

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: P268828

Luminaire Tested: **GAN-AF-09-LED-U-SL2-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268828
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-09-LED-U-SL2-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 36592.6 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 374
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

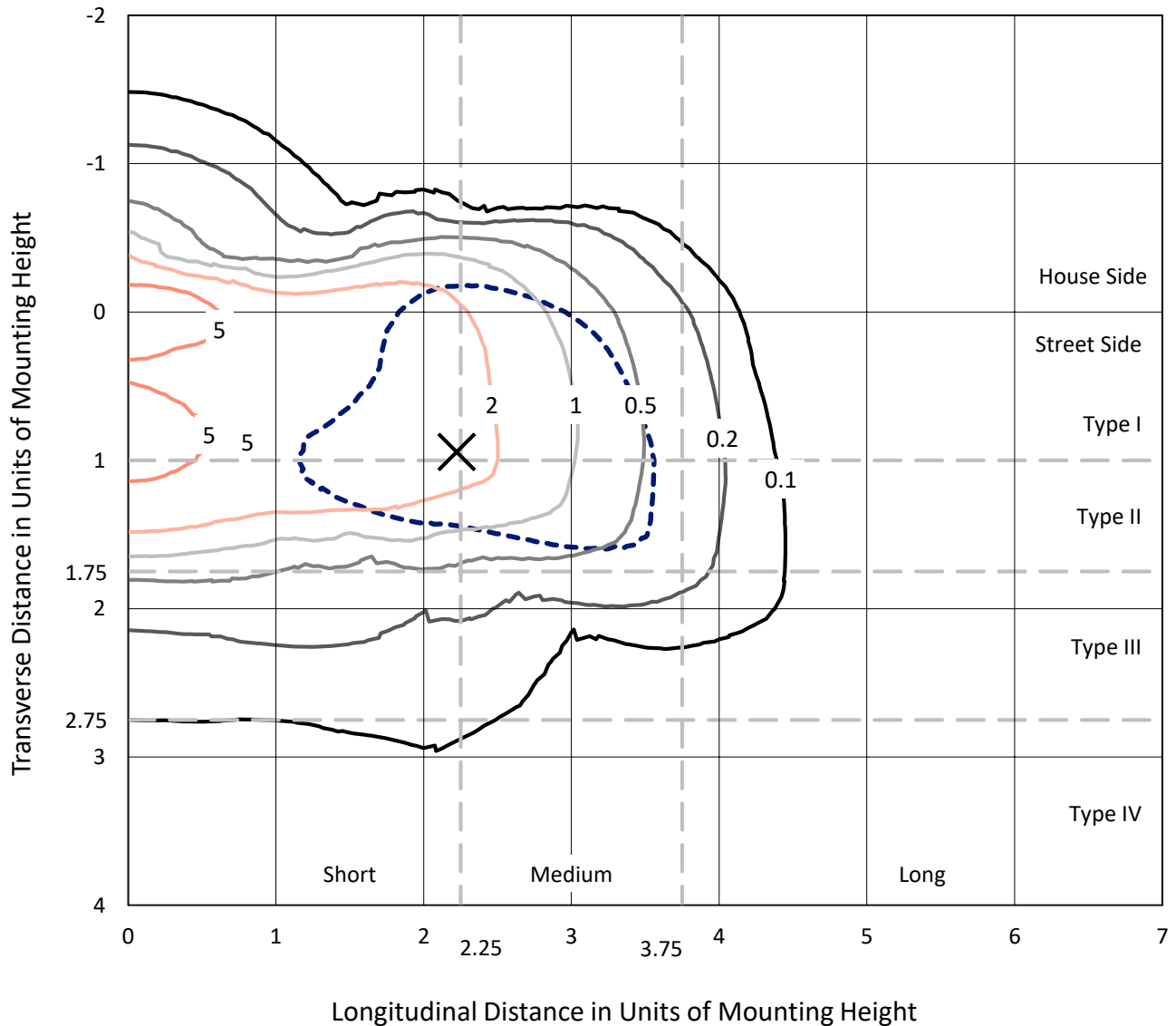


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Iso-Footcandle Lines of Horizontal Illumination

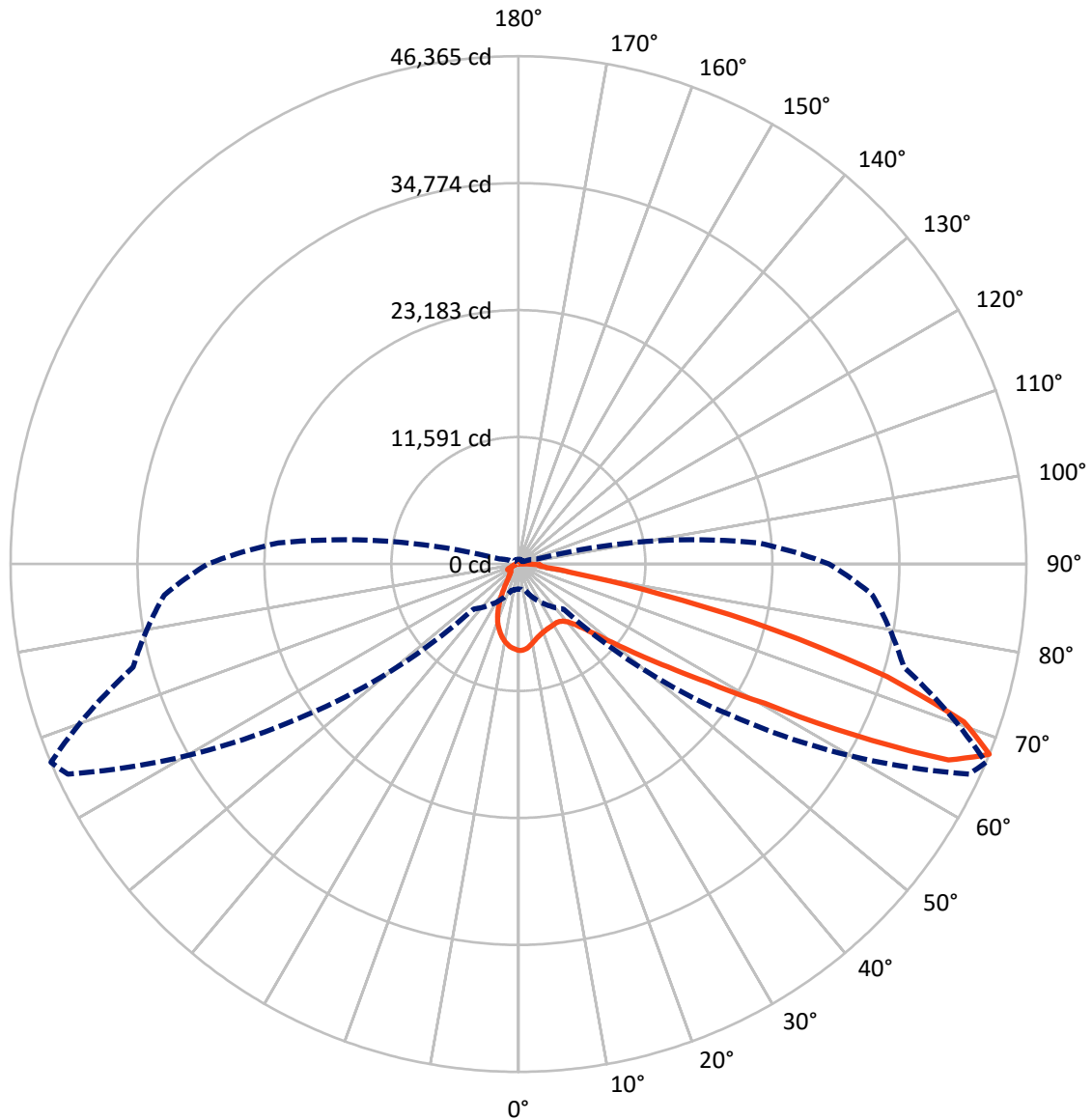
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.8 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 | 6063.0 | 0.0 | 6063.0 |
| | % Fixture | 16.6 | 0.0 | 16.6 |
| Street Side | Lumens | 30529.6 | 0.0 | 30529.6 |
| | % Fixture | 83.4 | 0.0 | 83.4 |
| Total | Lumens | 36592.6 | 0.0 | 36592.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 673.4 | 1.8 |
| 10°-20° | 1558.1 | 4.3 |
| 20°-30° | 2112.0 | 5.8 |
| 30°-40° | 3002.5 | 8.2 |
| 40°-50° | 5023.3 | 13.7 |
| 50°-60° | 7946.8 | 21.7 |
| 60°-70° | 10123.4 | 27.7 |
| 70°-80° | 5302.6 | 14.5 |
| 80°-90° | 850.4 | 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° | 36592.6 | 100.0 |
| 0°-180° | 36592.6 | 100.0 |

Coefficient of Utilization



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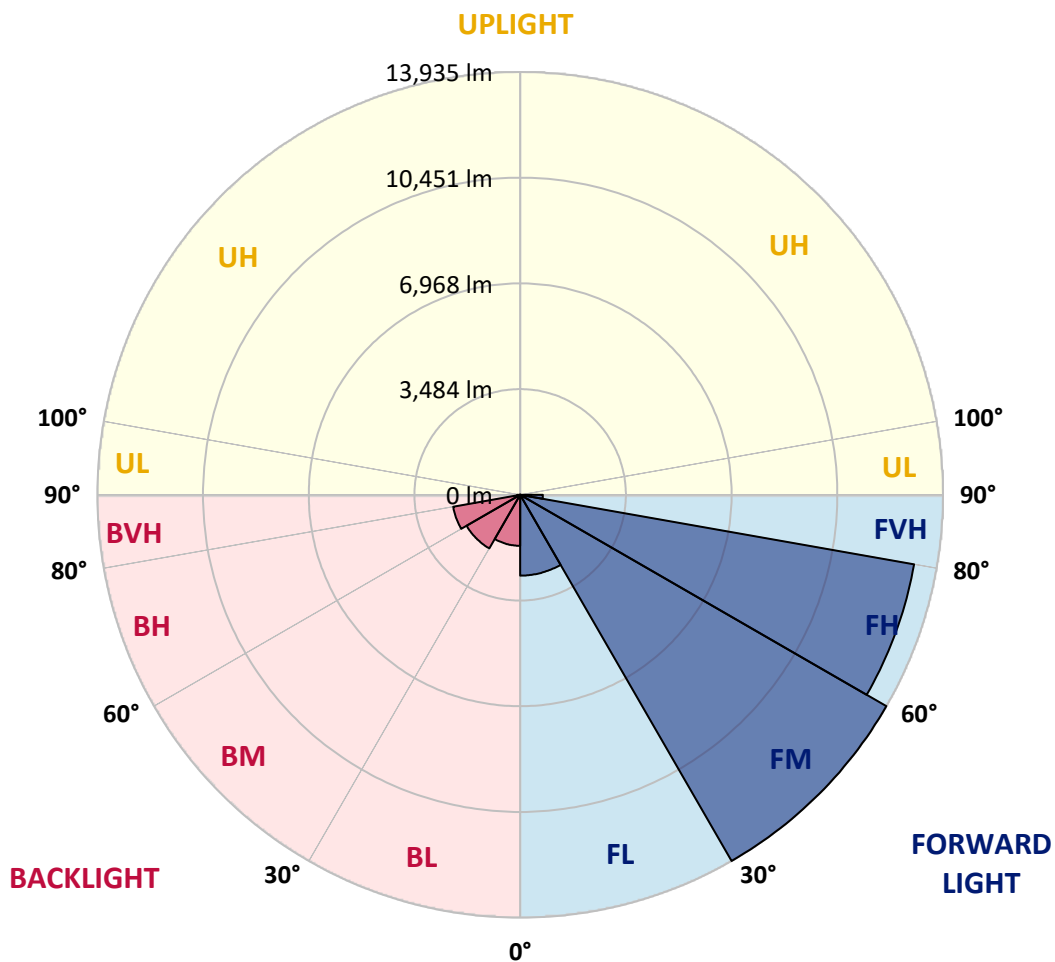
