

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: P193684

Luminaire Tested: **GAN-AF-06-LED-U-SL3-8030-1200-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193684
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-SL3-8030-1200-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA 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: 27226 lumens
Efficiency: N/A
Efficacy: 71.3 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): 382
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

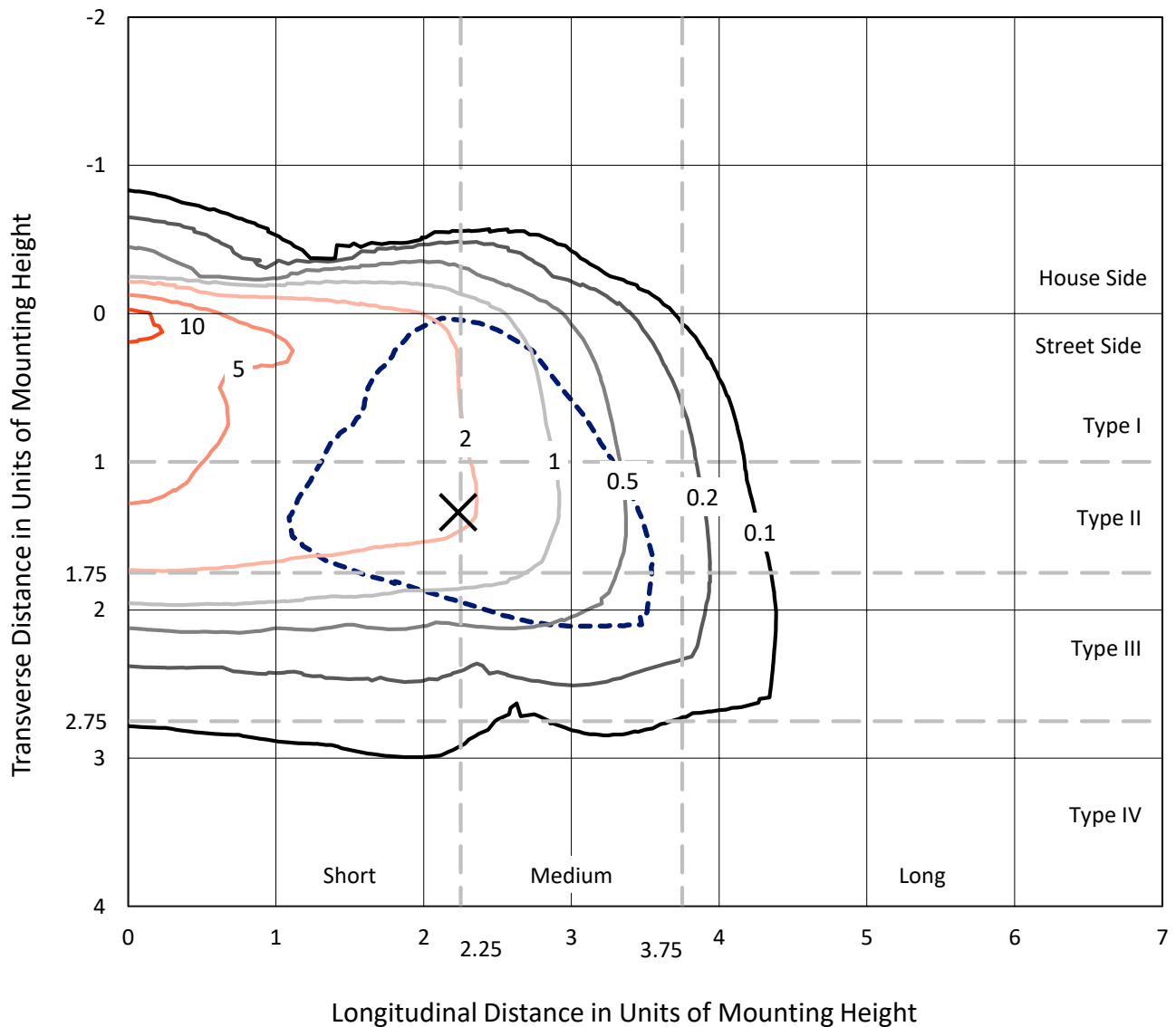


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

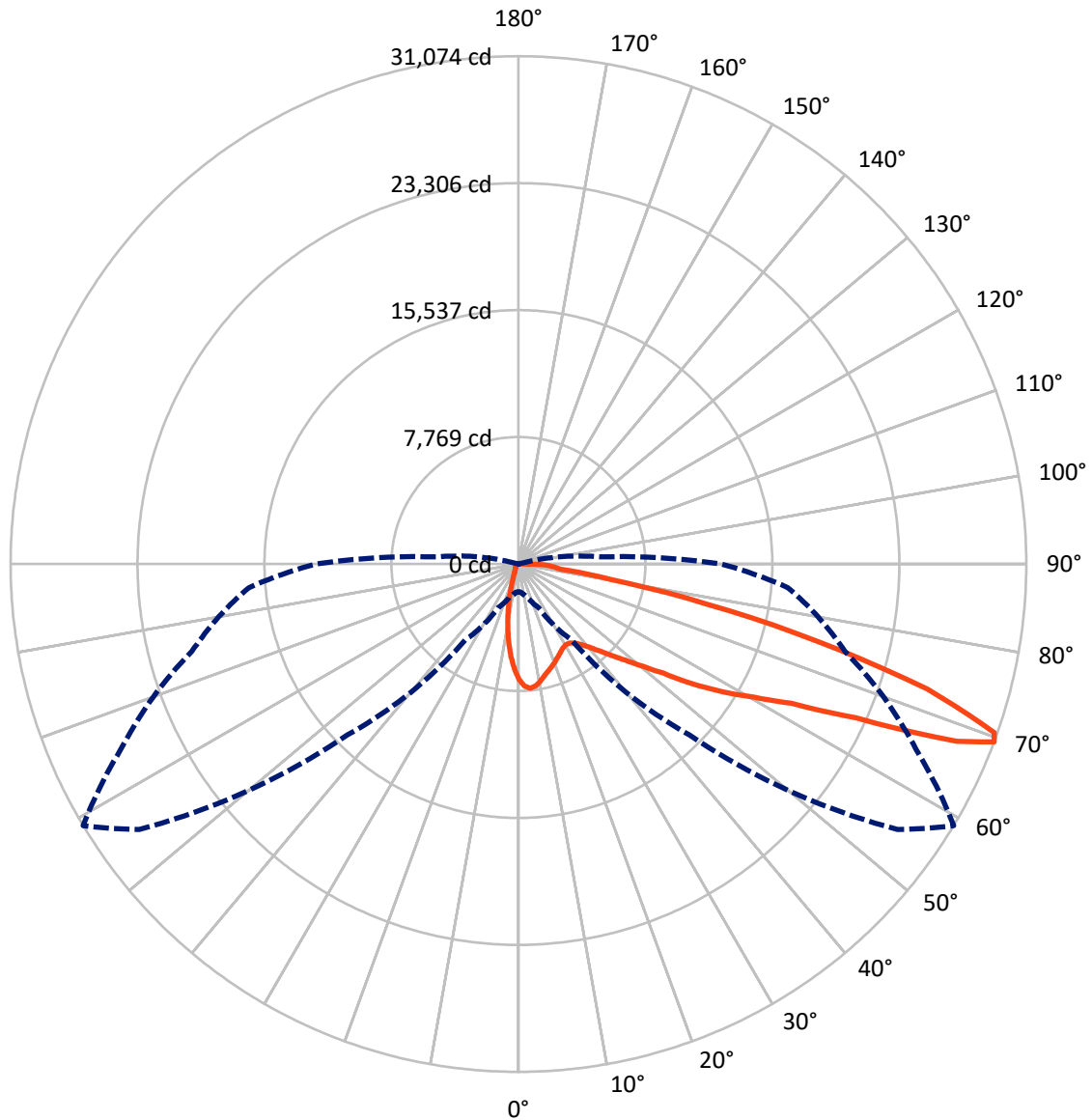


Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Short - Non-Cutoff

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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 | 2217.2 | 0.0 | 2217.2 |
| | % Fixture | 8.1 | 0.0 | 8.1 |
| Street Side | Lumens | 25008.8 | 0.0 | 25008.8 |
| | % Fixture | 91.9 | 0.0 | 91.9 |
| Total | Lumens | 27226.0 | 0.0 | 27226.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 575.2 | 2.1 |
| 10°-20° | 1188.6 | 4.4 |
| 20°-30° | 1599.4 | 5.9 |
| 30°-40° | 2322.2 | 8.5 |
| 40°-50° | 3866.6 | 14.2 |
| 50°-60° | 6031.8 | 22.2 |
| 60°-70° | 7463.9 | 27.4 |
| 70°-80° | 3782.6 | 13.9 |
| 80°-90° | 395.8 | 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° | 27226.0 | 100.0 |
