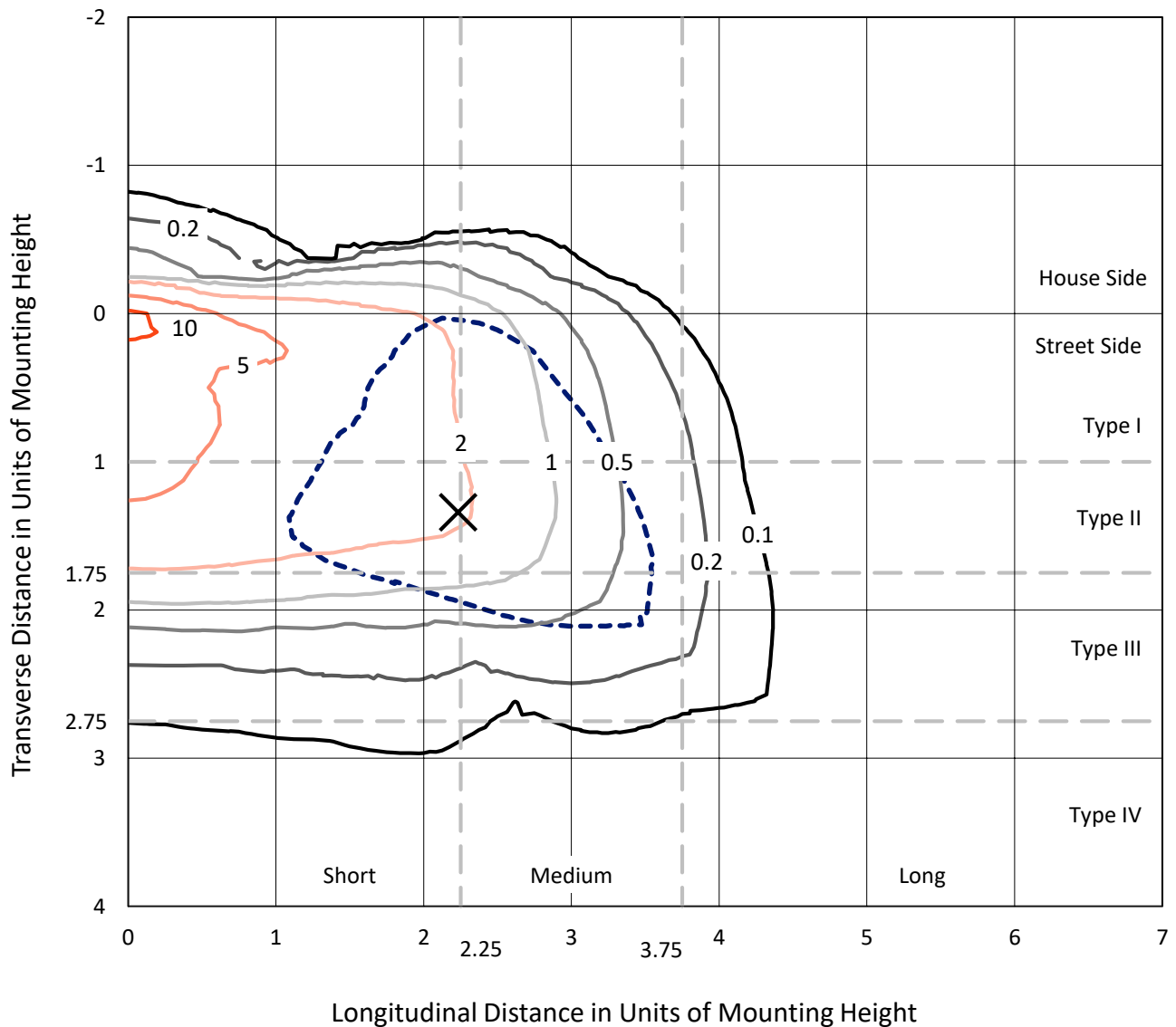
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

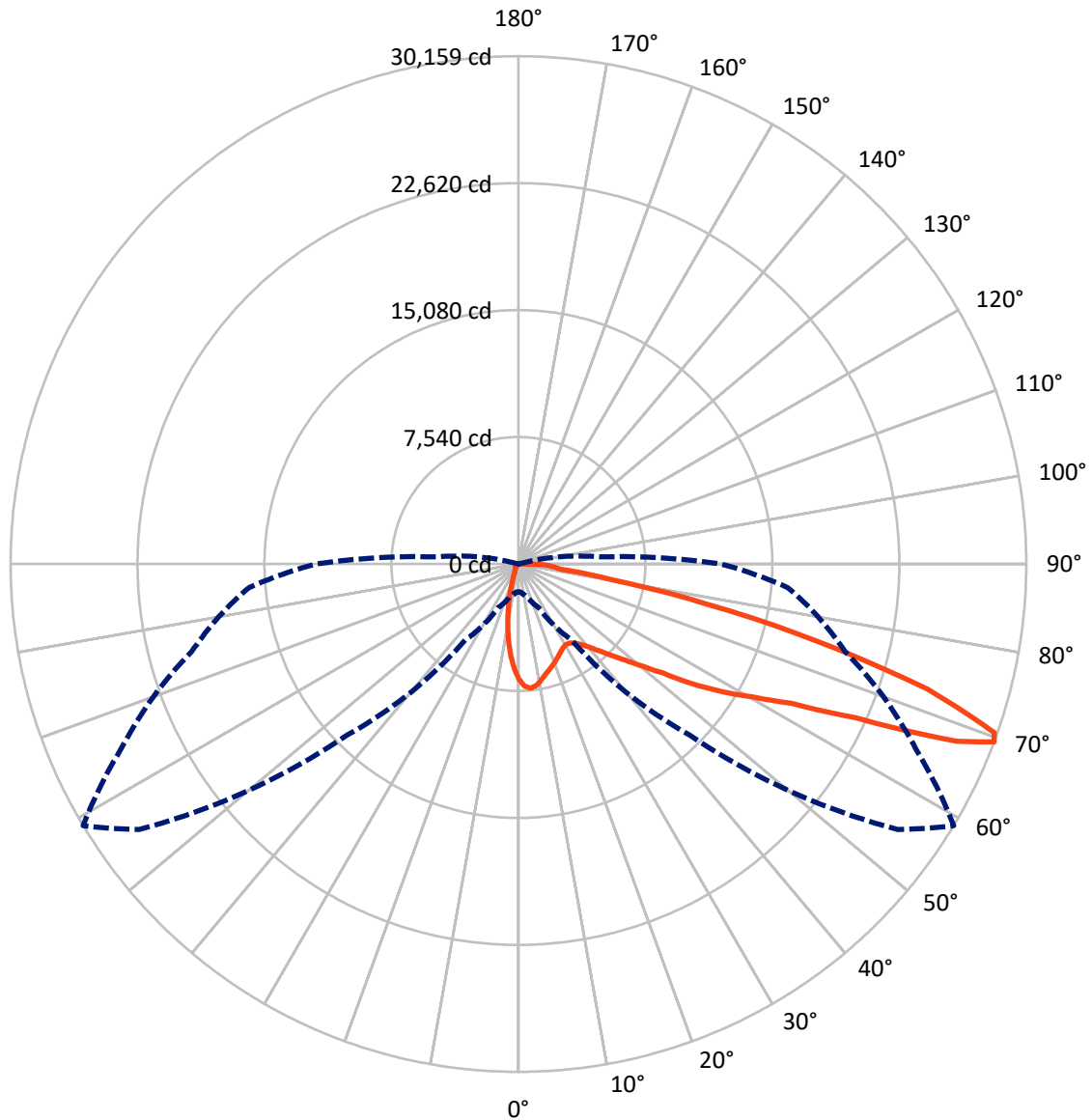
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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 | 2151.9 | 0.0 | 2151.9 |
| | % Fixture | 8.1 | 0.0 | 8.1 |
| Street Side | Lumens | 24272.5 | 0.0 | 24272.5 |
| | % Fixture | 91.9 | 0.0 | 91.9 |
| Total | Lumens | 26424.4 | 0.0 | 26424.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 558.3 | 2.1 |
| 10°-20° | 1153.6 | 4.4 |
| 20°-30° | 1552.3 | 5.9 |
| 30°-40° | 2253.8 | 8.5 |
| 40°-50° | 3752.8 | 14.2 |
| 50°-60° | 5854.2 | 22.2 |
| 60°-70° | 7244.1 | 27.4 |
| 70°-80° | 3671.2 | 13.9 |
| 80°-90° | 384.1 | 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° | 26424.4 | 100.0 |
| 0°-180° | 26424.4 | 100.0 |



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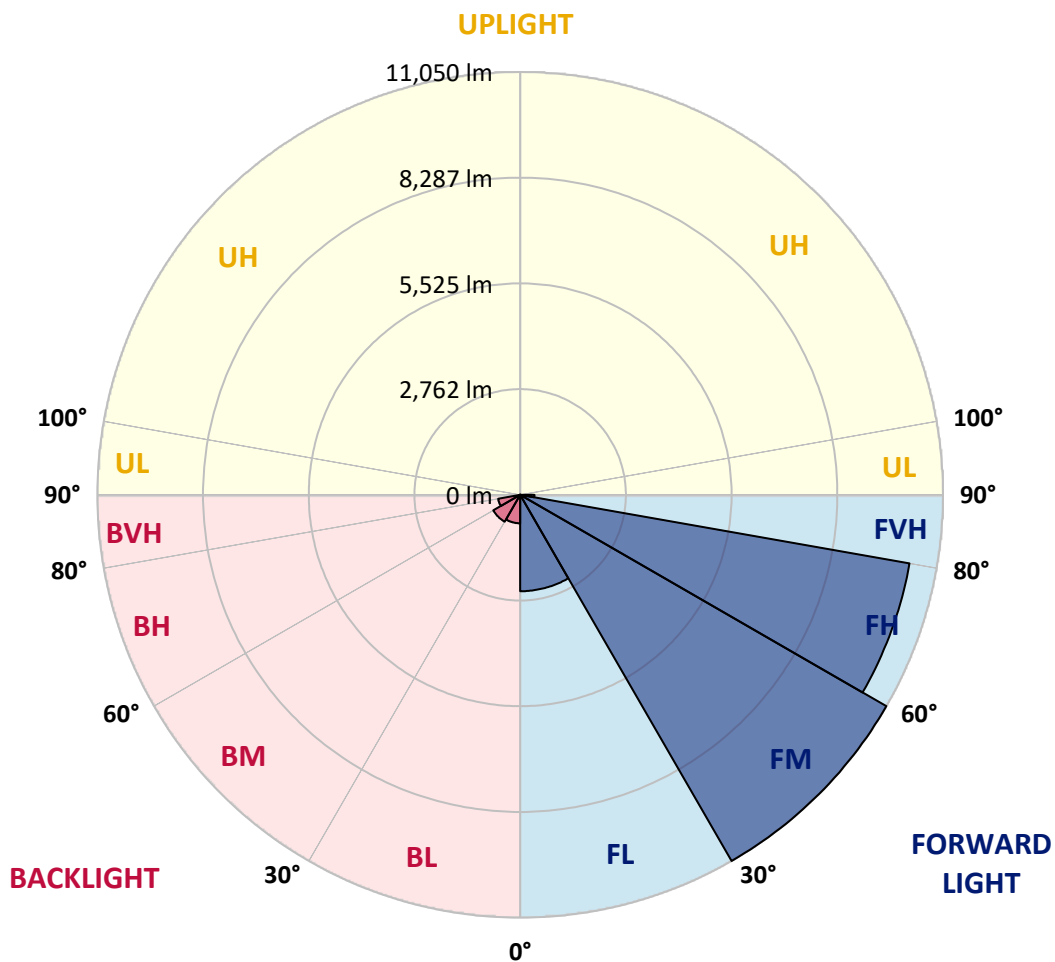
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2519.3 | 9.5 | | | |
| FM | (30°-60°) | 11049.9 | 41.8 | | | |
| FH | (60°-80°) | 10331.0 | 39.1 | | | G4/12000 |
| FVH | (80°-90°) | 372.3 | 1.4 | | | G3/500 |
| BL | (0°-30°) | 744.8 | 2.8 | B2/1000 | | |
| BM | (30°-60°) | 810.9 | 3.1 | B1/1000 | | |
