

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: P267323

Luminaire Tested: **GAN-AF-10-LED-U-SL4-7027-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P267323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-SL4-7027-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39297.5 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 419
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

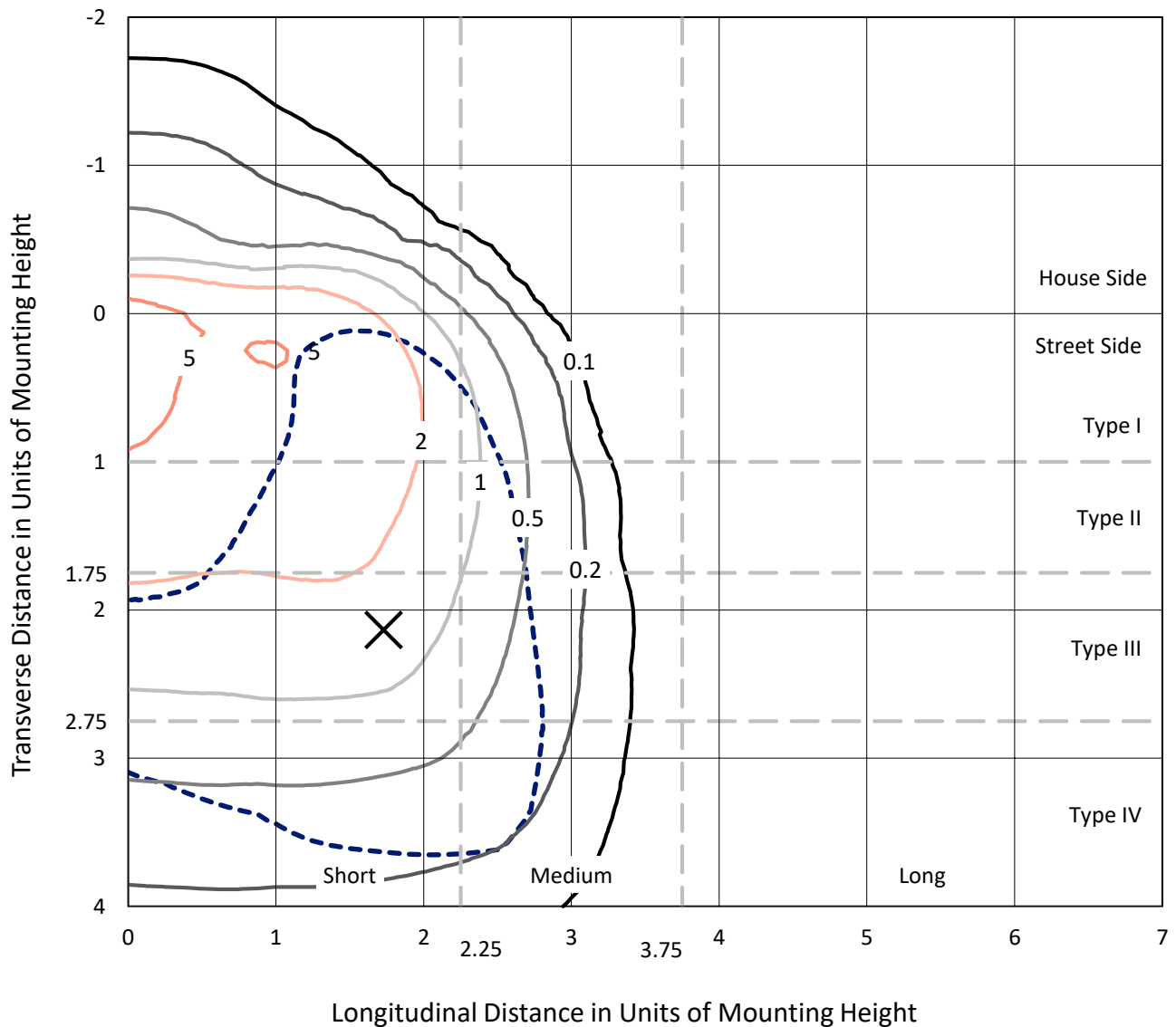


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

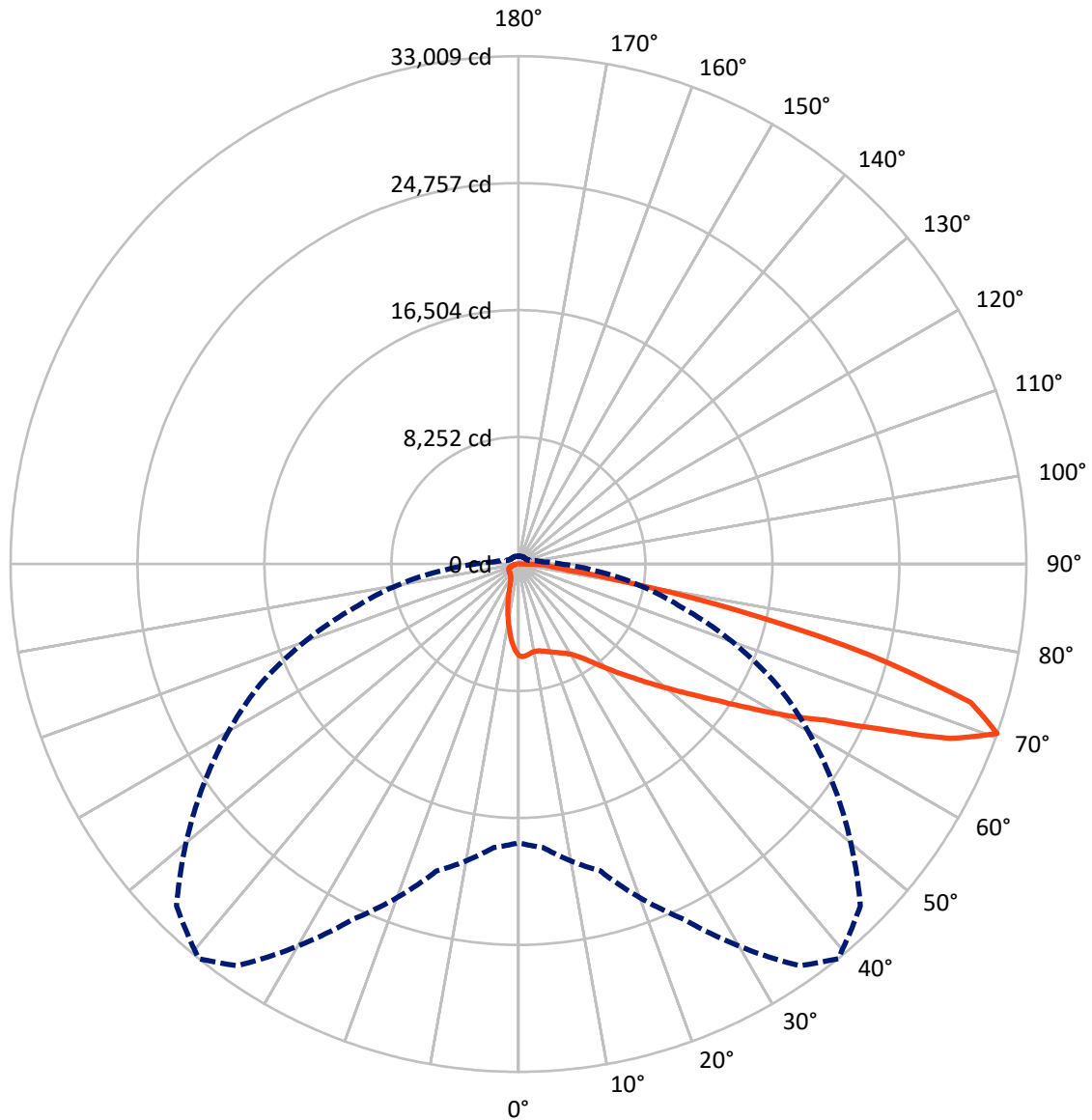


Based on 30 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4469.5 | 0.0 | 4469.5 |
| | % Fixture | 11.4 | 0.0 | 11.4 |
| Street Side | Lumens | 34828.1 | 0.0 | 34828.1 |
| | % Fixture | 88.6 | 0.0 | 88.6 |
| Total | Lumens | 39297.5 | 0.0 | 39297.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 512.0 | 1.3 |
| 10°-20° | 1279.8 | 3.3 |
| 20°-30° | 1992.7 | 5.1 |
| 30°-40° | 3104.2 | 7.9 |
| 40°-50° | 5211.5 | 13.3 |
| 50°-60° | 8278.8 | 21.1 |
| 60°-70° | 11043.0 | 28.1 |
| 70°-80° | 6668.6 | 17.0 |
| 80°-90° | 1206.9 | 3.1 |
| 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° | 39297.5 | 100.0 |
| 0°-180° | 39297.5 | 100.0 |

Coefficient of Utilization



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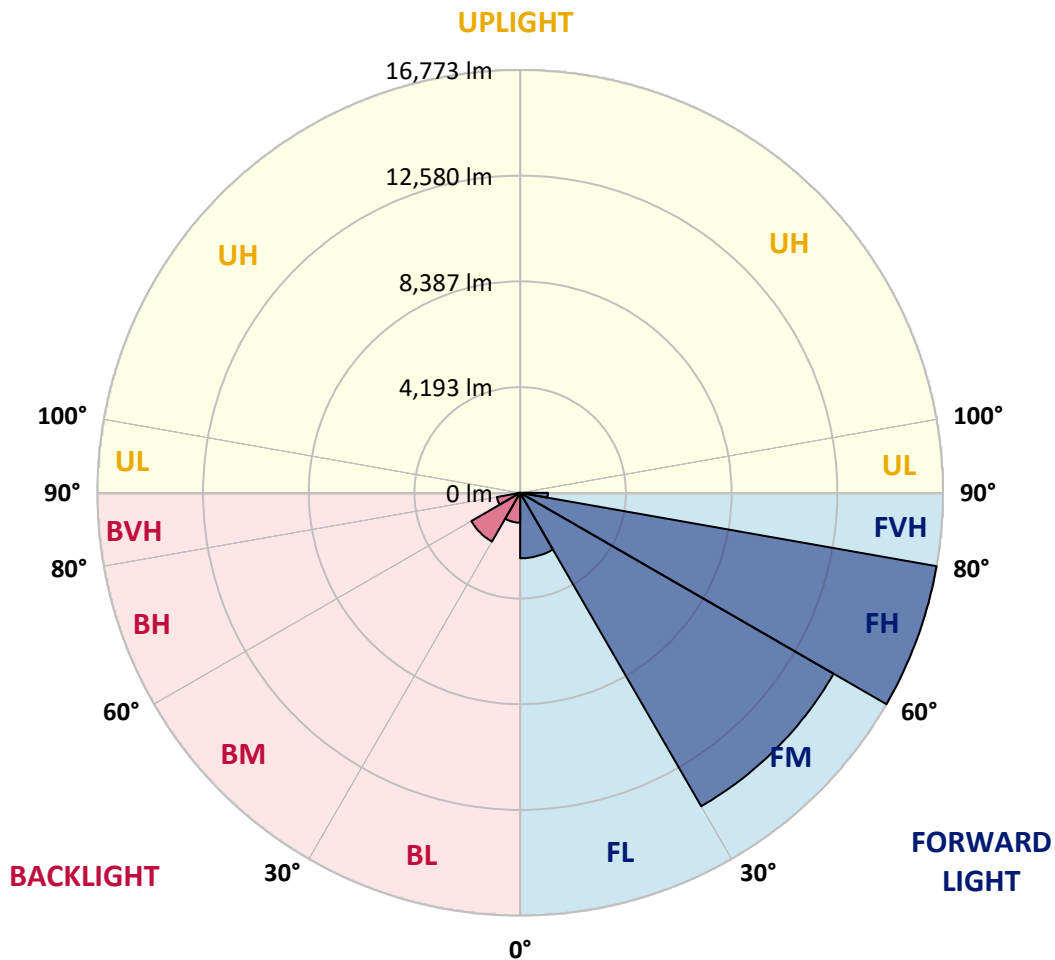
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2598.8 | 6.6 | | | |