| 0°-180° | 27226.0 | 100.0 |



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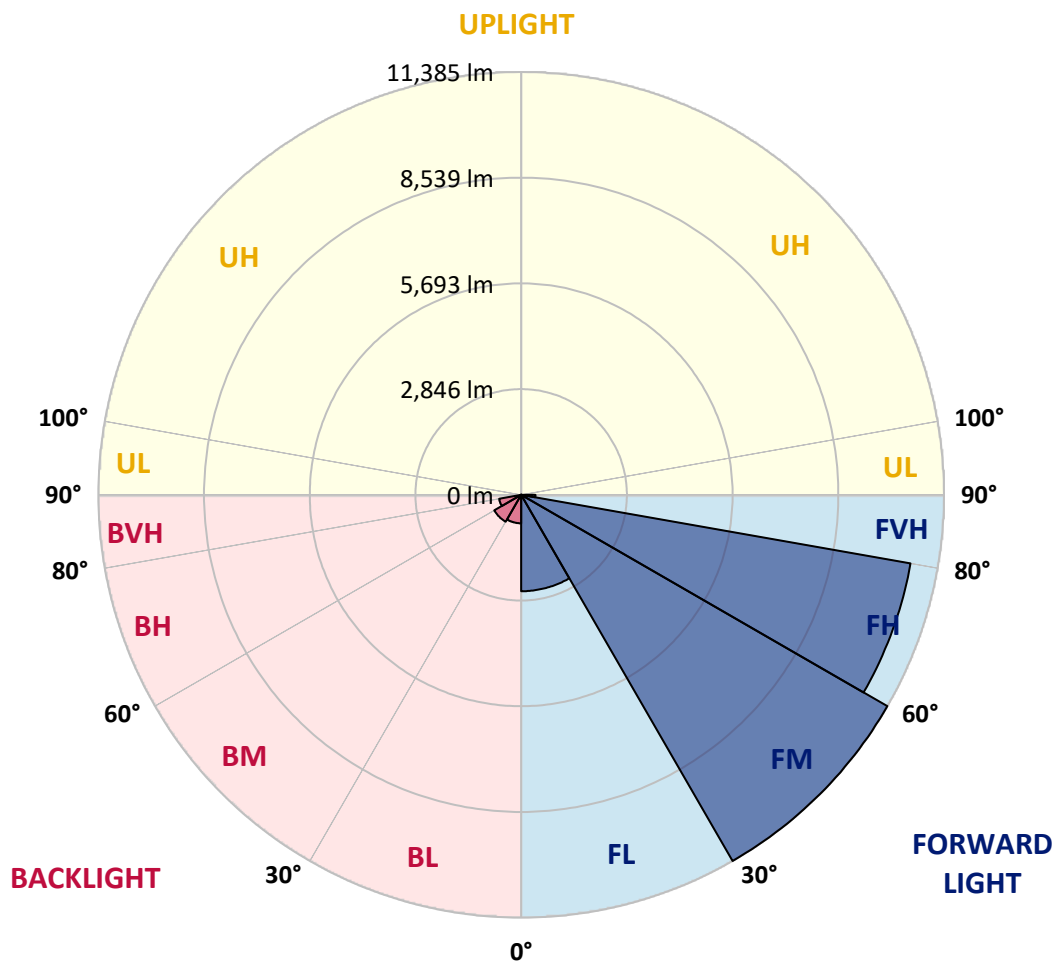
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2595.7 | 9.5 | | | |
| FM (30°-60°) | 11385.1 | 41.8 | | | |
| FH (60°-80°) | 10644.4 | 39.1 | | | G4/12000 |
| FVH (80°-90°) | 383.6 | 1.4 | | | G3/500 |
| BL (0°-30°) | 767.4 | 2.8 | B2/1000 | | |
| BM (30°-60°) | 835.4 | 3.1 | B1/1000 | | |
| BH (60°-80°) | 602.1 | 2.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 12.2 | 0.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: 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° | 7086.6 | 7086.6 | 7086.6 | 7086.6 | 7086.6 | 7086.6 | 7086.6 | 7086.6 | 7086.6 | 7086.6 | 7086.6 |
| 2.5° | 7767.0 | 7764.0 | 7730.1 | 7714.7 | 7687.0 | 7628.5 | 7537.6 | 7489.9 | 7412.9 | 7279.0 | 7098.9 |
| 5° | 7696.2 | 7733.2 | 7753.2 | 7754.7 | 7774.7 | 7753.2 | 7671.6 | 7631.6 | 7525.3 | 7309.8 | 6986.5 |
| 7.5° | 7215.9 | 7229.7 | 7286.7 | 7336.0 | 7431.4 | 7522.2 | 7551.5 | 7534.6 | 7471.4 | 7240.5 | 6811.0 |
| 10° | 6701.7 | 6715.5 | 6783.3 | 6847.9 | 6977.2 | 7117.3 | 7265.1 | 7295.9 | 7322.1 | 7142.0 | 6641.6 |
| 12.5° | 6258.3 | 6272.1 | 6341.4 | 6426.1 | 6577.0 | 6749.4 | 6978.8 | 7029.6 | 7145.1 | 7048.1 | 6506.1 |
| 15° | 5876.5 | 5882.6 | 5950.4 | 6055.1 | 6235.2 | 6456.9 | 6717.1 | 6798.7 | 6975.7 | 6981.9 | 6387.6 |