| BH | (60°-80°) | 584.4 | 2.2 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 11.8 | 0.0 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6878.0 | 6878.0 | 6878.0 | 6878.0 | 6878.0 | 6878.0 | 6878.0 | 6878.0 | 6878.0 | 6878.0 | 6878.0 |
| 2.5° | 7538.3 | 7535.3 | 7502.6 | 7487.6 | 7460.7 | 7403.9 | 7315.7 | 7269.4 | 7194.6 | 7064.7 | 6889.9 |
| 5° | 7469.6 | 7505.5 | 7524.9 | 7526.4 | 7545.9 | 7524.9 | 7445.7 | 7406.9 | 7303.8 | 7094.5 | 6780.8 |
| 7.5° | 7003.5 | 7016.9 | 7072.1 | 7120.0 | 7212.6 | 7300.7 | 7329.2 | 7312.7 | 7251.5 | 7027.4 | 6610.4 |
| 10° | 6504.4 | 6517.8 | 6583.6 | 6646.3 | 6771.9 | 6907.7 | 7051.2 | 7081.1 | 7106.5 | 6931.7 | 6446.1 |
| 12.5° | 6074.0 | 6087.5 | 6154.6 | 6236.9 | 6383.4 | 6550.7 | 6773.3 | 6822.6 | 6934.6 | 6840.6 | 6314.5 |
| 15° | 5703.5 | 5709.4 | 5775.2 | 5876.8 | 6051.6 | 6266.8 | 6519.3 | 6598.5 | 6770.3 | 6776.4 | 6199.6 |
| 17.5° | 5388.2 | 5403.1 | 5443.5 | 5540.6 | 5731.8 | 5997.9 | 6292.2 | 6405.8 | 6607.5 | 6722.6 | 6087.5 |
| 20° | 5195.3 | 5210.3 | 5208.8 | 5262.7 | 5434.4 | 5718.4 | 6065.0 | 6201.0 | 6446.1 | 6667.2 | 5987.4 |
| 22.5° | 5158.1 | 5158.1 | 5119.3 | 5111.7 | 5213.4 | 5450.9 | 5828.9 | 5994.7 | 6301.2 | 6643.3 | 5917.1 |
| 25° | 5291.0 | 5285.1 | 5187.9 | 5108.8 | 5113.2 | 5255.2 | 5600.4 | 5797.7 | 6178.6 | 6659.8 | 5879.8 |