| FM | (30°-60°) | 14357.8 | 36.5 | | | |
| FH | (60°-80°) | 16773.3 | 42.7 | | | G5 |
| FVH | (80°-90°) | 1098.1 | 2.8 | | | G5 |
| BL | (0°-30°) | 1185.7 | 3.0 | B3/2500 | | |
| BM | (30°-60°) | 2236.7 | 5.7 | B2/2500 | | |
| BH | (60°-80°) | 938.3 | 2.4 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 108.8 | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5966.0 | 5966.0 | 5966.0 | 5966.0 | 5966.0 | 5966.0 | 5966.0 | 5966.0 | 5966.0 | 5966.0 | 5966.0 |
| 2.5° | 6081.9 | 6079.9 | 6063.9 | 6051.9 | 6041.9 | 6037.9 | 6046.0 | 6015.9 | 5990.0 | 5958.0 | 5924.1 |
| 5° | 6035.9 | 6033.9 | 6008.0 | 5984.0 | 5960.0 | 5952.0 | 5950.1 | 5896.0 | 5864.0 | 5816.2 | 5752.1 |
| 7.5° | 5985.9 | 5976.0 | 5942.0 | 5902.0 | 5860.1 | 5840.2 | 5820.1 | 5750.2 | 5714.2 | 5666.2 | 5592.4 |
| 10° | 5934.1 | 5922.0 | 5890.0 | 5850.1 | 5810.1 | 5780.1 | 5746.2 | 5678.2 | 5640.3 | 5604.3 | 5518.4 |
| 12.5° | 5880.0 | 5870.1 | 5862.1 | 5844.2 | 5816.2 | 5790.1 | 5764.2 | 5706.3 | 5666.2 | 5624.3 | 5524.4 |
| 15° | 5872.1 | 5868.1 | 5886.1 | 5898.0 | 5882.0 | 5866.1 | 5838.2 | 5788.1 | 5746.2 | 5704.2 | 5574.3 |
| 17.5° | 5936.0 | 5934.1 | 5979.9 | 6011.9 | 6003.9 | 5976.0 | 5937.9 | 5882.0 | 5848.1 | 5812.2 | 5650.2 |
| 20° | 6075.9 | 6085.8 | 6141.8 | 6183.8 | 6143.8 | 6103.9 | 6041.9 | 5963.9 | 5946.1 | 5930.0 | 5728.2 |