| 17.5° | 5551.6 | 5567.0 | 5608.6 | 5708.7 | 5905.7 | 6179.8 | 6483.0 | 6600.1 | 6807.9 | 6926.4 | 6272.1 |
| 20° | 5353.0 | 5368.4 | 5366.9 | 5422.3 | 5599.3 | 5891.9 | 6249.0 | 6389.1 | 6641.6 | 6869.5 | 6169.0 |
| 22.5° | 5314.5 | 5314.5 | 5274.5 | 5266.8 | 5371.5 | 5616.3 | 6005.8 | 6176.7 | 6492.3 | 6844.8 | 6096.6 |
| 25° | 5451.5 | 5445.4 | 5345.3 | 5263.7 | 5268.3 | 5414.6 | 5770.2 | 5973.5 | 6366.0 | 6861.8 | 6058.1 |
| 27.5° | 5741.0 | 5733.3 | 5607.0 | 5451.5 | 5326.8 | 5325.3 | 5591.6 | 5810.3 | 6266.0 | 6941.8 | 6073.5 |
| 30° | 6141.3 | 6138.2 | 6001.2 | 5805.6 | 5579.3 | 5371.5 | 5530.1 | 5728.7 | 6201.3 | 7086.6 | 6108.9 |
| 32.5° | 6578.5 | 6573.9 | 6470.7 | 6264.4 | 5978.1 | 5579.3 | 5594.7 | 5761.0 | 6219.8 | 7279.0 | 6195.2 |
| 35° | 7041.9 | 7034.2 | 6989.6 | 6809.4 | 6493.8 | 5962.7 | 5807.2 | 5936.5 | 6336.8 | 7566.9 | 6364.5 |
| 37.5° | 7543.8 | 7551.5 | 7583.8 | 7411.4 | 7080.4 | 6500.0 | 6162.8 | 6250.6 | 6572.3 | 7957.9 | 6640.1 |
| 40° | 8284.3 | 8282.8 | 8293.6 | 8067.2 | 7748.6 | 7157.4 | 6660.1 | 6687.8 | 6966.5 | 8476.8 | 7058.8 |
| 42.5° | 9628.3 | 9534.4 | 9249.6 | 8787.8 | 8467.5 | 7908.7 | 7286.7 | 7257.4 | 7448.3 | 9118.8 | 7645.4 |
| 45° | 11434.2 | 11234.1 | 10495.1 | 9609.9 | 9200.4 | 8755.4 | 8058.0 | 7964.1 | 8085.7 | 9890.1 | 8369.0 |
| 47.5° | 12987.6 | 12779.8 | 11734.5 | 10465.9 | 9977.8 | 9559.1 | 8961.7 | 8792.4 | 8832.4 | 10753.8 | 9286.6 |
