

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: P456696

Luminaire Tested: **GLAN-SA8A-727-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8A-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25404 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

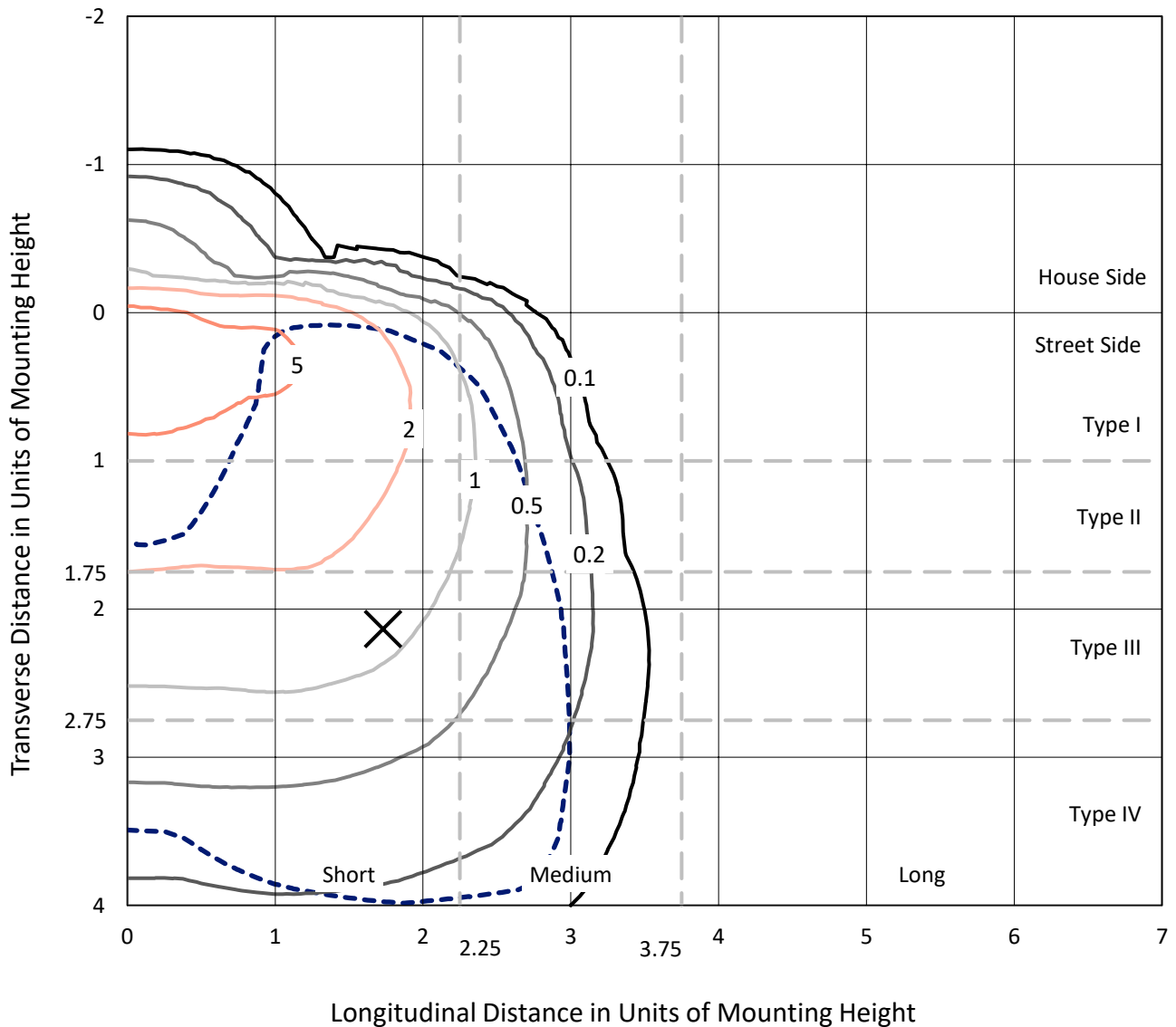
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

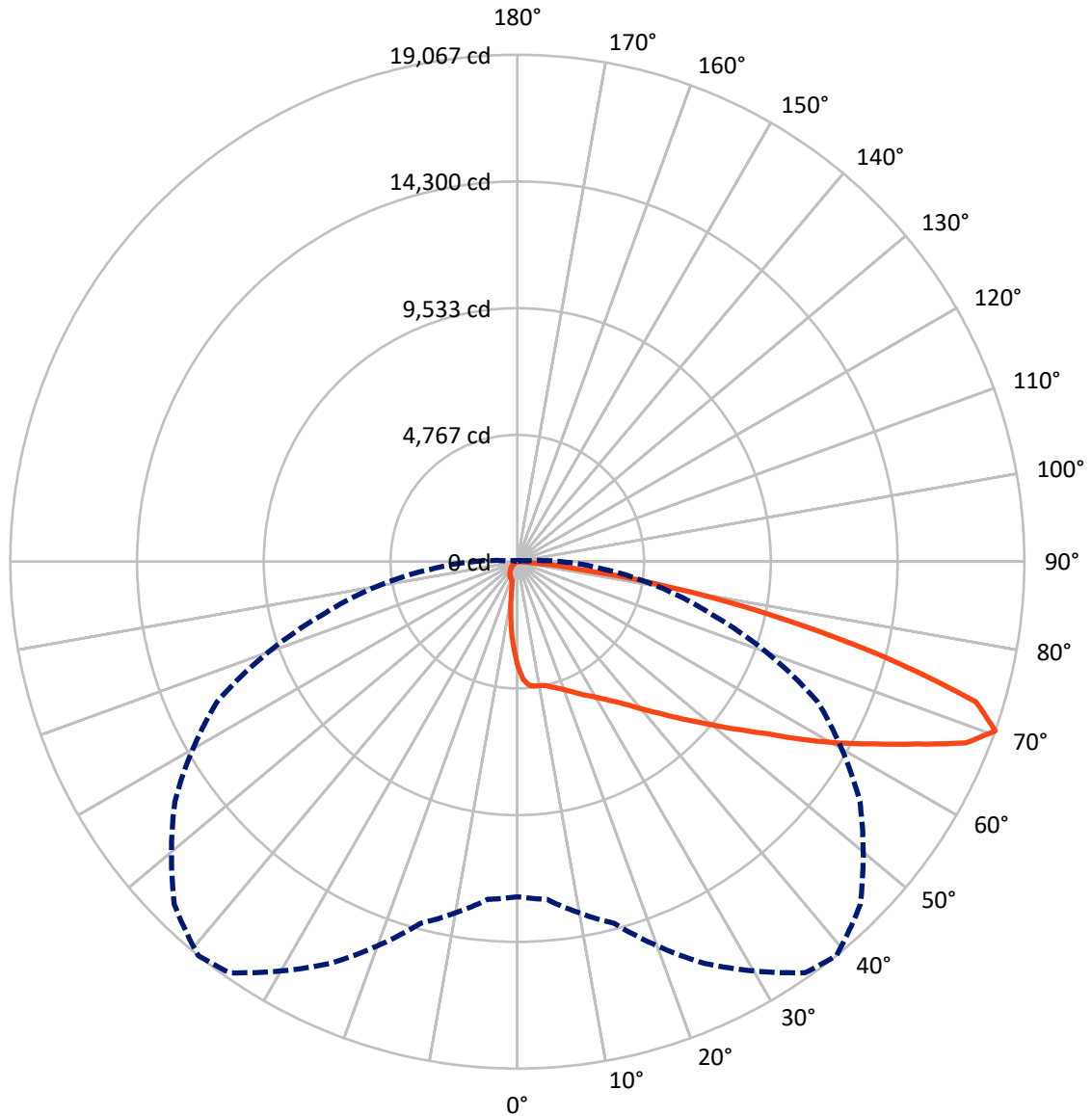
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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



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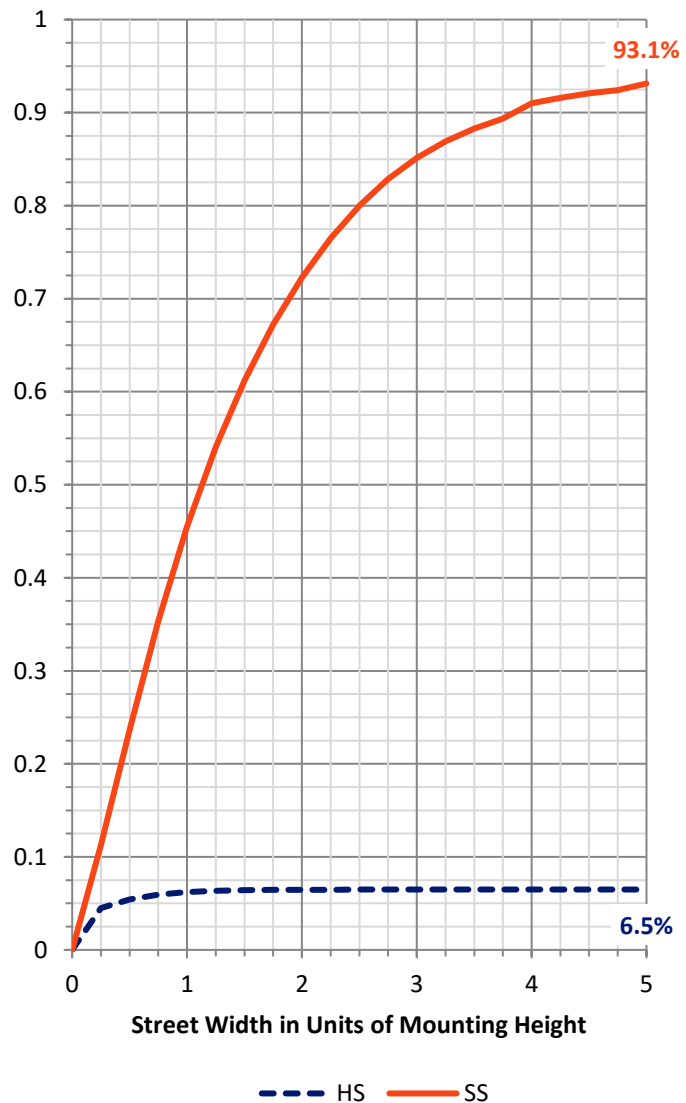
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1656.4 | 0.0 | 1656.4 |
| | % Fixture | 6.5 | 0.0 | 6.5 |
| Street Side | Lumens | 23747.5 | 0.0 | 23747.5 |
| | % Fixture | 93.5 | 0.0 | 93.5 |
| Total | Lumens | 25404.0 | 0.0 | 25404.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 338.1 | 1.3 |
| 10°-20° | 878.6 | 3.5 |
| 20°-30° | 1471.9 | 5.8 |
| 30°-40° | 2282.7 | 9.0 |
| 40°-50° | 3617.5 | 14.2 |
| 50°-60° | 5302.7 | 20.9 |
| 60°-70° | 6796.7 | 26.8 |
| 70°-80° | 4270.8 | 16.8 |
| 80°-90° | 444.9 | 1.8 |
| 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° | 25404.0 | 100.0 |
| 0°-180° | 25404.0 | 100.0 |



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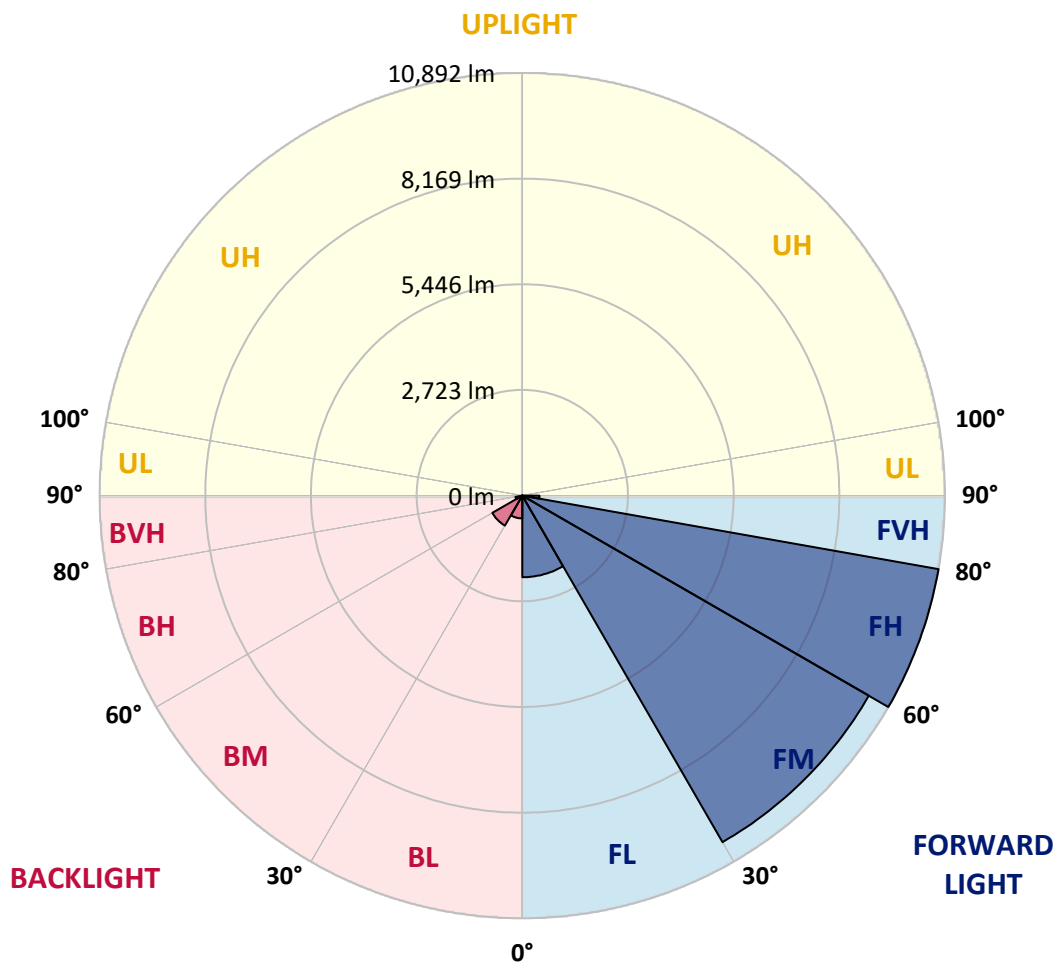