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2663.1 | 7.3 | | | |
| FM | (30°-60°) | 13935.2 | 38.1 | | | |
| FH | (60°-80°) | 13183.5 | 36.0 | | | G5 |
| FVH | (80°-90°) | 747.8 | 2.0 | | | G4/750 |
| BL | (0°-30°) | 1680.5 | 4.6 | B3/2500 | | |
| BM | (30°-60°) | 2037.3 | 5.6 | B2/2500 | | |
| BH | (60°-80°) | 2242.5 | 6.1 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 102.6 | 0.3 | | | G2/225 |
| 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° | 7893.0 | 7893.0 | 7893.0 | 7893.0 | 7893.0 | 7893.0 | 7893.0 | 7893.0 | 7893.0 | 7893.0 | 7893.0 |
| 2.5° | 7568.1 | 7580.7 | 7620.4 | 7645.7 | 7759.4 | 7808.1 | 7842.5 | 7876.7 | 7882.1 | 7898.3 | 7882.1 |
| 5° | 6774.1 | 6801.2 | 6875.2 | 6958.2 | 7178.4 | 7351.5 | 7533.8 | 7723.3 | 7757.7 | 7880.3 | 7914.5 |
| 7.5° | 6158.8 | 6151.6 | 6212.9 | 6312.2 | 6537.8 | 6777.7 | 7097.1 | 7474.3 | 7548.3 | 7824.3 | 7957.8 |
| 10° | 5709.4 | 5704.1 | 5769.1 | 5872.0 | 6086.6 | 6313.9 | 6674.9 | 7191.0 | 7295.7 | 7735.9 | 7999.3 |
| 12.5° | 5377.4 | 5379.2 | 5444.2 | 5558.0 | 5776.2 | 6005.3 | 6371.7 | 6916.7 | 7050.2 | 7633.1 | 8042.7 |
| 15° | 5157.3 | 5171.7 | 5224.1 | 5344.9 | 5558.0 | 5787.2 | 6146.2 | 6711.0 | 6860.7 | 7552.0 | 8091.5 |
| 17.5° | 5083.2 | 5106.8 | 5124.8 | 5213.3 | 5395.5 | 5624.6 | 5976.6 | 6559.5 | 6718.2 | 7495.9 | 8134.7 |
