

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: P268589

Luminaire Tested: **GAN-AF-06-LED-U-SL2-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268589
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-06-LED-U-SL2-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA 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: 20699.4 lumens
Efficiency: N/A
Efficacy: 83.1 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 - G3

Input Watts (W): 249
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

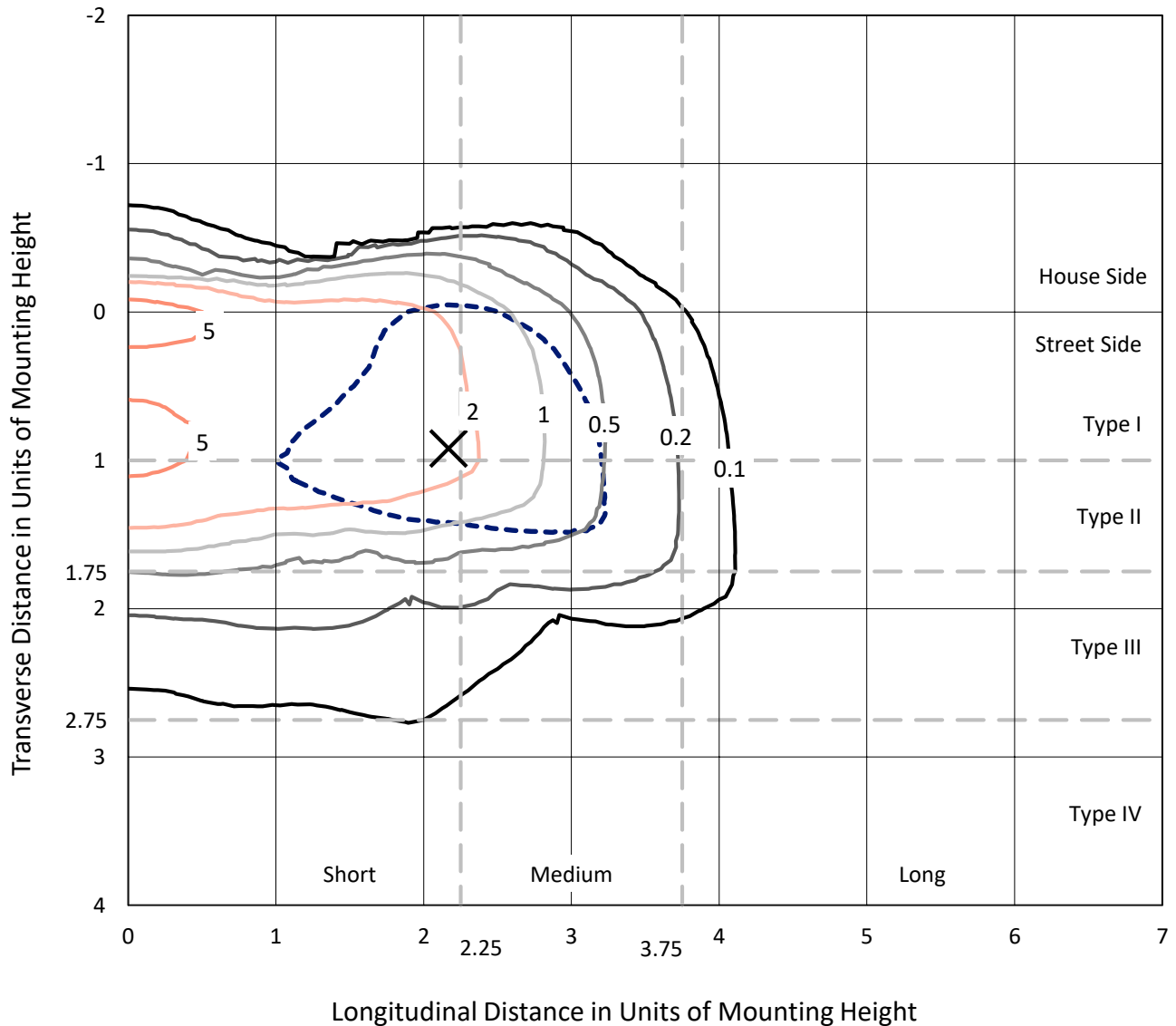


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

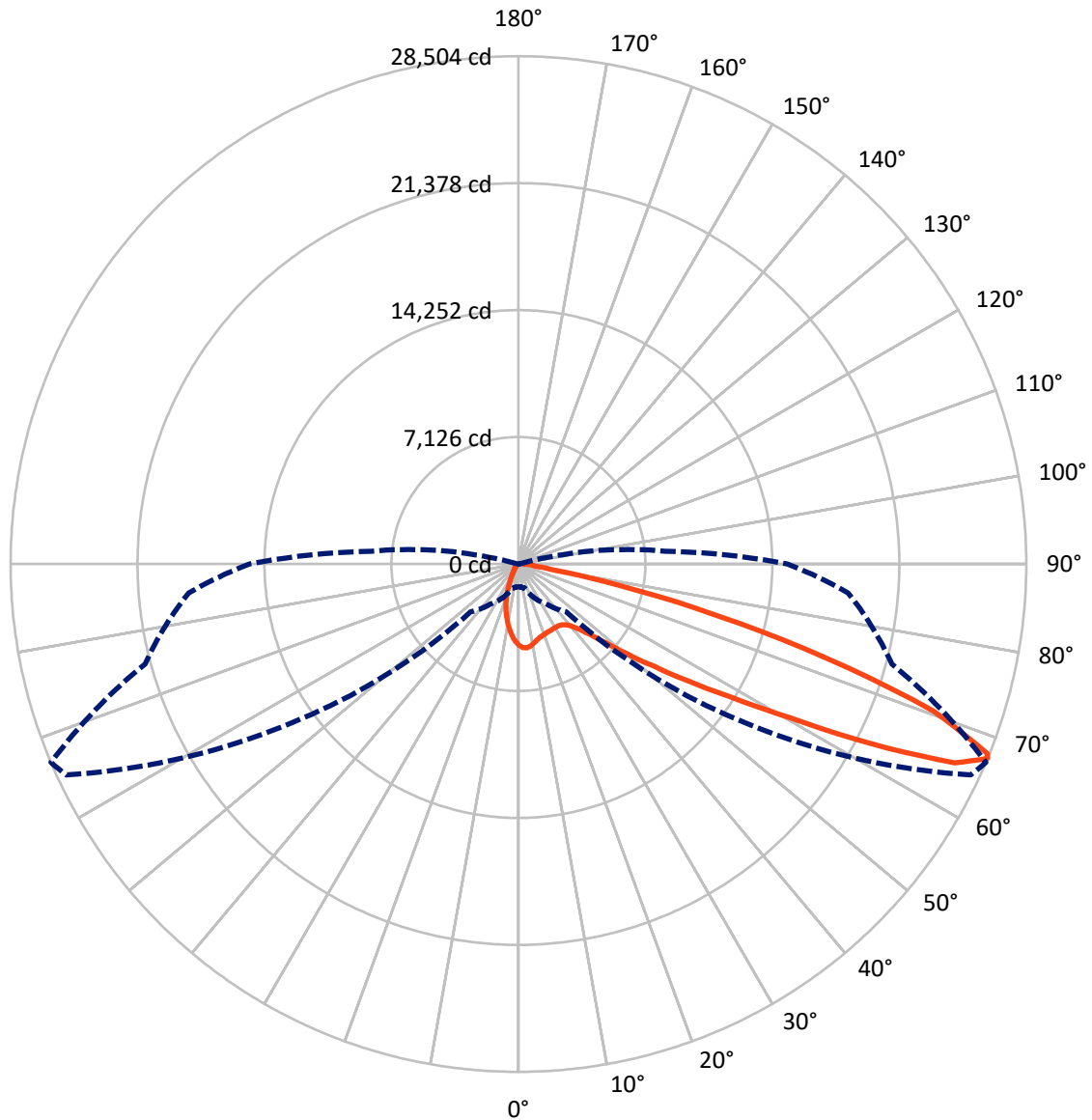


Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - Semi-Cutoff

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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 | 2149.2 | 0.0 | 2149.2 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 18550.2 | 0.0 | 18550.2 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 20699.4 | 0.0 | 20699.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 371.4 | 1.8 |
| 10°-20° | 790.6 | 3.8 |
| 20°-30° | 1149.4 | 5.6 |
| 30°-40° | 1793.2 | 8.7 |
| 40°-50° | 3176.5 | 15.3 |
| 50°-60° | 5026.5 | 24.3 |
| 60°-70° | 5757.1 | 27.8 |
| 70°-80° | 2388.0 | 11.5 |
| 80°-90° | 246.7 | 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° | 20699.4 | 100.0 |
