

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: McGRAW-EDISON

Report Number: P529793

Luminaire Tested: **GALN-SA5A-727-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-727-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11201 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

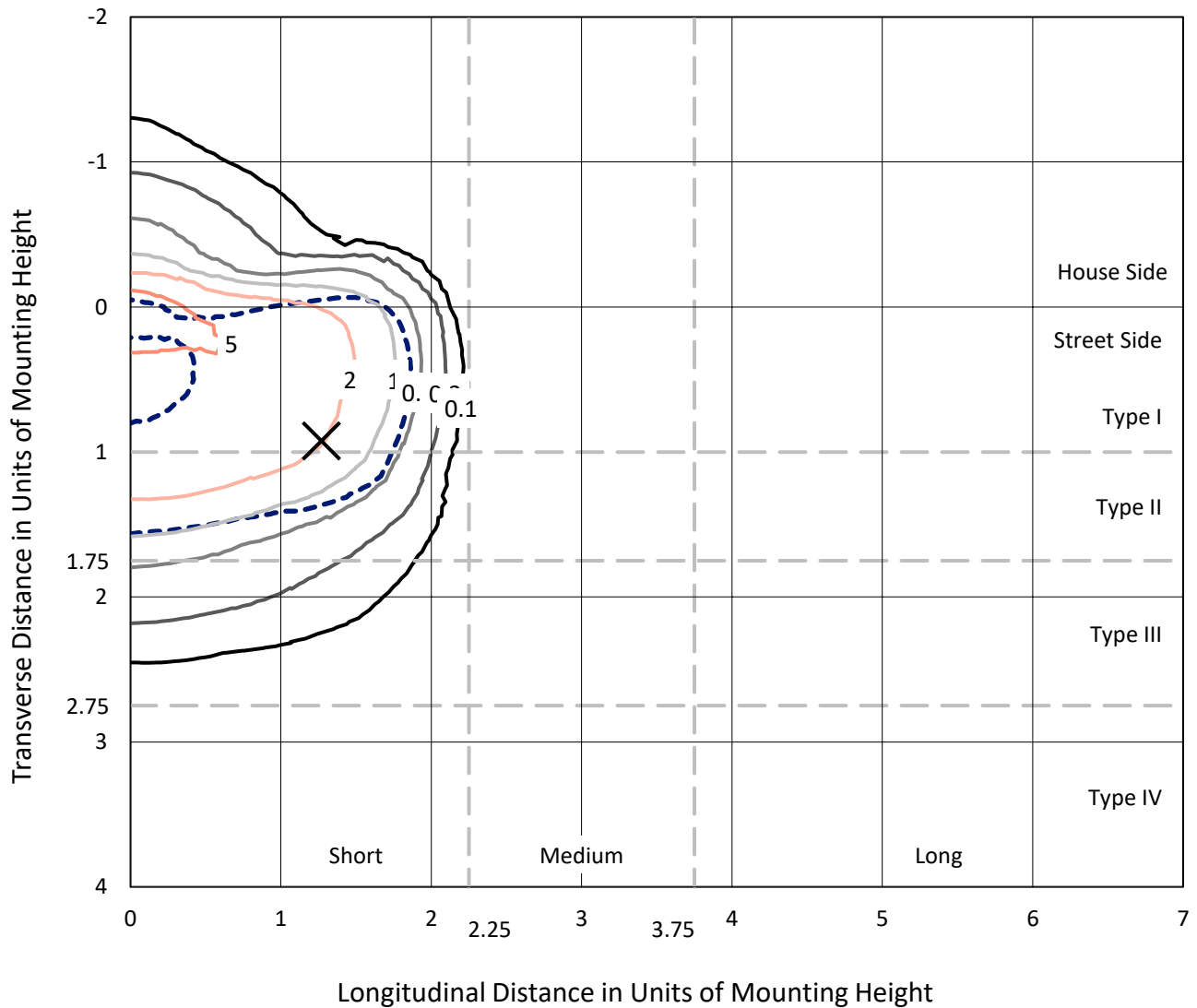
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

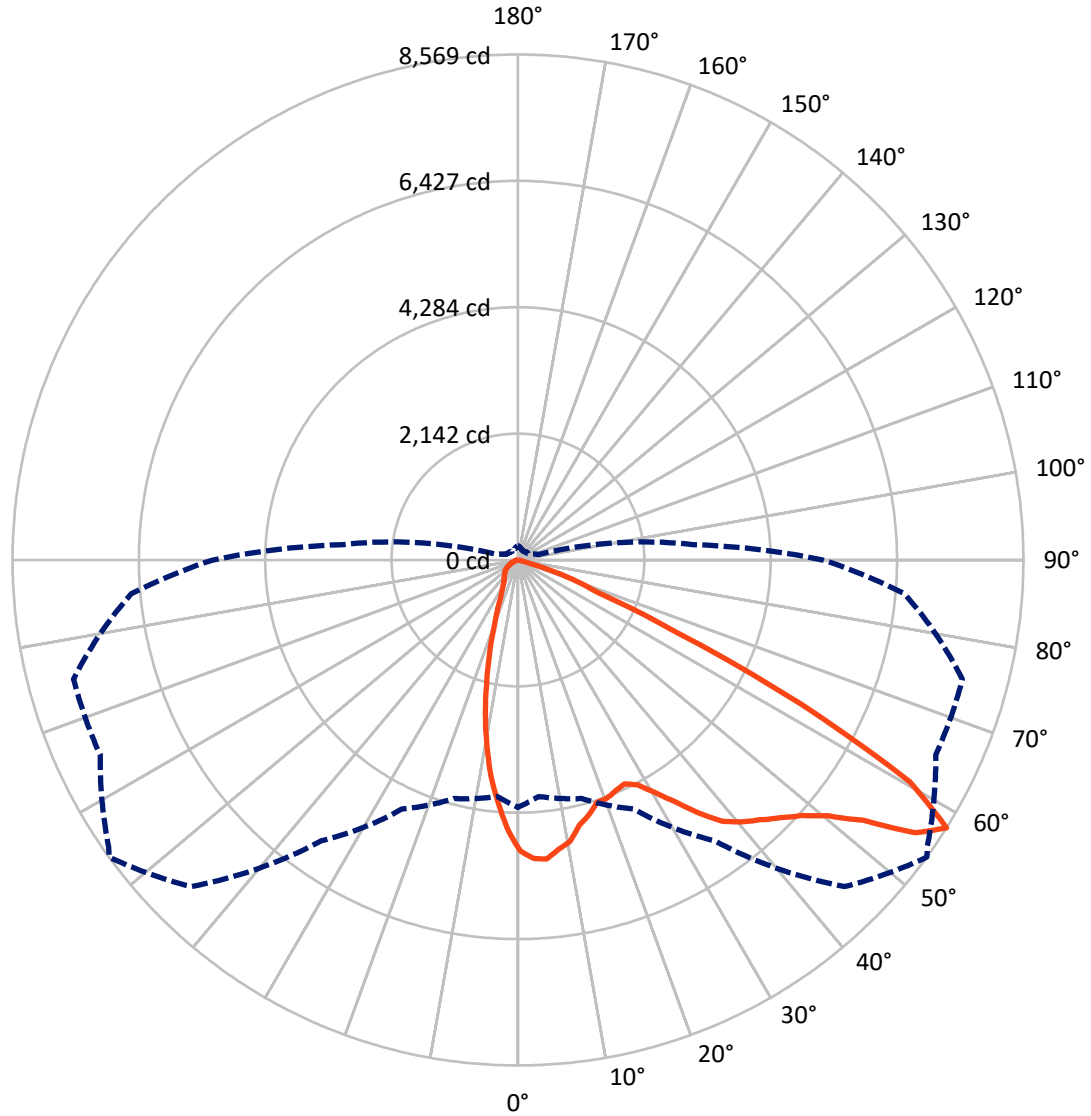
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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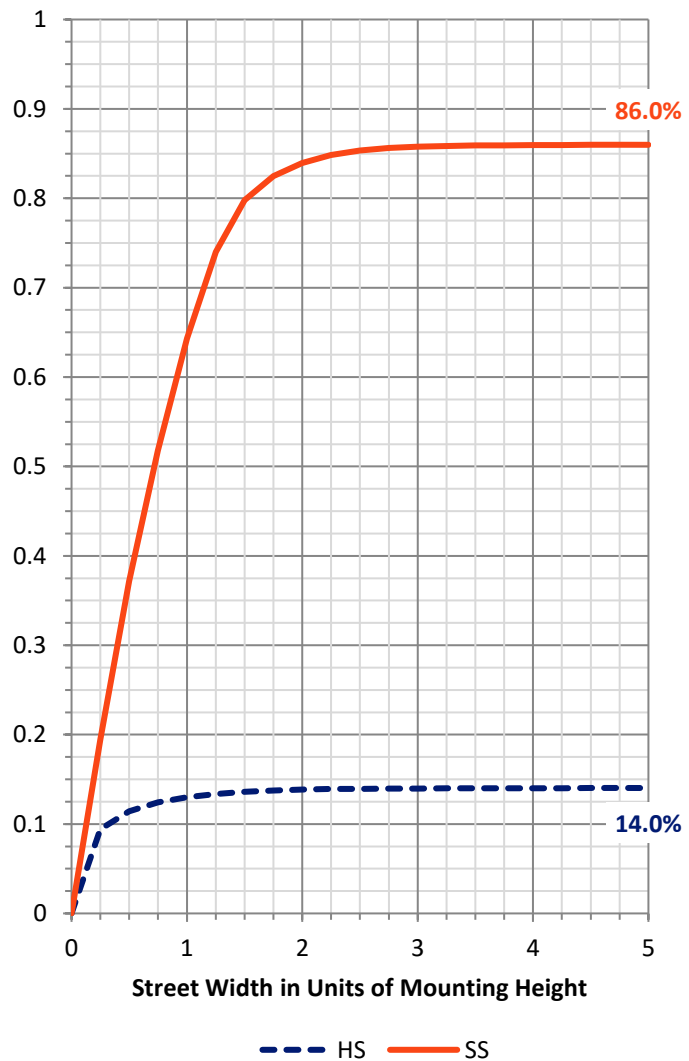
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1582.9 | 0.0 | 1582.9 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 9618.1 | 0.0 | 9618.1 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 11201.0 | 0.0 | 11201.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 412.9 | 3.7 |
| 10°-20° | 881.5 | 7.9 |
| 20°-30° | 1168.2 | 10.4 |
| 30°-40° | 1697.7 | 15.2 |
| 40°-50° | 2517.5 | 22.5 |
| 50°-60° | 3148.1 | 28.1 |
| 60°-70° | 1241.8 | 11.1 |
| 70°-80° | 123.6 | 1.1 |
| 80°-90° | 9.6 | 0.1 |
| 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° | 11201.0 | 100.0 |
| 0°-180° | 11201.0 | 100.0 |



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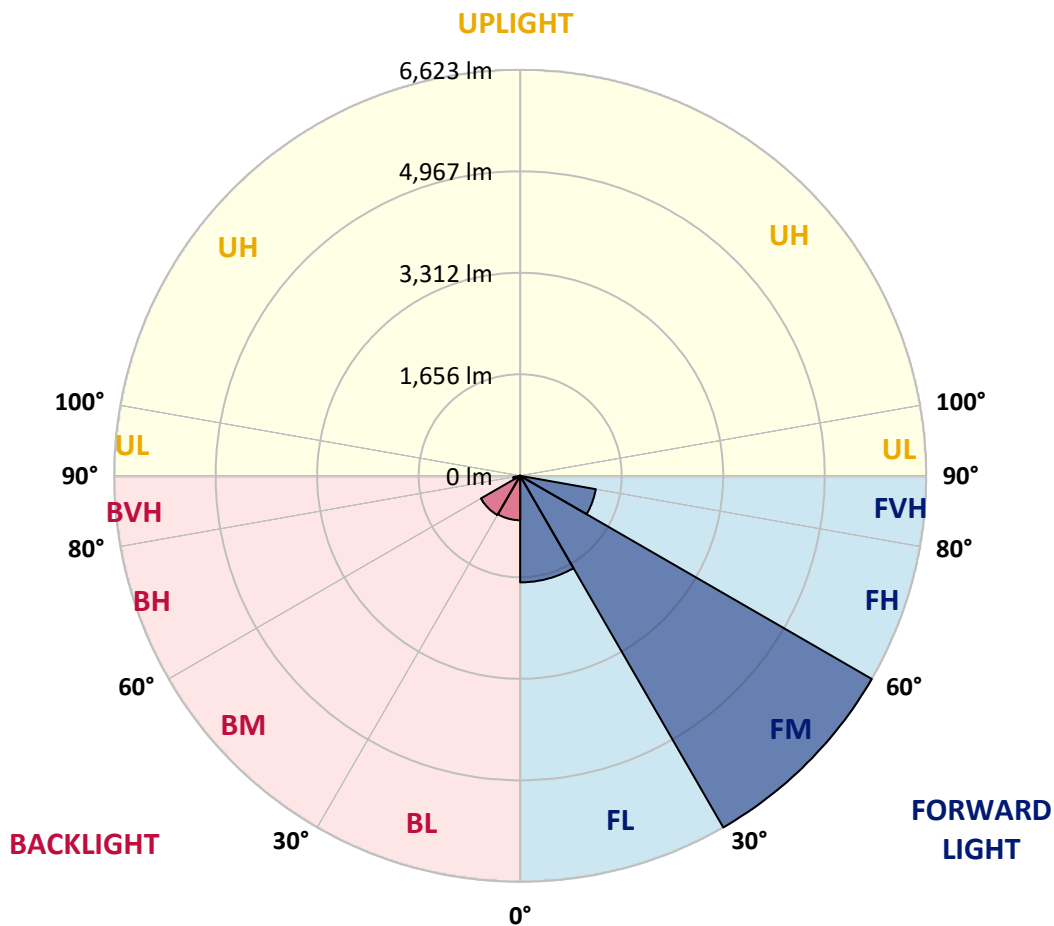