| 22.5° | 6339.6 | 6349.6 | 6389.6 | 6405.5 | 6301.6 | 6243.7 | 6157.8 | 6057.9 | 6046.0 | 6057.9 | 5822.2 |
| 25° | 6751.2 | 6741.2 | 6735.2 | 6675.2 | 6485.5 | 6395.6 | 6285.6 | 6181.7 | 6187.7 | 6241.8 | 5954.0 |
| 27.5° | 7296.7 | 7242.7 | 7158.8 | 6978.9 | 6677.2 | 6577.4 | 6443.5 | 6347.7 | 6385.5 | 6489.4 | 6151.9 |
| 30° | 7862.1 | 7802.0 | 7608.4 | 7314.5 | 6928.9 | 6819.2 | 6669.2 | 6561.4 | 6661.3 | 6825.1 | 6415.5 |
| 32.5° | 8385.5 | 8377.6 | 8093.8 | 7716.3 | 7276.6 | 7180.7 | 7030.9 | 6909.0 | 7070.9 | 7320.6 | 6811.0 |
| 35° | 8957.0 | 8975.0 | 8635.2 | 8181.8 | 7746.2 | 7646.3 | 7538.3 | 7446.5 | 7662.3 | 8006.0 | 7384.5 |
| 37.5° | 9568.3 | 9604.3 | 9202.6 | 8691.2 | 8281.7 | 8239.7 | 8175.7 | 8135.8 | 8469.4 | 8945.0 | 8185.7 |
| 40° | 10385.6 | 10349.6 | 9792.2 | 9266.6 | 8938.9 | 8937.0 | 8916.9 | 8964.9 | 9520.3 | 10171.7 | 9214.8 |
| 42.5° | 11260.7 | 11154.8 | 10417.5 | 9884.1 | 9660.3 | 9728.1 | 9768.1 | 9963.9 | 10785.1 | 11662.2 | 10469.4 |
| 45° | 12203.7 | 11966.0 | 11066.8 | 10537.4 | 10461.4 | 10605.3 | 10741.2 | 11166.7 | 12273.6 | 13358.5 | 11844.1 |
| 47.5° | 12957.0 | 12727.1 | 11738.2 | 11222.6 | 11388.5 | 11606.3 | 11868.0 | 12541.3 | 13939.9 | 15110.7 | 13200.7 |
| 50° | 13550.4 | 13400.5 | 12415.5 | 12021.8 | 12409.5 | 12745.2 | 13172.7 | 14097.8 | 15674.2 | 16817.0 | 14457.4 |