| 0°-180° | 20699.4 | 100.0 |

Coefficient of Utilization



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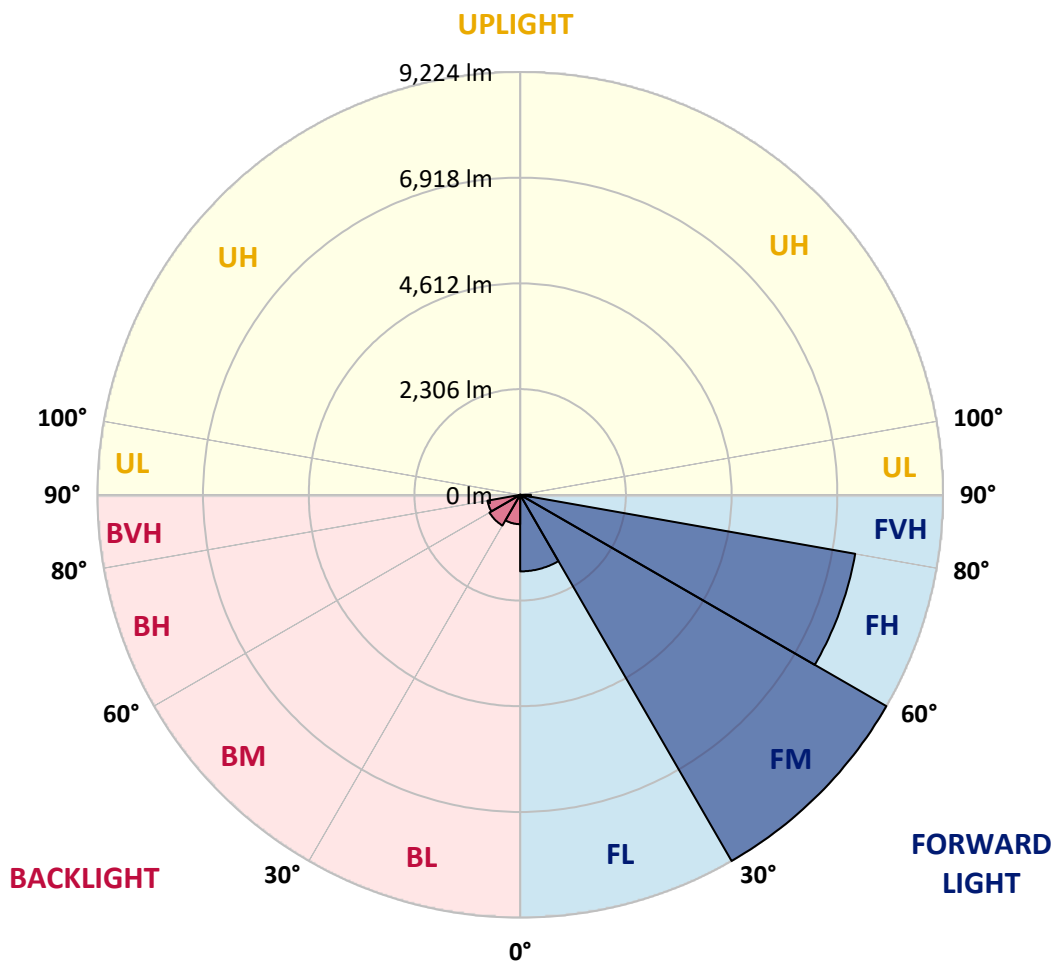
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1670.1 | 8.1 | | | |
| FM | (30°-60°) | 9223.7 | 44.6 | | | |
| FH | (60°-80°) | 7420.8 | 35.9 | | | G3/7500 |
| FVH | (80°-90°) | 235.6 | 1.1 | | | G3/500 |
| BL | (0°-30°) | 641.3 | 3.1 | B2/1000 | | |
| BM | (30°-60°) | 772.4 | 3.7 | B1/1000 | | |
| BH | (60°-80°) | 724.4 | 3.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 11.1 | 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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4564.9 | 4564.9 | 4564.9 | 4564.9 | 4564.9 | 4564.9 | 4564.9 | 4564.9 | 4564.9 | 4564.9 | 4564.9 |
| 2.5° | 4719.5 | 4729.1 | 4728.0 | 4735.2 | 4752.2 | 4753.3 | 4736.5 | 4703.9 | 4696.6 | 4654.4 | 4580.6 |
| 5° | 4352.5 | 4380.2 | 4397.2 | 4466.1 | 4543.3 | 4636.2 | 4706.2 | 4731.6 | 4728.0 | 4697.7 | 4586.7 |
| 7.5° | 3933.6 | 3961.3 | 3980.6 | 4061.5 | 4164.2 | 4323.5 | 4505.8 | 4655.6 | 4668.9 | 4701.4 | 4581.9 |
| 10° | 3654.7 | 3659.4 | 3686.0 | 3763.3 | 3870.7 | 4033.7 | 4251.0 | 4513.1 | 4552.9 | 4672.4 | 4569.8 |
| 12.5° | 3425.2 | 3428.9 | 3463.9 | 3547.1 | 3661.9 | 3826.2 | 4054.3 | 4357.3 | 4418.9 | 4636.2 | 4567.4 |
| 15° | 3262.3 | 3275.5 | 3306.9 | 3393.8 | 3515.7 | 3678.7 | 3913.0 | 4242.6 | 4316.3 | 4622.9 | 4589.1 |
