

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: P649006

Luminaire Tested: **GLAN-SA6C-835-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649006
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA6C-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25557.1 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

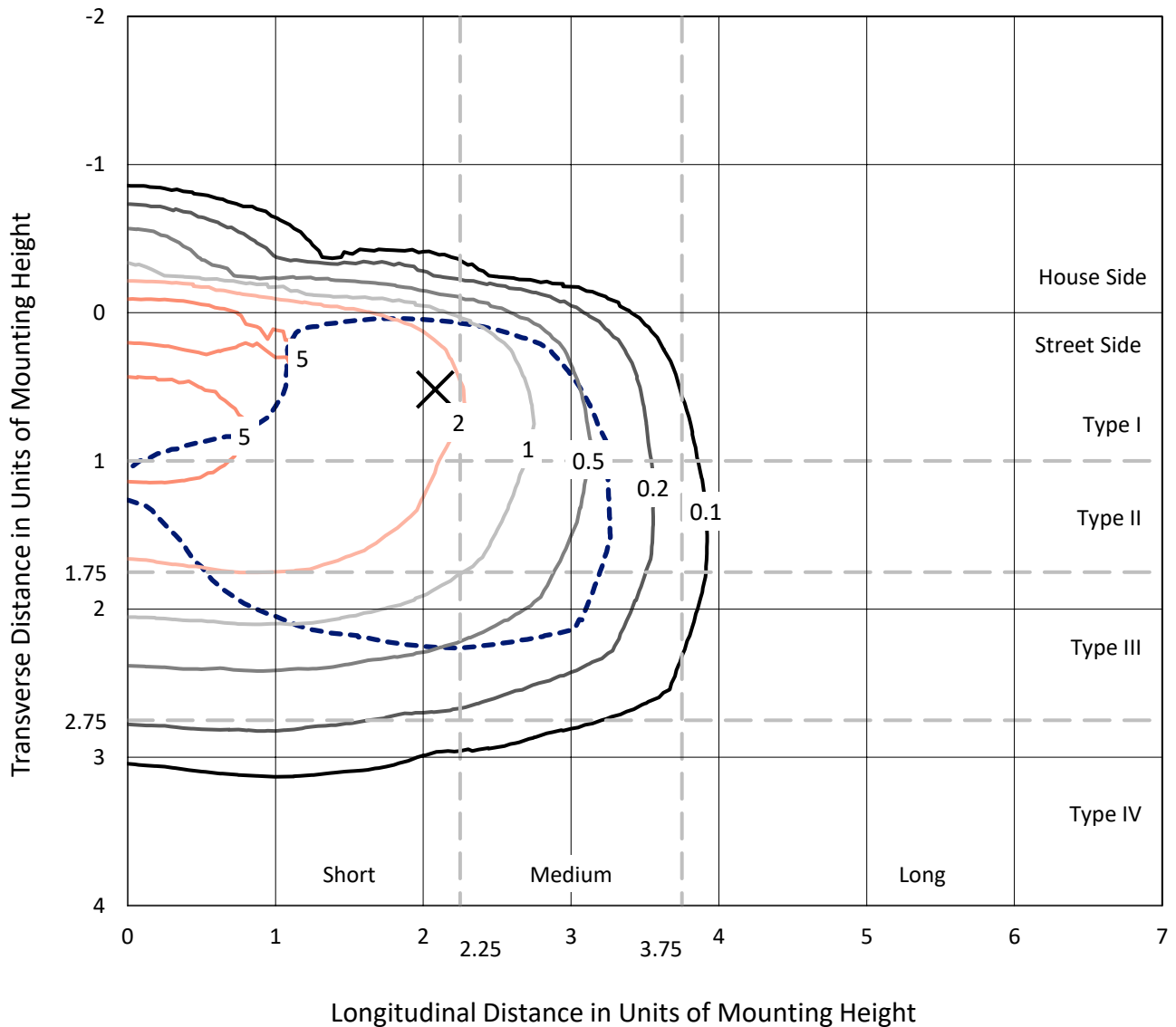
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

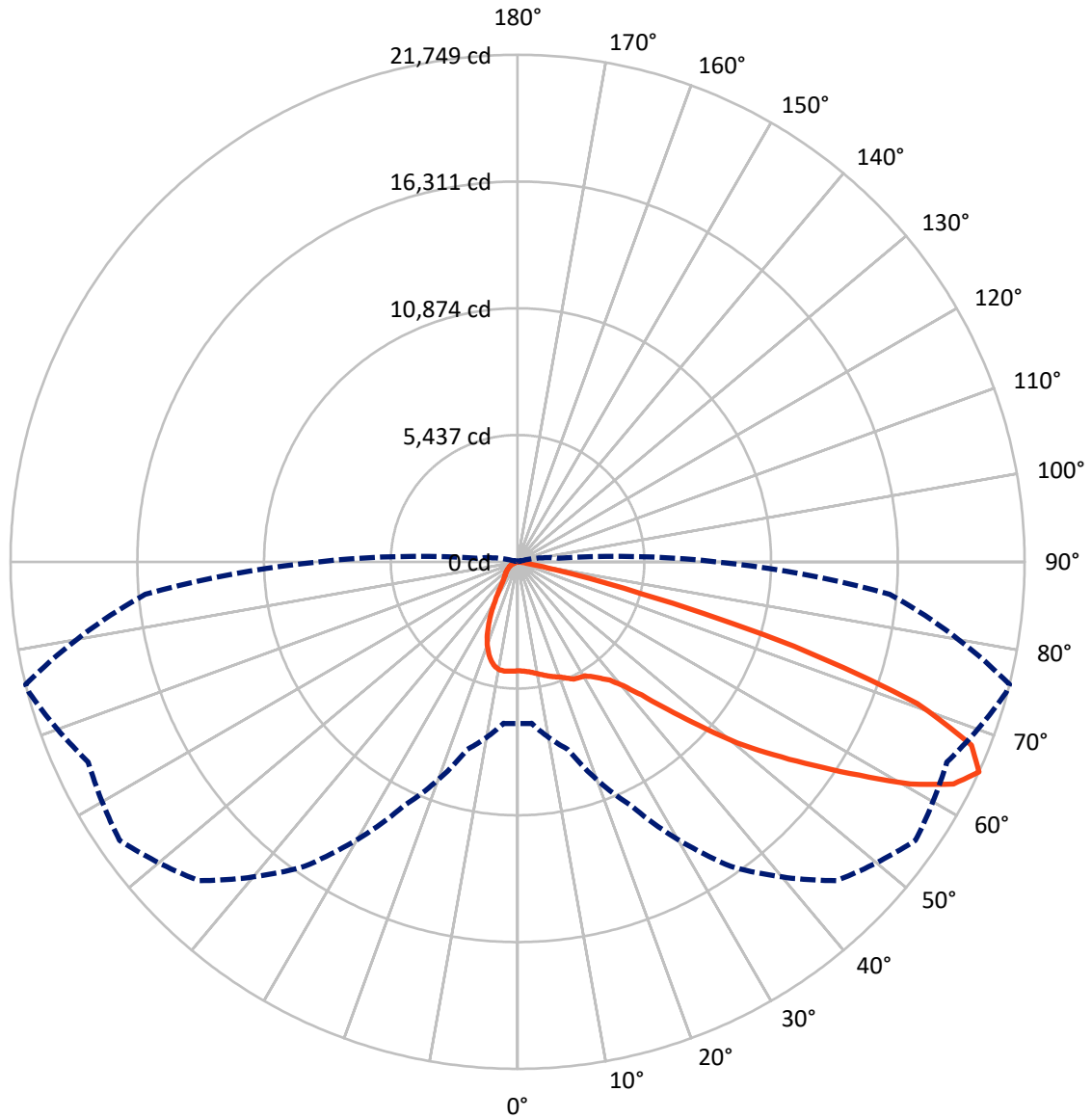
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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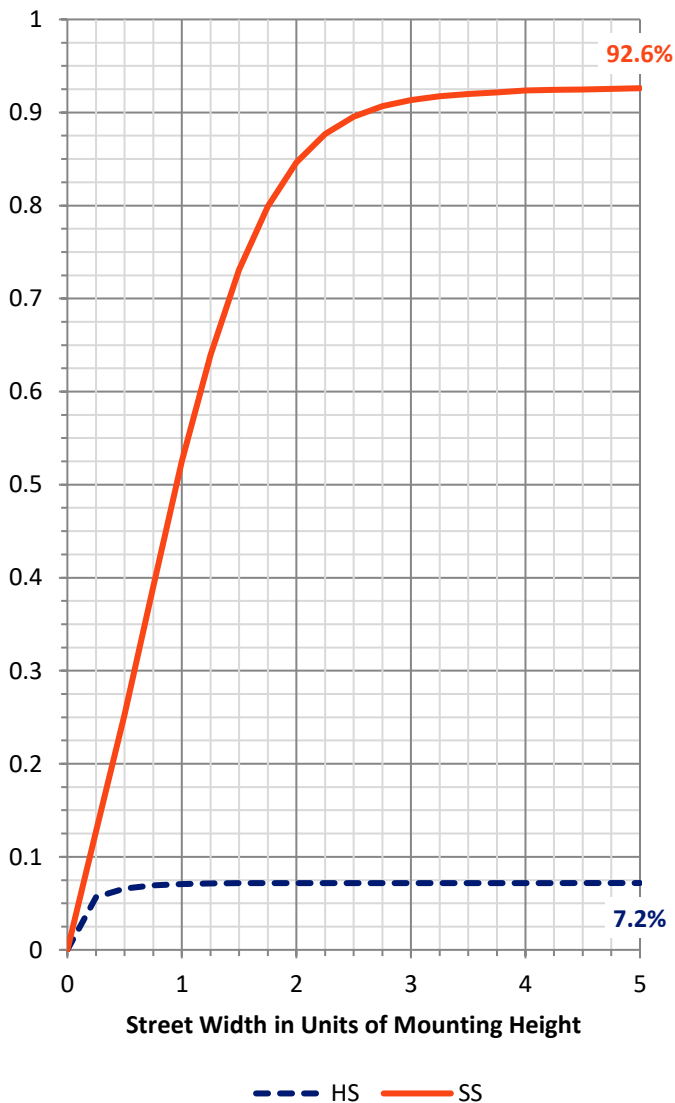
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1845.7 | 0.0 | 1845.7 |
| | % Fixture | 7.2 | 0.0 | 7.2 |
| Street Side | Lumens | 23711.4 | 0.0 | 23711.4 |
| | % Fixture | 92.8 | 0.0 | 92.8 |
| Total | Lumens | 25557.1 | 0.0 | 25557.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 385.1 | 1.5 |
| 10°-20° | 857.5 | 3.4 |
| 20°-30° | 1381.8 | 5.4 |
| 30°-40° | 2402.6 | 9.4 |
| 40°-50° | 3970.2 | 15.5 |
| 50°-60° | 6133.1 | 24.0 |
| 60°-70° | 7489.4 | 29.3 |
| 70°-80° | 2842.4 | 11.1 |
| 80°-90° | 94.9 | 0.4 |
| 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° | 25557.1 | 100.0 |
| 0°-180° | 25557.1 | 100.0 |

Coefficient of Utilization

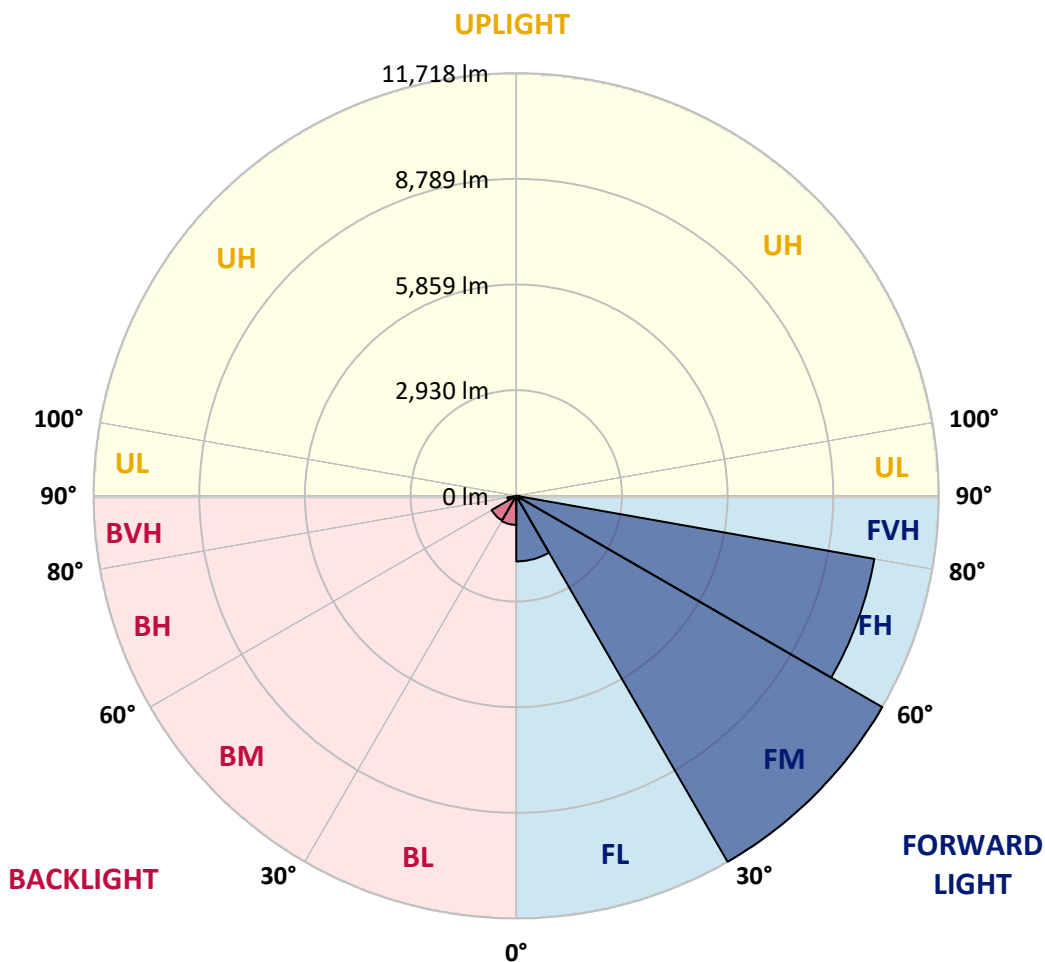


