

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: P191893

Luminaire Tested: **GAN-AF-05-LED-U-SL2-7050-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191893
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
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-SL2-7050-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29144 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

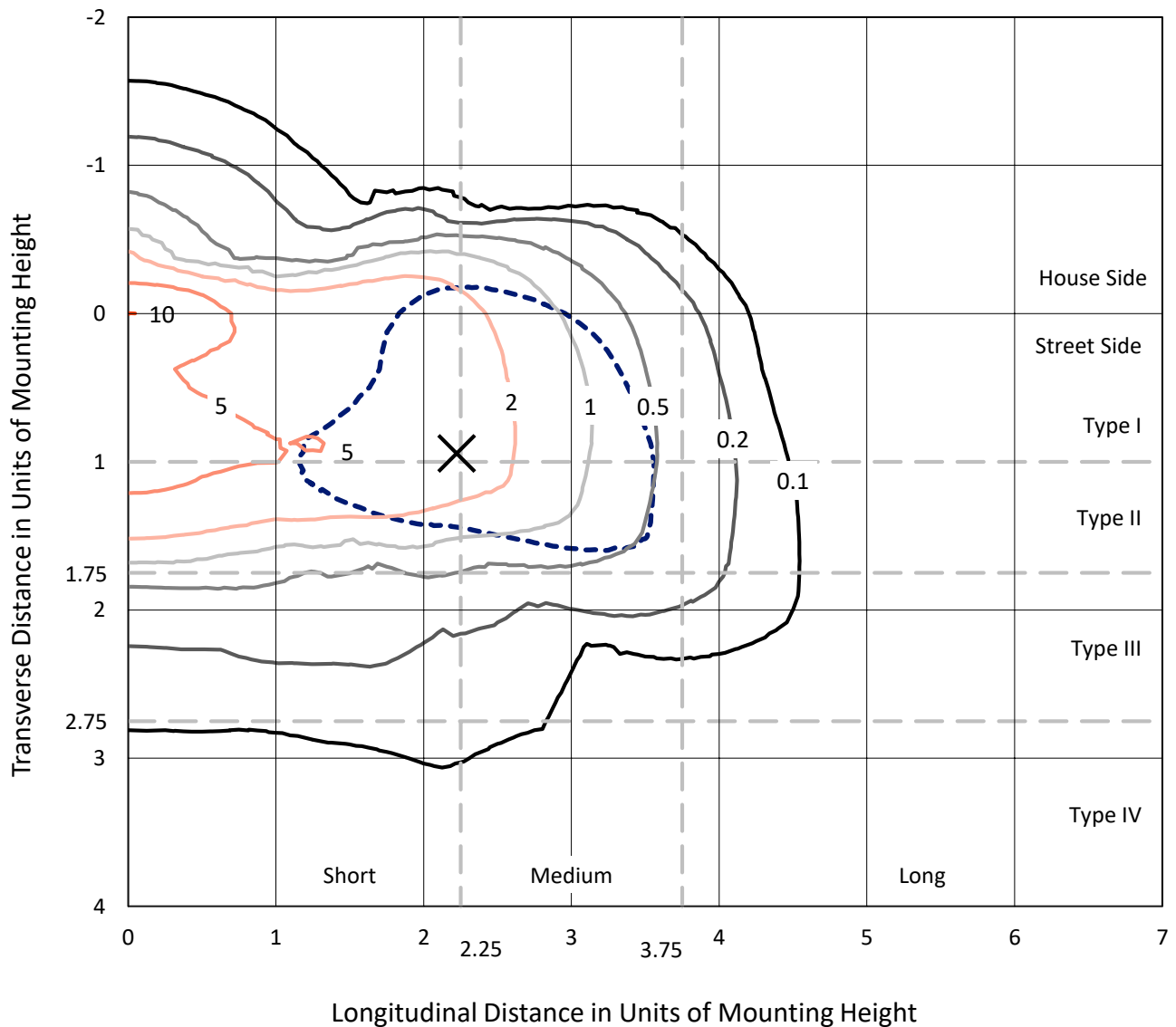
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

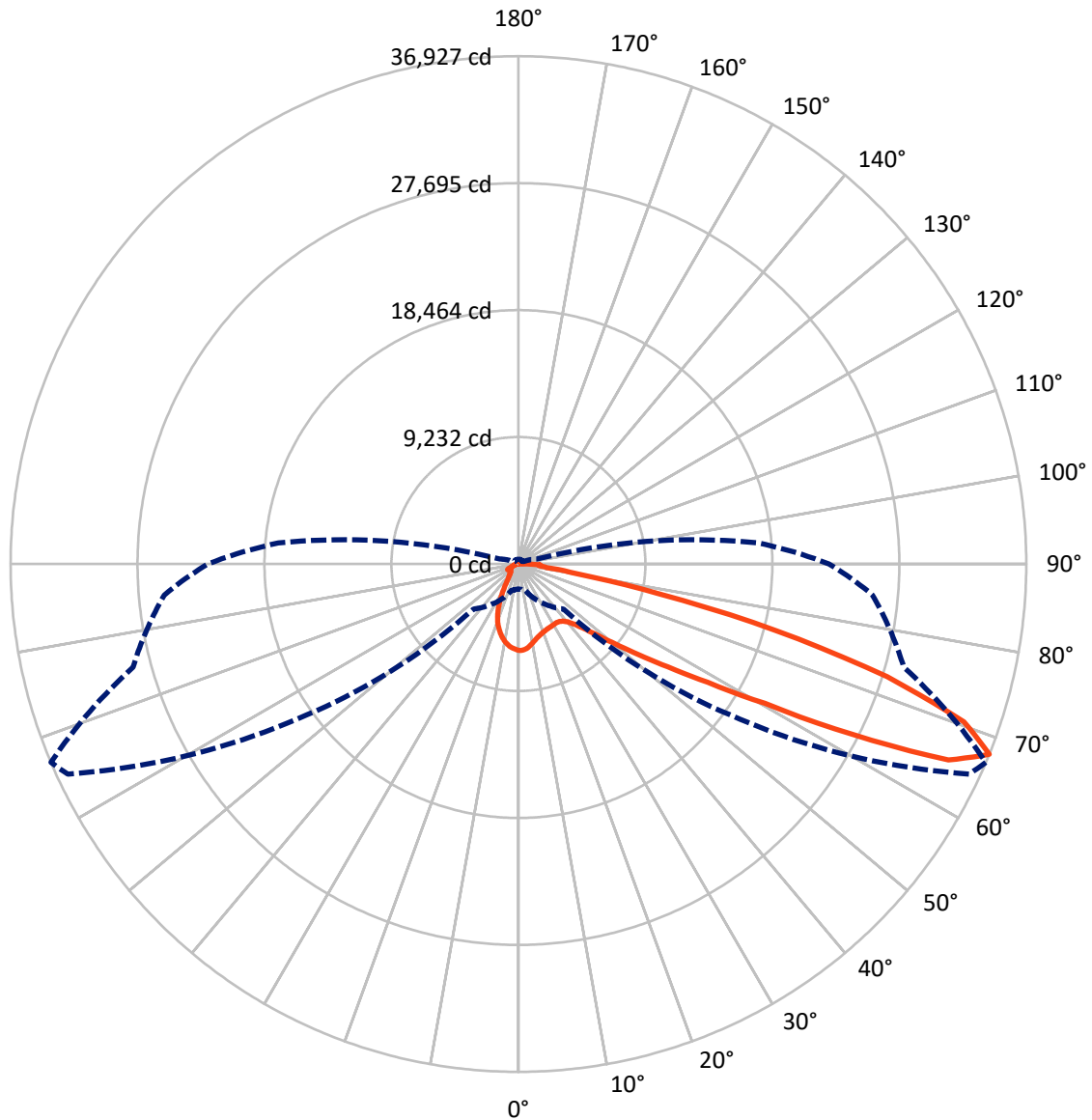
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4828.8 | 0.0 | 4828.8 |
| | % Fixture | 16.6 | 0.0 | 16.6 |
| Street Side | Lumens | 24315.2 | 0.0 | 24315.2 |
| | % Fixture | 83.4 | 0.0 | 83.4 |
| Total | Lumens | 29144.0 | 0.0 | 29144.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 536.3 | 1.8 |
| 10°-20° | 1240.9 | 4.3 |
| 20°-30° | 1682.1 | 5.8 |
| 30°-40° | 2391.3 | 8.2 |
| 40°-50° | 4000.8 | 13.7 |
| 50°-60° | 6329.2 | 21.7 |
| 60°-70° | 8062.7 | 27.7 |
| 70°-80° | 4223.3 | 14.5 |
| 80°-90° | 677.3 | 2.3 |
| 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° | 29144.0 | 100.0 |
| 0°-180° | 29144.0 | 100.0 |

Coefficient of Utilization



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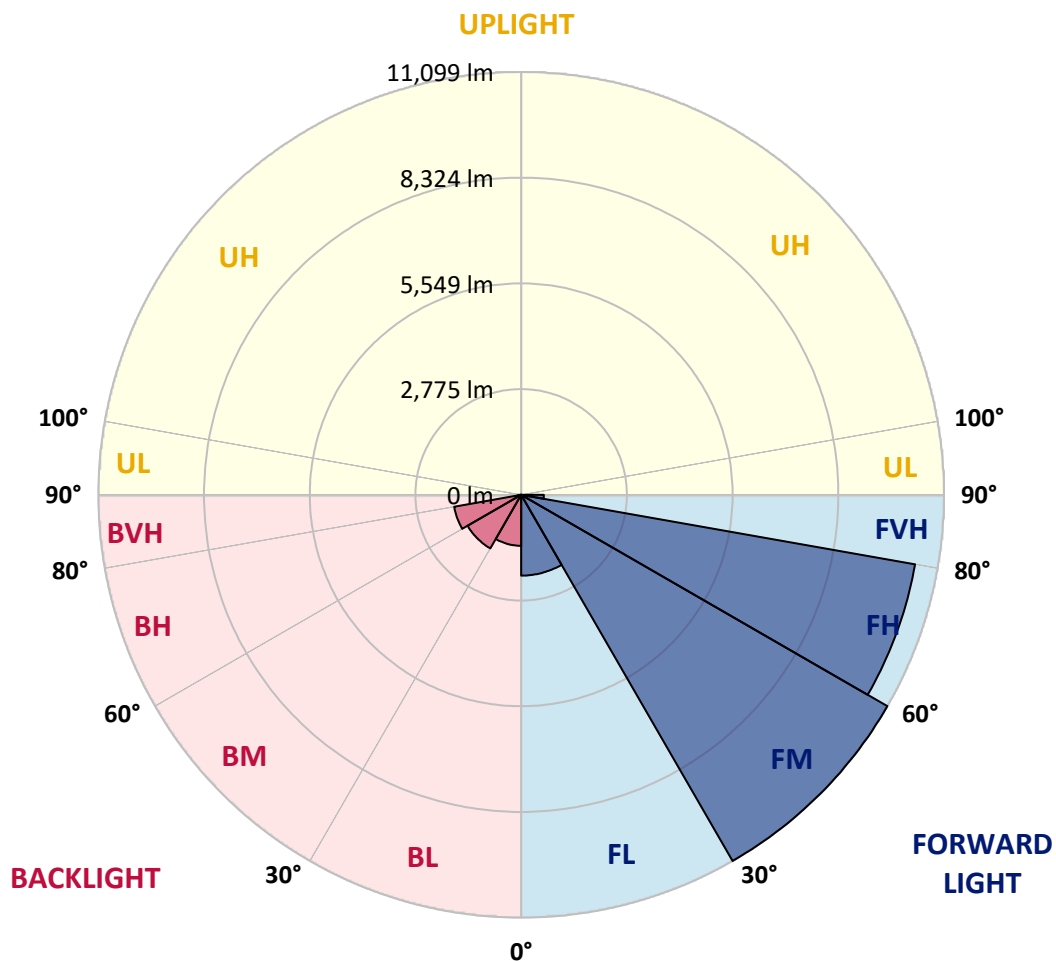
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2121.0 | 7.3 | | | |