| 50° | 13515.7 | 13414.1 | 12501.2 | 11211.0 | 10730.7 | 10570.6 | 10010.2 | 9803.9 | 9746.9 | 11752.9 | 10350.4 |
| 52.5° | 13332.5 | 13324.8 | 12716.7 | 11694.4 | 11420.4 | 11617.4 | 11329.6 | 11090.9 | 10881.5 | 12806.0 | 11432.7 |
| 55° | 13038.5 | 13076.9 | 12804.4 | 12117.8 | 12108.6 | 12573.5 | 13133.9 | 12935.3 | 12328.7 | 13949.9 | 12365.7 |
| 57.5° | 12227.1 | 12391.8 | 12755.2 | 12918.4 | 13297.1 | 13772.8 | 14636.5 | 14753.5 | 14036.1 | 14825.9 | 13140.1 |
| 60° | 9920.9 | 10282.7 | 11471.2 | 13033.8 | 14829.0 | 16014.4 | 16450.1 | 16550.2 | 15437.1 | 15554.1 | 14185.4 |
| 62.5° | 7041.9 | 7411.4 | 8918.6 | 11562.0 | 14852.0 | 18959.6 | 19152.0 | 18759.4 | 16979.7 | 16633.3 | 15988.2 |
| 65° | 3738.0 | 4022.8 | 5254.5 | 8345.9 | 12876.8 | 19643.1 | 23876.9 | 22706.8 | 19701.6 | 18756.3 | 18317.6 |
| 67.5° | 1912.1 | 1998.3 | 2487.9 | 4084.4 | 8852.4 | 17447.7 | 28112.2 | 28935.9 | 24392.6 | 20862.5 | 18205.2 |
| 69° | 1692.0 | 1742.8 | 2067.6 | 2952.9 | 5668.6 | 14778.1 | 28318.5 | 31074.3 | 26848.2 | 20686.9 | 16544.0 |
| 70° | 1638.1 | 1682.7 | 1978.3 | 2672.7 | 4430.8 | 12393.4 | 27528.7 | 30886.5 | 27476.4 | 20018.8 | 15303.1 |
| 72.5° | 1390.2 | 1428.7 | 1761.2 | 2361.7 | 3601.0 | 6152.0 | 22362.0 | 26172.4 | 24655.9 | 16676.4 | 11077.1 |
| 75° | 929.9 | 1056.1 | 1690.4 | 2213.9 | 3350.1 | 3494.8 | 14742.7 | 18913.4 | 17569.4 | 11248.0 | 5770.2 |