| 27.5° | 5571.9 | 5564.6 | 5441.9 | 5291.0 | 5170.0 | 5168.5 | 5427.0 | 5639.2 | 6081.4 | 6737.5 | 5894.7 |
| 30° | 5960.4 | 5957.5 | 5824.5 | 5634.7 | 5415.1 | 5213.4 | 5367.3 | 5560.0 | 6018.7 | 6878.0 | 5929.1 |
| 32.5° | 6384.9 | 6380.3 | 6280.2 | 6080.0 | 5802.1 | 5415.1 | 5430.1 | 5591.4 | 6036.7 | 7064.7 | 6012.7 |
| 35° | 6834.6 | 6827.1 | 6783.8 | 6608.9 | 6302.7 | 5787.2 | 5636.2 | 5761.6 | 6150.2 | 7344.2 | 6177.1 |
| 37.5° | 7321.6 | 7329.2 | 7360.5 | 7193.2 | 6871.9 | 6308.5 | 5981.4 | 6066.6 | 6378.9 | 7723.6 | 6444.6 |
| 40° | 8040.4 | 8038.9 | 8049.4 | 7829.7 | 7520.4 | 6946.7 | 6464.1 | 6491.0 | 6761.4 | 8227.1 | 6851.1 |
| 42.5° | 9344.9 | 9253.7 | 8977.3 | 8529.0 | 8218.2 | 7675.8 | 7072.1 | 7043.8 | 7229.1 | 8850.3 | 7420.3 |
| 45° | 11097.7 | 10903.4 | 10186.2 | 9326.9 | 8929.5 | 8497.6 | 7820.7 | 7729.6 | 7847.7 | 9598.8 | 8122.7 |
| 47.5° | 12605.2 | 12403.5 | 11389.0 | 10157.8 | 9684.1 | 9277.6 | 8697.8 | 8533.4 | 8572.3 | 10437.1 | 9013.1 |
| 50° | 13117.8 | 13019.1 | 12133.0 | 10880.9 | 10414.7 | 10259.4 | 9715.4 | 9515.2 | 9460.0 | 11406.9 | 10045.7 |
| 52.5° | 12939.9 | 12932.4 | 12342.4 | 11350.2 | 11084.1 | 11275.4 | 10996.1 | 10764.4 | 10561.2 | 12428.9 | 11096.1 |
| 55° | 12654.6 | 12692.0 | 12427.4 | 11761.0 | 11752.0 | 12203.4 | 12747.2 | 12554.4 | 11965.8 | 13539.2 | 12001.6 |