| 17.5° | 3207.9 | 3222.4 | 3232.1 | 3294.9 | 3406.0 | 3565.4 | 3805.6 | 4167.7 | 4251.0 | 4630.3 | 4631.4 |
| 20° | 3264.7 | 3275.5 | 3253.8 | 3269.6 | 3338.3 | 3480.8 | 3715.0 | 4103.7 | 4202.8 | 4638.7 | 4685.6 |
| 22.5° | 3475.9 | 3480.8 | 3421.6 | 3352.8 | 3340.7 | 3419.2 | 3643.7 | 4053.1 | 4159.3 | 4661.6 | 4749.7 |
| 25° | 3838.2 | 3829.7 | 3733.1 | 3584.6 | 3444.6 | 3408.3 | 3601.6 | 4021.7 | 4137.7 | 4685.6 | 4816.2 |
| 27.5° | 4275.3 | 4287.3 | 4154.5 | 3938.3 | 3671.6 | 3480.8 | 3595.5 | 4008.3 | 4127.9 | 4702.6 | 4874.1 |
| 30° | 4806.4 | 4823.4 | 4671.2 | 4399.5 | 4016.9 | 3659.4 | 3651.0 | 4006.0 | 4122.0 | 4691.8 | 4879.0 |
| 32.5° | 5348.6 | 5369.1 | 5249.5 | 4969.5 | 4478.1 | 3958.9 | 3776.6 | 4032.5 | 4134.0 | 4654.4 | 4851.1 |
| 35° | 5916.0 | 5945.1 | 5865.4 | 5625.0 | 5103.5 | 4391.2 | 3997.5 | 4113.5 | 4190.8 | 4650.7 | 4823.4 |
| 37.5° | 6699.6 | 6726.1 | 6576.4 | 6321.7 | 5860.5 | 4970.6 | 4352.5 | 4265.6 | 4324.7 | 4708.6 | 4830.6 |
| 40° | 7869.5 | 7865.9 | 7479.6 | 7089.6 | 6692.4 | 5707.1 | 4851.1 | 4540.8 | 4571.0 | 4883.7 | 4919.9 |
| 42.5° | 9144.4 | 9138.5 | 8567.3 | 7974.6 | 7616.0 | 6614.0 | 5506.7 | 5016.6 | 4996.1 | 5206.0 | 5151.8 |
| 45° | 10127.2 | 10126.1 | 9660.1 | 8992.4 | 8727.9 | 7654.5 | 6354.3 | 5678.1 | 5646.7 | 5730.1 | 5579.2 |
| 47.5° | 10546.2 | 10553.5 | 10319.2 | 9849.6 | 9960.6 | 9062.5 | 7422.8 | 6636.8 | 6589.7 | 6555.9 | 6326.6 |
