

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: P191885

Luminaire Tested: **GAN-AF-07-LED-U-SL2-7050-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191885
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-07-LED-U-SL2-7050-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 800mA 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: 33324 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 295
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

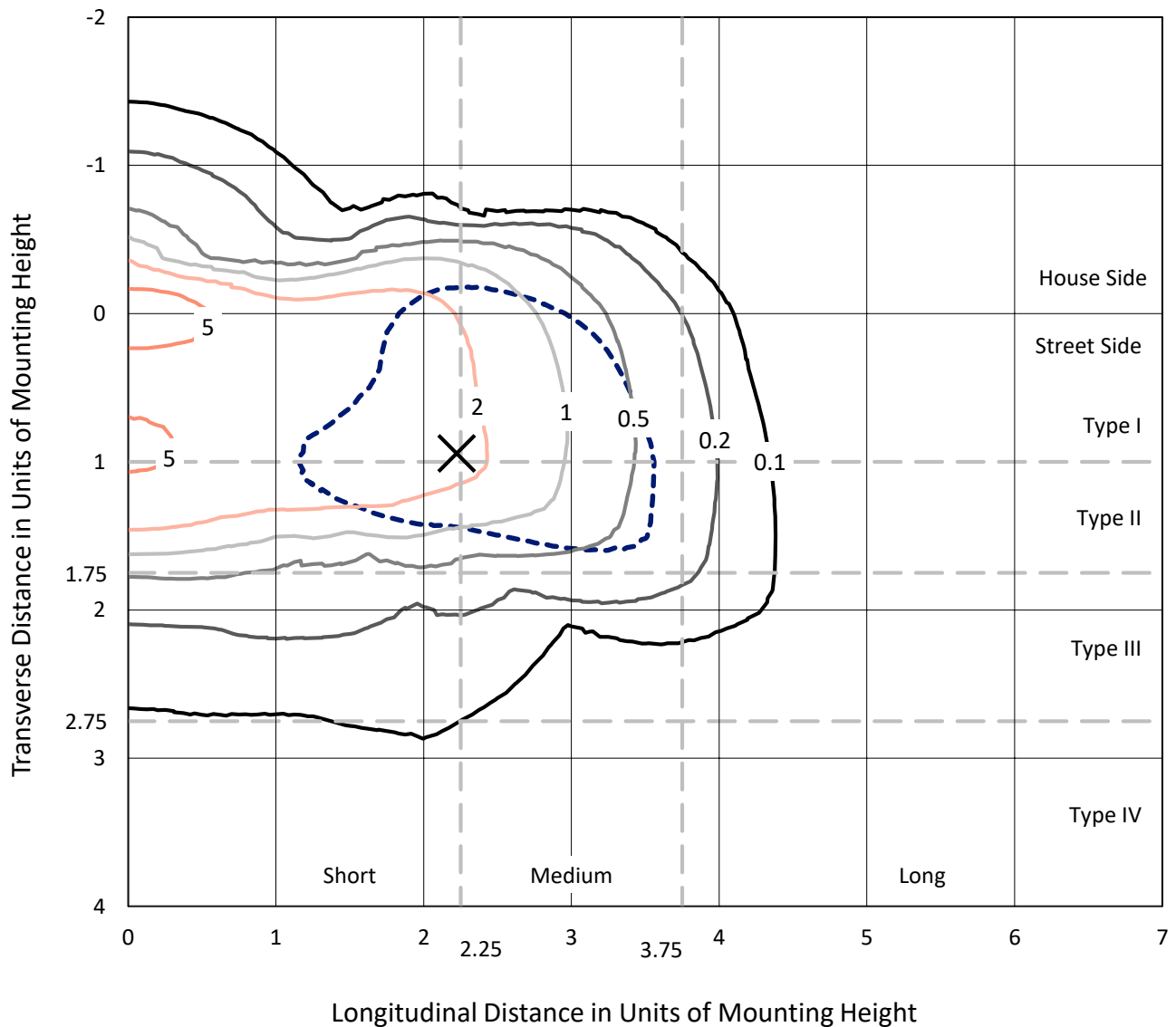


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

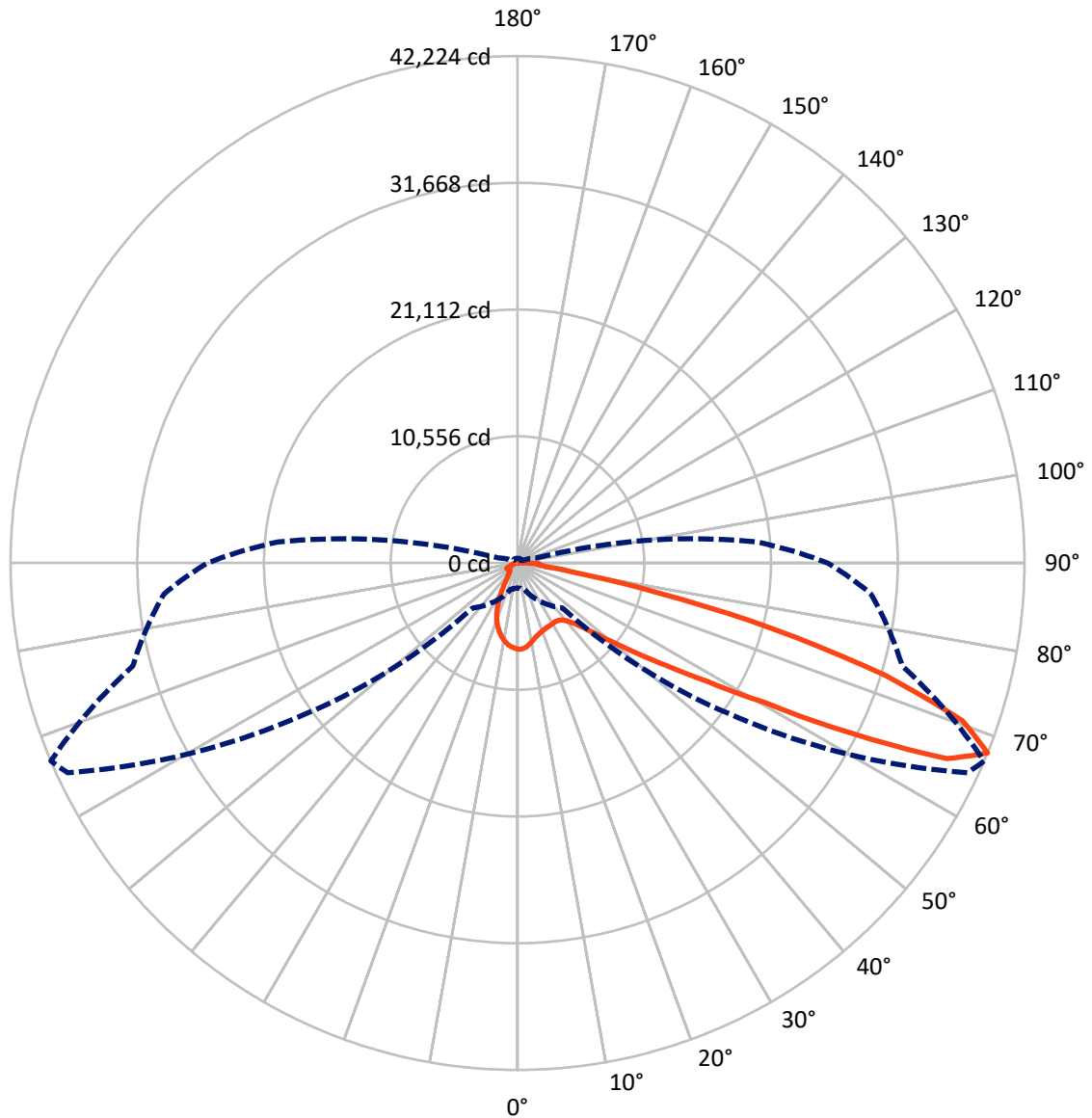


Based on 30 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - Semi-Cutoff

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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 | 5521.4 | 0.0 | 5521.4 |
| | % Fixture | 16.6 | 0.0 | 16.6 |
| Street Side | Lumens | 27802.6 | 0.0 | 27802.6 |
| | % Fixture | 83.4 | 0.0 | 83.4 |
| Total | Lumens | 33324.0 | 0.0 | 33324.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 613.2 | 1.8 |
| 10°-20° | 1418.9 | 4.3 |
| 20°-30° | 1923.4 | 5.8 |
| 30°-40° | 2734.3 | 8.2 |
| 40°-50° | 4574.6 | 13.7 |
| 50°-60° | 7237.0 | 21.7 |
| 60°-70° | 9219.2 | 27.7 |
| 70°-80° | 4829.0 | 14.5 |
| 80°-90° | 774.5 | 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° | 33324.0 | 100.0 |
| 0°-180° | 33324.0 | 100.0 |