| 57.5° | 11867.1 | 12027.0 | 12379.6 | 12538.1 | 12905.6 | 13367.3 | 14205.5 | 14319.2 | 13622.8 | 14389.4 | 12753.1 |
| 60° | 9628.8 | 9979.9 | 11133.5 | 12650.1 | 14392.4 | 15543.0 | 15965.8 | 16063.0 | 14982.7 | 15096.1 | 13767.8 |
| 62.5° | 6834.6 | 7193.2 | 8656.1 | 11221.6 | 14414.8 | 18401.4 | 18588.2 | 18207.0 | 16479.8 | 16143.6 | 15517.5 |
| 65° | 3628.0 | 3904.5 | 5099.8 | 8100.1 | 12497.7 | 19064.8 | 23173.9 | 22038.3 | 19121.6 | 18204.2 | 17778.3 |
| 67.5° | 1855.8 | 1939.5 | 2414.6 | 3964.2 | 8591.7 | 16933.9 | 27284.5 | 28083.9 | 23674.6 | 20248.2 | 17669.2 |
| 69° | 1642.1 | 1691.5 | 2006.8 | 2866.0 | 5501.7 | 14343.1 | 27484.7 | 30159.4 | 26057.8 | 20077.8 | 16056.9 |
| 70° | 1589.9 | 1633.2 | 1920.0 | 2593.9 | 4300.4 | 12028.6 | 26718.2 | 29977.1 | 26667.4 | 19429.4 | 14852.5 |
| 72.5° | 1349.3 | 1386.7 | 1709.4 | 2292.1 | 3494.9 | 5970.9 | 21703.6 | 25401.8 | 23929.9 | 16185.4 | 10750.9 |
| 75° | 902.4 | 1025.1 | 1640.7 | 2148.7 | 3251.4 | 3391.9 | 14308.7 | 18356.5 | 17052.0 | 10916.8 | 5600.4 |
| 77.5° | 216.8 | 233.1 | 463.2 | 1709.4 | 2973.5 | 2985.4 | 7359.1 | 11411.3 | 9307.5 | 3891.0 | 1323.9 |
| 80° | 116.5 | 112.1 | 130.1 | 339.2 | 2768.8 | 2801.6 | 3312.7 | 5539.0 | 3323.2 | 645.5 | 436.2 |
| 82.5° | 82.1 | 77.8 | 83.7 | 141.9 | 871.1 | 2552.2 | 2396.8 | 2507.3 | 1377.7 | 248.0 | 195.7 |