CATALOG NUMBER: GLAN-SA8A-727-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2102.1 | 8.3 | | | |
| FM (30°-60°) | 10311.4 | 40.6 | | | |
| FH (60°-80°) | 10892.4 | 42.9 | | | G4/12000 |
| FVH (80°-90°) | 441.6 | 1.7 | | | G3/500 |
| BL (0°-30°) | 586.5 | 2.3 | B2/1000 | | |
| BM (30°-60°) | 891.5 | 3.5 | B1/1000 | | |
| BH (60°-80°) | 175.2 | 0.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.3 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3963.9 | 3963.9 | 3963.9 | 3963.9 | 3963.9 | 3963.9 | 3963.9 | 3963.9 | 3963.9 | 3963.9 | 3963.9 |
| 2.5° | 4580.2 | 4564.8 | 4544.3 | 4520.4 | 4452.1 | 4440.2 | 4399.2 | 4312.1 | 4208.0 | 4122.7 | 4004.9 |
| 5° | 4797.0 | 4805.5 | 4790.1 | 4747.5 | 4698.0 | 4668.9 | 4617.7 | 4482.9 | 4348.0 | 4175.6 | 3982.7 |
| 7.5° | 4846.5 | 4863.5 | 4844.8 | 4803.8 | 4756.0 | 4725.3 | 4684.3 | 4568.2 | 4411.2 | 4214.8 | 3950.2 |
| 10° | 4841.3 | 4861.8 | 4849.9 | 4812.3 | 4773.1 | 4744.0 | 4699.7 | 4607.5 | 4481.1 | 4274.6 | 3960.5 |
| 12.5° | 4832.8 | 4860.1 | 4858.4 | 4839.6 | 4807.2 | 4785.0 | 4757.7 | 4675.8 | 4558.0 | 4361.7 | 4016.8 |
| 15° | 4808.9 | 4843.1 | 4873.8 | 4889.1 | 4890.9 | 4890.9 | 4856.7 | 4769.6 | 4657.0 | 4476.0 | 4090.2 |
| 17.5° | 4819.2 | 4858.4 | 4935.2 | 4979.6 | 5010.4 | 5006.9 | 4971.1 | 4877.2 | 4752.6 | 4593.8 | 4167.0 |