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1818.1 | 7.1 | | | |
| FM (30°-60°) | 11718.3 | 45.9 | | | |
| FH (60°-80°) | 10081.4 | 39.4 | | | G4/12000 |
| FVH (80°-90°) | 93.6 | 0.4 | | | G1/100 |
| BL (0°-30°) | 806.4 | 3.2 | B2/1000 | | |
| BM (30°-60°) | 787.6 | 3.1 | B1/1000 | | |
| BH (60°-80°) | 250.4 | 1.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.3 | 0.0 | | | G0/10 |
| 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° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4675.2 | 4675.2 | 4675.2 | 4675.2 | 4675.2 | 4675.2 | 4675.2 | 4675.2 | 4675.2 | 4675.2 | 4675.2 |
| 2.5° | 4467.7 | 4469.5 | 4480.3 | 4507.4 | 4548.9 | 4583.2 | 4612.0 | 4659.0 | 4691.4 | 4695.0 | 4705.9 |
| 5° | 4159.1 | 4137.5 | 4159.1 | 4229.5 | 4292.6 | 4388.3 | 4505.6 | 4622.9 | 4727.5 | 4734.7 | 4785.3 |
| 7.5° | 3812.7 | 3830.7 | 3865.0 | 3937.2 | 4056.3 | 4202.4 | 4372.0 | 4581.4 | 4779.9 | 4797.9 | 4897.1 |
| 10° | 3460.9 | 3500.6 | 3556.5 | 3666.6 | 3832.6 | 4022.0 | 4253.0 | 4552.5 | 4862.9 | 4888.1 | 5059.6 |
| 12.5° | 3136.1 | 3154.1 | 3222.7 | 3370.7 | 3576.4 | 3843.4 | 4162.7 | 4536.3 | 4954.9 | 4985.6 | 5232.8 |
| 15° | 2887.1 | 2910.5 | 2970.1 | 3103.6 | 3332.8 | 3675.6 | 4088.7 | 4530.8 | 5045.1 | 5088.4 | 5406.0 |