| 77.5° | 223.2 | 240.2 | 477.3 | 1761.2 | 3063.7 | 3076.0 | 7582.3 | 11757.5 | 9589.9 | 4009.0 | 1364.0 |
| 80° | 120.1 | 115.5 | 133.9 | 349.5 | 2852.8 | 2886.7 | 3413.2 | 5707.1 | 3424.0 | 665.1 | 449.5 |
| 82.5° | 84.7 | 80.1 | 86.2 | 146.3 | 897.6 | 2629.6 | 2469.4 | 2583.4 | 1419.5 | 255.6 | 201.7 |
| 85° | 30.8 | 29.3 | 47.7 | 132.4 | 281.7 | 1511.8 | 2537.2 | 2130.7 | 1150.0 | 117.0 | 147.8 |
| 87.5° | 10.8 | 9.2 | 18.5 | 72.4 | 86.2 | 643.5 | 1565.7 | 1610.4 | 452.6 | 70.8 | 69.3 |
| 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° | 7086.6 | 7086.6 | 7086.6 | 7086.6 | 7086.6 | 7086.6 | 7086.6 | 7086.6 | 7086.6 | 7086.6 | 7086.6 |
| 2.5° | 7023.4 | 6928.0 | 6752.5 | 6572.3 | 6406.1 | 6205.9 | 6105.9 | 6007.3 | 5965.8 | 5950.4 | 5878.0 |
| 5° | 6820.2 | 6658.6 | 6286.0 | 5911.9 | 5567.0 | 5200.6 | 4958.9 | 4764.9 | 4651.0 | 4595.6 | 4507.8 |
| 7.5° | 6560.0 | 6295.2 | 5730.2 | 5152.9 | 4615.6 | 4086.0 | 3693.4 | 3391.6 | 3183.8 | 3083.7 | 2992.9 |
| 10° | 6307.5 | 5955.0 | 5151.3 | 4364.6 | 3634.9 | 2932.8 | 2390.9 | 1998.3 | 1747.4 | 1631.9 | 1558.0 |
| 12.5° | 6081.2 | 5624.0 | 4592.5 | 3596.4 | 2680.4 | 1858.2 | 1307.1 | 994.5 | 839.1 | 785.2 | 759.0 |
| 15° | 5879.5 | 5319.1 | 4064.4 | 2866.6 | 1815.1 | 1062.3 | 714.4 | 608.1 | 583.5 | 583.5 | 580.4 |
| 17.5° | 5688.6 | 5020.5 | 3554.8 | 2181.5 | 1139.3 | 649.7 | 543.5 | 529.6 | 529.6 | 535.8 | 535.8 |