| FM (30°-60°) | 11098.6 | 38.1 | | | |
| FH (60°-80°) | 10500.0 | 36.0 | | | G4/12000 |
| FVH (80°-90°) | 595.6 | 2.0 | | | G4/750 |
| BL (0°-30°) | 1338.4 | 4.6 | B3/2500 | | |
| BM (30°-60°) | 1622.6 | 5.6 | B2/2500 | | |
| BH (60°-80°) | 1786.0 | 6.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 81.8 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6286.3 | 6286.3 | 6286.3 | 6286.3 | 6286.3 | 6286.3 | 6286.3 | 6286.3 | 6286.3 | 6286.3 | 6286.3 |
| 2.5° | 6027.6 | 6037.7 | 6069.3 | 6089.4 | 6179.9 | 6218.7 | 6246.0 | 6273.4 | 6277.7 | 6290.6 | 6277.7 |
| 5° | 5395.2 | 5416.8 | 5475.7 | 5541.8 | 5717.2 | 5855.1 | 6000.3 | 6151.2 | 6178.5 | 6276.2 | 6303.5 |
| 7.5° | 4905.1 | 4899.4 | 4948.3 | 5027.3 | 5207.0 | 5398.1 | 5652.5 | 5952.9 | 6011.8 | 6231.7 | 6338.0 |
| 10° | 4547.3 | 4543.0 | 4594.7 | 4676.6 | 4847.7 | 5028.7 | 5316.2 | 5727.2 | 5810.6 | 6161.3 | 6371.1 |
| 12.5° | 4282.8 | 4284.3 | 4336.0 | 4426.6 | 4600.5 | 4783.0 | 5074.7 | 5508.8 | 5615.1 | 6079.3 | 6405.6 |
| 15° | 4107.5 | 4119.0 | 4160.7 | 4257.0 | 4426.6 | 4609.1 | 4895.1 | 5344.9 | 5464.2 | 6014.7 | 6444.4 |
| 17.5° | 4048.6 | 4067.3 | 4081.6 | 4152.1 | 4297.2 | 4479.7 | 4760.0 | 5224.2 | 5350.7 | 5970.1 | 6478.9 |
| 20° | 4103.2 | 4124.7 | 4097.4 | 4121.9 | 4213.9 | 4374.8 | 4653.6 | 5129.3 | 5258.7 | 5919.8 | 6483.2 |
