

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: P194393

Luminaire Tested: **GAN-AF-05-LED-U-SL2-7060-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194393
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-05-LED-U-SL2-7060-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 1050mA 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: 24642 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

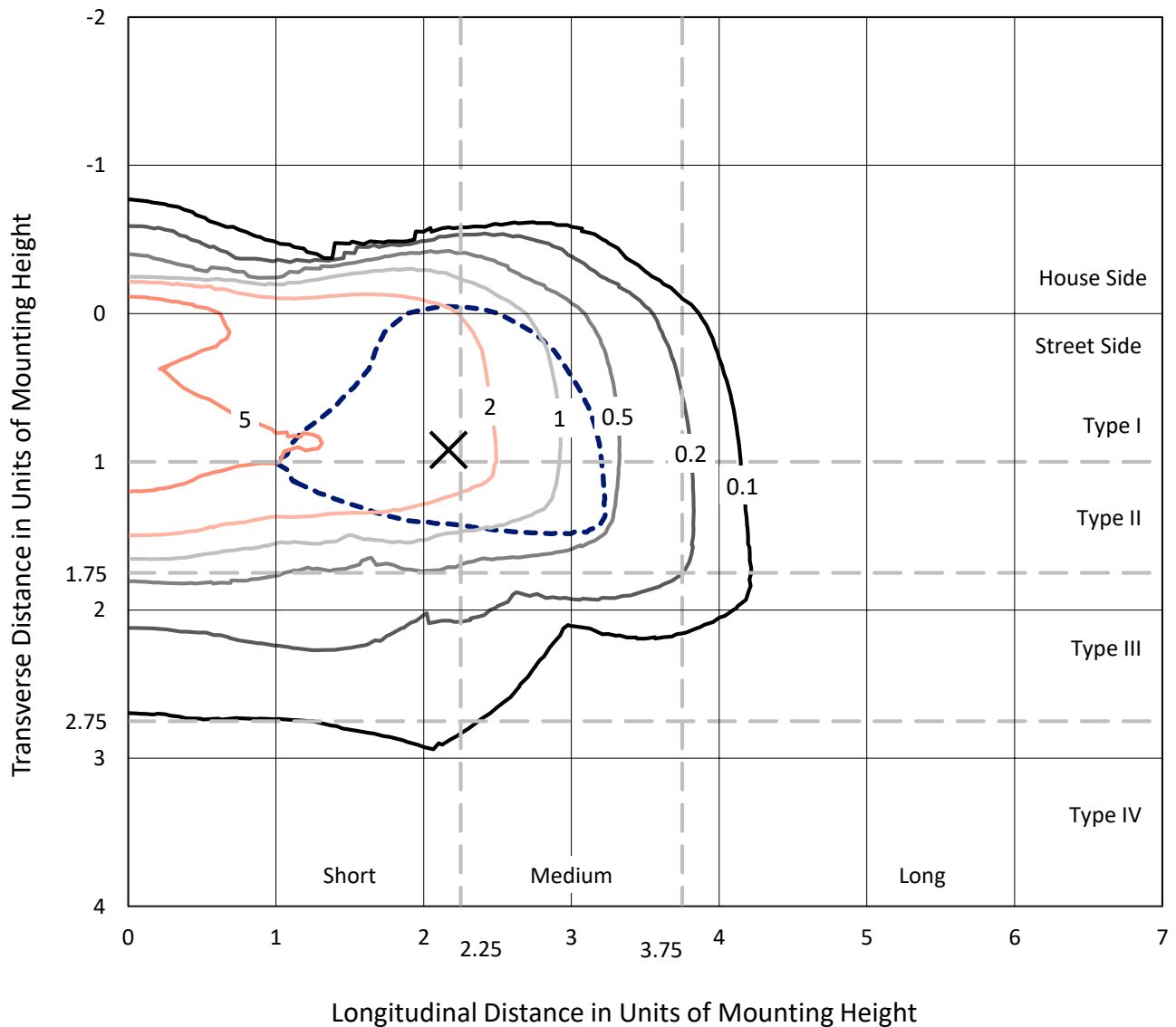
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

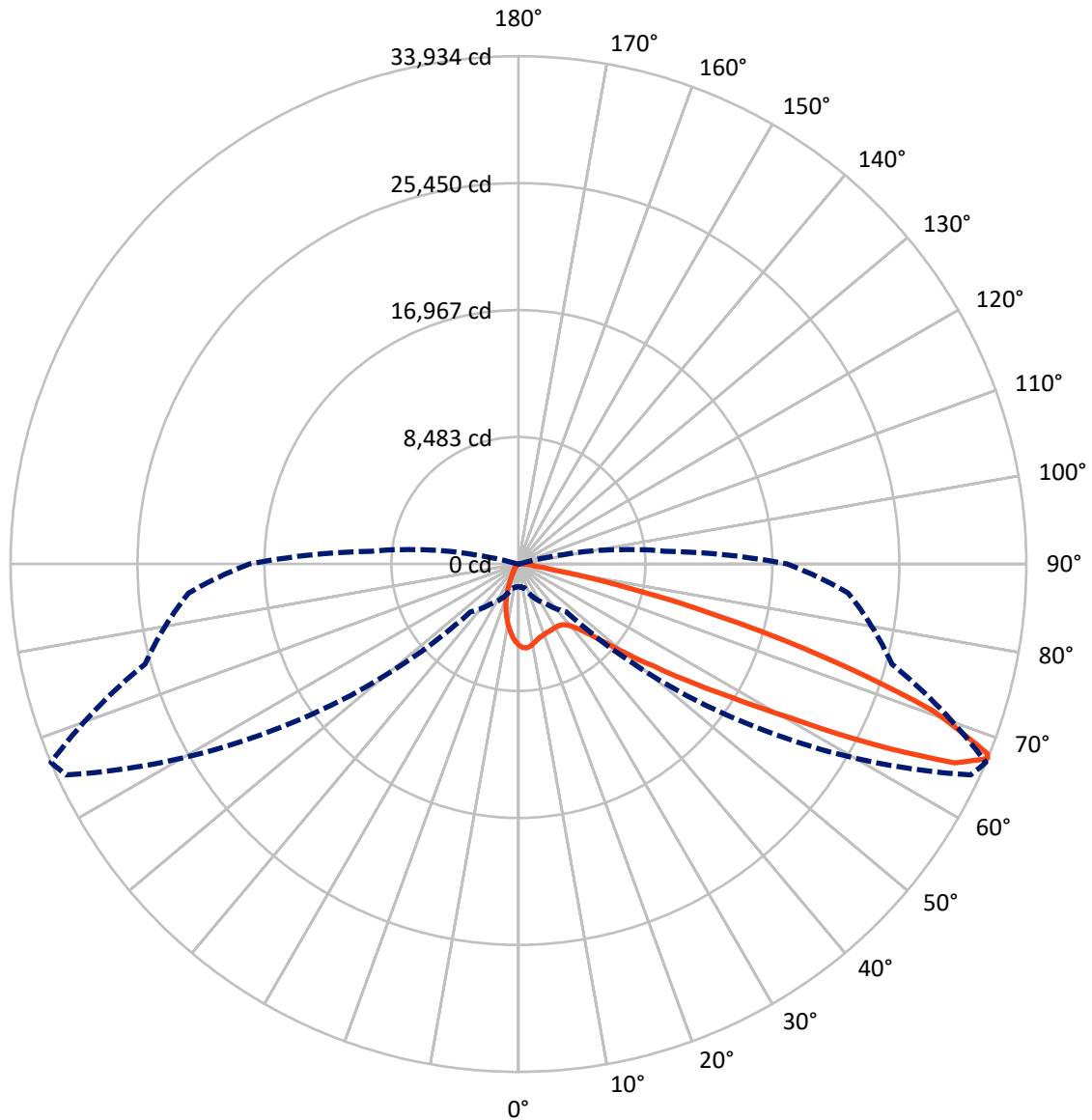
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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 | 2558.6 | 0.0 | 2558.6 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 22083.4 | 0.0 | 22083.4 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 24642.0 | 0.0 | 24642.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 442.2 | 1.8 |
| 10°-20° | 941.2 | 3.8 |
| 20°-30° | 1368.4 | 5.6 |
| 30°-40° | 2134.7 | 8.7 |
| 40°-50° | 3781.5 | 15.3 |
| 50°-60° | 5983.9 | 24.3 |
| 60°-70° | 6853.7 | 27.8 |
| 70°-80° | 2842.9 | 11.5 |
| 80°-90° | 293.7 | 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° | 24642.0 | 100.0 |
| 0°-180° | 24642.0 | 100.0 |



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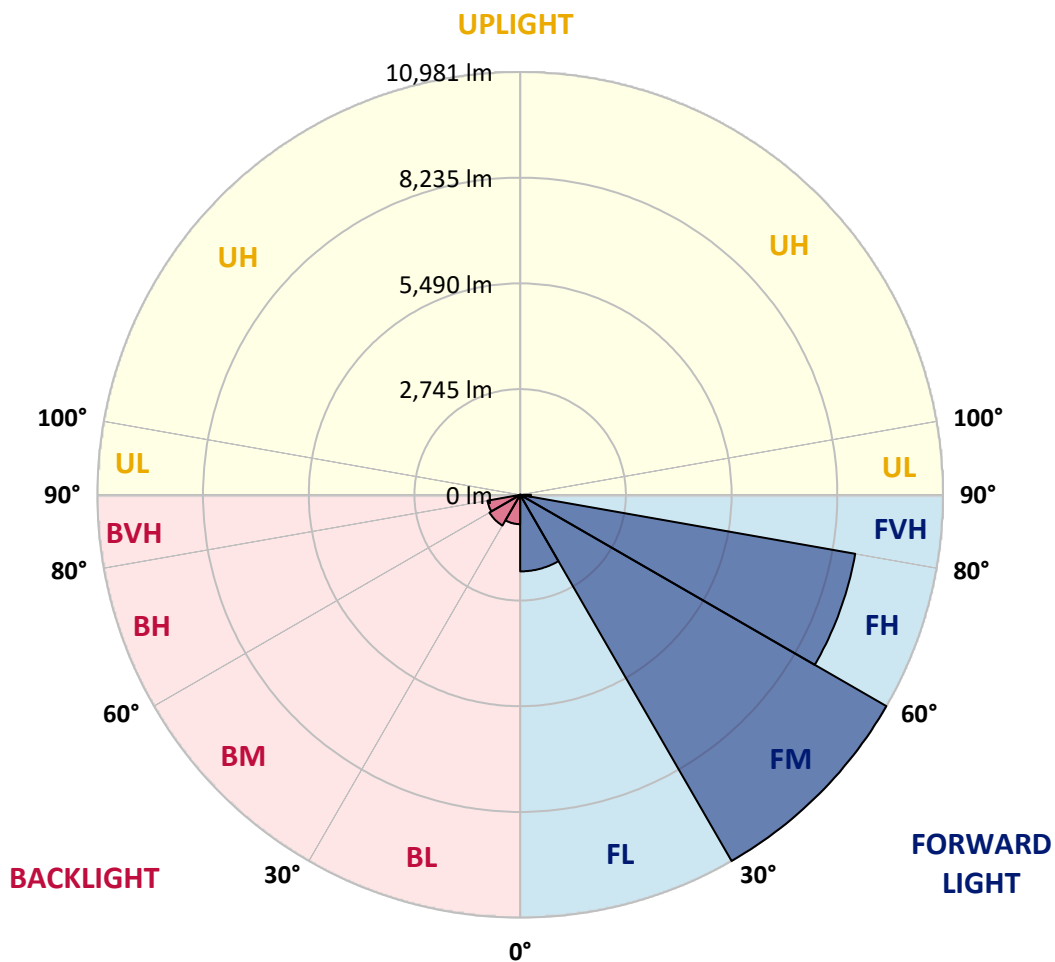