| 52.5° | 14125.8 | 14013.9 | 13098.7 | 12841.0 | 13608.2 | 14071.8 | 14653.2 | 15768.0 | 17452.5 | 18495.4 | 15514.4 |
| 55° | 14645.2 | 14565.3 | 13834.0 | 13861.9 | 15018.9 | 15622.2 | 16353.5 | 17670.2 | 19390.5 | 19991.8 | 16409.3 |
| 57.5° | 15230.7 | 15128.7 | 14673.2 | 15142.6 | 16831.1 | 17614.2 | 18565.2 | 19807.9 | 21208.5 | 21322.4 | 17090.8 |
| 60° | 15820.1 | 15732.0 | 15604.3 | 16621.2 | 19132.7 | 19955.8 | 20856.9 | 21879.8 | 23052.8 | 22355.4 | 17050.8 |
| 62.5° | 16331.5 | 16341.4 | 16567.4 | 18173.6 | 21386.4 | 22339.4 | 23438.3 | 24449.3 | 24721.0 | 22535.2 | 15790.0 |
| 65° | 17198.6 | 17356.5 | 18029.8 | 20371.5 | 24559.2 | 25833.8 | 27182.5 | 27020.7 | 25182.5 | 20855.0 | 13086.8 |
| 67.5° | 18229.6 | 18507.3 | 19871.9 | 23300.4 | 28569.2 | 30261.5 | 30782.8 | 27602.1 | 23334.5 | 16952.9 | 9328.5 |
| 70° | 18125.7 | 18507.3 | 20667.1 | 25484.2 | 31873.8 | 33008.7 | 31426.2 | 24980.7 | 18529.2 | 11074.8 | 4955.1 |
| 72.5° | 16095.7 | 16641.2 | 19046.8 | 24483.2 | 30832.9 | 30733.0 | 27282.5 | 18623.2 | 11008.9 | 4447.5 | 1936.0 |
| 75° | 12267.7 | 12819.1 | 14889.0 | 19342.5 | 24369.4 | 23530.3 | 19358.5 | 10287.6 | 4177.7 | 1766.2 | 1220.7 |
| 77.5° | 7056.8 | 7484.5 | 9082.9 | 11861.9 | 15460.4 | 14599.3 | 10775.1 | 4575.3 | 2033.9 | 1230.8 | 953.0 |
| 80° | 3940.1 | 4177.7 | 5148.7 | 6017.9 | 7576.3 | 6944.9 | 4821.2 | 2843.1 | 1518.5 | 893.0 | 735.3 |