| 50° | 10220.2 | 10234.7 | 10254.1 | 10162.3 | 10864.9 | 10954.3 | 8855.9 | 7987.8 | 7964.9 | 7813.9 | 7455.5 |
| 52.5° | 9155.3 | 9228.9 | 9456.0 | 9746.9 | 11178.9 | 12770.1 | 11102.8 | 9666.0 | 9543.0 | 9382.3 | 8987.5 |
| 55° | 7361.3 | 7442.1 | 7873.1 | 8579.4 | 10711.6 | 13963.1 | 14251.6 | 11829.6 | 11624.3 | 11145.0 | 10575.1 |
| 57.5° | 4871.7 | 4997.2 | 5622.6 | 6520.8 | 9354.6 | 14155.0 | 17393.2 | 14832.4 | 14117.6 | 12805.2 | 12162.8 |
| 60° | 2684.0 | 2804.7 | 3483.2 | 4297.0 | 6756.3 | 13206.1 | 19505.9 | 18741.7 | 17478.9 | 14660.9 | 14091.1 |
| 62.5° | 1652.8 | 1718.1 | 2219.2 | 2976.2 | 4051.9 | 10423.0 | 19943.0 | 23654.3 | 22192.3 | 17050.2 | 16419.9 |
| 65° | 1315.9 | 1343.8 | 1588.9 | 2432.8 | 2904.8 | 6199.7 | 18531.7 | 27399.7 | 26911.9 | 19943.0 | 18505.1 |
| 67° | 1277.4 | 1288.2 | 1404.1 | 2088.6 | 2738.3 | 3800.8 | 15525.2 | 28009.3 | 28504.4 | 21693.7 | 18570.2 |
| 67.5° | 1285.8 | 1298.0 | 1407.7 | 1993.2 | 2733.5 | 3492.9 | 14489.4 | 27769.0 | 28394.4 | 21832.5 | 18281.6 |
| 70° | 1239.9 | 1277.4 | 1611.7 | 1992.1 | 2599.4 | 2902.5 | 8677.2 | 24060.1 | 24710.8 | 20286.0 | 15512.0 |
| 72.5° | 439.5 | 441.8 | 696.6 | 1611.7 | 2826.3 | 2933.9 | 4357.3 | 17638.2 | 18119.9 | 15518.1 | 11183.7 |
| 75° | 260.8 | 222.2 | 231.9 | 458.8 | 2700.8 | 2849.3 | 2513.6 | 11270.7 | 11450.5 | 8892.1 | 5663.6 |