| 85° | 29.9 | 28.3 | 46.4 | 128.5 | 273.4 | 1467.3 | 2462.4 | 2068.0 | 1116.1 | 113.5 | 143.5 |
| 87.5° | 10.5 | 9.0 | 18.0 | 70.2 | 83.7 | 624.6 | 1519.7 | 1563.0 | 439.4 | 68.7 | 67.3 |
| 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° | 6878.0 | 6878.0 | 6878.0 | 6878.0 | 6878.0 | 6878.0 | 6878.0 | 6878.0 | 6878.0 | 6878.0 | 6878.0 |
| 2.5° | 6816.7 | 6724.1 | 6553.7 | 6378.9 | 6217.4 | 6023.2 | 5926.1 | 5830.4 | 5790.1 | 5775.2 | 5705.0 |
| 5° | 6619.4 | 6462.5 | 6100.8 | 5737.8 | 5403.1 | 5047.4 | 4812.8 | 4624.7 | 4514.1 | 4460.3 | 4375.0 |
| 7.5° | 6366.8 | 6109.9 | 5561.4 | 5001.1 | 4479.7 | 3965.7 | 3584.6 | 3291.7 | 3090.1 | 2993.0 | 2904.8 |
| 10° | 6121.8 | 5779.6 | 4999.6 | 4236.1 | 3527.9 | 2846.5 | 2320.5 | 1939.5 | 1695.9 | 1583.9 | 1512.1 |
| 12.5° | 5902.1 | 5458.5 | 4457.3 | 3490.5 | 2601.4 | 1803.5 | 1268.5 | 965.3 | 814.4 | 762.0 | 736.7 |
| 15° | 5706.5 | 5162.6 | 3944.7 | 2782.2 | 1761.7 | 1031.1 | 693.3 | 590.2 | 566.3 | 566.3 | 563.3 |
| 17.5° | 5521.2 | 4872.6 | 3450.2 | 2117.3 | 1105.8 | 630.6 | 527.5 | 514.0 | 514.0 | 519.9 | 519.9 |
| 20° | 5343.4 | 4596.3 | 2972.0 | 1519.7 | 696.2 | 500.5 | 476.7 | 473.6 | 476.7 | 484.1 | 484.1 |
| 22.5° | 5190.9 | 4345.2 | 2525.2 | 1042.9 | 517.1 | 451.3 | 439.4 | 434.8 | 436.2 | 440.8 | 443.9 |