| 20° | 5151.9 | 5179.0 | 5144.7 | 5175.3 | 5290.8 | 5493.0 | 5843.0 | 6440.3 | 6602.7 | 7432.8 | 8140.1 |
| 22.5° | 5446.1 | 5471.2 | 5370.2 | 5281.9 | 5274.6 | 5397.2 | 5733.0 | 6346.4 | 6514.2 | 7385.9 | 8142.0 |
| 25° | 5963.8 | 5980.1 | 5810.5 | 5604.9 | 5404.6 | 5363.1 | 5655.3 | 6281.5 | 6460.2 | 7344.4 | 8107.7 |
| 27.5° | 6599.0 | 6611.7 | 6416.9 | 6113.7 | 5711.2 | 5444.2 | 5628.3 | 6243.6 | 6429.4 | 7308.3 | 8049.9 |
| 30° | 7371.4 | 7431.0 | 7169.4 | 6786.8 | 6200.3 | 5684.2 | 5682.4 | 6223.7 | 6395.2 | 7246.8 | 7936.3 |
| 32.5° | 8161.8 | 8187.1 | 8006.7 | 7618.6 | 6859.0 | 6106.5 | 5834.0 | 6238.2 | 6386.2 | 7173.0 | 7791.9 |
| 35° | 8963.0 | 8995.4 | 8878.2 | 8566.0 | 7759.4 | 6725.4 | 6129.9 | 6323.0 | 6442.1 | 7147.6 | 7690.7 |
| 37.5° | 10000.7 | 10043.9 | 9881.4 | 9520.5 | 8854.8 | 7564.4 | 6622.6 | 6536.0 | 6613.5 | 7219.9 | 7660.1 |
| 40° | 11640.9 | 11621.1 | 11146.4 | 10608.8 | 10052.9 | 8638.2 | 7326.2 | 6896.8 | 6941.9 | 7452.6 | 7754.0 |
| 42.5° | 13550.0 | 13501.3 | 12683.9 | 11839.4 | 11370.2 | 9937.4 | 8257.4 | 7522.9 | 7514.1 | 7911.0 | 8084.1 |
| 45° | 15073.1 | 15033.3 | 14297.2 | 13255.8 | 12880.5 | 11417.2 | 9461.0 | 8455.9 | 8389.2 | 8638.2 | 8694.2 |
| 47.5° | 15897.8 | 15899.6 | 15475.6 | 14625.6 | 14616.5 | 13297.4 | 11007.6 | 9805.7 | 9690.2 | 9807.5 | 9748.0 |
| 50° | 15608.9 | 15646.9 | 15601.9 | 15331.2 | 16200.9 | 15762.4 | 13026.7 | 11687.8 | 11455.0 | 11570.4 | 11341.3 |