| 20° | 4882.3 | 4935.2 | 5042.8 | 5131.6 | 5162.3 | 5152.0 | 5104.2 | 4995.0 | 4853.3 | 4694.5 | 4242.2 |
| 22.5° | 5037.7 | 5085.5 | 5220.3 | 5324.5 | 5346.6 | 5319.3 | 5251.1 | 5102.5 | 4974.5 | 4803.8 | 4332.6 |
| 25° | 5269.8 | 5326.2 | 5450.8 | 5529.3 | 5529.3 | 5513.9 | 5418.3 | 5244.2 | 5111.1 | 4955.7 | 4450.4 |
| 27.5° | 5551.5 | 5599.3 | 5722.2 | 5792.2 | 5751.2 | 5706.8 | 5611.3 | 5401.3 | 5273.2 | 5146.9 | 4592.1 |
| 30° | 5836.6 | 5867.3 | 5997.1 | 6027.8 | 5985.1 | 5928.8 | 5826.3 | 5616.4 | 5503.7 | 5406.4 | 4797.0 |
| 32.5° | 6106.3 | 6172.9 | 6280.4 | 6273.6 | 6215.6 | 6188.3 | 6094.4 | 5870.7 | 5807.6 | 5797.3 | 5083.8 |
| 35° | 6376.0 | 6427.2 | 6522.8 | 6546.7 | 6495.5 | 6490.4 | 6422.1 | 6256.5 | 6258.2 | 6324.8 | 5531.0 |
| 37.5° | 6608.2 | 6654.3 | 6767.0 | 6819.9 | 6830.1 | 6855.7 | 6828.4 | 6719.2 | 6874.5 | 7057.2 | 6123.4 |
| 40° | 6802.8 | 6867.7 | 7011.1 | 7103.3 | 7209.1 | 7303.0 | 7308.1 | 7332.0 | 7644.4 | 7958.5 | 6896.7 |
| 42.5° | 6954.7 | 7045.2 | 7253.5 | 7424.2 | 7666.6 | 7786.1 | 7881.7 | 8013.1 | 8538.9 | 9008.4 | 7808.3 |
| 45° | 7152.8 | 7256.9 | 7516.4 | 7784.4 | 8163.4 | 8359.7 | 8492.8 | 8844.5 | 9590.5 | 10230.7 | 8743.8 |
| 47.5° | 7480.5 | 7535.2 | 7799.8 | 8190.7 | 8689.2 | 8969.1 | 9228.6 | 9761.2 | 10718.9 | 11292.5 | 9522.2 |