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1988.2 | 8.1 | | | |
| FM (30°-60°) | 10980.5 | 44.6 | | | |
| FH (60°-80°) | 8834.2 | 35.9 | | | G4/12000 |
| FVH (80°-90°) | 280.4 | 1.1 | | | G3/500 |
| BL (0°-30°) | 763.5 | 3.1 | B2/1000 | | |
| BM (30°-60°) | 919.5 | 3.7 | B1/1000 | | |
| BH (60°-80°) | 862.3 | 3.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 13.2 | 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° | 5434.5 | 5434.5 | 5434.5 | 5434.5 | 5434.5 | 5434.5 | 5434.5 | 5434.5 | 5434.5 | 5434.5 | 5434.5 |
| 2.5° | 5618.4 | 5629.9 | 5628.5 | 5637.1 | 5657.3 | 5658.7 | 5638.6 | 5599.8 | 5591.1 | 5540.8 | 5453.2 |
| 5° | 5181.5 | 5214.6 | 5234.7 | 5316.6 | 5408.6 | 5519.3 | 5602.6 | 5632.8 | 5628.5 | 5592.6 | 5460.3 |
| 7.5° | 4682.8 | 4715.8 | 4738.8 | 4835.1 | 4957.3 | 5147.0 | 5364.0 | 5542.3 | 5558.1 | 5596.9 | 5454.6 |
| 10° | 4350.7 | 4356.5 | 4388.1 | 4480.1 | 4608.0 | 4802.1 | 5060.8 | 5372.7 | 5420.1 | 5562.4 | 5440.2 |
| 12.5° | 4077.6 | 4082.0 | 4123.6 | 4222.8 | 4359.4 | 4554.8 | 4826.5 | 5187.3 | 5260.6 | 5519.3 | 5437.3 |
| 15° | 3883.6 | 3899.4 | 3936.8 | 4040.3 | 4185.4 | 4379.5 | 4658.3 | 5050.7 | 5138.4 | 5503.5 | 5463.2 |
| 17.5° | 3818.9 | 3836.2 | 3847.7 | 3922.4 | 4054.7 | 4244.4 | 4530.4 | 4961.6 | 5060.8 | 5512.1 | 5513.5 |
| 20° | 3886.5 | 3899.4 | 3873.6 | 3892.2 | 3974.2 | 4143.8 | 4422.6 | 4885.4 | 5003.3 | 5522.1 | 5578.2 |