| 52.5° | 14212.4 | 14261.0 | 14528.1 | 14943.1 | 16866.8 | 18741.7 | 15993.3 | 14026.5 | 13755.7 | 13714.2 | 13459.8 |
| 55° | 11736.5 | 11796.2 | 12341.0 | 13468.8 | 16312.9 | 20742.9 | 20674.3 | 17007.5 | 16576.2 | 16184.7 | 16076.3 |
| 57.5° | 8089.6 | 8188.9 | 9065.9 | 10740.5 | 14520.9 | 21347.3 | 26248.5 | 21257.1 | 20380.1 | 19012.3 | 19037.6 |
| 60° | 4559.9 | 4675.5 | 5709.4 | 7230.6 | 10904.6 | 20690.5 | 30489.1 | 27693.8 | 25842.4 | 22323.6 | 22511.3 |
| 62.5° | 2899.9 | 3024.4 | 3809.4 | 5023.7 | 6543.2 | 17153.7 | 32226.8 | 36642.5 | 34291.1 | 26405.4 | 26589.4 |
| 65° | 2347.7 | 2401.8 | 2771.7 | 4146.8 | 4751.2 | 10334.5 | 30907.7 | 44013.8 | 43136.8 | 31586.2 | 30727.2 |
| 67.5° | 2291.8 | 2309.8 | 2501.1 | 3480.9 | 4556.5 | 5808.7 | 24653.3 | 45392.4 | 46365.1 | 36424.0 | 32450.6 |
| 70° | 2264.6 | 2327.8 | 2818.6 | 3322.1 | 4363.2 | 4899.3 | 14815.0 | 41613.9 | 43149.5 | 37689.0 | 30157.0 |
| 72.5° | 1098.9 | 1095.4 | 1418.3 | 3004.6 | 4915.4 | 5081.5 | 7611.3 | 33670.4 | 35211.5 | 32652.6 | 24781.4 |
| 75° | 886.0 | 810.2 | 774.1 | 1100.8 | 4726.1 | 5247.4 | 4850.5 | 23168.0 | 24283.3 | 21892.4 | 15233.6 |
| 77.5° | 841.0 | 750.7 | 687.6 | 689.3 | 1997.7 | 5565.1 | 4108.8 | 12822.9 | 13147.7 | 9888.7 | 4173.9 |
| 80° | 696.5 | 613.5 | 568.4 | 640.6 | 967.3 | 5299.8 | 4442.7 | 5803.3 | 5325.2 | 2428.8 | 1389.5 |