| 50° | 7902.2 | 7938.0 | 8137.8 | 8680.6 | 9325.9 | 9694.6 | 10167.5 | 10794.0 | 11890.0 | 12173.4 | 9962.7 |
| 52.5° | 8368.2 | 8380.2 | 8530.4 | 9220.1 | 10039.5 | 10503.8 | 11033.0 | 11806.3 | 12844.3 | 12801.6 | 10254.6 |
| 55° | 8909.4 | 8892.3 | 9020.3 | 9805.6 | 10884.5 | 11415.4 | 12031.7 | 12842.5 | 13672.2 | 13247.1 | 10421.9 |
| 57.5° | 9529.1 | 9483.0 | 9607.6 | 10582.3 | 11966.8 | 12601.8 | 13228.3 | 13737.1 | 14314.1 | 13621.0 | 10502.1 |
| 60° | 10177.8 | 10085.6 | 10234.1 | 11454.7 | 13242.0 | 13844.6 | 14365.3 | 14501.8 | 14990.1 | 13918.0 | 10363.8 |
| 62.5° | 10695.0 | 10696.7 | 10973.3 | 12383.3 | 14553.1 | 15080.6 | 15357.1 | 15480.0 | 15572.2 | 13853.1 | 9636.6 |
| 65° | 11502.5 | 11529.8 | 11971.9 | 13672.2 | 16070.7 | 16528.2 | 16717.7 | 16318.2 | 15597.8 | 13047.4 | 8544.1 |
| 67.5° | 12335.5 | 12422.6 | 13231.8 | 15447.6 | 17823.9 | 18192.6 | 17948.5 | 16480.4 | 14901.3 | 11208.8 | 6478.5 |
| 70° | 12607.0 | 12750.4 | 14083.6 | 16669.9 | 18875.4 | 19066.6 | 18240.4 | 15724.1 | 12456.7 | 7494.2 | 3260.6 |
| 72.5° | 11552.0 | 11784.1 | 13593.7 | 16224.3 | 18204.6 | 18039.0 | 16319.9 | 13187.4 | 7919.3 | 2845.7 | 995.2 |
| 75° | 8146.3 | 8248.7 | 11297.6 | 13458.8 | 14641.8 | 14172.4 | 12414.1 | 8501.4 | 3257.2 | 798.9 | 341.4 |
| 77.5° | 4206.3 | 4156.8 | 6719.2 | 8929.9 | 10442.4 | 9955.8 | 8129.2 | 4400.9 | 1234.2 | 332.9 | 211.7 |
