

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: P194375

Luminaire Tested: **GAN-AF-07-LED-U-SL2-7060-600-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-SL2-7060-600-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22977 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 226
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

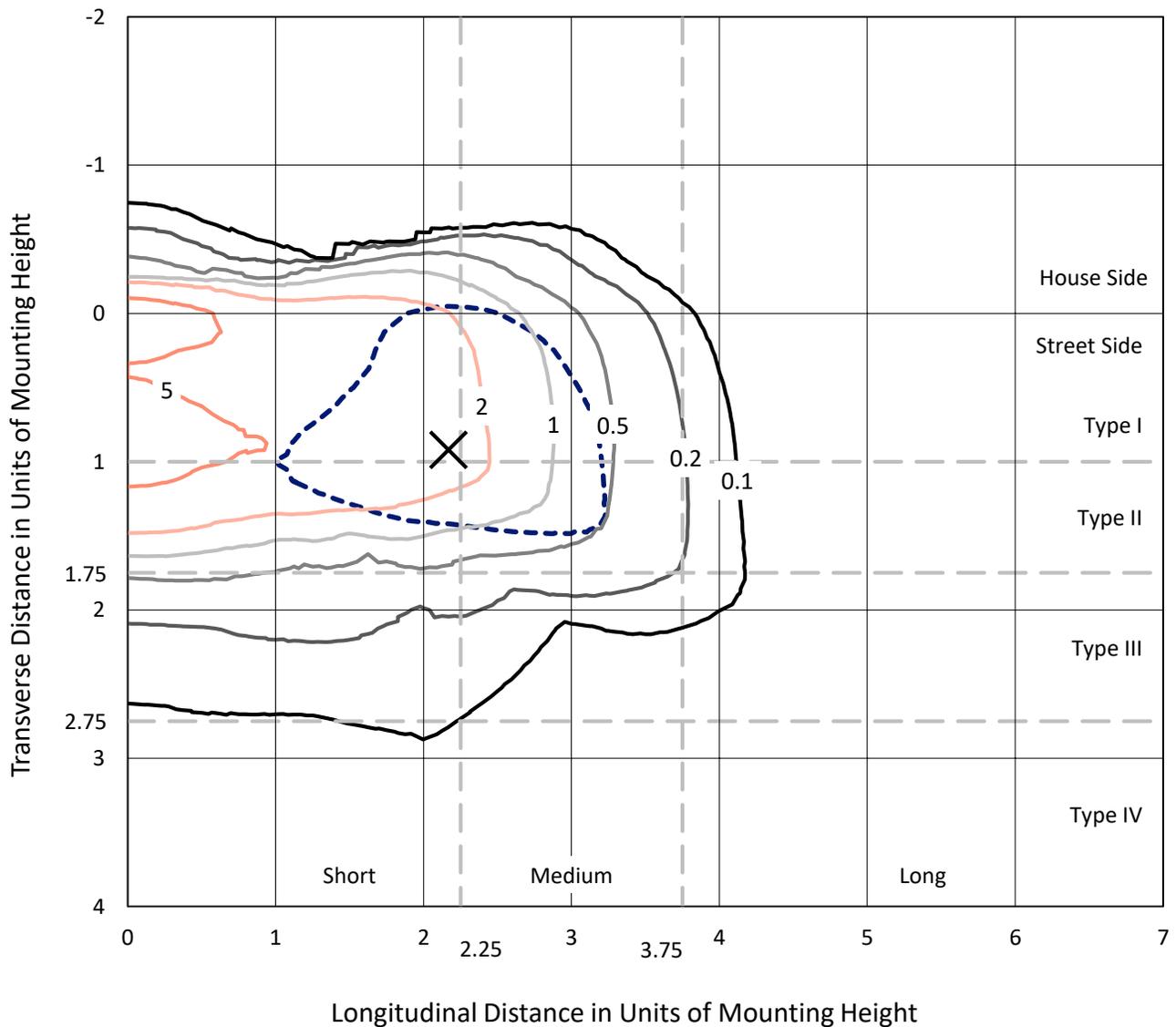


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

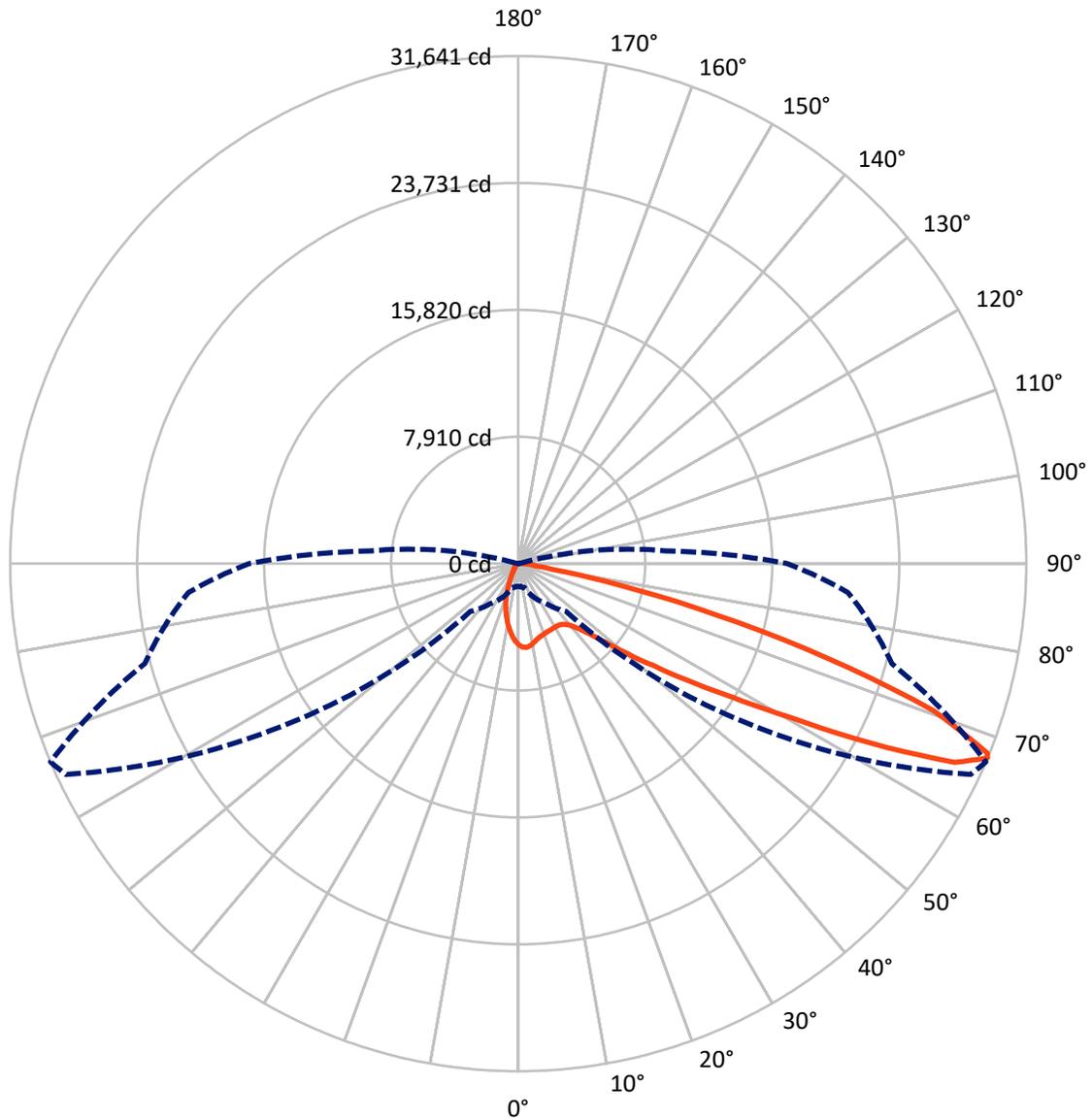


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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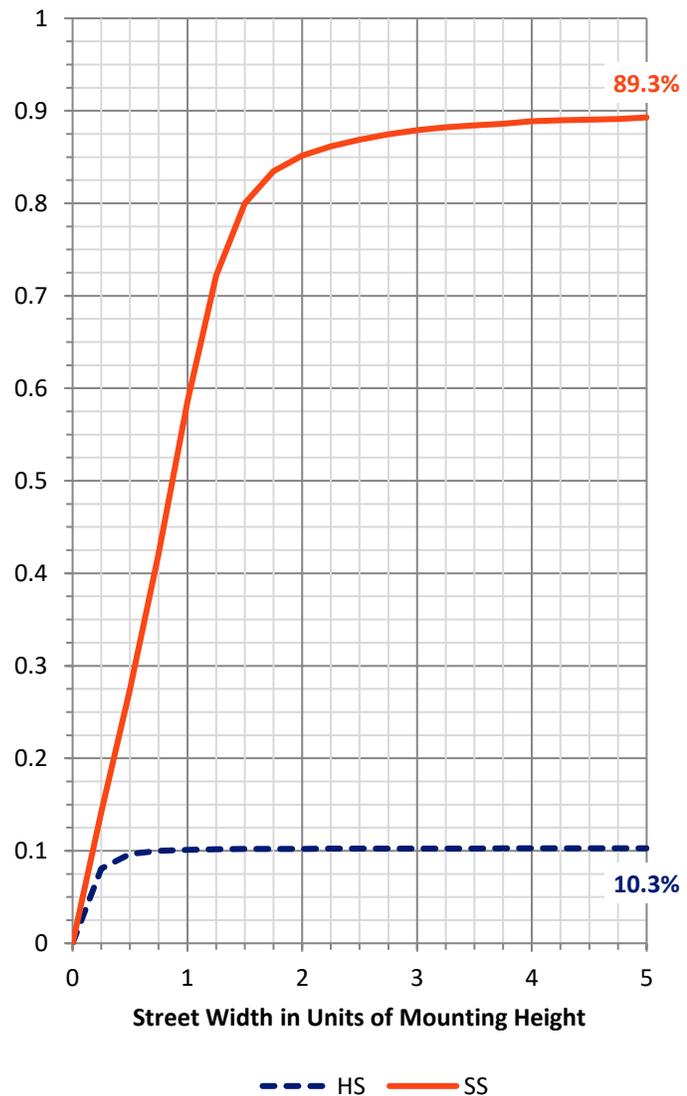
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2385.7 | 0.0 | 2385.7 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 20591.3 | 0.0 | 20591.3 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 22977.0 | 0.0 | 22977.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 412.3 | 1.8 |
| 10°-20° | 877.6 | 3.8 |
| 20°-30° | 1275.9 | 5.6 |
| 30°-40° | 1990.5 | 8.7 |
| 40°-50° | 3526.0 | 15.3 |
| 50°-60° | 5579.6 | 24.3 |
| 60°-70° | 6390.6 | 27.8 |
| 70°-80° | 2650.8 | 11.5 |
| 80°-90° | 273.8 | 1.2 |
| 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° | 22977.0 | 100.0 |
| 0°-180° | 22977.0 | 100.0 |

Coefficient of Utilization



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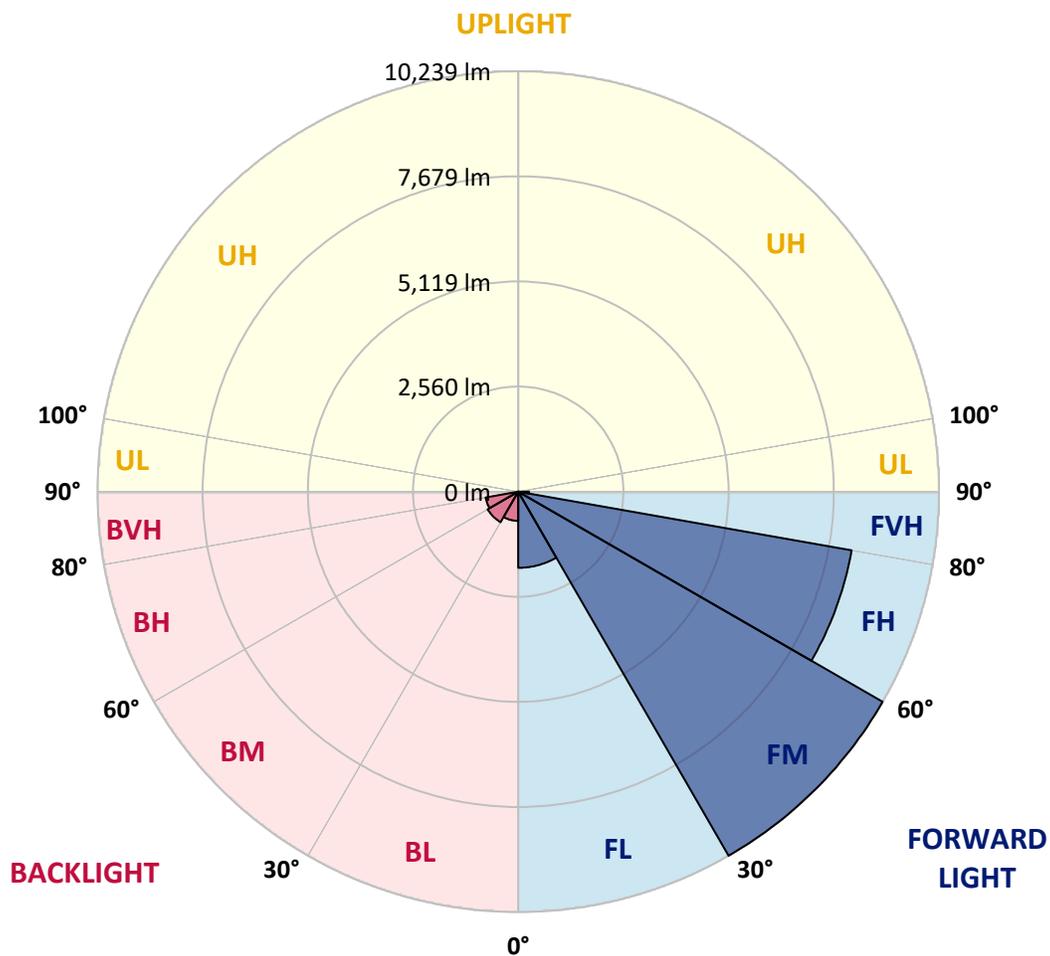
