

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: P455735

Luminaire Tested: **GALN-SA7A-722-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-722-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19164 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

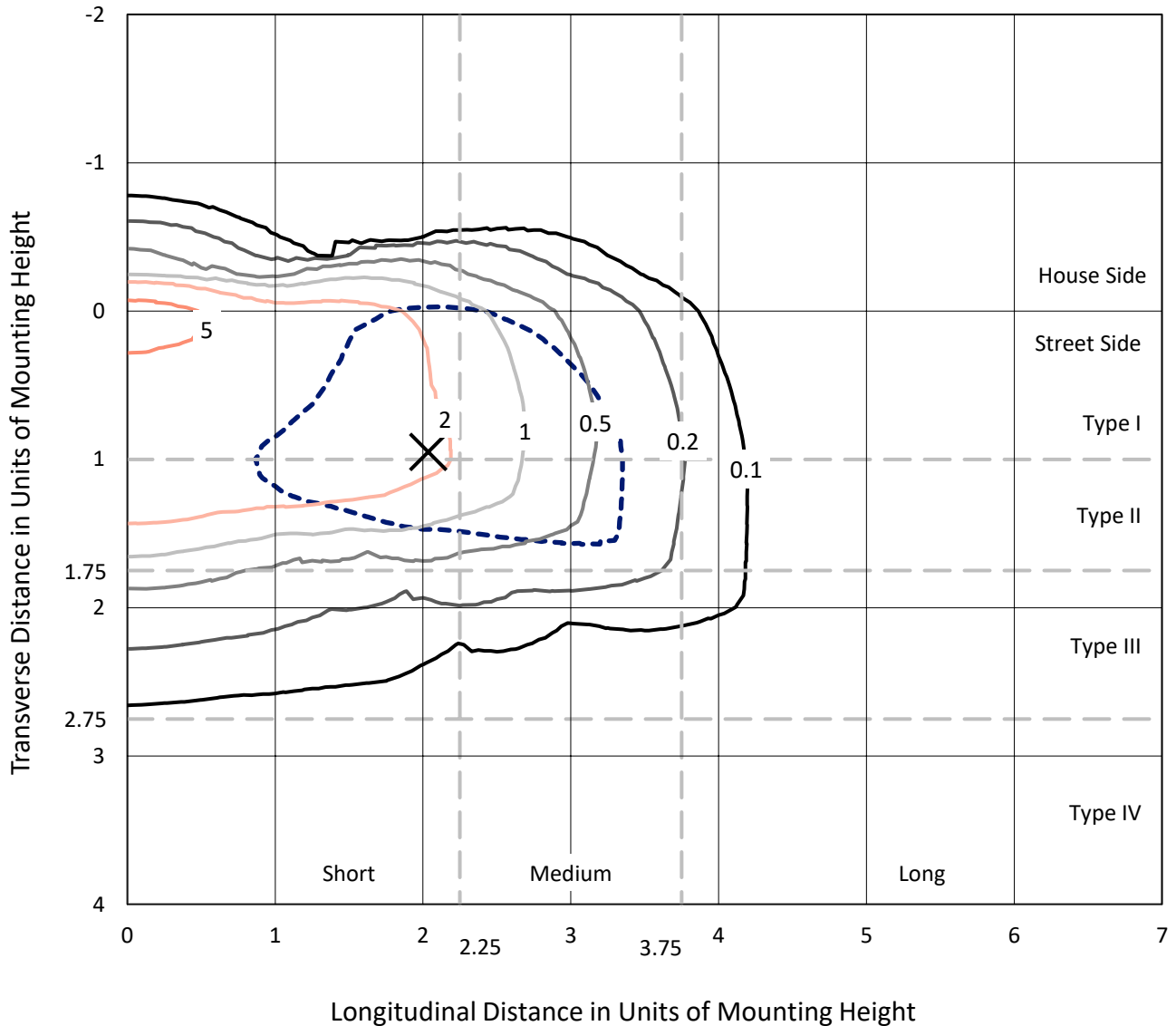
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