| 17.5° | 2840.1 | 2854.6 | 2879.8 | 2970.1 | 3170.4 | 3542.1 | 4022.0 | 4529.0 | 5131.7 | 5184.1 | 5566.6 |
| 20° | 3033.2 | 3020.6 | 2995.3 | 2986.3 | 3096.4 | 3439.2 | 3973.3 | 4543.5 | 5214.7 | 5274.3 | 5736.2 |
| 22.5° | 3516.8 | 3533.1 | 3385.1 | 3210.1 | 3174.0 | 3423.0 | 3966.1 | 4612.0 | 5346.5 | 5416.8 | 5925.7 |
| 25° | 4543.5 | 4419.0 | 4188.0 | 3769.4 | 3453.7 | 3522.2 | 4047.2 | 4774.4 | 5499.8 | 5577.4 | 6097.1 |
| 27.5° | 5678.5 | 5640.6 | 5281.5 | 4592.2 | 4003.9 | 3731.5 | 4191.6 | 4899.0 | 5550.4 | 5629.8 | 6194.5 |
| 30° | 6793.6 | 6838.7 | 6427.3 | 5665.9 | 4803.3 | 4119.4 | 4326.9 | 4945.9 | 5595.5 | 5678.5 | 6319.0 |
| 32.5° | 7827.5 | 7881.7 | 7520.8 | 6766.5 | 5745.3 | 4790.7 | 4559.7 | 5128.1 | 5785.0 | 5869.8 | 6526.5 |
| 35° | 8641.3 | 8648.5 | 8376.1 | 7775.2 | 6773.7 | 5606.3 | 5063.2 | 5447.5 | 6041.2 | 6140.4 | 6746.6 |
| 37.5° | 9388.3 | 9377.5 | 9058.1 | 8540.3 | 7630.8 | 6416.5 | 5696.5 | 5815.6 | 6333.5 | 6436.3 | 7064.2 |
| 40° | 9942.3 | 9949.5 | 9846.6 | 9359.4 | 8430.2 | 7165.3 | 6198.1 | 6160.3 | 6824.2 | 6984.8 | 7526.2 |
| 42.5° | 10312.2 | 10378.9 | 10429.5 | 10182.3 | 9435.2 | 8087.4 | 6968.6 | 6898.2 | 7675.9 | 7809.5 | 8179.4 |
| 45° | 10611.7 | 10730.8 | 10983.4 | 10970.8 | 10400.6 | 9218.7 | 8026.0 | 7881.7 | 8883.1 | 9025.6 | 9011.2 |