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1853.9 | 8.1 | | | |
| FM | (30°-60°) | 10238.6 | 44.6 | | | |
| FH | (60°-80°) | 8237.3 | 35.9 | | | G4/12000 |
| FVH | (80°-90°) | 261.5 | 1.1 | | | G3/500 |
| BL | (0°-30°) | 711.9 | 3.1 | B2/1000 | | |
| BM | (30°-60°) | 857.4 | 3.7 | B1/1000 | | |
| BH | (60°-80°) | 804.1 | 3.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 12.3 | 0.1 | | | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5067.3 | 5067.3 | 5067.3 | 5067.3 | 5067.3 | 5067.3 | 5067.3 | 5067.3 | 5067.3 | 5067.3 | 5067.3 |
| 2.5° | 5238.8 | 5249.5 | 5248.2 | 5256.2 | 5275.0 | 5276.3 | 5257.6 | 5221.4 | 5213.4 | 5166.5 | 5084.7 |
| 5° | 4831.4 | 4862.2 | 4881.0 | 4957.4 | 5043.2 | 5146.3 | 5224.1 | 5252.2 | 5248.2 | 5214.7 | 5091.4 |
| 7.5° | 4366.4 | 4397.2 | 4418.6 | 4508.4 | 4622.3 | 4799.2 | 5001.6 | 5167.8 | 5182.5 | 5218.7 | 5086.0 |
| 10° | 4056.8 | 4062.1 | 4091.6 | 4177.4 | 4296.7 | 4477.6 | 4718.8 | 5009.6 | 5053.9 | 5186.6 | 5072.6 |
| 12.5° | 3802.1 | 3806.2 | 3845.0 | 3937.5 | 4064.8 | 4247.1 | 4500.4 | 4836.8 | 4905.1 | 5146.3 | 5070.0 |
| 15° | 3621.2 | 3635.9 | 3670.8 | 3767.3 | 3902.6 | 4083.6 | 4343.6 | 4709.4 | 4791.2 | 5131.6 | 5094.1 |
| 17.5° | 3560.9 | 3577.0 | 3587.7 | 3657.4 | 3780.7 | 3957.6 | 4224.3 | 4626.4 | 4718.8 | 5139.6 | 5141.0 |
