

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: P319311

Luminaire Tested: **GAN-SA7A-730-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA 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: 29407 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

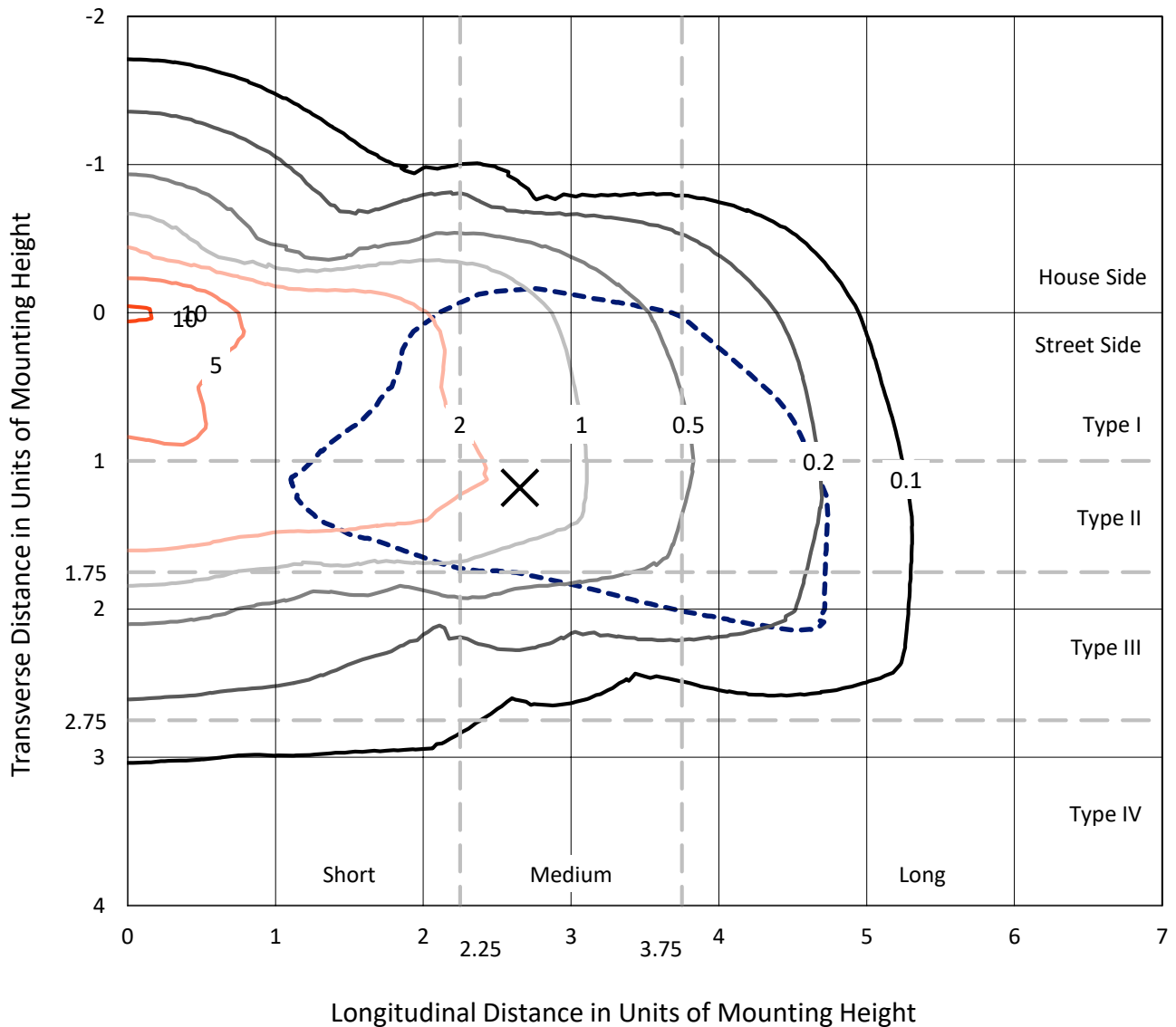
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

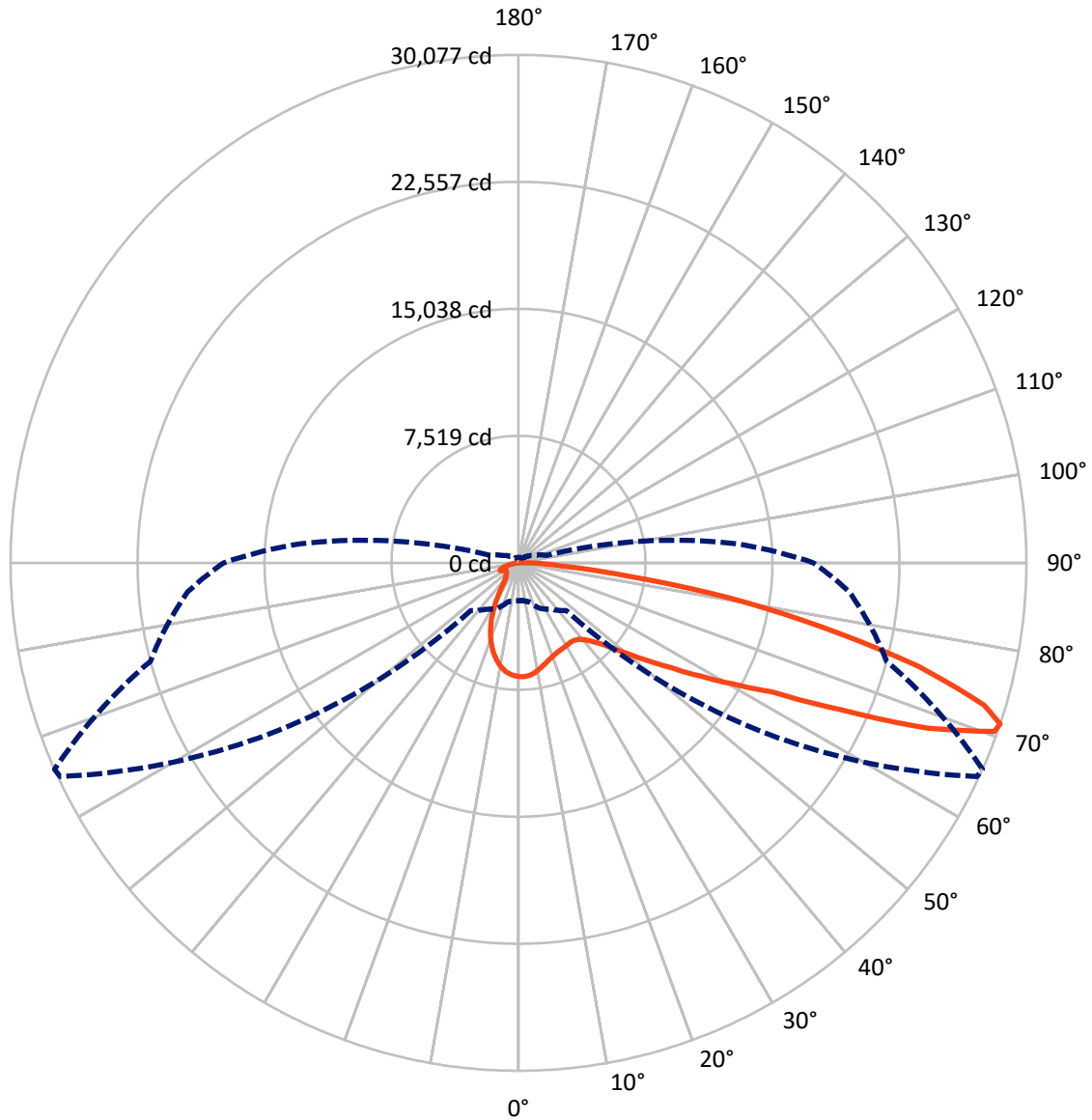
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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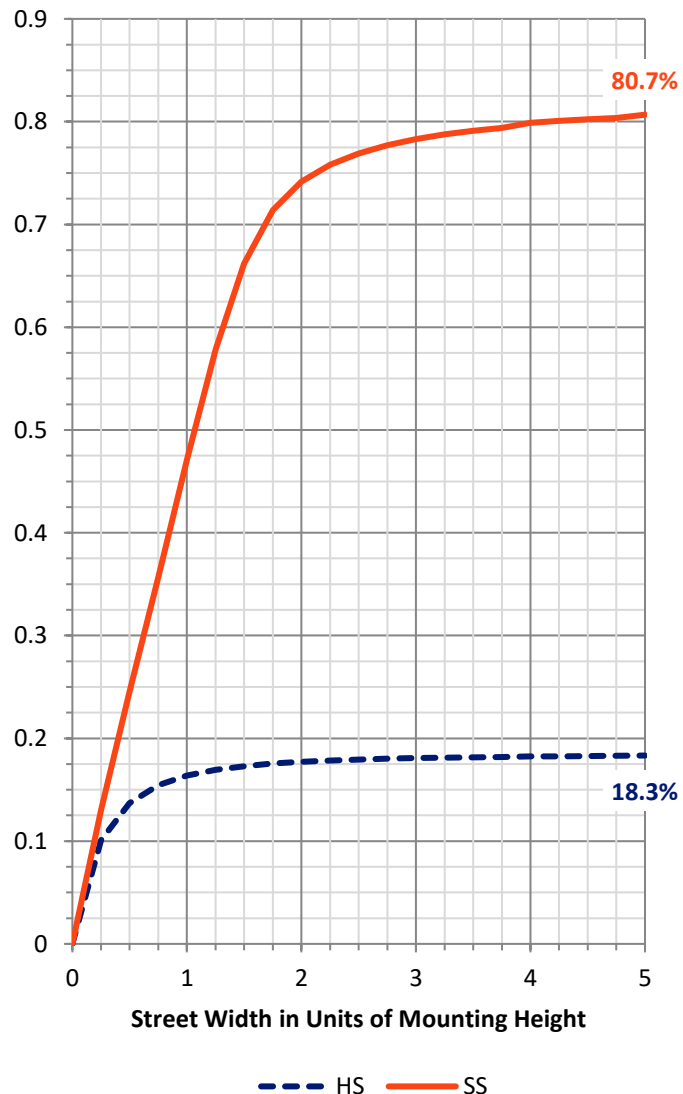
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5449.9 | 0.0 | 5449.9 |
| | % Fixture | 18.5 | 0.0 | 18.5 |
| Street Side | Lumens | 23957.1 | 0.0 | 23957.1 |
| | % Fixture | 81.5 | 0.0 | 81.5 |
| Total | Lumens | 29407.0 | 0.0 | 29407.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 593.0 | 2.0 |
| 10°-20° | 1422.2 | 4.8 |
| 20°-30° | 1910.4 | 6.5 |
| 30°-40° | 2513.1 | 8.5 |
| 40°-50° | 3655.9 | 12.4 |
| 50°-60° | 5710.9 | 19.4 |
| 60°-70° | 7153.8 | 24.3 |
| 70°-80° | 5456.8 | 18.6 |
| 80°-90° | 990.9 | 3.4 |
| 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° | 29407.0 | 100.0 |
| 0°-180° | 29407.0 | 100.0 |

Coefficient of Utilization

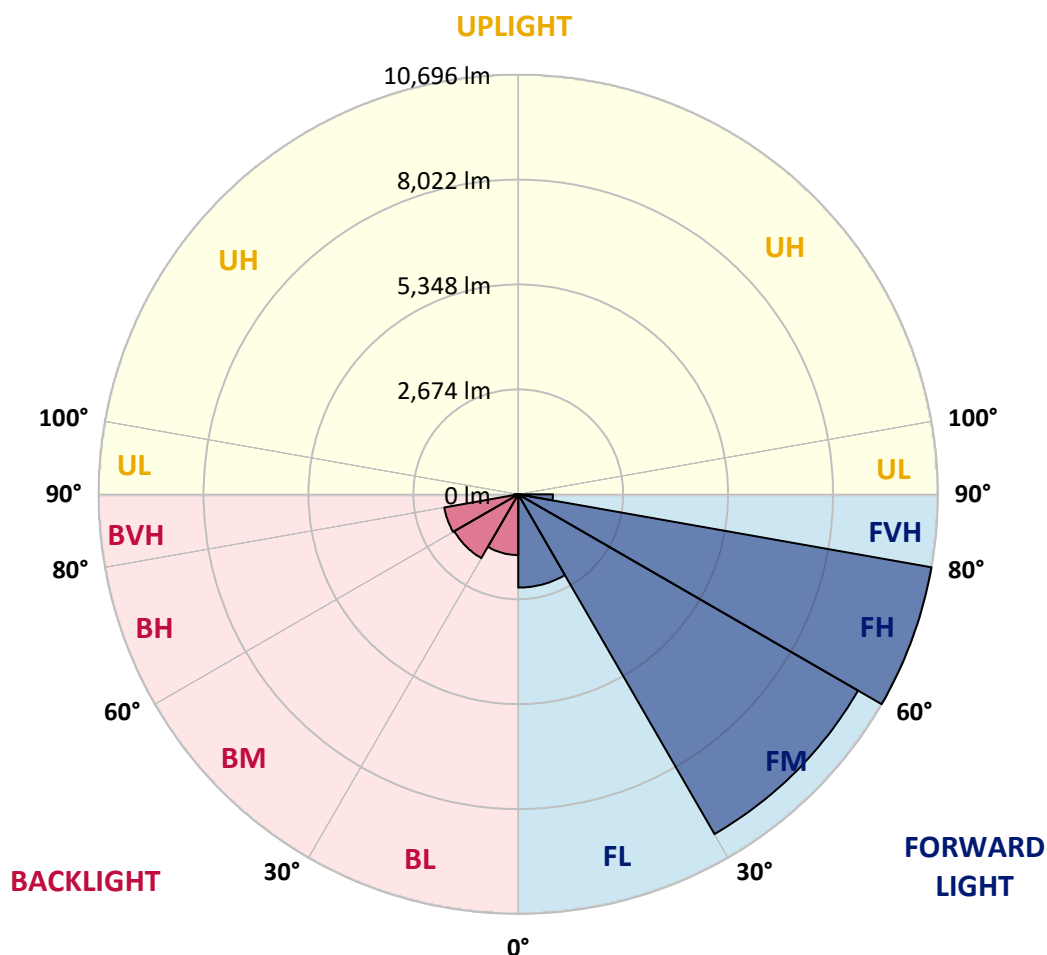


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2378.0 | 8.1 | | | |
| FM (30°-60°) | 9999.9 | 34.0 | | | |