| 47.5° | 10830.1 | 10951.0 | 11369.6 | 11622.1 | 11308.2 | 10315.8 | 9355.8 | 9231.3 | 10324.8 | 10480.0 | 9929.6 |
| 50° | 10941.9 | 11086.3 | 11620.3 | 12109.3 | 12017.3 | 11373.2 | 10871.6 | 10878.8 | 12066.0 | 12215.8 | 10994.3 |
| 52.5° | 10680.3 | 10868.0 | 11753.9 | 12634.4 | 12813.1 | 12385.4 | 12291.6 | 12529.8 | 13616.1 | 13744.2 | 11956.0 |
| 55° | 9844.8 | 10081.2 | 11571.6 | 13082.0 | 13735.2 | 13580.0 | 13904.7 | 14267.4 | 15310.4 | 15393.4 | 12943.0 |
| 57.5° | 9316.1 | 9566.9 | 11034.0 | 13462.7 | 14843.0 | 15081.2 | 15595.5 | 15860.7 | 17058.8 | 17269.9 | 14076.1 |
| 60° | 8870.5 | 9067.1 | 10591.9 | 13543.9 | 15969.0 | 16918.1 | 17417.9 | 17692.2 | 19216.9 | 19354.0 | 15323.0 |
| 62.5° | 8128.9 | 8354.4 | 9844.8 | 12977.3 | 16535.6 | 18388.7 | 19424.4 | 19301.7 | 20886.0 | 20981.6 | 16088.1 |
| 65° | 6936.1 | 6956.0 | 8329.2 | 11553.6 | 15951.0 | 19343.2 | 20833.7 | 20319.4 | 21683.5 | 21748.5 | 16028.6 |
| 67.5° | 5176.8 | 5368.1 | 6407.4 | 9081.5 | 13473.5 | 18527.7 | 21290.2 | 20346.5 | 21180.1 | 20999.7 | 14756.4 |
| 70° | 3334.6 | 3480.7 | 4343.2 | 6297.4 | 9714.9 | 15462.0 | 19776.3 | 18951.7 | 18589.0 | 18188.4 | 12078.7 |
| 72.5° | 1539.1 | 1726.8 | 2580.3 | 3598.0 | 5761.5 | 11014.1 | 16053.8 | 15397.0 | 13379.7 | 12390.8 | 7677.7 |
| 75° | 671.3 | 718.2 | 1273.9 | 1898.2 | 2701.2 | 5824.6 | 10584.7 | 9557.9 | 6043.0 | 5519.7 | 3072.9 |