| 22.5° | 4337.5 | 4357.6 | 4277.1 | 4206.7 | 4200.9 | 4298.6 | 4566.0 | 5054.6 | 5188.3 | 5882.4 | 6484.6 |
| 25° | 4749.9 | 4762.9 | 4627.8 | 4463.9 | 4304.4 | 4271.3 | 4504.2 | 5002.9 | 5145.2 | 5849.4 | 6457.3 |
| 27.5° | 5255.8 | 5265.9 | 5110.7 | 4869.2 | 4548.7 | 4336.0 | 4482.6 | 4972.7 | 5120.7 | 5820.6 | 6411.3 |
| 30° | 5870.9 | 5918.4 | 5710.0 | 5405.3 | 4938.2 | 4527.2 | 4525.7 | 4956.9 | 5093.4 | 5771.8 | 6320.8 |
| 32.5° | 6500.4 | 6520.6 | 6376.8 | 6067.8 | 5462.8 | 4863.5 | 4646.5 | 4968.4 | 5086.2 | 5712.8 | 6205.8 |
| 35° | 7138.5 | 7164.4 | 7071.0 | 6822.4 | 6179.9 | 5356.4 | 4882.2 | 5035.9 | 5130.8 | 5692.7 | 6125.3 |
| 37.5° | 7964.9 | 7999.4 | 7870.1 | 7582.6 | 7052.3 | 6024.7 | 5274.5 | 5205.5 | 5267.3 | 5750.2 | 6100.9 |
| 40° | 9271.3 | 9255.5 | 8877.6 | 8449.3 | 8006.6 | 6879.9 | 5835.0 | 5493.0 | 5528.9 | 5935.6 | 6175.6 |
| 42.5° | 10791.9 | 10753.1 | 10102.0 | 9429.4 | 9055.8 | 7914.6 | 6576.6 | 5991.7 | 5984.5 | 6300.7 | 6438.6 |
| 45° | 12004.9 | 11973.3 | 11386.9 | 10557.6 | 10258.7 | 9093.1 | 7535.2 | 6734.7 | 6681.5 | 6879.9 | 6924.4 |
| 47.5° | 12661.7 | 12663.1 | 12325.4 | 11648.5 | 11641.3 | 10590.7 | 8766.9 | 7809.7 | 7717.7 | 7811.2 | 7763.7 |
| 50° | 12431.7 | 12461.9 | 12426.0 | 12210.4 | 12903.1 | 12553.9 | 10375.1 | 9308.7 | 9123.3 | 9215.3 | 9032.8 |
