

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: P268519

Luminaire Tested: **GAN-AF-05-LED-U-SL3-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268519
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-05-LED-U-SL3-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 24223 lumens
Efficiency: N/A
Efficacy: 75.7 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): 320
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

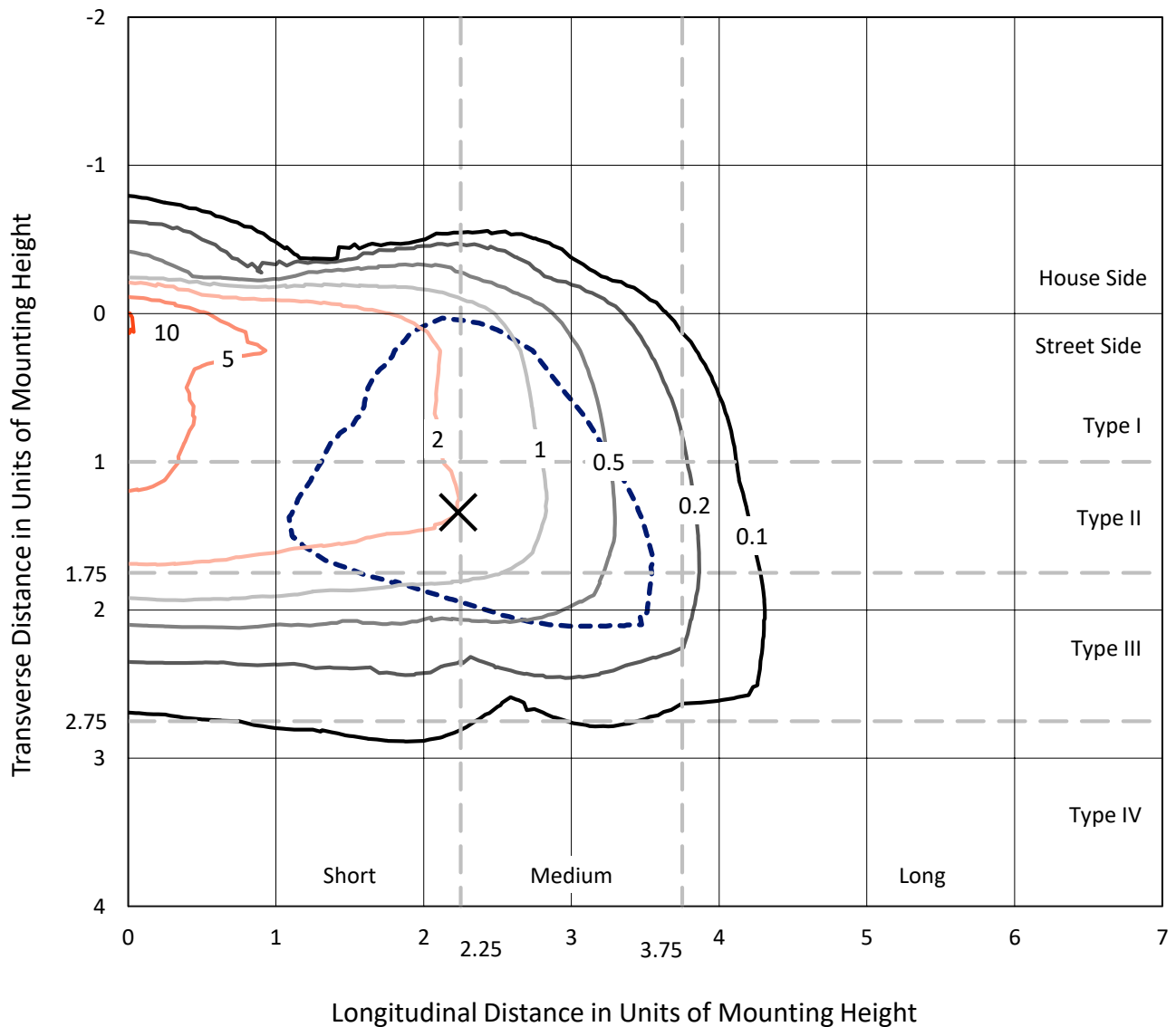


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

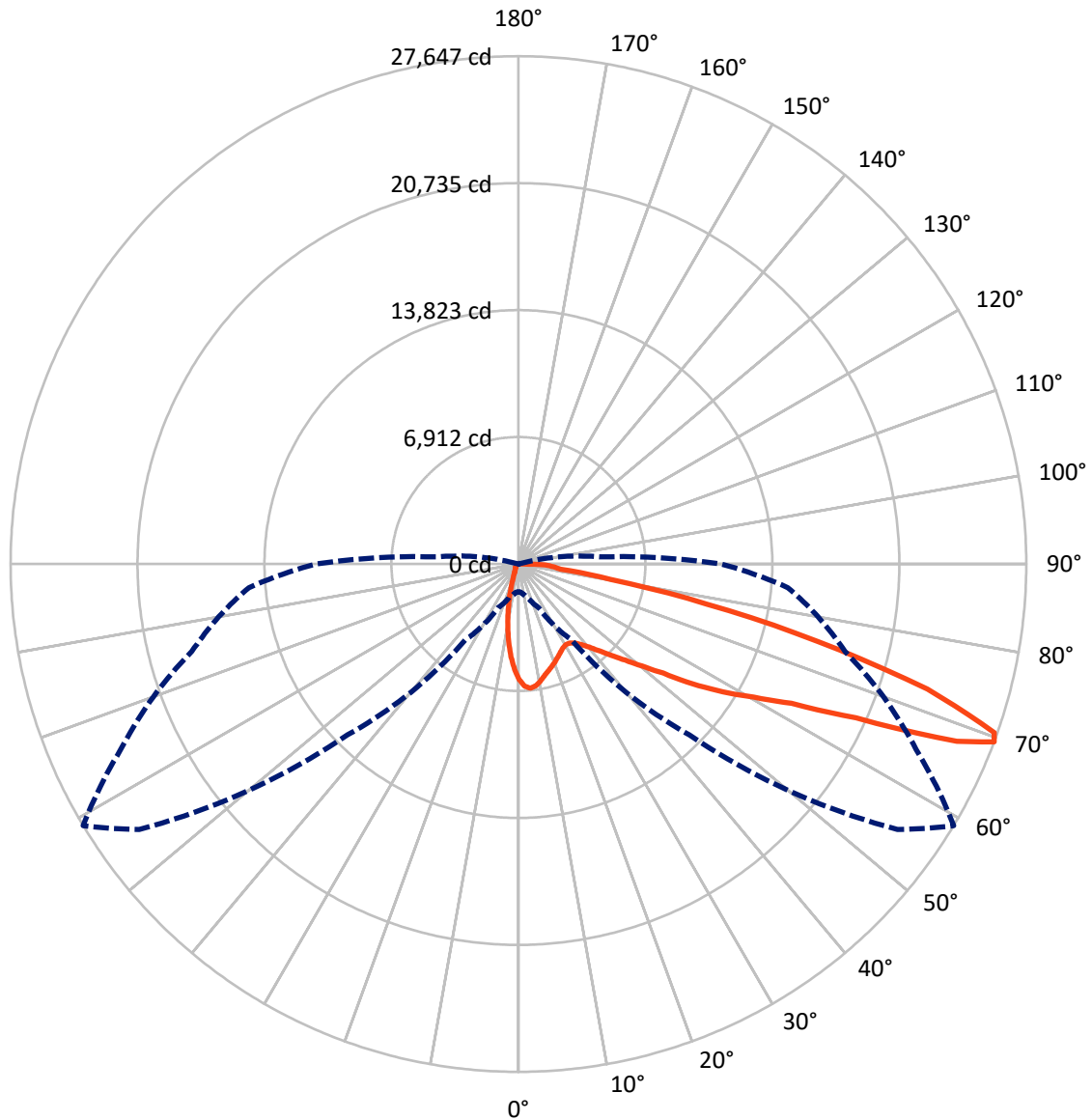


Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type III - Short - Non-Cutoff

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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 | 1972.6 | 0.0 | 1972.6 |
| | % Fixture | 8.1 | 0.0 | 8.1 |
| Street Side | Lumens | 22250.3 | 0.0 | 22250.3 |
| | % Fixture | 91.9 | 0.0 | 91.9 |
| Total | Lumens | 24223.0 | 0.0 | 24223.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 511.8 | 2.1 |
| 10°-20° | 1057.5 | 4.4 |
| 20°-30° | 1423.0 | 5.9 |
| 30°-40° | 2066.0 | 8.5 |
| 40°-50° | 3440.1 | 14.2 |
| 50°-60° | 5366.5 | 22.2 |
| 60°-70° | 6640.6 | 27.4 |
| 70°-80° | 3365.4 | 13.9 |
| 80°-90° | 352.1 | 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° | 24223.0 | 100.0 |
| 0°-180° | 24223.0 | 100.0 |