| 22.5° | 4138.0 | 4143.8 | 4073.3 | 3991.4 | 3977.0 | 4070.5 | 4337.8 | 4825.1 | 4951.5 | 5549.5 | 5654.4 |
| 25° | 4569.2 | 4559.1 | 4444.2 | 4267.4 | 4100.6 | 4057.5 | 4287.5 | 4787.7 | 4925.7 | 5578.2 | 5733.4 |
| 27.5° | 5089.5 | 5103.9 | 4945.8 | 4688.5 | 4370.9 | 4143.8 | 4280.3 | 4771.9 | 4914.2 | 5598.3 | 5802.4 |
| 30° | 5721.9 | 5742.1 | 5561.0 | 5237.6 | 4781.9 | 4356.5 | 4346.4 | 4769.0 | 4907.0 | 5585.4 | 5808.2 |
| 32.5° | 6367.3 | 6391.7 | 6249.4 | 5916.0 | 5331.0 | 4712.9 | 4495.9 | 4800.6 | 4921.4 | 5540.8 | 5775.1 |
| 35° | 7042.8 | 7077.3 | 6982.5 | 6696.4 | 6075.5 | 5227.5 | 4758.9 | 4896.9 | 4988.9 | 5536.5 | 5742.1 |
| 37.5° | 7975.6 | 8007.3 | 7829.0 | 7525.8 | 6976.7 | 5917.4 | 5181.5 | 5078.0 | 5148.4 | 5605.5 | 5750.7 |
| 40° | 9368.4 | 9364.1 | 8904.1 | 8439.9 | 7967.0 | 6794.2 | 5775.1 | 5405.7 | 5441.7 | 5813.9 | 5857.0 |
| 42.5° | 10886.2 | 10879.0 | 10199.2 | 9493.4 | 9066.6 | 7873.6 | 6555.6 | 5972.0 | 5947.6 | 6197.7 | 6133.0 |
| 45° | 12056.2 | 12054.7 | 11499.9 | 10705.1 | 10390.3 | 9112.5 | 7564.6 | 6759.7 | 6722.3 | 6821.5 | 6641.8 |
| 47.5° | 12554.9 | 12563.5 | 12284.7 | 11725.6 | 11857.8 | 10788.5 | 8836.6 | 7900.9 | 7844.8 | 7804.6 | 7531.5 |
| 50° | 12166.8 | 12184.1 | 12207.1 | 12097.8 | 12934.4 | 13040.7 | 10542.7 | 9509.2 | 9481.9 | 9302.3 | 8875.4 |