| 52.5° | 11319.3 | 11358.1 | 11570.9 | 11901.4 | 13433.5 | 14926.7 | 12737.9 | 11171.3 | 10955.7 | 10922.7 | 10720.0 |
| 55° | 9347.5 | 9394.9 | 9829.0 | 10727.2 | 12992.2 | 16520.6 | 16465.9 | 13545.6 | 13202.1 | 12890.2 | 12804.0 |
| 57.5° | 6442.9 | 6522.0 | 7220.5 | 8554.2 | 11565.1 | 17002.0 | 20905.4 | 16930.2 | 16231.7 | 15142.3 | 15162.4 |
| 60° | 3631.8 | 3723.8 | 4547.3 | 5758.8 | 8685.0 | 16478.9 | 24282.8 | 22056.6 | 20582.1 | 17779.5 | 17929.0 |
| 62.5° | 2309.6 | 2408.7 | 3033.9 | 4001.1 | 5211.3 | 13662.0 | 25666.9 | 29183.7 | 27311.0 | 21030.5 | 21177.1 |
| 65° | 1869.8 | 1912.9 | 2207.5 | 3302.7 | 3784.1 | 8230.8 | 24616.3 | 35054.6 | 34356.1 | 25156.7 | 24472.6 |
| 67.5° | 1825.2 | 1839.6 | 1992.0 | 2772.3 | 3628.9 | 4626.3 | 19635.0 | 36152.6 | 36927.3 | 29009.8 | 25845.1 |
| 70° | 1803.7 | 1854.0 | 2244.9 | 2645.9 | 3475.1 | 3902.0 | 11799.4 | 33143.1 | 34366.2 | 30017.2 | 24018.4 |
| 72.5° | 875.3 | 872.4 | 1129.6 | 2392.9 | 3914.9 | 4047.1 | 6062.1 | 26816.6 | 28044.0 | 26006.0 | 19737.0 |
| 75° | 705.7 | 645.3 | 616.6 | 876.7 | 3764.0 | 4179.4 | 3863.2 | 18452.1 | 19340.3 | 17436.0 | 12132.8 |
| 77.5° | 669.7 | 597.9 | 547.6 | 549.0 | 1591.0 | 4432.3 | 3272.5 | 10212.7 | 10471.4 | 7875.8 | 3324.2 |
| 80° | 554.8 | 488.6 | 452.7 | 510.2 | 770.3 | 4221.0 | 3538.4 | 4622.0 | 4241.2 | 1934.5 | 1106.6 |