| 20° | 5505.4 | 4735.7 | 3062.2 | 1565.7 | 717.4 | 515.7 | 491.1 | 488.0 | 491.1 | 498.8 | 498.8 |
| 22.5° | 5348.4 | 4477.0 | 2601.8 | 1074.6 | 532.7 | 464.9 | 452.6 | 448.0 | 449.5 | 454.2 | 457.2 |
| 25° | 5231.4 | 4258.4 | 2167.7 | 728.2 | 458.8 | 423.4 | 409.5 | 401.8 | 395.7 | 395.7 | 398.7 |
| 27.5° | 5157.5 | 4073.7 | 1747.4 | 529.6 | 412.6 | 384.9 | 363.3 | 351.0 | 337.2 | 329.5 | 332.5 |
| 30° | 5103.6 | 3898.1 | 1353.3 | 432.6 | 369.5 | 341.8 | 314.1 | 294.1 | 274.0 | 264.8 | 267.9 |
| 32.5° | 5083.6 | 3756.5 | 1011.5 | 381.8 | 331.0 | 300.2 | 266.3 | 240.2 | 218.6 | 210.9 | 212.5 |
| 35° | 5137.5 | 3644.1 | 740.5 | 344.9 | 300.2 | 261.7 | 223.2 | 194.0 | 177.0 | 172.4 | 174.0 |
| 37.5° | 5279.1 | 3584.1 | 554.2 | 314.1 | 272.5 | 229.4 | 186.3 | 158.6 | 147.8 | 147.8 | 149.3 |
| 40° | 5547.0 | 3582.5 | 444.9 | 292.5 | 247.9 | 198.6 | 154.0 | 133.9 | 127.8 | 130.9 | 132.4 |
| 42.5° | 5938.0 | 3664.1 | 388.0 | 272.5 | 226.3 | 169.4 | 127.8 | 113.9 | 112.4 | 115.5 | 117.0 |
| 45° | 6472.3 | 3813.5 | 357.2 | 255.6 | 203.2 | 141.6 | 107.8 | 98.5 | 98.5 | 103.1 | 104.7 |
| 47.5° | 7126.6 | 4032.1 | 331.0 | 238.6 | 180.1 | 118.5 | 92.4 | 86.2 | 87.8 | 92.4 | 93.9 |
| 50° | 7914.8 | 4307.7 | 304.8 | 220.2 | 163.2 | 98.5 | 80.1 | 75.4 | 77.0 | 83.1 | 84.7 |
| 52.5° | 8812.4 | 4678.7 | 283.3 | 203.2 | 141.6 | 81.6 | 67.7 | 64.7 | 67.7 | 73.9 | 75.4 |