| 20° | 3623.9 | 3635.9 | 3611.8 | 3629.2 | 3705.6 | 3863.8 | 4123.8 | 4555.3 | 4665.2 | 5149.0 | 5201.3 |
| 22.5° | 3858.4 | 3863.8 | 3798.1 | 3721.7 | 3708.3 | 3795.4 | 4044.7 | 4499.0 | 4617.0 | 5174.5 | 5272.3 |
| 25° | 4260.5 | 4251.1 | 4143.9 | 3979.0 | 3823.6 | 3783.4 | 3997.8 | 4464.2 | 4592.8 | 5201.3 | 5346.0 |
| 27.5° | 4745.6 | 4759.0 | 4611.6 | 4371.7 | 4075.5 | 3863.8 | 3991.1 | 4449.4 | 4582.1 | 5220.1 | 5410.4 |
| 30° | 5335.3 | 5354.1 | 5185.2 | 4883.7 | 4458.8 | 4062.1 | 4052.7 | 4446.8 | 4575.4 | 5208.0 | 5415.7 |
| 32.5° | 5937.1 | 5959.8 | 5827.2 | 5516.2 | 4970.8 | 4394.5 | 4192.1 | 4476.3 | 4588.8 | 5166.5 | 5384.9 |
| 35° | 6567.0 | 6599.1 | 6510.7 | 6244.0 | 5665.0 | 4874.3 | 4437.4 | 4566.0 | 4651.8 | 5162.4 | 5354.1 |
| 37.5° | 7436.7 | 7466.2 | 7300.0 | 7017.3 | 6505.3 | 5517.6 | 4831.4 | 4734.9 | 4800.6 | 5226.8 | 5362.1 |
| 40° | 8735.4 | 8731.4 | 8302.5 | 7869.6 | 7428.7 | 6335.1 | 5384.9 | 5040.5 | 5074.0 | 5421.1 | 5461.3 |
| 42.5° | 10150.6 | 10143.9 | 9510.0 | 8852.0 | 8453.9 | 7341.6 | 6112.6 | 5568.5 | 5545.7 | 5778.9 | 5718.6 |
| 45° | 11241.6 | 11240.2 | 10722.9 | 9981.8 | 9688.3 | 8496.8 | 7053.4 | 6302.9 | 6268.1 | 6360.6 | 6193.0 |
| 47.5° | 11706.6 | 11714.6 | 11454.6 | 10933.3 | 11056.6 | 10059.5 | 8239.5 | 7367.1 | 7314.8 | 7277.3 | 7022.6 |
| 50° | 11344.8 | 11360.8 | 11382.3 | 11280.4 | 12060.4 | 12159.6 | 9830.3 | 8866.7 | 8841.3 | 8673.7 | 8275.7 |