| FH (60°-80°) | 10695.6 | 36.4 | | | G4/12000 |
| FVH (80°-90°) | 883.6 | 3.0 | | | G5 |
| BL (0°-30°) | 1547.6 | 5.3 | B3/2500 | | |
| BM (30°-60°) | 1880.0 | 6.4 | B2/2500 | | |
| BH (60°-80°) | 1915.0 | 6.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 107.3 | 0.4 | | | 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 III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6736.6 | 6736.6 | 6736.6 | 6736.6 | 6736.6 | 6736.6 | 6736.6 | 6736.6 | 6736.6 | 6736.6 | 6736.6 |
| 2.5° | 6611.7 | 6601.5 | 6632.0 | 6663.5 | 6675.7 | 6696.0 | 6726.4 | 6743.7 | 6742.7 | 6745.7 | 6735.6 |
| 5° | 6173.1 | 6159.9 | 6220.8 | 6270.5 | 6366.0 | 6473.6 | 6604.6 | 6698.0 | 6700.0 | 6752.8 | 6767.0 |
| 7.5° | 5757.8 | 5748.7 | 5818.7 | 5898.9 | 6009.6 | 6174.1 | 6386.3 | 6587.3 | 6599.5 | 6742.7 | 6792.4 |
| 10° | 5424.8 | 5422.8 | 5490.8 | 5578.1 | 5707.1 | 5890.8 | 6134.5 | 6428.9 | 6447.2 | 6693.9 | 6796.5 |
| 12.5° | 5164.9 | 5168.9 | 5227.8 | 5327.3 | 5463.4 | 5655.3 | 5919.3 | 6251.3 | 6280.7 | 6616.8 | 6773.1 |
| 15° | 4973.0 | 4989.2 | 5036.9 | 5137.5 | 5271.5 | 5466.4 | 5737.5 | 6086.8 | 6131.5 | 6530.5 | 6759.9 |
| 17.5° | 4863.3 | 4881.6 | 4915.1 | 4998.4 | 5124.3 | 5312.1 | 5569.0 | 5951.7 | 5992.4 | 6464.5 | 6760.9 |
| 20° | 4830.8 | 4846.1 | 4865.4 | 4916.1 | 5022.7 | 5193.3 | 5436.0 | 5829.9 | 5873.6 | 6411.7 | 6771.1 |