CATALOG NUMBER: GALN-SA5A-727-U-SL3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1738.7 | 15.5 | | | |
| FM (30°-60°) | 6623.1 | 59.1 | | | |
| FH (60°-80°) | 1251.9 | 11.2 | | | G1/1800 |
| FVH (80°-90°) | 4.4 | 0.0 | | | G0/10 |
| BL (0°-30°) | 723.9 | 6.5 | B2/1000 | | |
| BM (30°-60°) | 740.2 | 6.6 | B1/1000 | | |
| BH (60°-80°) | 113.5 | 1.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.2 | 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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4934.2 | 4934.2 | 4934.2 | 4934.2 | 4934.2 | 4934.2 | 4934.2 | 4934.2 | 4934.2 | 4934.2 | 4934.2 |
| 2.5° | 5221.6 | 5167.5 | 5171.6 | 5152.9 | 5127.9 | 5146.6 | 5065.4 | 5084.2 | 5082.1 | 4971.7 | 4898.8 |
| 5° | 5090.4 | 5148.7 | 5088.3 | 5138.3 | 5090.4 | 5142.5 | 5092.5 | 5055.0 | 4994.6 | 4913.4 | 4778.0 |
| 7.5° | 4867.5 | 4811.3 | 4828.0 | 4890.5 | 4900.9 | 5017.5 | 4955.0 | 5002.9 | 4977.9 | 4817.6 | 4632.2 |
| 10° | 4419.7 | 4407.2 | 4490.6 | 4573.9 | 4675.9 | 4800.9 | 4848.8 | 4821.7 | 4803.0 | 4742.6 | 4494.7 |
| 12.5° | 4076.1 | 4111.5 | 4109.4 | 4246.9 | 4419.7 | 4490.6 | 4615.5 | 4611.4 | 4715.5 | 4603.0 | 4365.6 |
| 15° | 3749.1 | 3767.8 | 3855.3 | 3940.7 | 4132.3 | 4334.3 | 4488.5 | 4509.3 | 4634.3 | 4555.1 | 4265.6 |