Coefficient of Utilization



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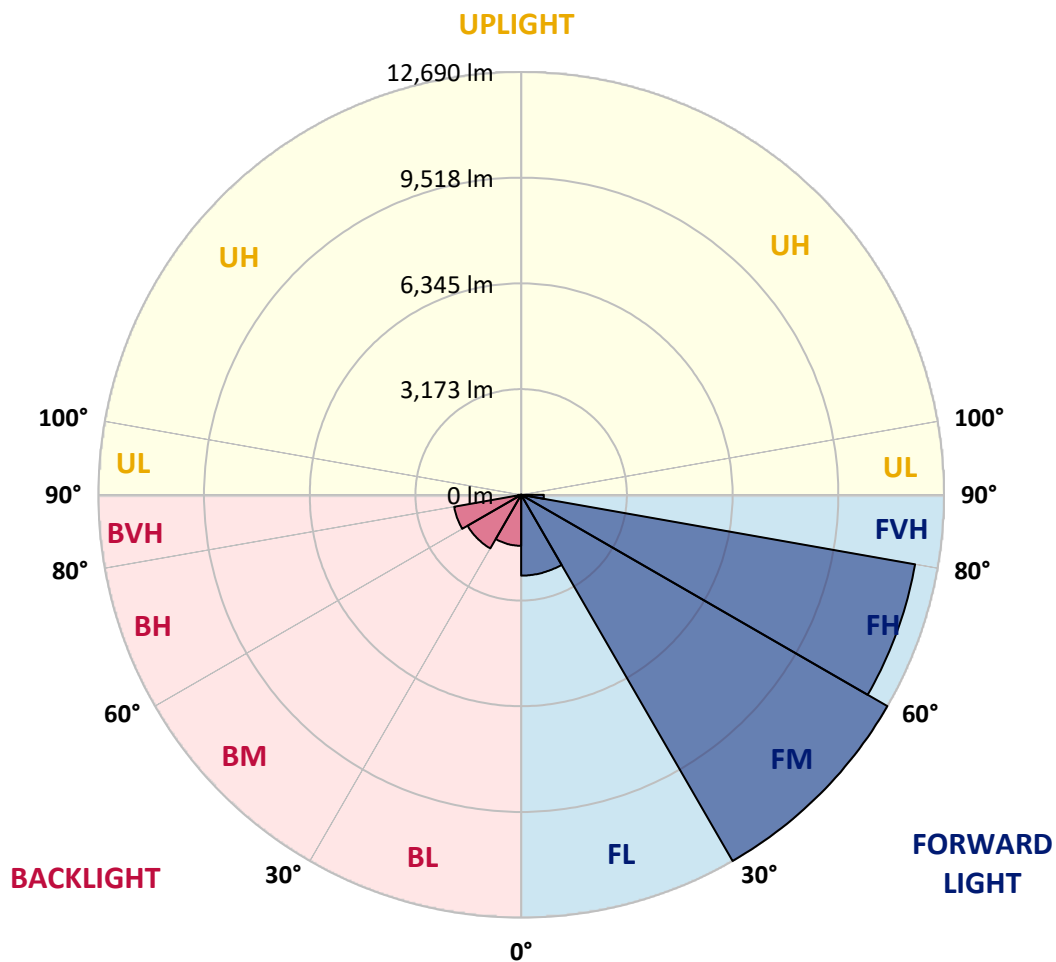
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2425.2 | 7.3 | | | |
| FM (30°-60°) | 12690.5 | 38.1 | | | |
| FH (60°-80°) | 12005.9 | 36.0 | | | G5 |
| FVH (80°-90°) | 681.0 | 2.0 | | | G4/750 |
| BL (0°-30°) | 1530.4 | 4.6 | B3/2500 | | |
| BM (30°-60°) | 1855.4 | 5.6 | B2/2500 | | |
| BH (60°-80°) | 2042.2 | 6.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 93.5 | 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° | 7187.9 | 7187.9 | 7187.9 | 7187.9 | 7187.9 | 7187.9 | 7187.9 | 7187.9 | 7187.9 | 7187.9 | 7187.9 |
| 2.5° | 6892.1 | 6903.6 | 6939.8 | 6962.8 | 7066.3 | 7110.7 | 7141.9 | 7173.1 | 7178.0 | 7192.8 | 7178.0 |
| 5° | 6169.0 | 6193.7 | 6261.1 | 6336.7 | 6537.1 | 6694.9 | 6860.9 | 7033.4 | 7064.7 | 7176.4 | 7207.6 |
| 7.5° | 5608.7 | 5602.1 | 5658.0 | 5748.4 | 5953.8 | 6172.3 | 6463.2 | 6806.7 | 6874.0 | 7125.5 | 7247.1 |
| 10° | 5199.5 | 5194.6 | 5253.7 | 5347.4 | 5542.9 | 5750.0 | 6078.7 | 6548.7 | 6644.0 | 7044.9 | 7284.9 |
| 12.5° | 4897.1 | 4898.8 | 4957.9 | 5061.4 | 5260.3 | 5469.0 | 5802.6 | 6298.9 | 6420.5 | 6951.3 | 7324.3 |
| 15° | 4696.6 | 4709.8 | 4757.4 | 4867.5 | 5061.4 | 5270.1 | 5597.2 | 6111.5 | 6247.9 | 6877.3 | 7368.7 |
| 17.5° | 4629.2 | 4650.6 | 4667.0 | 4747.6 | 4913.5 | 5122.2 | 5442.7 | 5973.5 | 6118.1 | 6826.4 | 7408.1 |