| 77.5° | 179.9 | 156.9 | 161.8 | 202.8 | 1028.6 | 2809.4 | 1996.9 | 5877.4 | 5685.5 | 3118.6 | 1206.2 |
| 80° | 102.6 | 90.5 | 96.6 | 177.4 | 374.2 | 2621.2 | 1883.4 | 2383.4 | 2032.0 | 528.8 | 333.2 |
| 82.5° | 54.3 | 45.9 | 55.5 | 146.1 | 260.8 | 1633.6 | 1887.1 | 1151.7 | 912.8 | 178.8 | 227.0 |
| 85° | 19.4 | 15.7 | 26.6 | 100.3 | 173.8 | 501.1 | 1749.4 | 968.4 | 760.7 | 87.0 | 172.7 |
| 87.5° | 3.7 | 3.7 | 10.9 | 41.1 | 70.0 | 153.3 | 1034.7 | 574.6 | 385.2 | 51.9 | 118.3 |
| 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° | 4564.9 | 4564.9 | 4564.9 | 4564.9 | 4564.9 | 4564.9 | 4564.9 | 4564.9 | 4564.9 | 4564.9 | 4564.9 |
| 2.5° | 4550.5 | 4498.6 | 4428.6 | 4342.9 | 4241.3 | 4152.1 | 4085.8 | 4016.9 | 4002.4 | 3978.2 | 3974.6 |
| 5° | 4520.4 | 4431.0 | 4257.1 | 4058.0 | 3845.5 | 3653.4 | 3497.7 | 3358.9 | 3297.3 | 3244.1 | 3238.1 |
| 7.5° | 4475.6 | 4341.6 | 4045.8 | 3724.7 | 3392.7 | 3090.8 | 2834.8 | 2653.8 | 2487.1 | 2407.5 | 2395.4 |
| 10° | 4423.8 | 4231.7 | 3807.9 | 3362.4 | 2903.7 | 2477.4 | 2097.2 | 1778.5 | 1585.2 | 1470.5 | 1456.1 |
| 12.5° | 4375.5 | 4124.3 | 3565.4 | 2987.0 | 2377.3 | 1807.4 | 1318.4 | 1014.1 | 811.3 | 729.2 | 719.6 |
| 15° | 4352.5 | 4037.4 | 3338.3 | 2603.1 | 1826.8 | 1150.5 | 720.8 | 557.8 | 491.5 | 472.1 | 470.9 |
| 17.5° | 4350.1 | 3963.7 | 3116.2 | 2205.8 | 1279.7 | 668.9 | 469.6 | 428.6 | 415.3 | 410.4 | 410.4 |