| 77.5° | 409.6 | 440.3 | 667.7 | 1017.7 | 1061.0 | 2219.4 | 5701.9 | 4169.9 | 1867.5 | 1647.4 | 833.7 |
| 80° | 277.9 | 312.2 | 485.4 | 532.3 | 362.7 | 618.9 | 2140.0 | 1113.3 | 377.1 | 360.9 | 178.6 |
| 82.5° | 135.3 | 171.4 | 359.1 | 297.7 | 157.0 | 198.5 | 622.5 | 238.2 | 110.1 | 102.9 | 63.2 |
| 85° | 19.8 | 34.3 | 202.1 | 194.9 | 70.4 | 46.9 | 110.1 | 59.5 | 37.9 | 36.1 | 28.9 |
| 87.5° | 0.0 | 0.0 | 68.6 | 30.7 | 7.2 | 7.2 | 12.6 | 12.6 | 14.4 | 12.6 | 14.4 |
| 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° | 4675.2 | 4675.2 | 4675.2 | 4675.2 | 4675.2 | 4675.2 | 4675.2 | 4675.2 | 4675.2 | 4675.2 | 4675.2 |
| 2.5° | 4711.3 | 4720.3 | 4686.0 | 4637.3 | 4585.0 | 4532.6 | 4458.7 | 4391.9 | 4352.2 | 4375.7 | 4317.9 |
| 5° | 4796.1 | 4788.9 | 4698.7 | 4550.7 | 4354.0 | 4117.6 | 3883.1 | 3682.8 | 3617.9 | 3520.4 | 3509.6 |
| 7.5° | 4913.4 | 4893.5 | 4702.3 | 4363.0 | 3919.1 | 3475.3 | 3042.2 | 2755.3 | 2591.1 | 2452.2 | 2455.8 |
| 10° | 5077.6 | 5019.9 | 4660.8 | 4032.8 | 3302.1 | 2632.6 | 2080.5 | 1701.5 | 1537.3 | 1485.0 | 1443.5 |
| 12.5° | 5247.2 | 5135.3 | 4545.3 | 3587.2 | 2571.3 | 1799.0 | 1264.9 | 1034.0 | 932.9 | 900.4 | 896.8 |
| 15° | 5398.8 | 5222.0 | 4343.2 | 3051.3 | 1869.3 | 1149.4 | 862.5 | 786.8 | 774.1 | 775.9 | 774.1 |