| 17.5° | 3549.1 | 3522.0 | 3590.8 | 3692.8 | 3888.6 | 4153.1 | 4323.9 | 4373.9 | 4544.7 | 4528.0 | 4151.1 |
| 20° | 3351.3 | 3351.3 | 3407.5 | 3528.3 | 3707.4 | 4005.3 | 4309.3 | 4294.8 | 4544.7 | 4496.8 | 4028.2 |
| 22.5° | 3284.6 | 3317.9 | 3332.5 | 3424.1 | 3636.6 | 3892.8 | 4246.9 | 4273.9 | 4580.1 | 4482.2 | 3974.0 |
| 25° | 3376.2 | 3332.5 | 3336.7 | 3409.6 | 3609.5 | 3838.6 | 4201.0 | 4261.4 | 4644.7 | 4555.1 | 3930.3 |
| 27.5° | 3390.8 | 3434.6 | 3447.1 | 3497.0 | 3630.3 | 3855.3 | 4315.6 | 4438.5 | 4805.1 | 4725.9 | 3942.8 |
| 30° | 3517.9 | 3561.6 | 3559.5 | 3644.9 | 3736.6 | 3990.7 | 4571.8 | 4596.8 | 5136.2 | 4940.4 | 4019.8 |
| 32.5° | 3672.0 | 3717.8 | 3732.4 | 3832.4 | 3905.3 | 4238.5 | 4884.2 | 4948.8 | 5454.9 | 5277.9 | 4221.9 |
| 35° | 3863.6 | 3847.0 | 3913.6 | 4013.6 | 4169.8 | 4600.9 | 5265.4 | 5373.7 | 5798.6 | 5715.2 | 4430.1 |
| 37.5° | 4103.1 | 4082.3 | 4146.9 | 4309.3 | 4521.8 | 5030.0 | 5617.4 | 5688.2 | 6048.5 | 6121.4 | 4815.5 |
| 40° | 4271.9 | 4280.2 | 4476.0 | 4694.7 | 4919.6 | 5438.2 | 5840.2 | 5908.9 | 6223.5 | 6500.5 | 5107.1 |
| 42.5° | 4553.0 | 4605.1 | 4840.5 | 5107.1 | 5342.4 | 5744.4 | 6021.4 | 6088.1 | 6304.7 | 6804.6 | 5500.7 |
| 45° | 4961.3 | 4938.4 | 5198.7 | 5496.6 | 5756.9 | 6063.1 | 6236.0 | 6213.0 | 6352.6 | 7106.6 | 5748.6 |