| 20° | 4348.9 | 3893.8 | 2894.0 | 1794.2 | 812.5 | 445.5 | 391.2 | 381.5 | 371.9 | 365.8 | 365.8 |
| 22.5° | 4362.2 | 3830.9 | 2662.1 | 1374.0 | 511.9 | 360.9 | 344.1 | 334.3 | 322.3 | 313.9 | 312.7 |
| 25° | 4375.5 | 3782.7 | 2425.6 | 978.0 | 370.7 | 313.9 | 297.0 | 283.8 | 266.8 | 255.9 | 254.8 |
| 27.5° | 4377.9 | 3722.2 | 2172.0 | 654.3 | 310.3 | 274.1 | 252.3 | 231.9 | 212.4 | 201.6 | 200.4 |
| 30° | 4341.6 | 3620.9 | 1890.8 | 441.8 | 274.1 | 237.8 | 208.9 | 187.1 | 169.1 | 160.5 | 160.5 |
| 32.5° | 4270.5 | 3495.2 | 1581.6 | 333.2 | 243.9 | 204.1 | 172.7 | 152.2 | 140.0 | 136.5 | 135.3 |
| 35° | 4206.5 | 3360.1 | 1264.0 | 282.5 | 218.6 | 172.7 | 141.3 | 128.0 | 120.7 | 119.6 | 118.3 |
| 37.5° | 4168.9 | 3251.3 | 965.9 | 255.9 | 194.5 | 144.8 | 119.6 | 109.9 | 106.3 | 103.8 | 105.0 |
| 40° | 4198.0 | 3160.9 | 713.6 | 234.2 | 170.1 | 120.7 | 101.4 | 96.6 | 93.0 | 91.7 | 91.7 |
| 42.5° | 4324.7 | 3145.1 | 530.0 | 215.0 | 147.3 | 100.3 | 88.2 | 84.5 | 82.0 | 80.8 | 82.0 |
| 45° | 4657.9 | 3241.8 | 411.8 | 196.8 | 124.3 | 84.5 | 74.9 | 73.7 | 72.5 | 72.5 | 72.5 |
| 47.5° | 5159.0 | 3441.0 | 343.0 | 176.2 | 103.8 | 72.5 | 65.1 | 64.0 | 62.8 | 64.0 | 64.0 |
| 50° | 6007.8 | 3805.6 | 306.7 | 155.8 | 85.7 | 61.5 | 55.5 | 55.5 | 55.5 | 55.5 | 56.8 |
| 52.5° | 7298.4 | 4522.7 | 282.5 | 135.3 | 70.0 | 51.9 | 47.2 | 47.2 | 48.2 | 48.2 | 49.4 |