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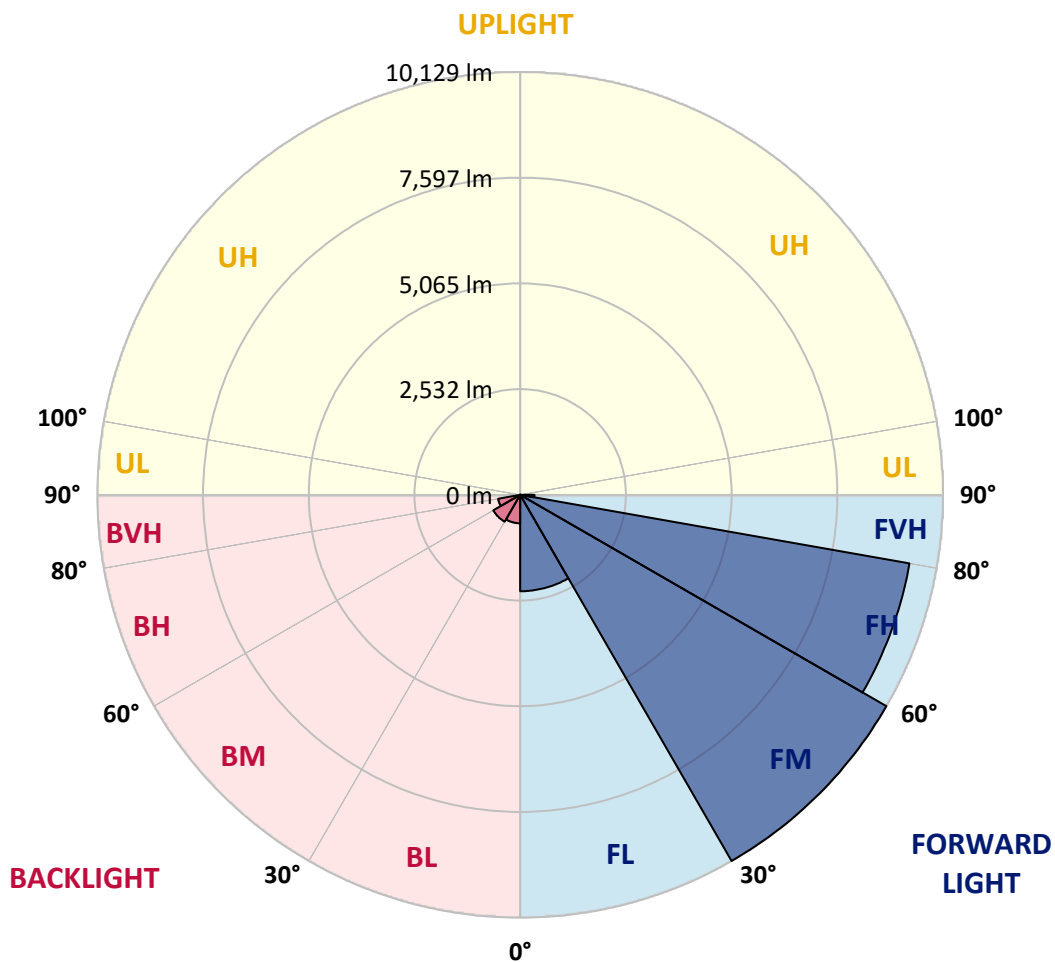
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2309.4 | 9.5 | | | |
| FM | (30°-60°) | 10129.3 | 41.8 | | | |
| FH | (60°-80°) | 9470.3 | 39.1 | | | G4/12000 |
| FVH | (80°-90°) | 341.3 | 1.4 | | | G3/500 |
| BL | (0°-30°) | 682.8 | 2.8 | B2/1000 | | |
| BM | (30°-60°) | 743.3 | 3.1 | B1/1000 | | |
| BH | (60°-80°) | 535.7 | 2.2 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 10.8 | 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° | 6304.9 | 6304.9 | 6304.9 | 6304.9 | 6304.9 | 6304.9 | 6304.9 | 6304.9 | 6304.9 | 6304.9 | 6304.9 |
| 2.5° | 6910.3 | 6907.5 | 6877.5 | 6863.8 | 6839.1 | 6787.1 | 6706.2 | 6663.7 | 6595.3 | 6476.2 | 6315.9 |
| 5° | 6847.3 | 6880.2 | 6897.9 | 6899.3 | 6917.2 | 6897.9 | 6825.4 | 6789.7 | 6695.2 | 6503.5 | 6215.8 |
| 7.5° | 6419.9 | 6432.4 | 6483.0 | 6526.7 | 6611.7 | 6692.6 | 6718.6 | 6703.5 | 6647.4 | 6441.8 | 6059.7 |
| 10° | 5962.5 | 5974.7 | 6035.1 | 6092.6 | 6207.6 | 6332.3 | 6463.8 | 6491.2 | 6514.5 | 6354.3 | 5909.1 |
| 12.5° | 5568.0 | 5580.4 | 5642.0 | 5717.4 | 5851.5 | 6004.9 | 6209.1 | 6254.2 | 6356.9 | 6270.7 | 5788.5 |
| 15° | 5228.2 | 5233.7 | 5294.0 | 5387.1 | 5547.5 | 5744.8 | 5976.2 | 6048.7 | 6206.3 | 6211.8 | 5683.0 |
| 17.5° | 4939.3 | 4953.0 | 4989.9 | 5078.9 | 5254.4 | 5498.2 | 5767.9 | 5872.1 | 6057.0 | 6162.5 | 5580.4 |