| 20° | 4691.7 | 4716.3 | 4685.1 | 4713.1 | 4818.2 | 5002.3 | 5321.1 | 5865.0 | 6012.9 | 6768.9 | 7413.0 |
| 22.5° | 4959.6 | 4982.6 | 4890.5 | 4810.0 | 4803.4 | 4915.2 | 5220.8 | 5779.6 | 5932.4 | 6726.1 | 7414.7 |
| 25° | 5431.2 | 5446.0 | 5291.5 | 5104.2 | 4921.8 | 4884.0 | 5150.2 | 5720.4 | 5883.1 | 6688.3 | 7383.5 |
| 27.5° | 6009.6 | 6021.1 | 5843.7 | 5567.6 | 5201.1 | 4957.9 | 5125.5 | 5685.9 | 5855.2 | 6655.5 | 7330.9 |
| 30° | 6713.0 | 6767.2 | 6528.9 | 6180.5 | 5646.5 | 5176.5 | 5174.8 | 5667.8 | 5823.9 | 6599.6 | 7227.3 |
| 32.5° | 7432.8 | 7455.8 | 7291.4 | 6938.1 | 6246.3 | 5561.0 | 5312.9 | 5681.0 | 5815.7 | 6532.2 | 7095.9 |
| 35° | 8162.4 | 8192.0 | 8085.2 | 7800.9 | 7066.3 | 6124.7 | 5582.4 | 5758.2 | 5866.7 | 6509.2 | 7003.9 |
| 37.5° | 9107.3 | 9146.7 | 8998.8 | 8670.2 | 8063.8 | 6888.8 | 6031.0 | 5952.1 | 6022.8 | 6574.9 | 6975.9 |
| 40° | 10601.1 | 10583.0 | 10150.8 | 9661.1 | 9155.0 | 7866.6 | 6671.9 | 6280.8 | 6321.9 | 6786.9 | 7061.4 |
| 42.5° | 12339.7 | 12295.4 | 11550.9 | 10781.9 | 10354.6 | 9049.8 | 7519.9 | 6851.0 | 6842.8 | 7204.3 | 7362.1 |
| 45° | 13726.7 | 13690.5 | 13020.1 | 12071.9 | 11730.1 | 10397.3 | 8616.0 | 7700.6 | 7639.8 | 7866.6 | 7917.5 |
| 47.5° | 14477.7 | 14479.3 | 14093.2 | 13319.2 | 13310.9 | 12109.7 | 10024.3 | 8929.8 | 8824.7 | 8931.5 | 8877.2 |