| 82.5° | 3114.9 | 3326.7 | 4163.9 | 3796.1 | 3460.5 | 3192.8 | 2769.2 | 2531.5 | 1212.8 | 563.4 | 439.5 |
| 85° | 2721.2 | 2923.1 | 3524.4 | 2989.0 | 2363.6 | 2167.8 | 2249.7 | 2491.4 | 943.0 | 339.6 | 375.6 |
| 87.5° | 2521.5 | 2791.2 | 3140.8 | 2303.7 | 1840.2 | 1630.3 | 2076.0 | 2731.2 | 303.6 | 211.8 | 151.9 |
| 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° | 5966.0 | 5966.0 | 5966.0 | 5966.0 | 5966.0 | 5966.0 | 5966.0 | 5966.0 | 5966.0 | 5966.0 | 5966.0 |
| 2.5° | 5894.0 | 5862.1 | 5810.1 | 5764.2 | 5692.3 | 5654.3 | 5612.3 | 5582.3 | 5558.4 | 5538.4 | 5570.4 |
| 5° | 5712.2 | 5652.2 | 5542.5 | 5424.5 | 5284.6 | 5174.7 | 5082.9 | 4996.9 | 4937.1 | 4897.1 | 4925.0 |
| 7.5° | 5540.3 | 5442.6 | 5270.6 | 5056.9 | 4817.2 | 4613.3 | 4445.5 | 4297.6 | 4195.8 | 4129.9 | 4155.7 |
| 10° | 5442.6 | 5320.7 | 5054.9 | 4719.2 | 4365.7 | 4047.9 | 3784.2 | 3556.4 | 3398.6 | 3308.6 | 3322.7 |
| 12.5° | 5418.5 | 5260.7 | 4893.1 | 4431.5 | 3948.1 | 3506.4 | 3134.8 | 2819.2 | 2597.4 | 2481.5 | 2485.5 |
| 15° | 5436.5 | 5234.8 | 4741.3 | 4155.7 | 3544.4 | 2987.0 | 2523.5 | 2139.9 | 1882.0 | 1750.3 | 1748.2 |
| 17.5° | 5466.5 | 5214.8 | 4581.4 | 3858.1 | 3134.8 | 2487.4 | 1970.1 | 1594.4 | 1366.6 | 1260.7 | 1252.7 |
| 20° | 5498.4 | 5182.9 | 4401.5 | 3536.4 | 2709.3 | 2023.9 | 1542.4 | 1248.7 | 1104.8 | 1047.0 | 1042.9 |