| 82.5° | 483.6 | 440.3 | 427.7 | 537.7 | 774.1 | 3776.8 | 5166.3 | 3118.1 | 2614.7 | 1216.2 | 857.2 |
| 85° | 308.6 | 263.5 | 292.3 | 391.7 | 602.8 | 1743.2 | 5321.5 | 2430.6 | 1932.7 | 772.4 | 483.6 |
| 87.5° | 142.6 | 115.5 | 144.4 | 216.5 | 393.4 | 600.8 | 5063.4 | 2730.2 | 1990.4 | 407.8 | 305.0 |
| 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° | 7893.0 | 7893.0 | 7893.0 | 7893.0 | 7893.0 | 7893.0 | 7893.0 | 7893.0 | 7893.0 | 7893.0 | 7893.0 |
| 2.5° | 7896.6 | 7862.2 | 7835.1 | 7784.6 | 7728.7 | 7674.6 | 7625.8 | 7564.4 | 7546.4 | 7530.2 | 7555.5 |
| 5° | 7921.9 | 7887.5 | 7788.2 | 7633.1 | 7461.6 | 7301.1 | 7140.4 | 7003.2 | 6918.4 | 6871.6 | 6898.7 |
| 7.5° | 7959.7 | 7911.0 | 7705.2 | 7420.1 | 7111.6 | 6830.1 | 6539.5 | 6306.8 | 6135.3 | 6054.1 | 6077.7 |
| 10° | 7993.9 | 7900.1 | 7564.4 | 7136.9 | 6685.7 | 6267.0 | 5808.7 | 5429.7 | 5148.2 | 5000.2 | 5036.3 |
| 12.5° | 8008.4 | 7858.6 | 7367.8 | 6783.1 | 6164.2 | 5550.6 | 4875.8 | 4309.2 | 3904.9 | 3757.0 | 3726.3 |
| 15° | 8022.9 | 7811.8 | 7151.2 | 6380.8 | 5534.5 | 4666.4 | 3720.9 | 3042.4 | 2706.8 | 2632.8 | 2616.6 |
| 17.5° | 8026.4 | 7730.5 | 6905.9 | 5944.1 | 4796.4 | 3614.4 | 2544.4 | 2113.2 | 2114.9 | 2233.9 | 2248.4 |
| 20° | 7988.5 | 7609.6 | 6608.1 | 5400.9 | 3912.2 | 2499.3 | 1746.8 | 1672.7 | 1945.3 | 2243.0 | 2279.1 |