| 50° | 14214.8 | 14249.3 | 14208.2 | 13961.7 | 14753.8 | 14354.4 | 11863.2 | 10643.8 | 10431.8 | 10537.0 | 10328.3 |
| 52.5° | 12942.8 | 12987.2 | 13230.4 | 13608.4 | 15360.2 | 17067.6 | 14564.8 | 12773.6 | 12527.1 | 12489.3 | 12257.6 |
| 55° | 10688.2 | 10742.4 | 11238.7 | 12265.8 | 14855.7 | 18890.0 | 18827.6 | 15488.3 | 15095.6 | 14739.0 | 14640.4 |
| 57.5° | 7367.0 | 7457.4 | 8256.1 | 9781.1 | 13223.8 | 19440.5 | 23903.8 | 19358.4 | 18559.7 | 17314.1 | 17337.1 |
| 60° | 4152.7 | 4257.9 | 5199.5 | 6584.8 | 9930.6 | 18842.4 | 27765.6 | 25220.1 | 23534.1 | 20329.6 | 20500.5 |
| 62.5° | 2640.8 | 2754.2 | 3469.1 | 4575.0 | 5958.7 | 15621.5 | 29348.1 | 33369.4 | 31228.1 | 24046.8 | 24214.4 |
| 65° | 2138.0 | 2187.3 | 2524.1 | 3776.4 | 4326.9 | 9411.3 | 28146.9 | 40082.3 | 39283.7 | 28764.8 | 27982.5 |
| 67.5° | 2087.0 | 2103.5 | 2277.6 | 3170.0 | 4149.4 | 5289.9 | 22451.1 | 41337.8 | 42223.6 | 33170.5 | 29551.9 |
| 70° | 2062.4 | 2119.9 | 2566.9 | 3025.4 | 3973.6 | 4461.6 | 13491.7 | 37896.7 | 39295.2 | 34322.5 | 27463.3 |
| 72.5° | 1000.8 | 997.5 | 1291.7 | 2736.1 | 4476.4 | 4627.6 | 6931.5 | 30662.8 | 32066.2 | 29736.0 | 22567.8 |
| 75° | 806.9 | 737.9 | 705.0 | 1002.4 | 4303.9 | 4778.8 | 4417.3 | 21098.7 | 22114.2 | 19936.8 | 13873.0 |
| 77.5° | 765.8 | 683.6 | 626.1 | 627.8 | 1819.2 | 5068.0 | 3741.9 | 11677.5 | 11973.3 | 9005.4 | 3801.0 |
| 80° | 634.3 | 558.7 | 517.6 | 583.4 | 880.8 | 4826.4 | 4045.9 | 5284.9 | 4849.5 | 2211.9 | 1265.4 |