| 47.5° | 5486.1 | 5490.3 | 5663.2 | 5917.3 | 6188.0 | 6340.1 | 6475.5 | 6394.2 | 6452.6 | 7425.2 | 6079.7 |
| 50° | 5844.4 | 5875.6 | 6015.2 | 6275.5 | 6410.9 | 6644.2 | 6817.1 | 6767.1 | 6748.3 | 7616.9 | 6288.0 |
| 52.5° | 5936.0 | 6029.8 | 6104.7 | 6429.7 | 6746.2 | 7114.9 | 7335.7 | 7441.9 | 7108.7 | 7681.4 | 6552.5 |
| 55° | 5244.5 | 5327.8 | 5592.4 | 6038.1 | 6873.3 | 7860.5 | 8164.6 | 8166.7 | 7579.4 | 7968.9 | 6737.9 |
| 57.5° | 4192.7 | 4024.0 | 4186.5 | 4659.3 | 5811.1 | 7829.3 | 8568.7 | 8470.8 | 7814.7 | 7800.1 | 6577.5 |
| 60° | 2899.3 | 2857.6 | 2868.0 | 3055.5 | 4021.9 | 6227.6 | 7635.6 | 7762.7 | 7196.1 | 6760.8 | 5207.0 |
| 62.5° | 2297.3 | 2261.9 | 2216.1 | 2195.3 | 2497.3 | 3880.3 | 5386.2 | 5565.3 | 5032.1 | 4384.3 | 3086.7 |
| 65° | 1799.6 | 1778.7 | 1785.0 | 1868.3 | 1866.2 | 2201.5 | 2945.1 | 2872.2 | 2299.4 | 1699.6 | 970.6 |
| 67.5° | 1214.3 | 1245.5 | 1270.5 | 1522.5 | 1651.7 | 1533.0 | 1422.6 | 1380.9 | 747.7 | 314.5 | 214.5 |
| 70° | 683.2 | 687.3 | 714.4 | 951.8 | 1253.9 | 1189.3 | 981.0 | 981.0 | 372.8 | 114.6 | 122.9 |
| 72.5° | 372.8 | 360.3 | 335.3 | 410.3 | 558.2 | 566.5 | 437.4 | 381.2 | 110.4 | 75.0 | 68.7 |
| 75° | 181.2 | 179.1 | 154.1 | 127.1 | 120.8 | 100.0 | 77.1 | 70.8 | 50.0 | 47.9 | 41.7 |