| 82.5° | 385.2 | 350.7 | 340.6 | 428.3 | 616.6 | 3008.0 | 4114.7 | 2483.5 | 2082.5 | 968.7 | 682.7 |
| 85° | 245.8 | 209.8 | 232.8 | 311.9 | 480.0 | 1388.3 | 4238.3 | 1935.9 | 1539.2 | 615.1 | 385.2 |
| 87.5° | 113.5 | 92.0 | 115.0 | 172.5 | 313.3 | 478.6 | 4032.8 | 2174.5 | 1585.2 | 324.8 | 242.9 |
| 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° | 6286.3 | 6286.3 | 6286.3 | 6286.3 | 6286.3 | 6286.3 | 6286.3 | 6286.3 | 6286.3 | 6286.3 | 6286.3 |
| 2.5° | 6289.2 | 6261.9 | 6240.3 | 6200.1 | 6155.5 | 6112.4 | 6073.6 | 6024.7 | 6010.3 | 5997.4 | 6017.5 |
| 5° | 6309.3 | 6282.0 | 6202.9 | 6079.3 | 5942.8 | 5814.9 | 5687.0 | 5577.8 | 5510.2 | 5472.8 | 5494.4 |
| 7.5° | 6339.5 | 6300.7 | 6136.8 | 5909.7 | 5664.0 | 5439.8 | 5208.4 | 5023.0 | 4886.5 | 4821.8 | 4840.5 |
| 10° | 6366.8 | 6292.0 | 6024.7 | 5684.1 | 5324.8 | 4991.4 | 4626.3 | 4324.5 | 4100.3 | 3982.5 | 4011.2 |
| 12.5° | 6378.3 | 6259.0 | 5868.1 | 5402.4 | 4909.5 | 4420.8 | 3883.3 | 3432.0 | 3110.1 | 2992.2 | 2967.8 |
| 15° | 6389.8 | 6221.6 | 5695.6 | 5081.9 | 4407.9 | 3716.6 | 2963.5 | 2423.1 | 2155.8 | 2096.9 | 2083.9 |
| 17.5° | 6392.6 | 6156.9 | 5500.1 | 4734.1 | 3820.1 | 2878.7 | 2026.4 | 1683.0 | 1684.4 | 1779.2 | 1790.7 |
| 20° | 6362.5 | 6060.6 | 5263.0 | 4301.5 | 3115.8 | 1990.5 | 1391.2 | 1332.3 | 1549.3 | 1786.4 | 1815.2 |
| 22.5° | 6293.5 | 5932.7 | 4994.3 | 3797.1 | 2309.6 | 1310.7 | 1076.5 | 1141.1 | 1421.4 | 1711.7 | 1744.8 |