| 22.5° | 4894.8 | 4906.0 | 4908.0 | 4903.9 | 4968.9 | 5108.0 | 5339.5 | 5740.6 | 5787.3 | 6377.2 | 6778.2 |
| 25° | 5031.9 | 5047.1 | 5035.9 | 4998.4 | 4977.0 | 5062.3 | 5289.8 | 5681.7 | 5728.4 | 6351.8 | 6764.0 |
| 27.5° | 5238.0 | 5240.0 | 5230.9 | 5182.1 | 5081.6 | 5067.4 | 5274.5 | 5647.1 | 5691.8 | 6322.3 | 6734.5 |
| 30° | 5518.2 | 5531.4 | 5515.2 | 5449.2 | 5284.7 | 5148.6 | 5292.8 | 5613.6 | 5654.3 | 6284.8 | 6686.8 |
| 32.5° | 5846.1 | 5878.6 | 5877.6 | 5808.6 | 5573.0 | 5330.4 | 5367.9 | 5593.3 | 5624.8 | 6245.2 | 6629.0 |
| 35° | 6186.3 | 6231.0 | 6314.2 | 6284.8 | 5993.4 | 5617.7 | 5512.1 | 5625.8 | 5647.1 | 6240.1 | 6588.3 |
| 37.5° | 6539.6 | 6584.3 | 6755.9 | 6835.1 | 6493.9 | 6028.9 | 5739.5 | 5740.6 | 5750.7 | 6302.0 | 6585.3 |
| 40° | 6909.2 | 6956.9 | 7214.8 | 7420.9 | 7142.7 | 6549.8 | 6106.1 | 5980.2 | 5969.0 | 6454.3 | 6645.2 |
| 42.5° | 7427.0 | 7469.6 | 7779.3 | 8042.3 | 7862.6 | 7216.8 | 6612.7 | 6349.7 | 6326.4 | 6752.8 | 6837.1 |
| 45° | 8081.9 | 8118.4 | 8447.4 | 8728.6 | 8636.2 | 7978.3 | 7249.3 | 6858.4 | 6854.4 | 7250.3 | 7226.0 |
| 47.5° | 8860.6 | 8889.0 | 9184.5 | 9456.6 | 9490.1 | 8854.5 | 8049.4 | 7643.2 | 7577.3 | 7932.6 | 7828.0 |
| 50° | 9671.8 | 9703.3 | 9904.3 | 10196.7 | 10445.5 | 10027.2 | 9078.9 | 8604.7 | 8516.4 | 8833.2 | 8680.9 |
| 52.5° | 10208.9 | 10250.6 | 10425.2 | 10795.8 | 11519.7 | 11312.6 | 10296.2 | 9770.3 | 9636.3 | 9924.6 | 9807.9 |