| 80° | 2174.9 | 2210.7 | 2907.2 | 4679.2 | 6374.3 | 5865.6 | 4334.3 | 2040.0 | 657.2 | 184.4 | 162.2 |
| 82.5° | 1218.9 | 1143.8 | 1671.3 | 2043.4 | 2980.6 | 2337.0 | 1662.7 | 1444.2 | 286.8 | 111.0 | 153.6 |
| 85° | 221.9 | 232.2 | 916.7 | 1104.5 | 1034.5 | 657.2 | 536.0 | 964.5 | 83.6 | 61.5 | 107.5 |
| 87.5° | 3.4 | 3.4 | 177.5 | 317.5 | 201.4 | 92.2 | 169.0 | 138.3 | 17.1 | 23.9 | 18.8 |
| 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° | 3963.9 | 3963.9 | 3963.9 | 3963.9 | 3963.9 | 3963.9 | 3963.9 | 3963.9 | 3963.9 | 3963.9 | 3963.9 |
| 2.5° | 3945.1 | 3880.2 | 3759.0 | 3639.5 | 3487.6 | 3363.0 | 3279.3 | 3192.3 | 3103.5 | 3110.3 | 3130.8 |
| 5° | 3876.8 | 3764.2 | 3525.2 | 3272.5 | 3030.1 | 2811.6 | 2596.5 | 2403.6 | 2325.1 | 2253.4 | 2256.8 |
| 7.5° | 3808.5 | 3649.8 | 3299.8 | 2903.8 | 2536.8 | 2164.6 | 1894.9 | 1673.0 | 1555.2 | 1466.4 | 1440.8 |
| 10° | 3777.8 | 3567.8 | 3093.3 | 2548.7 | 2028.0 | 1621.7 | 1275.2 | 1094.3 | 954.3 | 909.9 | 921.8 |
| 12.5° | 3791.5 | 3526.9 | 2907.2 | 2227.8 | 1608.1 | 1130.1 | 887.7 | 795.5 | 764.8 | 759.7 | 756.2 |
| 15° | 3817.1 | 3497.9 | 2724.5 | 1872.7 | 1181.3 | 839.9 | 746.0 | 728.9 | 725.5 | 722.1 | 723.8 |
| 17.5° | 3851.2 | 3472.2 | 2529.9 | 1539.8 | 906.5 | 734.1 | 706.7 | 698.2 | 696.5 | 696.5 | 696.5 |