| 20° | 4762.5 | 4776.3 | 4774.9 | 4824.2 | 4981.7 | 5242.0 | 5559.8 | 5684.5 | 5909.1 | 6111.8 | 5488.6 |
| 22.5° | 4728.3 | 4728.3 | 4692.7 | 4685.9 | 4779.1 | 4996.8 | 5343.4 | 5495.4 | 5776.2 | 6089.9 | 5424.1 |
| 25° | 4850.3 | 4844.7 | 4755.7 | 4683.1 | 4687.3 | 4817.4 | 5133.8 | 5314.6 | 5663.9 | 6104.9 | 5389.9 |
| 27.5° | 5107.8 | 5100.8 | 4988.6 | 4850.3 | 4739.3 | 4737.9 | 4975.0 | 5169.3 | 5574.8 | 6176.1 | 5403.7 |
| 30° | 5463.9 | 5461.2 | 5339.3 | 5165.3 | 4963.9 | 4779.1 | 4920.0 | 5096.9 | 5517.3 | 6304.9 | 5435.1 |
| 32.5° | 5852.8 | 5848.8 | 5757.0 | 5573.4 | 5318.7 | 4963.9 | 4977.6 | 5125.5 | 5533.7 | 6476.2 | 5511.8 |
| 35° | 6265.1 | 6258.3 | 6218.5 | 6058.3 | 5777.5 | 5305.0 | 5166.6 | 5281.8 | 5637.9 | 6732.3 | 5662.5 |
| 37.5° | 6711.7 | 6718.6 | 6747.3 | 6593.9 | 6299.5 | 5783.0 | 5483.1 | 5561.1 | 5847.3 | 7080.3 | 5907.7 |
| 40° | 7370.6 | 7369.2 | 7378.8 | 7177.4 | 6894.0 | 6367.9 | 5925.5 | 5950.2 | 6198.0 | 7541.8 | 6280.2 |
| 42.5° | 8566.3 | 8482.8 | 8229.5 | 7818.5 | 7533.5 | 7036.3 | 6483.0 | 6456.9 | 6626.7 | 8113.0 | 6802.1 |
| 45° | 10173.0 | 9995.0 | 9337.5 | 8549.9 | 8185.5 | 7789.7 | 7169.3 | 7085.7 | 7193.8 | 8799.2 | 7446.0 |
| 47.5° | 11555.1 | 11370.1 | 10440.1 | 9311.6 | 8877.3 | 8504.8 | 7973.3 | 7822.6 | 7858.3 | 9567.6 | 8262.3 |
| 50° | 12024.9 | 11934.5 | 11122.3 | 9974.4 | 9547.0 | 9404.6 | 8906.1 | 8722.5 | 8671.8 | 10456.6 | 9208.7 |