| 55° | 9969.3 | 10062.7 | 10329.8 | 10923.7 | 12378.6 | 13276.2 | 11797.9 | 11129.8 | 10978.5 | 11218.1 | 11149.1 |
| 57.5° | 8879.9 | 9007.8 | 9372.3 | 10289.1 | 12499.5 | 15006.3 | 14068.1 | 12731.0 | 12624.4 | 12555.3 | 12586.8 |
| 60° | 6888.9 | 7011.7 | 7463.5 | 8658.6 | 11657.8 | 16269.3 | 17484.6 | 14704.7 | 14550.4 | 13897.5 | 13926.0 |
| 62.5° | 4875.5 | 4813.6 | 5123.2 | 5997.4 | 9472.8 | 16417.5 | 21372.3 | 17344.5 | 16836.9 | 15314.9 | 15190.0 |
| 65° | 3718.1 | 3703.8 | 3842.9 | 4121.1 | 5737.5 | 14643.8 | 23688.2 | 21781.4 | 20988.5 | 16982.1 | 16687.6 |
| 67.5° | 3055.1 | 3029.7 | 3166.7 | 3571.9 | 3694.7 | 9447.4 | 23738.9 | 26929.0 | 26150.3 | 19057.3 | 18419.7 |
| 70° | 2511.9 | 2483.4 | 2611.4 | 3134.3 | 3414.5 | 4791.2 | 19979.2 | 29943.5 | 29901.9 | 21685.0 | 19727.5 |
| 71° | 2252.0 | 2231.6 | 2385.0 | 2965.7 | 3354.6 | 3993.2 | 17250.1 | 29951.6 | 30076.5 | 22574.4 | 19650.3 |
| 72.5° | 1833.6 | 1840.8 | 2003.2 | 2639.8 | 3309.9 | 3526.2 | 12678.2 | 28555.6 | 28819.5 | 23422.2 | 18948.7 |
| 75° | 1218.4 | 1224.5 | 1437.7 | 2030.6 | 3209.4 | 3450.0 | 6968.1 | 23961.3 | 24446.6 | 22914.5 | 17290.7 |
| 77.5° | 818.3 | 816.3 | 961.5 | 1393.0 | 2796.2 | 3450.0 | 4085.6 | 17921.2 | 18454.3 | 18232.9 | 13330.0 |
| 80° | 563.5 | 559.4 | 662.0 | 961.5 | 2116.9 | 3491.6 | 3158.6 | 12559.4 | 12720.8 | 9846.5 | 5417.7 |
| 82.5° | 345.2 | 348.3 | 432.5 | 679.2 | 1440.7 | 3142.4 | 2982.0 | 6848.3 | 6672.6 | 2761.6 | 1353.4 |
