

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: P191894

Luminaire Tested: **GAN-AF-06-LED-U-SL2-7050-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191894
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-06-LED-U-SL2-7050-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 34877 lumens
Efficiency: N/A
Efficacy: 104.7 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 - G5

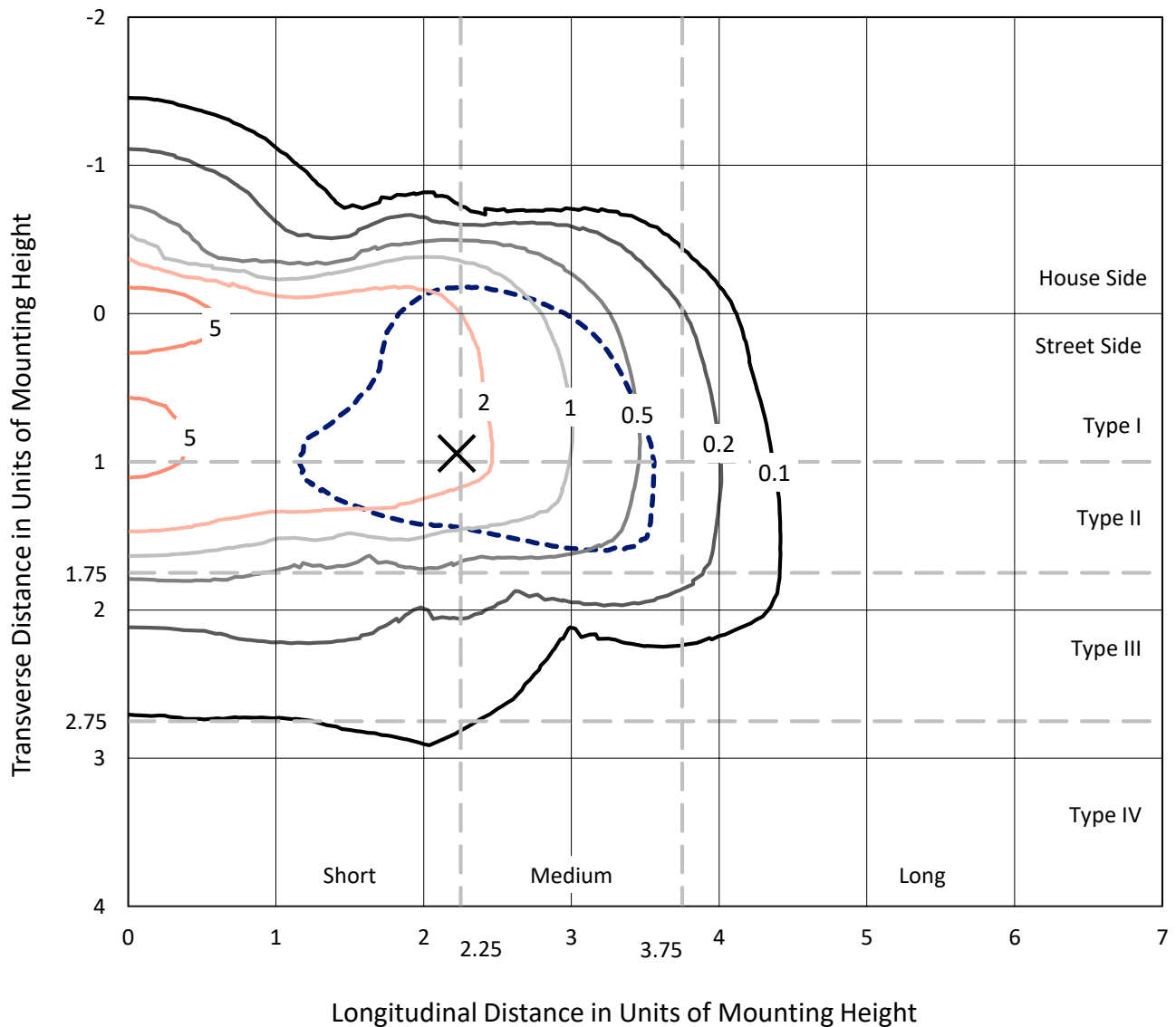
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

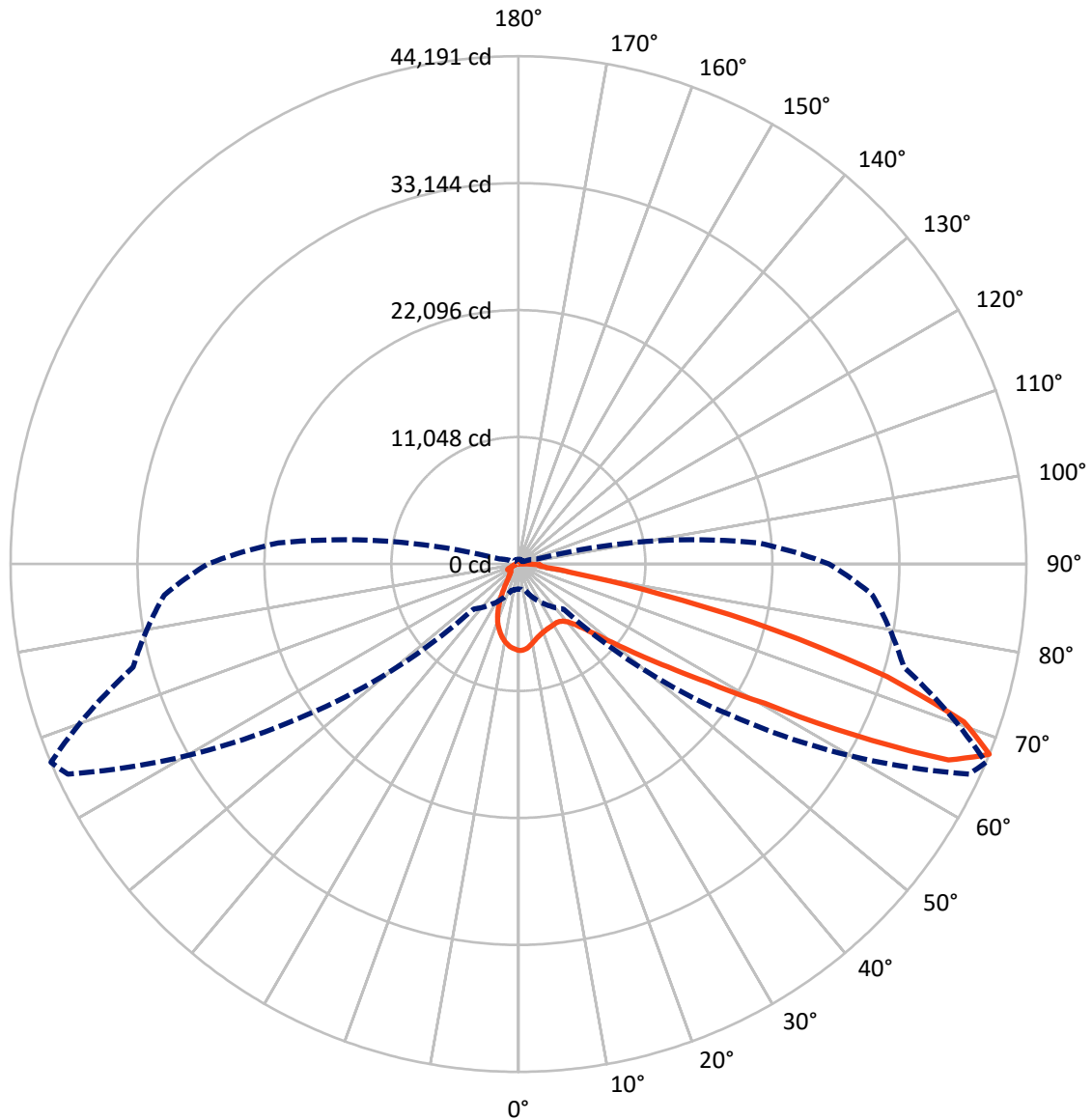
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 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 | 5778.7 | 0.0 | 5778.7 |
| | % Fixture | 16.6 | 0.0 | 16.6 |
| Street Side | Lumens | 29098.3 | 0.0 | 29098.3 |
| | % Fixture | 83.4 | 0.0 | 83.4 |
| Total | Lumens | 34877.0 | 0.0 | 34877.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 641.8 | 1.8 |
| 10°-20° | 1485.1 | 4.3 |
| 20°-30° | 2013.0 | 5.8 |
| 30°-40° | 2861.7 | 8.2 |
| 40°-50° | 4787.8 | 13.7 |
| 50°-60° | 7574.2 | 21.7 |
| 60°-70° | 9648.8 | 27.7 |
| 70°-80° | 5054.0 | 14.5 |
| 80°-90° | 810.6 | 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° | 34877.0 | 100.0 |
| 0°-180° | 34877.0 | 100.0 |

Coefficient of Utilization



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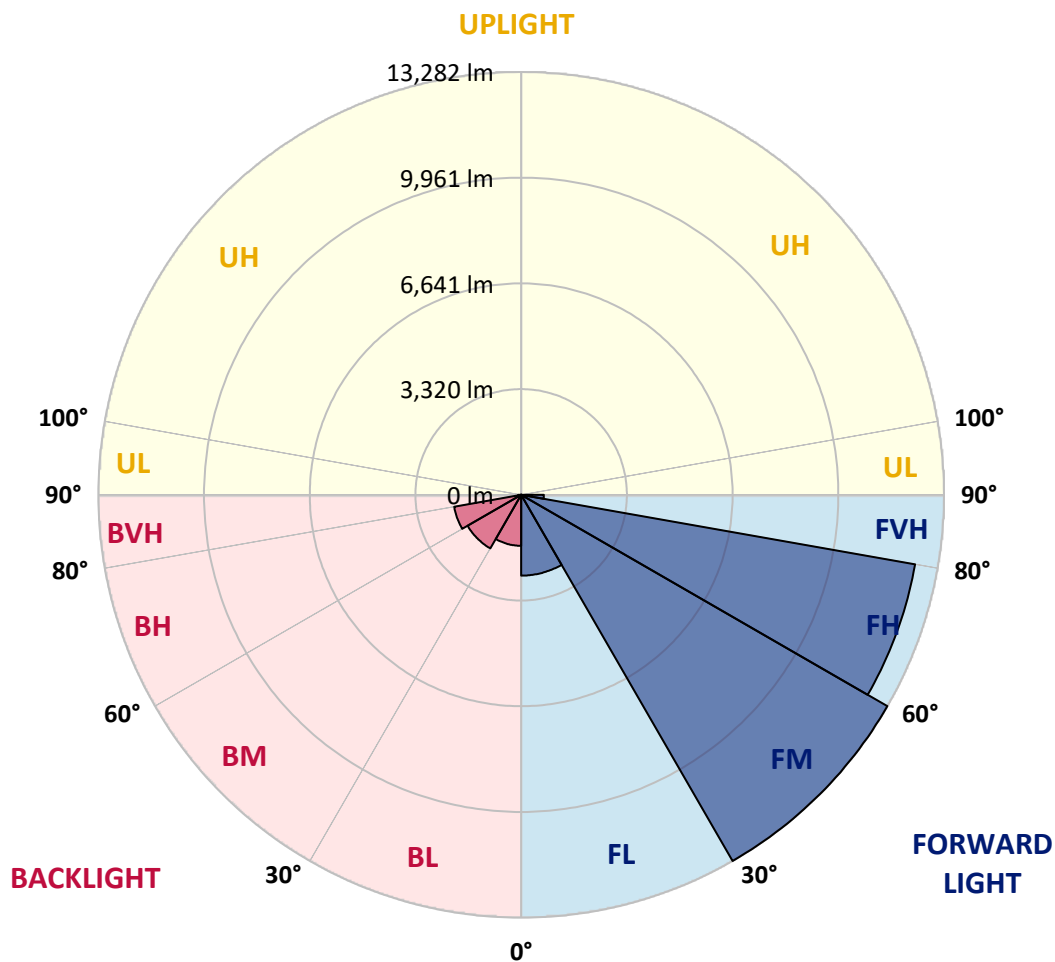