| 52.5° | 10899.1 | 10986.8 | 11257.0 | 11603.4 | 13308.1 | 15202.4 | 13217.5 | 11507.1 | 11360.5 | 11169.3 | 10699.3 |
| 55° | 8763.3 | 8859.6 | 9372.7 | 10213.5 | 12751.8 | 16622.5 | 16966.0 | 14082.8 | 13838.4 | 13267.8 | 12589.4 |
| 57.5° | 5799.5 | 5949.0 | 6693.6 | 7762.9 | 11136.3 | 16851.0 | 20705.9 | 17657.4 | 16806.5 | 15244.1 | 14479.5 |
| 60° | 3195.1 | 3338.9 | 4146.6 | 5115.4 | 8043.2 | 15721.3 | 23221.2 | 22311.4 | 20807.9 | 17453.3 | 16774.9 |
| 62.5° | 1967.7 | 2045.3 | 2641.8 | 3543.0 | 4823.6 | 12408.3 | 23741.5 | 28159.8 | 26419.2 | 20297.7 | 19547.4 |
| 65° | 1566.7 | 1599.7 | 1891.5 | 2896.2 | 3458.2 | 7380.6 | 22061.3 | 32618.3 | 32037.7 | 23741.5 | 22029.7 |
| 67° | 1520.7 | 1533.6 | 1671.6 | 2486.5 | 3259.8 | 4524.7 | 18482.4 | 33344.2 | 33933.5 | 25825.6 | 22107.3 |
| 67.5° | 1530.7 | 1545.1 | 1675.9 | 2373.0 | 3254.1 | 4158.1 | 17249.2 | 33058.1 | 33802.7 | 25990.9 | 21763.8 |
| 70° | 1476.1 | 1520.7 | 1918.8 | 2371.6 | 3094.5 | 3455.3 | 10330.0 | 28642.7 | 29417.4 | 24149.7 | 18466.6 |
| 72.5° | 523.2 | 526.1 | 829.3 | 1918.8 | 3364.7 | 3492.7 | 5187.3 | 20997.7 | 21571.2 | 18473.8 | 13313.8 |
| 75° | 310.5 | 264.5 | 276.0 | 546.2 | 3215.3 | 3392.1 | 2992.5 | 13417.3 | 13631.5 | 10585.8 | 6742.4 |
| 77.5° | 214.2 | 186.9 | 192.6 | 241.5 | 1224.6 | 3344.6 | 2377.3 | 6996.8 | 6768.3 | 3712.6 | 1435.9 |