| 25° | 5077.4 | 4133.0 | 2103.9 | 706.7 | 445.3 | 411.0 | 397.5 | 390.0 | 384.0 | 384.0 | 387.0 |
| 27.5° | 5005.6 | 3953.7 | 1695.9 | 514.0 | 400.5 | 373.5 | 352.7 | 340.6 | 327.3 | 319.7 | 322.8 |
| 30° | 4953.3 | 3783.4 | 1313.4 | 419.9 | 358.7 | 331.7 | 304.9 | 285.4 | 266.0 | 257.1 | 260.0 |
| 32.5° | 4933.9 | 3646.0 | 981.7 | 370.6 | 321.2 | 291.4 | 258.5 | 233.1 | 212.2 | 204.8 | 206.3 |
| 35° | 4986.2 | 3536.8 | 718.7 | 334.7 | 291.4 | 254.0 | 216.8 | 188.3 | 171.8 | 167.4 | 168.8 |
| 37.5° | 5123.8 | 3478.5 | 537.9 | 304.9 | 264.6 | 222.6 | 180.7 | 153.9 | 143.5 | 143.5 | 144.9 |
| 40° | 5383.7 | 3477.1 | 431.8 | 284.0 | 240.6 | 192.7 | 149.4 | 130.1 | 124.1 | 127.0 | 128.5 |
| 42.5° | 5763.3 | 3556.3 | 376.5 | 264.6 | 219.6 | 164.4 | 124.1 | 110.6 | 109.1 | 112.1 | 113.5 |
| 45° | 6281.7 | 3701.1 | 346.7 | 248.0 | 197.3 | 137.5 | 104.7 | 95.6 | 95.6 | 100.2 | 101.6 |
| 47.5° | 6916.8 | 3913.3 | 321.2 | 231.7 | 174.8 | 115.1 | 89.7 | 83.7 | 85.2 | 89.7 | 91.2 |
| 50° | 7681.8 | 4180.8 | 295.8 | 213.6 | 158.5 | 95.6 | 77.8 | 73.2 | 74.6 | 80.7 | 82.1 |
| 52.5° | 8552.9 | 4540.9 | 274.9 | 197.3 | 137.5 | 79.2 | 65.8 | 62.7 | 65.8 | 71.8 | 73.2 |
| 55° | 9300.1 | 4863.8 | 249.5 | 183.9 | 110.6 | 65.8 | 53.8 | 53.8 | 56.9 | 64.3 | 65.8 |