| 25° | 6205.8 | 5777.5 | 4676.6 | 3212.1 | 1529.2 | 937.1 | 902.6 | 981.6 | 1171.3 | 1365.3 | 1384.0 |
| 27.5° | 6086.5 | 5593.6 | 4320.2 | 2542.4 | 993.1 | 771.8 | 794.8 | 847.9 | 925.6 | 1011.8 | 1020.4 |
| 30° | 5932.7 | 5373.7 | 3939.4 | 1854.0 | 750.2 | 694.2 | 727.2 | 756.0 | 789.0 | 837.9 | 842.2 |
| 32.5° | 5756.0 | 5162.4 | 3548.4 | 1280.5 | 665.4 | 653.9 | 679.8 | 694.2 | 720.0 | 750.2 | 753.1 |
| 35° | 5607.9 | 4961.2 | 3143.1 | 905.4 | 629.5 | 623.7 | 641.0 | 646.7 | 671.2 | 704.2 | 707.1 |
| 37.5° | 5523.1 | 4797.4 | 2724.9 | 730.1 | 605.1 | 596.4 | 606.5 | 606.5 | 641.0 | 689.9 | 697.0 |
| 40° | 5528.9 | 4706.8 | 2306.7 | 659.7 | 584.9 | 573.4 | 574.9 | 574.9 | 619.4 | 672.6 | 676.9 |
| 42.5° | 5685.5 | 4729.8 | 1935.9 | 632.4 | 569.1 | 556.2 | 549.0 | 553.3 | 590.7 | 625.2 | 628.1 |
| 45° | 6053.5 | 4892.2 | 1588.1 | 615.1 | 553.3 | 549.0 | 533.2 | 531.8 | 546.1 | 561.9 | 561.9 |
| 47.5° | 6657.1 | 5212.7 | 1352.4 | 603.6 | 540.4 | 538.9 | 520.3 | 501.6 | 500.1 | 505.9 | 505.9 |
| 50° | 7638.7 | 5764.6 | 1194.3 | 590.7 | 531.8 | 520.3 | 498.7 | 470.0 | 459.9 | 464.2 | 464.2 |
| 52.5° | 9110.4 | 6749.1 | 1133.9 | 573.4 | 513.1 | 494.4 | 470.0 | 441.2 | 432.6 | 434.0 | 434.0 |
| 55° | 11040.5 | 8261.0 | 1125.3 | 553.3 | 493.0 | 462.8 | 442.7 | 421.1 | 411.0 | 413.9 | 413.9 |