| 52.5° | 11861.8 | 11855.1 | 11314.1 | 10404.4 | 10160.6 | 10336.1 | 10079.9 | 9867.6 | 9681.4 | 11393.5 | 10171.7 |
| 55° | 11600.4 | 11634.6 | 11392.1 | 10781.2 | 10773.1 | 11186.7 | 11685.2 | 11508.5 | 10968.8 | 12411.3 | 11001.7 |
| 57.5° | 10878.5 | 11025.0 | 11348.3 | 11493.5 | 11830.4 | 12253.7 | 13022.1 | 13126.3 | 12487.9 | 13190.6 | 11690.7 |
| 60° | 8826.6 | 9148.5 | 10206.0 | 11596.2 | 13193.2 | 14247.9 | 14635.6 | 14724.7 | 13734.4 | 13838.5 | 12620.7 |
| 62.5° | 6265.1 | 6593.9 | 7934.9 | 10286.8 | 13213.9 | 16868.4 | 17039.5 | 16690.2 | 15106.8 | 14798.7 | 14224.8 |
| 65° | 3325.7 | 3579.1 | 4674.9 | 7425.3 | 11456.4 | 17476.4 | 21243.3 | 20202.3 | 17528.5 | 16687.5 | 16297.1 |
| 67.5° | 1701.2 | 1777.9 | 2213.6 | 3634.0 | 7876.0 | 15523.3 | 25011.4 | 25744.3 | 21702.2 | 18561.3 | 16197.2 |
| 69° | 1505.3 | 1550.6 | 1839.5 | 2627.2 | 5043.4 | 13148.1 | 25194.9 | 27646.7 | 23886.9 | 18405.2 | 14719.2 |
| 70° | 1457.4 | 1497.1 | 1760.0 | 2377.9 | 3942.1 | 11026.3 | 24492.3 | 27479.7 | 24445.7 | 17810.7 | 13615.3 |
| 72.5° | 1236.8 | 1271.1 | 1567.0 | 2101.1 | 3203.9 | 5473.5 | 19895.4 | 23285.5 | 21936.3 | 14836.9 | 9855.2 |
| 75° | 827.2 | 939.6 | 1503.9 | 1969.7 | 2980.5 | 3109.4 | 13116.6 | 16827.2 | 15631.4 | 10007.3 | 5133.8 |