CATALOG NUMBER: GAN-AF-06-LED-U-SL2-7050-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2538.2 | 7.3 | | | |
| FM | (30°-60°) | 13281.9 | 38.1 | | | |
| FH | (60°-80°) | 12565.5 | 36.0 | | | G5 |
| FVH | (80°-90°) | 712.7 | 2.0 | | | G4/750 |
| BL | (0°-30°) | 1601.7 | 4.6 | B3/2500 | | |
| BM | (30°-60°) | 1941.8 | 5.6 | B2/2500 | | |
| BH | (60°-80°) | 2137.4 | 6.1 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 97.8 | 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-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7522.9 | 7522.9 | 7522.9 | 7522.9 | 7522.9 | 7522.9 | 7522.9 | 7522.9 | 7522.9 | 7522.9 | 7522.9 |
| 2.5° | 7213.3 | 7225.3 | 7263.2 | 7287.3 | 7395.6 | 7442.0 | 7474.7 | 7507.4 | 7512.6 | 7528.0 | 7512.6 |
| 5° | 6456.5 | 6482.3 | 6552.9 | 6632.0 | 6841.8 | 7006.9 | 7180.6 | 7361.2 | 7393.9 | 7510.8 | 7543.5 |
| 7.5° | 5870.1 | 5863.2 | 5921.6 | 6016.2 | 6231.2 | 6460.0 | 6764.4 | 7123.9 | 7194.4 | 7457.5 | 7584.8 |
| 10° | 5441.8 | 5436.6 | 5498.6 | 5596.6 | 5801.3 | 6018.0 | 6361.9 | 6853.8 | 6953.6 | 7373.3 | 7624.4 |
| 12.5° | 5125.3 | 5127.0 | 5189.0 | 5297.3 | 5505.4 | 5723.9 | 6073.0 | 6592.4 | 6719.7 | 7275.2 | 7665.6 |
| 15° | 4915.5 | 4929.3 | 4979.1 | 5094.4 | 5297.3 | 5515.7 | 5858.0 | 6396.3 | 6539.1 | 7197.8 | 7712.1 |
| 17.5° | 4845.0 | 4867.3 | 4884.5 | 4968.8 | 5142.5 | 5361.0 | 5696.3 | 6251.9 | 6403.2 | 7144.5 | 7753.4 |