| 22.5° | 5544.3 | 5154.8 | 4215.7 | 3196.8 | 2291.7 | 1648.3 | 1268.8 | 1070.9 | 995.1 | 965.0 | 961.0 |
| 25° | 5618.3 | 5140.8 | 4017.9 | 2843.1 | 1916.1 | 1378.5 | 1104.8 | 983.0 | 939.1 | 919.1 | 917.1 |
| 27.5° | 5742.1 | 5160.9 | 3832.1 | 2499.4 | 1610.4 | 1196.8 | 1013.0 | 939.1 | 907.1 | 889.1 | 887.0 |
| 30° | 5902.0 | 5222.7 | 3636.2 | 2173.8 | 1372.6 | 1072.9 | 957.1 | 909.1 | 883.2 | 865.1 | 865.1 |
| 32.5° | 6167.8 | 5326.6 | 3430.5 | 1892.1 | 1202.8 | 987.0 | 915.1 | 883.2 | 861.1 | 847.1 | 845.1 |
| 35° | 6559.3 | 5522.4 | 3238.7 | 1658.4 | 1080.9 | 925.1 | 879.1 | 855.1 | 839.1 | 831.1 | 831.1 |
| 37.5° | 7128.8 | 5832.2 | 3068.9 | 1490.5 | 1007.0 | 883.2 | 845.1 | 827.2 | 817.2 | 817.2 | 817.2 |
| 40° | 7894.0 | 6259.7 | 2931.0 | 1378.5 | 965.0 | 853.1 | 819.2 | 805.2 | 799.2 | 801.2 | 801.2 |
| 42.5° | 8839.1 | 6815.1 | 2839.2 | 1300.7 | 945.0 | 835.2 | 801.2 | 789.3 | 783.2 | 781.3 | 783.2 |
| 45° | 9916.0 | 7446.5 | 2829.1 | 1242.7 | 925.1 | 823.1 | 789.3 | 777.3 | 765.3 | 757.2 | 757.2 |
| 47.5° | 10962.9 | 8087.8 | 2911.0 | 1222.8 | 903.1 | 809.3 | 779.2 | 767.2 | 749.2 | 731.3 | 731.3 |
| 50° | 11888.0 | 8633.3 | 3020.9 | 1230.8 | 895.2 | 789.3 | 763.2 | 757.2 | 729.2 | 709.3 | 707.2 |
| 52.5° | 12623.3 | 9052.8 | 3110.9 | 1254.8 | 903.1 | 775.1 | 743.3 | 745.2 | 715.3 | 693.3 | 691.2 |
| 55° | 13212.7 | 9328.5 | 3086.8 | 1278.6 | 921.0 | 767.2 | 725.3 | 729.2 | 705.3 | 683.3 | 683.3 |