| 77.5° | 198.6 | 213.6 | 424.5 | 1567.0 | 2725.7 | 2736.7 | 6745.9 | 10460.8 | 8532.1 | 3566.8 | 1213.6 |
| 80° | 106.9 | 102.8 | 119.1 | 311.0 | 2538.2 | 2568.3 | 3036.7 | 5077.6 | 3046.3 | 591.8 | 399.9 |
| 82.5° | 75.4 | 71.2 | 76.7 | 130.2 | 798.6 | 2339.5 | 2197.1 | 2298.5 | 1262.8 | 227.5 | 179.4 |
| 85° | 27.4 | 26.1 | 42.5 | 117.8 | 250.6 | 1345.1 | 2257.4 | 1895.8 | 1023.2 | 104.2 | 131.5 |
| 87.5° | 9.6 | 8.3 | 16.3 | 64.4 | 76.7 | 572.6 | 1393.0 | 1432.7 | 402.7 | 63.1 | 61.7 |
| 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° | 6304.9 | 6304.9 | 6304.9 | 6304.9 | 6304.9 | 6304.9 | 6304.9 | 6304.9 | 6304.9 | 6304.9 | 6304.9 |
| 2.5° | 6248.7 | 6163.8 | 6007.7 | 5847.3 | 5699.4 | 5521.4 | 5432.4 | 5344.7 | 5307.7 | 5294.0 | 5229.7 |
| 5° | 6068.0 | 5924.1 | 5592.7 | 5259.8 | 4953.0 | 4627.0 | 4411.9 | 4239.3 | 4138.0 | 4088.6 | 4010.7 |
| 7.5° | 5836.5 | 5600.8 | 5098.2 | 4584.5 | 4106.5 | 3635.4 | 3286.0 | 3017.5 | 2832.6 | 2743.7 | 2662.8 |
| 10° | 5611.8 | 5298.2 | 4583.2 | 3883.3 | 3234.0 | 2609.3 | 2127.1 | 1777.9 | 1554.6 | 1451.9 | 1386.2 |
| 12.5° | 5410.4 | 5003.6 | 4085.9 | 3199.8 | 2384.7 | 1653.3 | 1162.9 | 884.8 | 746.5 | 698.5 | 675.3 |
| 15° | 5231.0 | 4732.5 | 3616.0 | 2550.5 | 1615.0 | 945.1 | 635.6 | 541.0 | 519.1 | 519.1 | 516.3 |
| 17.5° | 5061.2 | 4466.7 | 3162.8 | 1940.9 | 1013.6 | 578.0 | 483.5 | 471.3 | 471.3 | 476.7 | 476.7 |