| 17.5° | 5548.6 | 5290.5 | 4063.5 | 2482.9 | 1270.3 | 824.6 | 741.6 | 723.6 | 729.0 | 736.2 | 734.4 |
| 20° | 5673.1 | 5305.0 | 3706.3 | 1894.6 | 898.6 | 723.6 | 696.5 | 692.9 | 698.3 | 703.7 | 703.7 |
| 22.5° | 5808.4 | 5315.8 | 3282.2 | 1311.8 | 734.4 | 673.1 | 658.6 | 658.6 | 665.9 | 673.1 | 674.9 |
| 25° | 5909.5 | 5256.2 | 2775.2 | 941.9 | 647.8 | 624.3 | 617.1 | 618.9 | 626.2 | 629.8 | 628.0 |
| 27.5° | 5925.7 | 5088.4 | 2237.5 | 721.8 | 588.3 | 564.8 | 557.6 | 564.8 | 555.8 | 561.2 | 557.6 |
| 30° | 5940.1 | 4875.5 | 1692.5 | 608.1 | 534.1 | 498.0 | 487.2 | 476.4 | 469.2 | 460.1 | 458.3 |
| 32.5° | 5985.2 | 4624.7 | 1236.0 | 546.8 | 483.6 | 443.9 | 418.6 | 388.0 | 364.5 | 357.3 | 355.5 |
| 35° | 6005.1 | 4323.3 | 907.7 | 498.0 | 438.5 | 395.2 | 350.1 | 306.8 | 272.5 | 259.8 | 268.9 |
| 37.5° | 6080.9 | 4031.0 | 703.7 | 461.9 | 398.8 | 344.7 | 286.9 | 232.8 | 200.3 | 193.1 | 196.7 |
| 40° | 6236.0 | 3713.5 | 590.1 | 431.3 | 364.5 | 297.7 | 227.4 | 175.0 | 153.4 | 146.2 | 144.4 |
| 42.5° | 6485.0 | 3397.7 | 525.1 | 402.4 | 330.2 | 250.8 | 178.6 | 137.1 | 119.1 | 113.7 | 113.7 |
| 45° | 6788.1 | 3094.6 | 480.0 | 371.7 | 294.1 | 202.1 | 140.7 | 110.1 | 99.2 | 95.6 | 95.6 |
| 47.5° | 7186.9 | 2829.3 | 442.1 | 341.0 | 254.4 | 160.6 | 113.7 | 95.6 | 88.4 | 90.2 | 92.0 |