| 85° | 198.0 | 197.0 | 276.2 | 459.9 | 924.9 | 2652.0 | 2907.8 | 2947.4 | 2703.8 | 831.5 | 489.4 |
| 87.5° | 71.1 | 76.1 | 148.2 | 254.8 | 530.0 | 1846.8 | 2467.2 | 1533.1 | 1381.8 | 375.7 | 221.3 |
| 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° | 6736.6 | 6736.6 | 6736.6 | 6736.6 | 6736.6 | 6736.6 | 6736.6 | 6736.6 | 6736.6 | 6736.6 | 6736.6 |
| 2.5° | 6728.5 | 6734.5 | 6727.4 | 6686.8 | 6652.3 | 6596.5 | 6565.0 | 6521.3 | 6508.1 | 6502.0 | 6518.3 |
| 5° | 6753.8 | 6755.9 | 6696.0 | 6589.4 | 6469.5 | 6328.4 | 6226.9 | 6102.0 | 6043.1 | 6017.7 | 6034.0 |
| 7.5° | 6777.2 | 6768.0 | 6637.1 | 6433.0 | 6211.7 | 5966.0 | 5747.7 | 5547.6 | 5430.9 | 5383.2 | 5387.2 |
| 10° | 6780.2 | 6741.7 | 6531.5 | 6215.7 | 5872.5 | 5512.1 | 5177.1 | 4868.4 | 4673.5 | 4546.6 | 4585.1 |
| 12.5° | 6748.8 | 6683.8 | 6376.1 | 5934.5 | 5458.3 | 4966.9 | 4514.1 | 4051.1 | 3772.9 | 3643.9 | 3648.0 |
| 15° | 6724.4 | 6606.6 | 6185.3 | 5603.5 | 4963.8 | 4313.0 | 3694.7 | 3150.5 | 2854.0 | 2722.0 | 2660.1 |
| 17.5° | 6704.1 | 6523.4 | 5963.9 | 5230.9 | 4380.0 | 3554.6 | 2811.4 | 2326.1 | 2163.6 | 2125.0 | 2108.8 |
| 20° | 6675.7 | 6435.0 | 5717.2 | 4799.4 | 3715.0 | 2705.8 | 2053.0 | 1813.3 | 1814.4 | 1859.0 | 1865.1 |
| 22.5° | 6636.1 | 6334.5 | 5454.2 | 4315.1 | 3001.3 | 1970.7 | 1609.3 | 1540.2 | 1610.3 | 1695.6 | 1710.8 |