| 20° | 4898.2 | 4213.3 | 2724.4 | 1393.0 | 638.2 | 458.9 | 436.9 | 434.2 | 436.9 | 443.9 | 443.9 |
| 22.5° | 4758.5 | 3983.3 | 2314.8 | 956.1 | 473.9 | 413.7 | 402.7 | 398.6 | 399.9 | 404.1 | 406.8 |
| 25° | 4654.4 | 3788.7 | 1928.7 | 647.9 | 408.2 | 376.7 | 364.4 | 357.4 | 352.0 | 352.0 | 354.8 |
| 27.5° | 4588.6 | 3624.3 | 1554.6 | 471.3 | 367.0 | 342.4 | 323.3 | 312.3 | 299.9 | 293.1 | 295.8 |
| 30° | 4540.8 | 3468.1 | 1204.0 | 385.0 | 328.7 | 304.0 | 279.5 | 261.6 | 243.8 | 235.5 | 238.3 |
| 32.5° | 4522.8 | 3342.1 | 899.9 | 339.6 | 294.6 | 267.1 | 237.0 | 213.6 | 194.6 | 187.7 | 189.1 |
| 35° | 4570.8 | 3242.2 | 658.8 | 306.9 | 267.1 | 232.8 | 198.6 | 172.6 | 157.6 | 153.4 | 154.8 |
| 37.5° | 4696.8 | 3188.8 | 493.1 | 279.5 | 242.5 | 204.1 | 165.7 | 141.0 | 131.5 | 131.5 | 132.9 |
| 40° | 4935.2 | 3187.4 | 395.9 | 260.2 | 220.5 | 176.6 | 137.0 | 119.1 | 113.6 | 116.4 | 117.8 |
| 42.5° | 5283.1 | 3259.9 | 345.2 | 242.5 | 201.4 | 150.6 | 113.6 | 101.4 | 100.0 | 102.8 | 104.2 |
| 45° | 5758.3 | 3392.9 | 317.8 | 227.5 | 180.7 | 126.0 | 95.8 | 87.7 | 87.7 | 91.7 | 93.2 |
| 47.5° | 6340.4 | 3587.3 | 294.6 | 212.3 | 160.3 | 105.6 | 82.1 | 76.7 | 78.1 | 82.1 | 83.5 |
| 50° | 7041.9 | 3832.4 | 271.2 | 195.9 | 145.2 | 87.7 | 71.2 | 67.2 | 68.5 | 74.0 | 75.4 |
| 52.5° | 7840.3 | 4162.7 | 252.1 | 180.7 | 126.0 | 72.7 | 60.2 | 57.5 | 60.2 | 65.8 | 67.2 |