| 52.5° | 10162.7 | 10244.5 | 10496.4 | 10819.4 | 12408.9 | 14175.2 | 12324.4 | 10729.6 | 10592.9 | 10414.7 | 9976.4 |
| 55° | 8171.2 | 8261.0 | 8739.4 | 9523.4 | 11890.2 | 15499.4 | 15819.7 | 13131.2 | 12903.4 | 12371.3 | 11738.8 |
| 57.5° | 5407.7 | 5547.1 | 6241.3 | 7238.4 | 10383.8 | 15712.4 | 19306.8 | 16464.3 | 15670.9 | 14214.1 | 13501.1 |
| 60° | 2979.3 | 3113.3 | 3866.5 | 4769.8 | 7499.7 | 14659.1 | 21652.2 | 20803.8 | 19402.0 | 16274.0 | 15641.4 |
| 62.5° | 1834.7 | 1907.1 | 2463.3 | 3303.6 | 4497.7 | 11569.9 | 22137.3 | 26257.1 | 24634.1 | 18926.2 | 18226.7 |
| 65° | 1460.8 | 1491.6 | 1763.7 | 2700.5 | 3224.5 | 6881.9 | 20570.7 | 30414.4 | 29872.9 | 22137.3 | 20541.2 |
| 67° | 1417.9 | 1430.0 | 1558.6 | 2318.5 | 3039.6 | 4218.9 | 17233.6 | 31091.2 | 31640.7 | 24080.6 | 20613.5 |
| 67.5° | 1427.3 | 1440.7 | 1562.7 | 2212.7 | 3034.2 | 3877.2 | 16083.7 | 30824.5 | 31518.7 | 24234.7 | 20293.2 |
| 70° | 1376.4 | 1417.9 | 1789.2 | 2211.3 | 2885.4 | 3221.8 | 9632.0 | 26707.4 | 27429.8 | 22518.0 | 17218.8 |
| 72.5° | 487.8 | 490.5 | 773.3 | 1789.2 | 3137.4 | 3256.7 | 4836.8 | 19578.9 | 20113.6 | 17225.5 | 12414.2 |
| 75° | 289.5 | 246.6 | 257.3 | 509.3 | 2998.0 | 3162.9 | 2790.3 | 12510.7 | 12710.4 | 9870.5 | 6286.9 |
| 77.5° | 199.7 | 174.2 | 179.6 | 225.2 | 1141.8 | 3118.6 | 2216.7 | 6524.1 | 6311.0 | 3461.7 | 1338.9 |