| 25° | 6577.2 | 6215.7 | 5161.8 | 3780.0 | 2288.5 | 1514.8 | 1374.7 | 1371.7 | 1457.0 | 1546.3 | 1559.5 |
| 27.5° | 6493.9 | 6060.4 | 4836.9 | 3205.3 | 1686.4 | 1287.4 | 1231.6 | 1252.9 | 1315.8 | 1380.8 | 1385.9 |
| 30° | 6382.2 | 5879.7 | 4478.5 | 2599.2 | 1321.9 | 1146.3 | 1140.2 | 1159.5 | 1198.1 | 1243.8 | 1247.8 |
| 32.5° | 6259.4 | 5695.9 | 4095.8 | 2012.3 | 1132.1 | 1070.1 | 1076.2 | 1085.4 | 1103.6 | 1121.9 | 1126.0 |
| 35° | 6147.7 | 5508.1 | 3703.8 | 1529.1 | 1041.7 | 1020.4 | 1016.3 | 1014.3 | 1016.3 | 1010.2 | 1011.2 |
| 37.5° | 6075.6 | 5352.7 | 3295.7 | 1217.4 | 989.9 | 976.7 | 964.5 | 949.3 | 932.1 | 921.9 | 923.9 |
| 40° | 6049.2 | 5237.0 | 2882.5 | 1051.9 | 947.3 | 938.1 | 914.8 | 882.3 | 862.0 | 855.9 | 855.9 |
| 42.5° | 6120.3 | 5177.1 | 2483.4 | 968.6 | 911.7 | 896.5 | 857.9 | 820.4 | 805.1 | 804.1 | 803.1 |
| 45° | 6337.6 | 5201.4 | 2103.7 | 922.9 | 879.3 | 849.8 | 799.0 | 767.6 | 757.4 | 759.5 | 758.4 |
| 47.5° | 6727.4 | 5354.7 | 1778.8 | 892.5 | 846.8 | 808.2 | 751.3 | 725.9 | 713.8 | 713.8 | 714.8 |
| 50° | 7390.4 | 5713.1 | 1519.9 | 867.1 | 819.4 | 769.6 | 716.8 | 685.3 | 669.1 | 668.1 | 668.1 |
| 52.5° | 8356.0 | 6354.8 | 1358.5 | 845.8 | 788.9 | 735.1 | 682.3 | 642.7 | 623.4 | 619.3 | 617.3 |
| 55° | 9566.2 | 7274.7 | 1313.8 | 831.5 | 748.3 | 697.5 | 640.7 | 601.1 | 579.7 | 570.6 | 569.6 |
| 57.5° | 10919.6 | 8393.6 | 1402.1 | 814.3 | 706.7 | 652.8 | 595.0 | 557.4 | 535.1 | 523.9 | 522.9 |