| 55° | 8525.3 | 4458.5 | 228.8 | 168.5 | 101.4 | 60.2 | 49.2 | 49.2 | 52.0 | 58.8 | 60.2 |
| 57.5° | 9184.1 | 4768.1 | 208.1 | 145.2 | 79.4 | 47.9 | 41.1 | 42.5 | 46.5 | 53.4 | 54.7 |
| 60° | 10151.1 | 5292.6 | 183.6 | 121.9 | 60.2 | 38.4 | 34.2 | 35.7 | 41.1 | 47.9 | 49.2 |
| 62.5° | 11793.5 | 6091.2 | 158.9 | 101.4 | 46.5 | 30.2 | 27.4 | 30.2 | 37.0 | 45.3 | 46.5 |
| 65° | 13275.5 | 6415.9 | 130.2 | 84.9 | 35.7 | 23.3 | 23.3 | 27.4 | 35.7 | 43.8 | 45.3 |
| 67.5° | 12449.5 | 5400.9 | 101.4 | 67.2 | 27.4 | 17.7 | 19.1 | 26.1 | 34.2 | 43.8 | 45.3 |
| 69° | 11009.9 | 4416.1 | 86.2 | 53.4 | 23.3 | 16.3 | 17.7 | 26.1 | 34.2 | 42.5 | 43.8 |
| 70° | 9888.2 | 3728.4 | 76.7 | 45.3 | 20.5 | 16.3 | 17.7 | 24.7 | 34.2 | 42.5 | 43.8 |
| 72.5° | 6622.7 | 2013.6 | 61.7 | 32.9 | 19.1 | 15.1 | 15.1 | 24.7 | 32.9 | 41.1 | 42.5 |
| 75° | 2846.3 | 556.1 | 49.2 | 23.3 | 16.3 | 13.7 | 13.7 | 23.3 | 31.5 | 39.7 | 42.5 |
| 77.5° | 520.5 | 141.0 | 39.7 | 20.5 | 16.3 | 13.7 | 12.3 | 21.9 | 30.2 | 38.4 | 39.7 |
| 80° | 206.8 | 69.9 | 31.5 | 17.7 | 15.1 | 12.3 | 11.0 | 20.5 | 28.7 | 37.0 | 38.4 |
| 82.5° | 124.7 | 39.7 | 26.1 | 16.3 | 15.1 | 11.0 | 9.6 | 17.7 | 27.4 | 35.7 | 37.0 |
| 85° | 101.4 | 27.4 | 20.5 | 16.3 | 13.7 | 11.0 | 8.3 | 16.3 | 24.7 | 34.2 | 35.7 |
| 87.5° | 49.2 | 19.1 | 19.1 | 15.1 | 13.7 | 11.0 | 8.3 | 15.1 | 23.3 | 32.9 | 34.2 |
| 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)