| 82.5° | 440.4 | 401.0 | 389.5 | 489.7 | 705.0 | 3439.5 | 4704.8 | 2839.7 | 2381.2 | 1107.6 | 780.6 |
| 85° | 281.0 | 239.9 | 266.2 | 356.6 | 548.9 | 1587.5 | 4846.2 | 2213.6 | 1760.0 | 703.3 | 440.4 |
| 87.5° | 129.8 | 105.2 | 131.5 | 197.2 | 358.2 | 547.2 | 4611.2 | 2486.4 | 1812.6 | 371.4 | 277.7 |
| 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° | 7187.9 | 7187.9 | 7187.9 | 7187.9 | 7187.9 | 7187.9 | 7187.9 | 7187.9 | 7187.9 | 7187.9 | 7187.9 |
| 2.5° | 7191.2 | 7160.0 | 7135.3 | 7089.3 | 7038.4 | 6989.1 | 6944.7 | 6888.8 | 6872.4 | 6857.6 | 6880.6 |
| 5° | 7214.2 | 7183.0 | 7092.6 | 6951.3 | 6795.2 | 6648.9 | 6502.6 | 6377.7 | 6300.5 | 6257.8 | 6282.4 |
| 7.5° | 7248.7 | 7204.3 | 7017.0 | 6757.4 | 6476.3 | 6220.0 | 5955.4 | 5743.4 | 5587.3 | 5513.4 | 5534.7 |
| 10° | 7279.9 | 7194.5 | 6888.8 | 6499.4 | 6088.5 | 5707.3 | 5289.9 | 4944.8 | 4688.4 | 4553.7 | 4586.5 |
| 12.5° | 7293.1 | 7156.7 | 6709.7 | 6177.3 | 5613.6 | 5054.9 | 4440.3 | 3924.3 | 3556.2 | 3421.4 | 3393.5 |
| 15° | 7306.2 | 7114.0 | 6512.5 | 5810.8 | 5040.1 | 4249.6 | 3388.5 | 2770.6 | 2465.0 | 2397.6 | 2382.8 |
| 17.5° | 7309.5 | 7040.0 | 6289.0 | 5413.1 | 4368.0 | 3291.6 | 2317.1 | 1924.3 | 1926.0 | 2034.4 | 2047.6 |
| 20° | 7275.0 | 6929.9 | 6017.9 | 4918.5 | 3562.7 | 2276.0 | 1590.7 | 1523.4 | 1771.5 | 2042.7 | 2075.5 |