| 57.5° | 10018.7 | 5201.4 | 227.1 | 158.5 | 86.6 | 52.3 | 44.8 | 46.4 | 50.8 | 58.3 | 59.7 |
| 60° | 11073.6 | 5773.6 | 200.2 | 132.9 | 65.8 | 41.9 | 37.4 | 38.8 | 44.8 | 52.3 | 53.8 |
| 62.5° | 12865.3 | 6644.9 | 173.4 | 110.6 | 50.8 | 32.9 | 29.9 | 32.9 | 40.3 | 49.2 | 50.8 |
| 65° | 14482.0 | 6999.0 | 141.9 | 92.6 | 38.8 | 25.4 | 25.4 | 29.9 | 38.8 | 47.8 | 49.2 |
| 67.5° | 13580.9 | 5891.8 | 110.6 | 73.2 | 29.9 | 19.5 | 20.9 | 28.3 | 37.4 | 47.8 | 49.2 |
| 69° | 12010.6 | 4817.4 | 94.1 | 58.3 | 25.4 | 18.0 | 19.5 | 28.3 | 37.4 | 46.4 | 47.8 |
| 70° | 10786.8 | 4067.3 | 83.7 | 49.2 | 22.4 | 18.0 | 19.5 | 26.9 | 37.4 | 46.4 | 47.8 |
| 72.5° | 7224.6 | 2196.5 | 67.3 | 35.8 | 20.9 | 16.3 | 16.3 | 26.9 | 35.8 | 44.8 | 46.4 |
| 75° | 3105.0 | 606.6 | 53.8 | 25.4 | 18.0 | 14.9 | 14.9 | 25.4 | 34.3 | 43.4 | 46.4 |
| 77.5° | 567.8 | 153.9 | 43.4 | 22.4 | 18.0 | 14.9 | 13.5 | 24.0 | 32.9 | 41.9 | 43.4 |
| 80° | 225.7 | 76.1 | 34.3 | 19.5 | 16.3 | 13.5 | 11.9 | 22.4 | 31.4 | 40.3 | 41.9 |
| 82.5° | 136.0 | 43.4 | 28.3 | 18.0 | 16.3 | 11.9 | 10.5 | 19.5 | 29.9 | 38.8 | 40.3 |
| 85° | 110.6 | 29.9 | 22.4 | 18.0 | 14.9 | 11.9 | 9.0 | 18.0 | 26.9 | 37.4 | 38.8 |
| 87.5° | 53.8 | 20.9 | 20.9 | 16.3 | 14.9 | 11.9 | 9.0 | 16.3 | 25.4 | 35.8 | 37.4 |
| 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)