| 80° | 113.9 | 100.5 | 107.2 | 197.0 | 415.5 | 2909.6 | 2090.7 | 2645.5 | 2255.5 | 587.0 | 369.9 |
| 82.5° | 60.3 | 50.9 | 61.6 | 162.2 | 289.5 | 1813.3 | 2094.7 | 1278.5 | 1013.2 | 198.3 | 252.0 |
| 85° | 21.4 | 17.4 | 29.5 | 111.2 | 193.0 | 556.2 | 1941.9 | 1074.8 | 844.3 | 96.5 | 191.6 |
| 87.5° | 4.0 | 4.0 | 12.1 | 45.6 | 77.7 | 170.2 | 1148.5 | 637.9 | 427.5 | 57.6 | 131.3 |
| 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° | 5067.3 | 5067.3 | 5067.3 | 5067.3 | 5067.3 | 5067.3 | 5067.3 | 5067.3 | 5067.3 | 5067.3 | 5067.3 |
| 2.5° | 5051.2 | 4993.6 | 4915.8 | 4820.7 | 4708.1 | 4608.9 | 4535.2 | 4458.8 | 4442.7 | 4415.9 | 4411.9 |
| 5° | 5017.7 | 4918.5 | 4725.5 | 4504.4 | 4268.5 | 4055.4 | 3882.5 | 3728.4 | 3660.1 | 3601.1 | 3594.4 |
| 7.5° | 4968.1 | 4819.3 | 4491.0 | 4134.5 | 3765.9 | 3430.9 | 3146.8 | 2945.7 | 2760.8 | 2672.3 | 2658.9 |
| 10° | 4910.5 | 4697.4 | 4227.0 | 3732.4 | 3223.2 | 2750.1 | 2327.9 | 1974.1 | 1759.7 | 1632.4 | 1616.3 |
| 12.5° | 4856.9 | 4578.1 | 3957.6 | 3315.6 | 2638.8 | 2006.3 | 1463.5 | 1125.8 | 900.6 | 809.5 | 798.8 |
| 15° | 4831.4 | 4481.6 | 3705.6 | 2889.5 | 2027.7 | 1277.2 | 800.1 | 619.2 | 545.5 | 524.0 | 522.7 |
| 17.5° | 4828.7 | 4399.9 | 3459.0 | 2448.5 | 1420.6 | 742.5 | 521.3 | 475.8 | 461.0 | 455.7 | 455.7 |