| 77.5° | 37.5 | 35.4 | 18.7 | 18.7 | 20.8 | 22.9 | 29.2 | 29.2 | 35.4 | 35.4 | 29.2 |
| 80° | 0.0 | 0.0 | 2.1 | 8.3 | 14.6 | 20.8 | 25.0 | 25.0 | 29.2 | 29.2 | 22.9 |
| 82.5° | 0.0 | 0.0 | 2.1 | 6.2 | 12.5 | 18.7 | 22.9 | 25.0 | 29.2 | 31.2 | 25.0 |
| 85° | 0.0 | 0.0 | 0.0 | 4.2 | 10.4 | 14.6 | 12.5 | 12.5 | 10.4 | 8.3 | 4.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4934.2 | 4934.2 | 4934.2 | 4934.2 | 4934.2 | 4934.2 | 4934.2 | 4934.2 | 4934.2 | 4934.2 | 4934.2 |
| 2.5° | 4861.3 | 4857.1 | 4761.3 | 4707.2 | 4609.3 | 4523.9 | 4455.1 | 4405.2 | 4405.2 | 4373.9 | 4344.8 |
| 5° | 4723.8 | 4688.4 | 4484.3 | 4353.1 | 4167.7 | 4030.2 | 3936.5 | 3863.6 | 3749.1 | 3780.3 | 3657.4 |
| 7.5° | 4553.0 | 4463.5 | 4192.7 | 3992.8 | 3736.6 | 3540.8 | 3340.8 | 3163.8 | 2993.0 | 2915.9 | 2957.6 |
| 10° | 4369.7 | 4213.5 | 3849.0 | 3532.5 | 3213.8 | 2855.5 | 2622.3 | 2339.0 | 2164.0 | 2153.6 | 2107.8 |
| 12.5° | 4176.0 | 3999.0 | 3555.4 | 3118.0 | 2699.3 | 2268.2 | 1912.0 | 1647.5 | 1528.8 | 1397.6 | 1422.6 |
| 15° | 4030.2 | 3767.8 | 3228.4 | 2701.4 | 2145.3 | 1710.0 | 1351.7 | 1147.6 | 1035.2 | 1003.9 | 993.5 |
| 17.5° | 3872.0 | 3590.8 | 2895.1 | 2257.8 | 1682.9 | 1230.9 | 972.7 | 874.8 | 831.0 | 831.0 | 824.8 |