| 20° | 4910.3 | 4936.1 | 4903.5 | 4932.7 | 5042.8 | 5235.4 | 5569.1 | 6138.4 | 6293.1 | 7084.3 | 7758.5 |
| 22.5° | 5190.7 | 5214.8 | 5118.5 | 5034.2 | 5027.3 | 5144.2 | 5464.2 | 6048.9 | 6208.9 | 7039.6 | 7760.2 |
| 25° | 5684.3 | 5699.8 | 5538.1 | 5342.0 | 5151.1 | 5111.6 | 5390.2 | 5987.0 | 6157.3 | 7000.0 | 7727.6 |
| 27.5° | 6289.7 | 6301.7 | 6116.0 | 5827.1 | 5443.5 | 5189.0 | 5364.4 | 5950.9 | 6128.0 | 6965.6 | 7672.5 |
| 30° | 7025.8 | 7082.6 | 6833.2 | 6468.6 | 5909.6 | 5417.7 | 5416.0 | 5932.0 | 6095.4 | 6907.2 | 7564.2 |
| 32.5° | 7779.1 | 7803.2 | 7631.2 | 7261.5 | 6537.4 | 5820.2 | 5560.5 | 5945.7 | 6086.8 | 6836.6 | 7426.6 |
| 35° | 8542.8 | 8573.7 | 8462.0 | 8164.4 | 7395.6 | 6410.1 | 5842.5 | 6026.6 | 6140.1 | 6812.6 | 7330.3 |
| 37.5° | 9531.7 | 9573.0 | 9418.2 | 9074.2 | 8439.6 | 7209.9 | 6312.1 | 6229.5 | 6303.5 | 6881.4 | 7301.0 |
| 40° | 11095.1 | 11076.2 | 10623.9 | 10111.3 | 9581.6 | 8233.2 | 6982.8 | 6573.5 | 6616.5 | 7103.2 | 7390.5 |
| 42.5° | 12914.8 | 12868.4 | 12089.2 | 11284.3 | 10837.1 | 9471.5 | 7870.3 | 7170.3 | 7161.7 | 7540.1 | 7705.2 |
| 45° | 14366.4 | 14328.6 | 13626.8 | 12634.5 | 12276.7 | 10881.9 | 9017.5 | 8059.5 | 7995.9 | 8233.2 | 8286.5 |
| 47.5° | 15152.4 | 15154.1 | 14749.9 | 13939.9 | 13931.3 | 12674.0 | 10491.4 | 9346.0 | 9235.9 | 9347.7 | 9291.0 |
| 50° | 14877.2 | 14913.3 | 14870.3 | 14612.3 | 15441.3 | 15023.4 | 12416.0 | 11139.9 | 10918.0 | 11028.1 | 10809.6 |