| 57.5° | 13470.4 | 9226.8 | 2821.1 | 1258.7 | 935.0 | 769.2 | 711.3 | 727.3 | 707.2 | 687.4 | 687.4 |
| 60° | 12917.0 | 8321.5 | 2323.6 | 1170.9 | 917.1 | 763.2 | 705.3 | 735.3 | 733.2 | 713.3 | 711.3 |
| 62.5° | 11242.6 | 6701.3 | 1802.2 | 1041.0 | 855.1 | 733.2 | 689.3 | 733.2 | 755.2 | 749.2 | 747.2 |
| 65° | 8665.2 | 4773.1 | 1376.7 | 901.1 | 771.3 | 683.3 | 647.4 | 687.4 | 717.2 | 725.3 | 723.2 |
| 67.5° | 5624.3 | 2925.1 | 1060.9 | 769.2 | 677.3 | 625.4 | 593.4 | 611.3 | 617.3 | 617.3 | 613.5 |
| 70° | 2765.3 | 1574.4 | 845.1 | 647.4 | 581.5 | 563.4 | 545.5 | 535.5 | 525.5 | 517.5 | 517.5 |
| 72.5° | 1364.6 | 1029.0 | 695.3 | 547.4 | 501.6 | 493.4 | 489.4 | 477.4 | 469.5 | 459.6 | 455.5 |
| 75° | 1008.9 | 837.1 | 591.4 | 461.5 | 431.5 | 423.6 | 431.5 | 421.6 | 419.6 | 411.7 | 407.7 |
| 77.5° | 829.1 | 713.3 | 509.5 | 395.7 | 369.7 | 355.6 | 367.6 | 369.7 | 371.5 | 359.6 | 355.6 |
| 80° | 673.3 | 603.4 | 425.5 | 327.7 | 303.6 | 293.7 | 301.7 | 317.7 | 321.7 | 303.6 | 295.7 |
| 82.5° | 485.5 | 493.4 | 343.6 | 255.7 | 235.7 | 227.8 | 243.8 | 263.7 | 267.8 | 241.7 | 235.7 |
| 85° | 407.7 | 411.7 | 263.7 | 181.7 | 161.9 | 149.8 | 175.8 | 195.8 | 209.8 | 183.9 | 177.9 |
| 87.5° | 169.8 | 241.7 | 151.9 | 101.9 | 89.9 | 78.0 | 94.0 | 103.9 | 125.9 | 115.9 | 113.8 |
| 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)