| 80° | 122.2 | 107.8 | 115.0 | 211.3 | 445.6 | 3120.4 | 2242.2 | 2837.3 | 2419.0 | 629.5 | 396.7 |
| 82.5° | 64.7 | 54.6 | 66.1 | 173.9 | 310.5 | 1944.7 | 2246.5 | 1371.2 | 1086.6 | 212.7 | 270.2 |
| 85° | 23.0 | 18.7 | 31.6 | 119.3 | 207.0 | 596.5 | 2082.7 | 1152.7 | 905.5 | 103.5 | 205.5 |
| 87.5° | 4.3 | 4.3 | 12.9 | 48.9 | 83.4 | 182.5 | 1231.8 | 684.2 | 458.5 | 61.8 | 140.9 |
| 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° | 5434.5 | 5434.5 | 5434.5 | 5434.5 | 5434.5 | 5434.5 | 5434.5 | 5434.5 | 5434.5 | 5434.5 | 5434.5 |
| 2.5° | 5417.2 | 5355.4 | 5272.1 | 5170.0 | 5049.3 | 4942.9 | 4863.9 | 4781.9 | 4764.7 | 4735.9 | 4731.6 |
| 5° | 5381.3 | 5274.9 | 5068.0 | 4830.8 | 4577.8 | 4349.3 | 4163.9 | 3998.6 | 3925.3 | 3862.1 | 3854.9 |
| 7.5° | 5328.1 | 5168.6 | 4816.4 | 4434.1 | 4038.8 | 3679.5 | 3374.8 | 3159.2 | 2960.9 | 2866.0 | 2851.6 |
| 10° | 5266.3 | 5037.8 | 4533.3 | 4002.9 | 3456.7 | 2949.4 | 2496.6 | 2117.2 | 1887.2 | 1750.6 | 1733.4 |
| 12.5° | 5208.8 | 4909.9 | 4244.4 | 3555.9 | 2830.1 | 2151.7 | 1569.5 | 1207.3 | 965.9 | 868.1 | 856.6 |
| 15° | 5181.5 | 4806.4 | 3974.2 | 3098.8 | 2174.7 | 1369.8 | 858.1 | 664.0 | 585.0 | 562.0 | 560.6 |
| 17.5° | 5178.6 | 4718.7 | 3709.7 | 2626.0 | 1523.5 | 796.3 | 559.1 | 510.2 | 494.4 | 488.7 | 488.7 |
| 20° | 5177.2 | 4635.3 | 3445.2 | 2135.8 | 967.3 | 530.4 | 465.7 | 454.2 | 442.7 | 435.5 | 435.5 |