| 52.5° | 13546.0 | 13592.4 | 13847.0 | 14242.6 | 16076.0 | 17863.0 | 15243.6 | 13368.9 | 13110.9 | 13071.3 | 12828.8 |
| 55° | 11186.3 | 11243.0 | 11762.5 | 12837.4 | 15548.0 | 19770.4 | 19705.0 | 16210.1 | 15799.1 | 15425.9 | 15322.7 |
| 57.5° | 7710.4 | 7804.9 | 8640.8 | 10236.9 | 13840.1 | 20346.5 | 25017.8 | 20260.5 | 19424.7 | 18121.0 | 18145.0 |
| 60° | 4346.2 | 4456.3 | 5441.8 | 6891.7 | 10393.4 | 19720.5 | 29059.6 | 26395.4 | 24630.8 | 21277.0 | 21455.9 |
| 62.5° | 2763.9 | 2882.6 | 3630.7 | 4788.2 | 6236.4 | 16349.5 | 30715.9 | 34924.5 | 32683.4 | 25167.4 | 25342.9 |
| 65° | 2237.6 | 2289.2 | 2641.8 | 3952.4 | 4528.5 | 9849.9 | 29458.6 | 41950.3 | 41114.4 | 30105.3 | 29286.6 |
| 67.5° | 2184.3 | 2201.5 | 2383.8 | 3317.7 | 4342.8 | 5536.4 | 23497.4 | 43264.3 | 44191.4 | 34716.4 | 30929.1 |
| 70° | 2158.5 | 2218.7 | 2686.5 | 3166.4 | 4158.7 | 4669.6 | 14120.5 | 39662.8 | 41126.5 | 35922.0 | 28743.1 |
| 72.5° | 1047.4 | 1044.0 | 1351.8 | 2863.6 | 4685.0 | 4843.3 | 7254.6 | 32091.8 | 33560.6 | 31121.8 | 23619.5 |
| 75° | 844.5 | 772.2 | 737.8 | 1049.1 | 4504.4 | 5001.5 | 4623.1 | 22081.9 | 23144.8 | 20865.9 | 14519.5 |
| 77.5° | 801.5 | 715.5 | 655.3 | 657.0 | 1903.9 | 5304.2 | 3916.2 | 12221.7 | 12531.3 | 9425.1 | 3978.2 |
| 80° | 663.9 | 584.8 | 541.8 | 610.6 | 921.9 | 5051.4 | 4234.4 | 5531.2 | 5075.5 | 2315.0 | 1324.3 |