| 57.5° | 13399.0 | 10352.1 | 1279.1 | 521.7 | 465.7 | 431.2 | 419.7 | 405.3 | 398.1 | 402.4 | 401.0 |
| 60° | 16266.2 | 13088.5 | 1897.1 | 488.6 | 438.3 | 402.4 | 402.4 | 390.9 | 385.2 | 389.5 | 388.0 |
| 62.5° | 19568.8 | 16231.7 | 2667.4 | 464.2 | 409.6 | 379.4 | 385.2 | 379.4 | 373.7 | 376.5 | 375.1 |
| 65° | 22497.8 | 18279.7 | 2497.8 | 445.5 | 380.9 | 357.9 | 367.9 | 365.0 | 360.7 | 363.6 | 362.2 |
| 67.5° | 22582.6 | 17520.8 | 1402.7 | 425.4 | 353.5 | 336.3 | 350.7 | 349.2 | 346.4 | 349.2 | 347.8 |
| 70° | 20153.8 | 14794.5 | 790.5 | 388.0 | 324.8 | 310.4 | 330.6 | 329.1 | 326.2 | 332.0 | 330.6 |
| 72.5° | 16146.9 | 10735.8 | 577.8 | 342.1 | 296.1 | 283.1 | 306.1 | 304.7 | 304.7 | 313.3 | 309.0 |
| 75° | 9291.5 | 5524.6 | 461.3 | 293.2 | 265.9 | 255.8 | 275.9 | 277.4 | 280.3 | 291.8 | 283.1 |
| 77.5° | 2648.7 | 1721.8 | 376.5 | 248.6 | 228.5 | 224.2 | 244.3 | 247.2 | 248.6 | 261.6 | 250.1 |
| 80° | 984.5 | 793.3 | 310.4 | 208.4 | 186.8 | 188.3 | 207.0 | 211.3 | 212.7 | 225.6 | 211.3 |
| 82.5° | 628.1 | 523.1 | 251.5 | 161.0 | 146.6 | 145.2 | 168.2 | 173.9 | 173.9 | 175.3 | 166.7 |
| 85° | 366.5 | 313.3 | 189.7 | 116.4 | 103.5 | 99.2 | 125.0 | 135.1 | 130.8 | 127.9 | 122.2 |
| 87.5° | 245.8 | 215.6 | 116.4 | 64.7 | 56.1 | 53.2 | 73.3 | 80.5 | 77.6 | 73.3 | 69.0 |
| 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)