| 20° | 4827.4 | 4322.1 | 3212.4 | 1991.5 | 902.0 | 494.5 | 434.2 | 423.5 | 412.8 | 406.1 | 406.1 |
| 22.5° | 4842.1 | 4252.4 | 2955.1 | 1525.1 | 568.2 | 400.7 | 382.0 | 371.2 | 357.8 | 348.5 | 347.1 |
| 25° | 4856.9 | 4198.8 | 2692.5 | 1085.6 | 411.4 | 348.5 | 329.7 | 314.9 | 296.2 | 284.1 | 282.8 |
| 27.5° | 4859.5 | 4131.8 | 2411.0 | 726.4 | 344.4 | 304.2 | 280.1 | 257.3 | 235.9 | 223.8 | 222.5 |
| 30° | 4819.3 | 4019.2 | 2098.7 | 490.5 | 304.2 | 264.0 | 231.9 | 207.7 | 187.6 | 178.2 | 178.2 |
| 32.5° | 4740.3 | 3879.9 | 1755.7 | 369.9 | 270.7 | 226.5 | 191.6 | 168.9 | 155.5 | 151.4 | 150.1 |
| 35° | 4669.2 | 3729.8 | 1403.2 | 313.6 | 242.6 | 191.6 | 156.8 | 142.1 | 134.0 | 132.7 | 131.3 |
| 37.5° | 4627.7 | 3609.1 | 1072.2 | 284.1 | 215.8 | 160.8 | 132.7 | 122.0 | 117.9 | 115.3 | 116.6 |
| 40° | 4659.9 | 3508.6 | 792.1 | 260.0 | 189.0 | 134.0 | 112.6 | 107.2 | 103.2 | 101.9 | 101.9 |
| 42.5° | 4800.6 | 3491.2 | 588.3 | 238.6 | 163.5 | 111.2 | 97.8 | 93.8 | 91.1 | 89.8 | 91.1 |
| 45° | 5170.5 | 3598.4 | 457.0 | 218.5 | 138.0 | 93.8 | 83.1 | 81.8 | 80.4 | 80.4 | 80.4 |
| 47.5° | 5726.7 | 3819.6 | 380.6 | 195.7 | 115.3 | 80.4 | 72.4 | 71.0 | 69.7 | 71.0 | 71.0 |
| 50° | 6668.8 | 4224.3 | 340.4 | 172.9 | 95.2 | 68.3 | 61.6 | 61.6 | 61.6 | 61.6 | 63.0 |
| 52.5° | 8101.5 | 5020.4 | 313.6 | 150.1 | 77.7 | 57.6 | 52.3 | 52.3 | 53.6 | 53.6 | 54.9 |