| 22.5° | 7901.9 | 7449.0 | 6270.7 | 4767.6 | 2899.9 | 1645.8 | 1351.6 | 1432.7 | 1784.7 | 2149.1 | 2190.6 |
| 25° | 7791.9 | 7254.2 | 5872.0 | 4033.1 | 1919.9 | 1176.5 | 1133.2 | 1232.5 | 1470.6 | 1714.2 | 1737.7 |
| 27.5° | 7642.2 | 7023.2 | 5424.3 | 3192.1 | 1246.8 | 969.0 | 997.8 | 1064.6 | 1162.0 | 1270.4 | 1281.3 |
| 30° | 7449.0 | 6747.1 | 4946.2 | 2327.8 | 942.0 | 871.5 | 913.0 | 949.1 | 990.7 | 1052.0 | 1057.5 |
| 32.5° | 7227.0 | 6481.8 | 4455.4 | 1607.8 | 835.6 | 821.1 | 853.5 | 871.5 | 904.1 | 942.0 | 945.6 |
| 35° | 7041.3 | 6229.1 | 3946.4 | 1136.8 | 790.4 | 783.1 | 804.8 | 812.1 | 842.7 | 884.2 | 887.9 |
| 37.5° | 6934.7 | 6023.5 | 3421.4 | 916.7 | 759.6 | 748.8 | 761.6 | 761.6 | 804.8 | 866.1 | 875.2 |
| 40° | 6941.9 | 5909.8 | 2896.2 | 828.2 | 734.5 | 720.0 | 721.8 | 721.8 | 777.8 | 844.4 | 849.9 |
| 42.5° | 7138.7 | 5938.6 | 2430.6 | 794.0 | 714.6 | 698.3 | 689.3 | 694.7 | 741.6 | 784.9 | 788.5 |
| 45° | 7600.6 | 6142.6 | 1994.0 | 772.4 | 694.7 | 689.3 | 669.4 | 667.7 | 685.8 | 705.6 | 705.6 |
| 47.5° | 8358.5 | 6545.0 | 1698.1 | 757.9 | 678.5 | 676.8 | 653.2 | 629.8 | 627.9 | 635.2 | 635.2 |
| 50° | 9590.9 | 7238.0 | 1499.5 | 741.6 | 667.7 | 653.2 | 626.2 | 590.0 | 577.4 | 582.9 | 582.9 |
| 52.5° | 11438.7 | 8474.0 | 1423.8 | 720.0 | 644.3 | 620.8 | 590.0 | 554.0 | 543.1 | 544.9 | 544.9 |
| 55° | 13862.3 | 10372.3 | 1412.9 | 694.7 | 618.9 | 581.1 | 555.8 | 528.7 | 516.0 | 519.7 | 519.7 |