| 50° | 7591.1 | 2632.6 | 400.6 | 306.8 | 209.3 | 131.7 | 97.4 | 84.8 | 83.0 | 84.8 | 84.8 |
| 52.5° | 7896.1 | 2517.1 | 344.7 | 259.8 | 164.2 | 110.1 | 86.6 | 79.4 | 77.6 | 74.0 | 74.0 |
| 55° | 8307.5 | 2491.9 | 274.3 | 211.1 | 129.9 | 92.0 | 77.6 | 72.2 | 66.8 | 63.2 | 61.4 |
| 57.5° | 8836.2 | 2520.8 | 211.1 | 164.2 | 101.1 | 75.8 | 68.6 | 59.5 | 52.3 | 45.1 | 45.1 |
| 60° | 9164.5 | 2455.8 | 164.2 | 126.3 | 74.0 | 61.4 | 52.3 | 43.3 | 34.3 | 28.9 | 27.1 |
| 62.5° | 9059.9 | 2181.5 | 129.9 | 93.8 | 52.3 | 45.1 | 34.3 | 28.9 | 19.8 | 14.4 | 12.6 |
| 65° | 8520.4 | 1761.1 | 104.7 | 65.0 | 37.9 | 27.1 | 18.0 | 18.0 | 9.0 | 1.8 | 0.0 |
| 67.5° | 7457.6 | 1304.6 | 83.0 | 43.3 | 21.7 | 12.6 | 9.0 | 5.4 | 0.0 | 0.0 | 0.0 |
| 70° | 6070.1 | 941.9 | 65.0 | 27.1 | 12.6 | 9.0 | 3.6 | 1.8 | 0.0 | 0.0 | 0.0 |
| 72.5° | 3854.2 | 539.5 | 50.5 | 16.2 | 9.0 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1490.4 | 211.1 | 34.3 | 10.8 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 422.2 | 99.2 | 19.8 | 5.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 110.1 | 43.3 | 10.8 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 52.3 | 18.0 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 30.7 | 7.2 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 14.4 | 1.8 | 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)