| 55° | 9697.7 | 6076.4 | 289.5 | 127.3 | 65.7 | 48.2 | 42.9 | 44.2 | 45.6 | 46.9 | 46.9 |
| 57.5° | 11429.2 | 7246.4 | 269.4 | 104.5 | 56.3 | 38.9 | 36.2 | 37.5 | 38.9 | 41.5 | 41.5 |
| 60° | 13518.5 | 8512.9 | 239.9 | 81.8 | 46.9 | 30.8 | 28.1 | 30.8 | 34.8 | 37.5 | 38.9 |
| 62.5° | 15813.0 | 9737.9 | 202.4 | 64.3 | 38.9 | 24.1 | 22.8 | 28.1 | 33.5 | 36.2 | 37.5 |
| 65° | 17381.0 | 10122.5 | 155.5 | 52.3 | 29.5 | 17.4 | 18.8 | 25.5 | 32.2 | 36.2 | 36.2 |
| 67° | 16745.7 | 9177.7 | 127.3 | 44.2 | 24.1 | 13.4 | 17.4 | 25.5 | 32.2 | 34.8 | 36.2 |
| 67.5° | 16304.8 | 8807.8 | 122.0 | 42.9 | 22.8 | 13.4 | 17.4 | 25.5 | 32.2 | 36.2 | 36.2 |
| 70° | 13266.6 | 6616.5 | 101.9 | 32.2 | 18.8 | 12.1 | 14.7 | 24.1 | 30.8 | 34.8 | 34.8 |
| 72.5° | 9217.9 | 4079.6 | 91.1 | 22.8 | 16.1 | 10.7 | 13.4 | 22.8 | 29.5 | 33.5 | 34.8 |
| 75° | 4382.4 | 1476.9 | 77.7 | 17.4 | 14.7 | 9.4 | 12.1 | 22.8 | 29.5 | 33.5 | 33.5 |
| 77.5° | 893.9 | 343.1 | 63.0 | 14.7 | 12.1 | 9.4 | 10.7 | 21.4 | 28.1 | 32.2 | 32.2 |
| 80° | 293.5 | 132.7 | 46.9 | 13.4 | 12.1 | 9.4 | 10.7 | 20.1 | 28.1 | 30.8 | 32.2 |
| 82.5° | 211.8 | 67.0 | 30.8 | 13.4 | 12.1 | 9.4 | 9.4 | 20.1 | 26.8 | 30.8 | 30.8 |
| 85° | 162.2 | 46.9 | 20.1 | 13.4 | 12.1 | 9.4 | 9.4 | 18.8 | 25.5 | 29.5 | 29.5 |
| 87.5° | 107.2 | 18.8 | 16.1 | 13.4 | 12.1 | 9.4 | 9.4 | 18.8 | 24.1 | 28.1 | 29.5 |
| 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)