| 82.5° | 460.9 | 419.7 | 407.6 | 512.5 | 737.8 | 3599.8 | 4924.1 | 2972.0 | 2492.1 | 1159.2 | 817.0 |
| 85° | 294.1 | 251.1 | 278.6 | 373.2 | 574.4 | 1661.4 | 5072.0 | 2316.7 | 1842.0 | 736.1 | 460.9 |
| 87.5° | 135.9 | 110.1 | 137.6 | 206.4 | 374.9 | 572.7 | 4826.1 | 2602.2 | 1897.1 | 388.7 | 290.7 |
| 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° | 7522.9 | 7522.9 | 7522.9 | 7522.9 | 7522.9 | 7522.9 | 7522.9 | 7522.9 | 7522.9 | 7522.9 | 7522.9 |
| 2.5° | 7526.3 | 7493.6 | 7467.8 | 7419.7 | 7366.4 | 7314.8 | 7268.3 | 7209.9 | 7192.7 | 7177.2 | 7201.3 |
| 5° | 7550.4 | 7517.7 | 7423.1 | 7275.2 | 7111.8 | 6958.8 | 6805.7 | 6675.0 | 6594.1 | 6549.4 | 6575.2 |
| 7.5° | 7586.5 | 7540.1 | 7344.0 | 7072.3 | 6778.2 | 6509.9 | 6233.0 | 6011.1 | 5847.7 | 5770.3 | 5792.7 |
| 10° | 7619.2 | 7529.8 | 7209.9 | 6802.2 | 6372.3 | 5973.2 | 5536.4 | 5175.2 | 4906.9 | 4765.9 | 4800.3 |
| 12.5° | 7633.0 | 7490.2 | 7022.4 | 6465.1 | 5875.2 | 5290.4 | 4647.2 | 4107.1 | 3721.9 | 3580.9 | 3551.6 |
| 15° | 7646.7 | 7445.5 | 6816.0 | 6081.6 | 5275.0 | 4447.7 | 3546.5 | 2899.8 | 2579.9 | 2509.3 | 2493.9 |
| 17.5° | 7650.2 | 7368.1 | 6582.1 | 5665.4 | 4571.5 | 3445.0 | 2425.1 | 2014.0 | 2015.7 | 2129.2 | 2143.0 |
| 20° | 7614.0 | 7252.9 | 6298.3 | 5147.7 | 3728.8 | 2382.1 | 1664.9 | 1594.4 | 1854.1 | 2137.8 | 2172.2 |