| 20° | 3707.4 | 3390.8 | 2563.9 | 1845.4 | 1262.2 | 918.5 | 779.0 | 747.7 | 745.6 | 743.6 | 743.6 |
| 22.5° | 3599.1 | 3161.7 | 2264.0 | 1466.3 | 951.8 | 735.2 | 676.9 | 664.4 | 672.7 | 697.7 | 697.7 |
| 25° | 3484.6 | 2940.9 | 1932.9 | 1131.0 | 737.3 | 631.1 | 597.8 | 606.1 | 626.9 | 649.8 | 641.5 |
| 27.5° | 3367.9 | 2797.2 | 1620.4 | 887.3 | 604.0 | 551.9 | 539.4 | 558.2 | 581.1 | 601.9 | 595.7 |
| 30° | 3340.8 | 2643.1 | 1324.7 | 672.7 | 518.6 | 481.1 | 489.5 | 506.1 | 529.0 | 537.4 | 545.7 |
| 32.5° | 3382.5 | 2522.3 | 1085.1 | 551.9 | 452.0 | 441.6 | 441.6 | 449.9 | 464.5 | 483.2 | 477.0 |
| 35° | 3501.2 | 2453.6 | 858.1 | 479.0 | 414.5 | 404.1 | 402.0 | 410.3 | 418.6 | 424.9 | 418.6 |
| 37.5° | 3682.4 | 2399.4 | 701.9 | 424.9 | 389.5 | 372.8 | 368.7 | 366.6 | 374.9 | 377.0 | 381.2 |
| 40° | 3913.6 | 2428.6 | 595.7 | 391.6 | 364.5 | 345.7 | 333.3 | 333.3 | 333.3 | 339.5 | 341.6 |
| 42.5° | 4163.5 | 2468.1 | 514.5 | 372.8 | 341.6 | 318.7 | 306.2 | 302.0 | 306.2 | 314.5 | 312.4 |
| 45° | 4426.0 | 2545.2 | 462.4 | 343.7 | 320.8 | 291.6 | 274.9 | 270.8 | 281.2 | 297.8 | 295.8 |
| 47.5° | 4671.8 | 2655.6 | 422.8 | 324.9 | 299.9 | 272.8 | 252.0 | 247.9 | 266.6 | 289.5 | 291.6 |
| 50° | 4917.5 | 2847.2 | 408.2 | 310.3 | 285.3 | 254.1 | 235.4 | 231.2 | 252.0 | 281.2 | 287.4 |