| 22.5° | 7196.1 | 6783.6 | 5710.6 | 4341.7 | 2640.8 | 1498.7 | 1230.9 | 1304.8 | 1625.2 | 1957.2 | 1995.0 |
| 25° | 7095.9 | 6606.2 | 5347.4 | 3672.8 | 1748.5 | 1071.4 | 1032.0 | 1122.4 | 1339.3 | 1561.2 | 1582.5 |
| 27.5° | 6959.5 | 6395.8 | 4939.8 | 2907.0 | 1135.5 | 882.5 | 908.8 | 969.6 | 1058.3 | 1156.9 | 1166.8 |
| 30° | 6783.6 | 6144.4 | 4504.4 | 2119.9 | 857.8 | 793.7 | 831.5 | 864.4 | 902.2 | 958.1 | 963.0 |
| 32.5° | 6581.5 | 5902.8 | 4057.4 | 1464.2 | 760.9 | 747.7 | 777.3 | 793.7 | 823.3 | 857.8 | 861.1 |
| 35° | 6412.3 | 5672.8 | 3594.0 | 1035.3 | 719.8 | 713.2 | 732.9 | 739.5 | 767.4 | 805.2 | 808.5 |
| 37.5° | 6315.3 | 5485.4 | 3115.7 | 834.8 | 691.8 | 682.0 | 693.5 | 693.5 | 732.9 | 788.8 | 797.0 |
| 40° | 6321.9 | 5381.9 | 2637.5 | 754.3 | 668.8 | 655.7 | 657.3 | 657.3 | 708.3 | 769.1 | 774.0 |
| 42.5° | 6501.0 | 5408.2 | 2213.6 | 723.1 | 650.8 | 636.0 | 627.8 | 632.7 | 675.4 | 714.8 | 718.1 |
| 45° | 6921.7 | 5593.9 | 1815.9 | 703.3 | 632.7 | 627.8 | 609.7 | 608.0 | 624.5 | 642.5 | 642.5 |
| 47.5° | 7611.9 | 5960.3 | 1546.4 | 690.2 | 617.9 | 616.2 | 594.9 | 573.5 | 571.9 | 578.5 | 578.5 |
| 50° | 8734.3 | 6591.4 | 1365.6 | 675.4 | 608.0 | 594.9 | 570.2 | 537.4 | 525.9 | 530.8 | 530.8 |
| 52.5° | 10417.0 | 7717.1 | 1296.6 | 655.7 | 586.7 | 565.3 | 537.4 | 504.5 | 494.6 | 496.3 | 496.3 |
| 55° | 12624.0 | 9445.8 | 1286.7 | 632.7 | 563.7 | 529.2 | 506.1 | 481.5 | 470.0 | 473.3 | 473.3 |