| 20° | 3885.4 | 3443.2 | 2313.1 | 1242.8 | 756.2 | 693.1 | 676.0 | 670.9 | 669.2 | 669.2 | 667.5 |
| 22.5° | 3924.6 | 3417.6 | 2092.9 | 976.5 | 696.5 | 664.1 | 648.7 | 645.3 | 643.6 | 641.9 | 641.9 |
| 25° | 3981.0 | 3385.2 | 1859.0 | 798.9 | 658.9 | 636.7 | 621.4 | 618.0 | 616.3 | 609.4 | 611.1 |
| 27.5° | 4056.1 | 3361.3 | 1618.3 | 689.7 | 624.8 | 602.6 | 592.4 | 587.2 | 583.8 | 578.7 | 580.4 |
| 30° | 4158.5 | 3340.8 | 1362.3 | 629.9 | 585.5 | 566.8 | 556.5 | 553.1 | 549.7 | 544.6 | 544.6 |
| 32.5° | 4336.0 | 3349.3 | 1092.5 | 582.1 | 549.7 | 527.5 | 517.3 | 513.8 | 510.4 | 505.3 | 505.3 |
| 35° | 4602.4 | 3398.8 | 874.0 | 541.2 | 507.0 | 484.8 | 474.6 | 474.6 | 469.5 | 462.6 | 460.9 |
| 37.5° | 5037.7 | 3525.2 | 701.6 | 501.9 | 466.0 | 445.6 | 433.6 | 430.2 | 425.1 | 414.8 | 413.1 |
| 40° | 5551.5 | 3721.5 | 590.7 | 462.6 | 428.5 | 408.0 | 397.8 | 387.5 | 373.9 | 363.6 | 361.9 |
| 42.5° | 6196.8 | 3922.9 | 512.1 | 423.4 | 392.6 | 373.9 | 361.9 | 344.8 | 324.3 | 310.7 | 309.0 |
| 45° | 6869.4 | 4107.3 | 459.2 | 387.5 | 358.5 | 343.1 | 329.5 | 302.2 | 276.6 | 259.5 | 257.8 |
| 47.5° | 7371.3 | 4141.4 | 416.5 | 353.4 | 329.5 | 314.1 | 295.3 | 261.2 | 227.0 | 211.7 | 206.6 |
| 50° | 7608.6 | 3975.8 | 372.1 | 319.2 | 300.5 | 283.4 | 259.5 | 220.2 | 182.7 | 163.9 | 160.5 |