| 60° | 12289.3 | 9615.0 | 1762.6 | 789.9 | 672.1 | 604.1 | 548.3 | 513.7 | 491.4 | 479.2 | 477.2 |
| 62.5° | 13661.0 | 10902.4 | 2498.7 | 787.9 | 647.8 | 557.4 | 500.5 | 471.1 | 449.8 | 436.6 | 433.5 |
| 65° | 15208.3 | 12311.6 | 3335.3 | 841.7 | 639.6 | 514.8 | 451.8 | 428.5 | 410.2 | 398.0 | 397.0 |
| 67.5° | 16985.1 | 13902.6 | 3255.1 | 952.4 | 667.1 | 476.2 | 406.1 | 387.8 | 374.6 | 364.5 | 363.5 |
| 70° | 17818.7 | 13653.9 | 2023.5 | 1030.5 | 705.6 | 438.6 | 362.5 | 349.3 | 339.1 | 332.0 | 329.0 |
| 71° | 17469.4 | 12964.5 | 1696.6 | 1021.4 | 701.6 | 422.4 | 345.2 | 335.1 | 324.9 | 318.8 | 315.8 |
| 72.5° | 16517.0 | 11823.3 | 1415.3 | 950.3 | 655.9 | 392.9 | 322.9 | 312.7 | 303.6 | 296.5 | 294.4 |
| 75° | 14821.5 | 10559.2 | 1133.1 | 759.5 | 522.9 | 332.0 | 283.3 | 272.1 | 265.0 | 260.9 | 256.9 |
| 77.5° | 10895.3 | 7535.6 | 876.2 | 600.0 | 384.8 | 271.1 | 241.6 | 233.5 | 226.4 | 220.3 | 217.3 |
| 80° | 4173.9 | 2919.0 | 589.9 | 447.8 | 282.3 | 214.2 | 194.9 | 190.9 | 183.8 | 179.7 | 179.7 |
| 82.5° | 1123.9 | 872.2 | 314.7 | 271.1 | 188.8 | 156.4 | 149.3 | 147.2 | 141.1 | 133.0 | 134.0 |
| 85° | 454.9 | 384.8 | 176.7 | 149.3 | 115.7 | 92.4 | 100.5 | 101.5 | 94.4 | 84.3 | 85.3 |
| 87.5° | 200.0 | 163.5 | 98.5 | 66.0 | 50.8 | 35.5 | 45.7 | 45.7 | 41.6 | 34.5 | 31.5 |
| 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)