| 57.5° | 15320.7 | 11836.9 | 1462.6 | 596.5 | 532.4 | 493.0 | 479.9 | 463.4 | 455.2 | 460.1 | 458.5 |
| 60° | 18599.2 | 14965.8 | 2169.2 | 558.7 | 501.2 | 460.1 | 460.1 | 447.0 | 440.4 | 445.3 | 443.7 |
| 62.5° | 22375.5 | 18559.7 | 3050.0 | 530.8 | 468.3 | 433.8 | 440.4 | 433.8 | 427.3 | 430.6 | 428.9 |
| 65° | 25724.6 | 20901.5 | 2856.1 | 509.4 | 435.5 | 409.2 | 420.7 | 417.4 | 412.5 | 415.8 | 414.1 |
| 67.5° | 25821.6 | 20033.8 | 1603.9 | 486.4 | 404.3 | 384.5 | 401.0 | 399.3 | 396.0 | 399.3 | 397.7 |
| 70° | 23044.4 | 16916.4 | 903.8 | 443.7 | 371.4 | 355.0 | 378.0 | 376.3 | 373.0 | 379.6 | 378.0 |
| 72.5° | 18462.8 | 12275.6 | 660.6 | 391.1 | 338.5 | 323.7 | 350.0 | 348.4 | 348.4 | 358.2 | 353.3 |
| 75° | 10624.1 | 6316.9 | 527.5 | 335.2 | 304.0 | 292.5 | 315.5 | 317.2 | 320.4 | 333.6 | 323.7 |
| 77.5° | 3028.6 | 1968.7 | 430.6 | 284.3 | 261.3 | 256.4 | 279.4 | 282.7 | 284.3 | 299.1 | 285.9 |
| 80° | 1125.7 | 907.1 | 355.0 | 238.3 | 213.6 | 215.3 | 236.6 | 241.6 | 243.2 | 258.0 | 241.6 |
| 82.5° | 718.1 | 598.2 | 287.6 | 184.1 | 167.6 | 166.0 | 192.3 | 198.8 | 198.8 | 200.5 | 190.6 |
| 85° | 419.0 | 358.2 | 216.9 | 133.1 | 118.3 | 113.4 | 143.0 | 154.5 | 149.5 | 146.3 | 139.7 |
| 87.5° | 281.0 | 246.5 | 133.1 | 73.9 | 64.1 | 60.8 | 83.8 | 92.0 | 88.7 | 83.8 | 78.9 |
| 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)