| 57.5° | 16823.5 | 12997.8 | 1606.0 | 655.0 | 584.6 | 541.4 | 526.9 | 508.9 | 499.8 | 505.2 | 503.5 |
| 60° | 20423.4 | 16433.7 | 2381.9 | 613.5 | 550.4 | 505.2 | 505.2 | 490.8 | 483.6 | 488.9 | 487.2 |
| 62.5° | 24570.3 | 20380.1 | 3349.2 | 582.9 | 514.3 | 476.5 | 483.6 | 476.5 | 469.2 | 472.8 | 471.0 |
| 65° | 28247.8 | 22951.5 | 3136.3 | 559.5 | 478.2 | 449.3 | 462.0 | 458.3 | 452.9 | 456.6 | 454.7 |
| 67.5° | 28354.3 | 21998.9 | 1761.1 | 534.1 | 443.9 | 422.3 | 440.3 | 438.6 | 434.9 | 438.6 | 436.7 |
| 70° | 25304.6 | 18575.6 | 992.4 | 487.2 | 407.8 | 389.8 | 415.0 | 413.2 | 409.6 | 416.9 | 415.0 |
| 72.5° | 20273.7 | 13479.6 | 725.4 | 429.5 | 371.7 | 355.5 | 384.4 | 382.6 | 382.6 | 393.4 | 388.0 |
| 75° | 11666.2 | 6936.5 | 579.2 | 368.1 | 333.8 | 321.2 | 346.4 | 348.3 | 351.9 | 366.2 | 355.5 |
| 77.5° | 3325.7 | 2161.9 | 472.8 | 312.3 | 286.9 | 281.4 | 306.9 | 310.4 | 312.3 | 328.4 | 314.0 |
| 80° | 1236.1 | 996.1 | 389.8 | 261.6 | 234.5 | 236.4 | 259.9 | 265.3 | 267.1 | 283.3 | 265.3 |
| 82.5° | 788.5 | 656.8 | 315.8 | 202.1 | 184.1 | 182.3 | 211.1 | 218.4 | 218.4 | 220.2 | 209.3 |
| 85° | 460.1 | 393.4 | 238.2 | 146.2 | 130.0 | 124.5 | 157.1 | 169.6 | 164.2 | 160.5 | 153.4 |
| 87.5° | 308.6 | 270.7 | 146.2 | 81.1 | 70.3 | 66.7 | 92.0 | 101.1 | 97.5 | 92.0 | 86.6 |
| 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)