| 22.5° | 5193.0 | 4560.6 | 3169.3 | 1635.7 | 609.4 | 429.8 | 409.6 | 398.1 | 383.8 | 373.7 | 372.3 |
| 25° | 5208.8 | 4503.1 | 2887.6 | 1164.2 | 441.3 | 373.7 | 353.6 | 337.8 | 317.6 | 304.7 | 303.3 |
| 27.5° | 5211.7 | 4431.2 | 2585.7 | 779.0 | 369.4 | 326.3 | 300.4 | 276.0 | 253.0 | 240.0 | 238.6 |
| 30° | 5168.6 | 4310.5 | 2250.8 | 526.1 | 326.3 | 283.2 | 248.7 | 222.8 | 201.2 | 191.2 | 191.2 |
| 32.5° | 5083.8 | 4161.0 | 1882.9 | 396.7 | 290.3 | 242.9 | 205.5 | 181.1 | 166.7 | 162.4 | 161.0 |
| 35° | 5007.6 | 4000.0 | 1504.9 | 336.3 | 260.2 | 205.5 | 168.2 | 152.4 | 143.7 | 142.3 | 140.9 |
| 37.5° | 4963.0 | 3870.7 | 1149.8 | 304.7 | 231.4 | 172.5 | 142.3 | 130.8 | 126.5 | 123.6 | 125.0 |
| 40° | 4997.5 | 3762.9 | 849.5 | 278.8 | 202.7 | 143.7 | 120.7 | 115.0 | 110.7 | 109.2 | 109.2 |
| 42.5° | 5148.4 | 3744.2 | 631.0 | 255.8 | 175.4 | 119.3 | 104.9 | 100.6 | 97.7 | 96.3 | 97.7 |
| 45° | 5545.1 | 3859.2 | 490.1 | 234.3 | 148.0 | 100.6 | 89.1 | 87.7 | 86.2 | 86.2 | 86.2 |
| 47.5° | 6141.6 | 4096.3 | 408.2 | 209.8 | 123.6 | 86.2 | 77.6 | 76.2 | 74.7 | 76.2 | 76.2 |
| 50° | 7152.1 | 4530.4 | 365.1 | 185.4 | 102.0 | 73.3 | 66.1 | 66.1 | 66.1 | 66.1 | 67.6 |
| 52.5° | 8688.5 | 5384.2 | 336.3 | 161.0 | 83.4 | 61.8 | 56.1 | 56.1 | 57.5 | 57.5 | 58.9 |
| 55° | 10400.4 | 6516.8 | 310.5 | 136.5 | 70.4 | 51.7 | 46.0 | 47.4 | 48.9 | 50.3 | 50.3 |