| 52.5° | 7692.2 | 3689.1 | 336.3 | 288.5 | 271.4 | 250.9 | 221.9 | 177.5 | 143.4 | 124.6 | 122.9 |
| 55° | 7658.1 | 3327.1 | 303.9 | 259.5 | 237.3 | 213.4 | 184.4 | 141.7 | 105.8 | 90.5 | 87.1 |
| 57.5° | 7478.8 | 2866.2 | 271.4 | 230.5 | 203.1 | 179.2 | 146.8 | 105.8 | 71.7 | 58.0 | 56.3 |
| 60° | 6995.7 | 2238.0 | 239.0 | 198.0 | 172.4 | 146.8 | 116.1 | 75.1 | 44.4 | 32.4 | 32.4 |
| 62.5° | 6179.7 | 1661.0 | 208.3 | 165.6 | 145.1 | 117.8 | 81.9 | 47.8 | 23.9 | 17.1 | 15.4 |
| 65° | 5164.0 | 1225.7 | 174.1 | 140.0 | 121.2 | 92.2 | 58.0 | 29.0 | 11.9 | 5.1 | 3.4 |
| 67.5° | 3603.7 | 756.2 | 145.1 | 114.4 | 99.0 | 66.6 | 35.8 | 11.9 | 5.1 | 0.0 | 0.0 |
| 70° | 1637.1 | 360.2 | 111.0 | 87.1 | 75.1 | 47.8 | 18.8 | 6.8 | 3.4 | 0.0 | 0.0 |
| 72.5° | 508.7 | 189.5 | 78.5 | 63.2 | 51.2 | 30.7 | 10.2 | 5.1 | 3.4 | 0.0 | 0.0 |
| 75° | 235.6 | 121.2 | 49.5 | 34.1 | 29.0 | 15.4 | 6.8 | 3.4 | 1.7 | 0.0 | 0.0 |
| 77.5° | 175.8 | 93.9 | 29.0 | 18.8 | 15.4 | 10.2 | 5.1 | 3.4 | 1.7 | 0.0 | 0.0 |
| 80° | 153.6 | 47.8 | 17.1 | 11.9 | 8.5 | 6.8 | 3.4 | 1.7 | 0.0 | 0.0 | 0.0 |
| 82.5° | 138.3 | 23.9 | 10.2 | 6.8 | 5.1 | 3.4 | 1.7 | 1.7 | 0.0 | 0.0 | 0.0 |
| 85° | 75.1 | 13.7 | 6.8 | 5.1 | 3.4 | 1.7 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 13.7 | 6.8 | 5.1 | 3.4 | 3.4 | 1.7 | 1.7 | 1.7 | 0.0 | 0.0 | 0.0 |
| 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)