| 55° | 9582.2 | 5011.2 | 257.1 | 189.4 | 113.9 | 67.7 | 55.4 | 55.4 | 58.5 | 66.2 | 67.7 |
| 57.5° | 10322.7 | 5359.2 | 234.0 | 163.2 | 89.3 | 53.9 | 46.2 | 47.7 | 52.3 | 60.0 | 61.6 |
| 60° | 11409.6 | 5948.8 | 206.3 | 137.0 | 67.7 | 43.1 | 38.5 | 40.0 | 46.2 | 53.9 | 55.4 |
| 62.5° | 13255.5 | 6846.4 | 178.6 | 113.9 | 52.3 | 33.9 | 30.8 | 33.9 | 41.6 | 50.8 | 52.3 |
| 65° | 14921.3 | 7211.3 | 146.3 | 95.5 | 40.0 | 26.2 | 26.2 | 30.8 | 40.0 | 49.3 | 50.8 |
| 67.5° | 13993.0 | 6070.4 | 113.9 | 75.4 | 30.8 | 20.0 | 21.6 | 29.3 | 38.5 | 49.3 | 50.8 |
| 69° | 12374.9 | 4963.5 | 97.0 | 60.0 | 26.2 | 18.5 | 20.0 | 29.3 | 38.5 | 47.7 | 49.3 |
| 70° | 11114.0 | 4190.7 | 86.2 | 50.8 | 23.1 | 18.5 | 20.0 | 27.7 | 38.5 | 47.7 | 49.3 |
| 72.5° | 7443.7 | 2263.1 | 69.3 | 36.9 | 21.6 | 16.9 | 16.9 | 27.7 | 36.9 | 46.2 | 47.7 |
| 75° | 3199.2 | 625.1 | 55.4 | 26.2 | 18.5 | 15.4 | 15.4 | 26.2 | 35.4 | 44.6 | 47.7 |
| 77.5° | 585.0 | 158.6 | 44.6 | 23.1 | 18.5 | 15.4 | 13.9 | 24.6 | 33.9 | 43.1 | 44.6 |
| 80° | 232.5 | 78.5 | 35.4 | 20.0 | 16.9 | 13.9 | 12.3 | 23.1 | 32.3 | 41.6 | 43.1 |
| 82.5° | 140.1 | 44.6 | 29.3 | 18.5 | 16.9 | 12.3 | 10.8 | 20.0 | 30.8 | 40.0 | 41.6 |
| 85° | 113.9 | 30.8 | 23.1 | 18.5 | 15.4 | 12.3 | 9.2 | 18.5 | 27.7 | 38.5 | 40.0 |
| 87.5° | 55.4 | 21.6 | 21.6 | 16.9 | 15.4 | 12.3 | 9.2 | 16.9 | 26.2 | 36.9 | 38.5 |
| 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)