| 55° | 8736.3 | 5474.1 | 260.8 | 114.8 | 59.2 | 43.5 | 38.6 | 39.9 | 41.1 | 42.3 | 42.3 |
| 57.5° | 10296.4 | 6528.2 | 242.7 | 94.2 | 50.8 | 35.0 | 32.6 | 33.7 | 35.0 | 37.4 | 37.4 |
| 60° | 12178.5 | 7669.1 | 216.1 | 73.7 | 42.3 | 27.8 | 25.3 | 27.8 | 31.4 | 33.7 | 35.0 |
| 62.5° | 14245.5 | 8772.6 | 182.3 | 57.9 | 35.0 | 21.6 | 20.5 | 25.3 | 30.3 | 32.6 | 33.7 |
| 65° | 15658.1 | 9119.1 | 140.0 | 47.2 | 26.6 | 15.7 | 16.9 | 22.9 | 28.9 | 32.6 | 32.6 |
| 67° | 15085.9 | 8267.9 | 114.8 | 39.9 | 21.6 | 12.0 | 15.7 | 22.9 | 28.9 | 31.4 | 32.6 |
| 67.5° | 14688.6 | 7934.6 | 109.9 | 38.6 | 20.5 | 12.0 | 15.7 | 22.9 | 28.9 | 32.6 | 32.6 |
| 70° | 11951.6 | 5960.8 | 91.7 | 28.9 | 16.9 | 10.9 | 13.2 | 21.6 | 27.8 | 31.4 | 31.4 |
| 72.5° | 8304.1 | 3675.1 | 82.0 | 20.5 | 14.6 | 9.6 | 12.0 | 20.5 | 26.6 | 30.3 | 31.4 |
| 75° | 3948.1 | 1330.5 | 70.0 | 15.7 | 13.2 | 8.4 | 10.9 | 20.5 | 26.6 | 30.3 | 30.3 |
| 77.5° | 805.3 | 309.0 | 56.8 | 13.2 | 10.9 | 8.4 | 9.6 | 19.4 | 25.3 | 28.9 | 28.9 |
| 80° | 264.5 | 119.6 | 42.3 | 12.0 | 10.9 | 8.4 | 9.6 | 18.1 | 25.3 | 27.8 | 28.9 |
| 82.5° | 190.8 | 60.4 | 27.8 | 12.0 | 10.9 | 8.4 | 8.4 | 18.1 | 24.2 | 27.8 | 27.8 |
| 85° | 146.1 | 42.3 | 18.1 | 12.0 | 10.9 | 8.4 | 8.4 | 16.9 | 22.9 | 26.6 | 26.6 |
| 87.5° | 96.6 | 16.9 | 14.6 | 12.0 | 10.9 | 8.4 | 8.4 | 16.9 | 21.6 | 25.3 | 26.6 |
| 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)