| 52.5° | 5200.8 | 3053.4 | 397.8 | 291.6 | 268.7 | 239.5 | 218.7 | 214.5 | 237.4 | 274.9 | 277.0 |
| 55° | 5386.2 | 3228.4 | 389.5 | 258.3 | 237.4 | 216.6 | 200.0 | 197.9 | 222.9 | 256.2 | 264.5 |
| 57.5° | 5169.5 | 2984.7 | 360.3 | 224.9 | 202.0 | 191.6 | 177.0 | 177.0 | 197.9 | 229.1 | 235.4 |
| 60° | 3919.9 | 1964.1 | 256.2 | 181.2 | 170.8 | 164.5 | 158.3 | 158.3 | 175.0 | 197.9 | 200.0 |
| 62.5° | 2295.3 | 1058.1 | 164.5 | 145.8 | 145.8 | 139.5 | 129.1 | 129.1 | 145.8 | 158.3 | 160.4 |
| 65° | 681.1 | 339.5 | 133.3 | 125.0 | 122.9 | 112.5 | 102.1 | 100.0 | 112.5 | 118.7 | 116.6 |
| 67.5° | 195.8 | 156.2 | 110.4 | 104.1 | 102.1 | 85.4 | 79.1 | 77.1 | 79.1 | 75.0 | 72.9 |
| 70° | 116.6 | 106.2 | 85.4 | 87.5 | 77.1 | 62.5 | 56.2 | 54.2 | 50.0 | 43.7 | 39.6 |
| 72.5° | 64.6 | 64.6 | 62.5 | 66.7 | 54.2 | 41.7 | 35.4 | 29.2 | 22.9 | 18.7 | 16.7 |
| 75° | 39.6 | 41.7 | 43.7 | 45.8 | 35.4 | 27.1 | 22.9 | 14.6 | 8.3 | 4.2 | 4.2 |
| 77.5° | 27.1 | 29.2 | 31.2 | 33.3 | 29.2 | 25.0 | 18.7 | 10.4 | 2.1 | 0.0 | 0.0 |
| 80° | 20.8 | 22.9 | 27.1 | 29.2 | 31.2 | 33.3 | 25.0 | 10.4 | 2.1 | 0.0 | 0.0 |
| 82.5° | 22.9 | 25.0 | 31.2 | 29.2 | 29.2 | 29.2 | 22.9 | 10.4 | 2.1 | 0.0 | 0.0 |
| 85° | 4.2 | 6.2 | 10.4 | 10.4 | 14.6 | 18.7 | 14.6 | 4.2 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)