| 57.5° | 12257.4 | 7771.5 | 288.9 | 112.1 | 60.4 | 41.7 | 38.8 | 40.2 | 41.7 | 44.6 | 44.6 |
| 60° | 14498.2 | 9129.8 | 257.3 | 87.7 | 50.3 | 33.1 | 30.2 | 33.1 | 37.4 | 40.2 | 41.7 |
| 62.5° | 16958.8 | 10443.5 | 217.0 | 69.0 | 41.7 | 25.9 | 24.4 | 30.2 | 35.9 | 38.8 | 40.2 |
| 65° | 18640.5 | 10856.0 | 166.7 | 56.1 | 31.6 | 18.7 | 20.1 | 27.3 | 34.5 | 38.8 | 38.8 |
| 67° | 17959.2 | 9842.7 | 136.5 | 47.4 | 25.9 | 14.4 | 18.7 | 27.3 | 34.5 | 37.4 | 38.8 |
| 67.5° | 17486.3 | 9446.0 | 130.8 | 46.0 | 24.4 | 14.4 | 18.7 | 27.3 | 34.5 | 38.8 | 38.8 |
| 70° | 14227.9 | 7096.0 | 109.2 | 34.5 | 20.1 | 12.9 | 15.8 | 25.9 | 33.1 | 37.4 | 37.4 |
| 72.5° | 9885.8 | 4375.2 | 97.7 | 24.4 | 17.2 | 11.5 | 14.4 | 24.4 | 31.6 | 35.9 | 37.4 |
| 75° | 4700.0 | 1583.9 | 83.4 | 18.7 | 15.8 | 10.1 | 12.9 | 24.4 | 31.6 | 35.9 | 35.9 |
| 77.5° | 958.7 | 368.0 | 67.6 | 15.8 | 12.9 | 10.1 | 11.5 | 23.0 | 30.2 | 34.5 | 34.5 |
| 80° | 314.8 | 142.3 | 50.3 | 14.4 | 12.9 | 10.1 | 11.5 | 21.6 | 30.2 | 33.1 | 34.5 |
| 82.5° | 227.1 | 71.9 | 33.1 | 14.4 | 12.9 | 10.1 | 10.1 | 21.6 | 28.7 | 33.1 | 33.1 |
| 85° | 173.9 | 50.3 | 21.6 | 14.4 | 12.9 | 10.1 | 10.1 | 20.1 | 27.3 | 31.6 | 31.6 |
| 87.5° | 115.0 | 20.1 | 17.2 | 14.4 | 12.9 | 10.1 | 10.1 | 20.1 | 25.9 | 30.2 | 31.6 |
| 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)