| 22.5° | 7531.5 | 7099.8 | 5976.7 | 4544.0 | 2763.9 | 1568.6 | 1288.2 | 1365.6 | 1701.0 | 2048.4 | 2088.0 |
| 25° | 7426.6 | 6914.0 | 5596.6 | 3844.0 | 1830.0 | 1121.4 | 1080.1 | 1174.7 | 1401.7 | 1633.9 | 1656.3 |
| 27.5° | 7283.8 | 6693.9 | 5170.0 | 3042.5 | 1188.5 | 923.6 | 951.1 | 1014.7 | 1107.6 | 1210.8 | 1221.1 |
| 30° | 7099.8 | 6430.7 | 4714.3 | 2218.7 | 897.8 | 830.7 | 870.3 | 904.7 | 944.2 | 1002.7 | 1007.9 |
| 32.5° | 6888.2 | 6177.9 | 4246.5 | 1532.4 | 796.3 | 782.6 | 813.5 | 830.7 | 861.7 | 897.8 | 901.2 |
| 35° | 6711.1 | 5937.1 | 3761.4 | 1083.5 | 753.3 | 746.4 | 767.1 | 774.0 | 803.2 | 842.8 | 846.2 |
| 37.5° | 6609.6 | 5741.1 | 3260.9 | 873.7 | 724.1 | 713.8 | 725.8 | 725.8 | 767.1 | 825.6 | 834.2 |
| 40° | 6616.5 | 5632.7 | 2760.5 | 789.4 | 700.0 | 686.2 | 688.0 | 688.0 | 741.3 | 804.9 | 810.1 |
| 42.5° | 6804.0 | 5660.2 | 2316.7 | 756.8 | 681.1 | 665.6 | 657.0 | 662.2 | 706.9 | 748.2 | 751.6 |
| 45° | 7244.3 | 5854.6 | 1900.5 | 736.1 | 662.2 | 657.0 | 638.1 | 636.4 | 653.6 | 672.5 | 672.5 |
| 47.5° | 7966.6 | 6238.1 | 1618.4 | 722.4 | 646.7 | 645.0 | 622.6 | 600.2 | 598.5 | 605.4 | 605.4 |
| 50° | 9141.3 | 6898.6 | 1429.2 | 706.9 | 636.4 | 622.6 | 596.8 | 562.4 | 550.4 | 555.5 | 555.5 |
| 52.5° | 10902.5 | 8076.7 | 1357.0 | 686.2 | 614.0 | 591.6 | 562.4 | 528.0 | 517.7 | 519.4 | 519.4 |
| 55° | 13212.3 | 9886.0 | 1346.7 | 662.2 | 589.9 | 553.8 | 529.7 | 503.9 | 491.9 | 495.3 | 495.3 |
| 57.5° | 16034.7 | 12388.5 | 1530.7 | 624.3 | 557.3 | 516.0 | 502.2 | 485.0 | 476.4 | 481.6 | 479.9 |
| 60° | 19465.9 | 15663.2 | 2270.3 | 584.8 | 524.6 | 481.6 | 481.6 | 467.8 | 460.9 | 466.1 | 464.4 |
| 62.5° | 23418.3 | 19424.7 | 3192.2 | 555.5 | 490.2 | 454.1 | 460.9 | 454.1 | 447.2 | 450.6 | 448.9 |
| 65° | 26923.5 | 21875.5 | 2989.2 | 533.2 | 455.8 | 428.3 | 440.3 | 436.9 | 431.7 | 435.1 | 433.4 |
| 67.5° | 27024.9 | 20967.4 | 1678.6 | 509.1 | 423.1 | 402.5 | 419.7 | 417.9 | 414.5 | 417.9 | 416.2 |
| 70° | 24118.3 | 17704.7 | 946.0 | 464.4 | 388.7 | 371.5 | 395.6 | 393.9 | 390.4 | 397.3 | 395.6 |
| 72.5° | 19323.2 | 12847.7 | 691.4 | 409.3 | 354.3 | 338.8 | 366.3 | 364.6 | 364.6 | 374.9 | 369.8 |
| 75° | 11119.2 | 6611.3 | 552.1 | 350.9 | 318.2 | 306.1 | 330.2 | 331.9 | 335.4 | 349.1 | 338.8 |
| 77.5° | 3169.8 | 2060.5 | 450.6 | 297.5 | 273.5 | 268.3 | 292.4 | 295.8 | 297.5 | 313.0 | 299.3 |
| 80° | 1178.1 | 949.4 | 371.5 | 249.4 | 223.6 | 225.3 | 247.7 | 252.8 | 254.5 | 270.0 | 252.8 |
| 82.5° | 751.6 | 626.0 | 301.0 | 192.6 | 175.4 | 173.7 | 201.2 | 208.1 | 208.1 | 209.8 | 199.5 |
| 85° | 438.6 | 374.9 | 227.0 | 139.3 | 123.8 | 118.7 | 149.6 | 161.7 | 156.5 | 153.1 | 146.2 |
| 87.5° | 294.1 | 258.0 | 139.3 | 77.4 | 67.1 | 63.6 | 87.7 | 96.3 | 92.9 | 87.7 | 82.6 |
| 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)