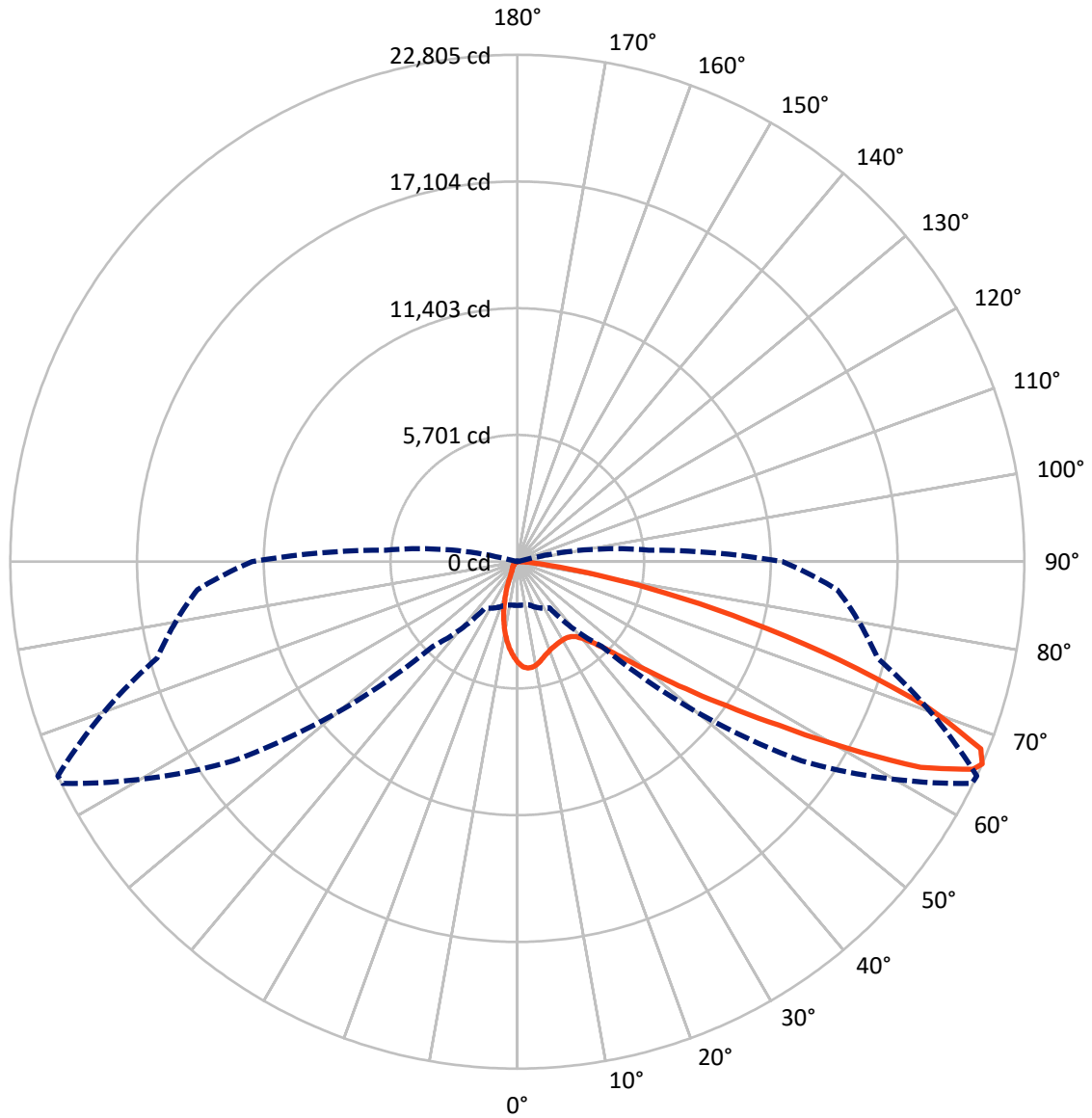
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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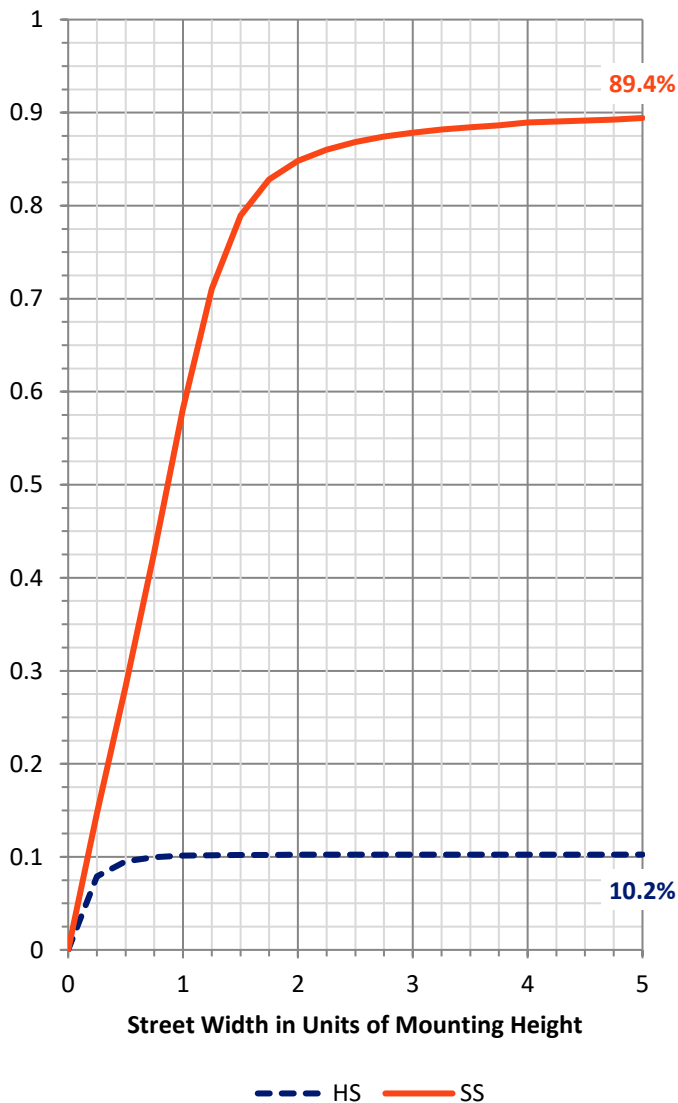
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1981.8 | 0.0 | 1981.8 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 17182.2 | 0.0 | 17182.2 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 19164.0 | 0.0 | 19164.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 371.7 | 1.9 |
| 10°-20° | 809.8 | 4.2 |
| 20°-30° | 1160.1 | 6.1 |
| 30°-40° | 1694.4 | 8.8 |
| 40°-50° | 2841.2 | 14.8 |
| 50°-60° | 4741.4 | 24.7 |
| 60°-70° | 5032.9 | 26.3 |
| 70°-80° | 2279.4 | 11.9 |
| 80°-90° | 233.2 | 1.2 |
| 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° | 19164.0 | 100.0 |
| 0°-180° | 19164.0 | 100.0 |

Coefficient of Utilization

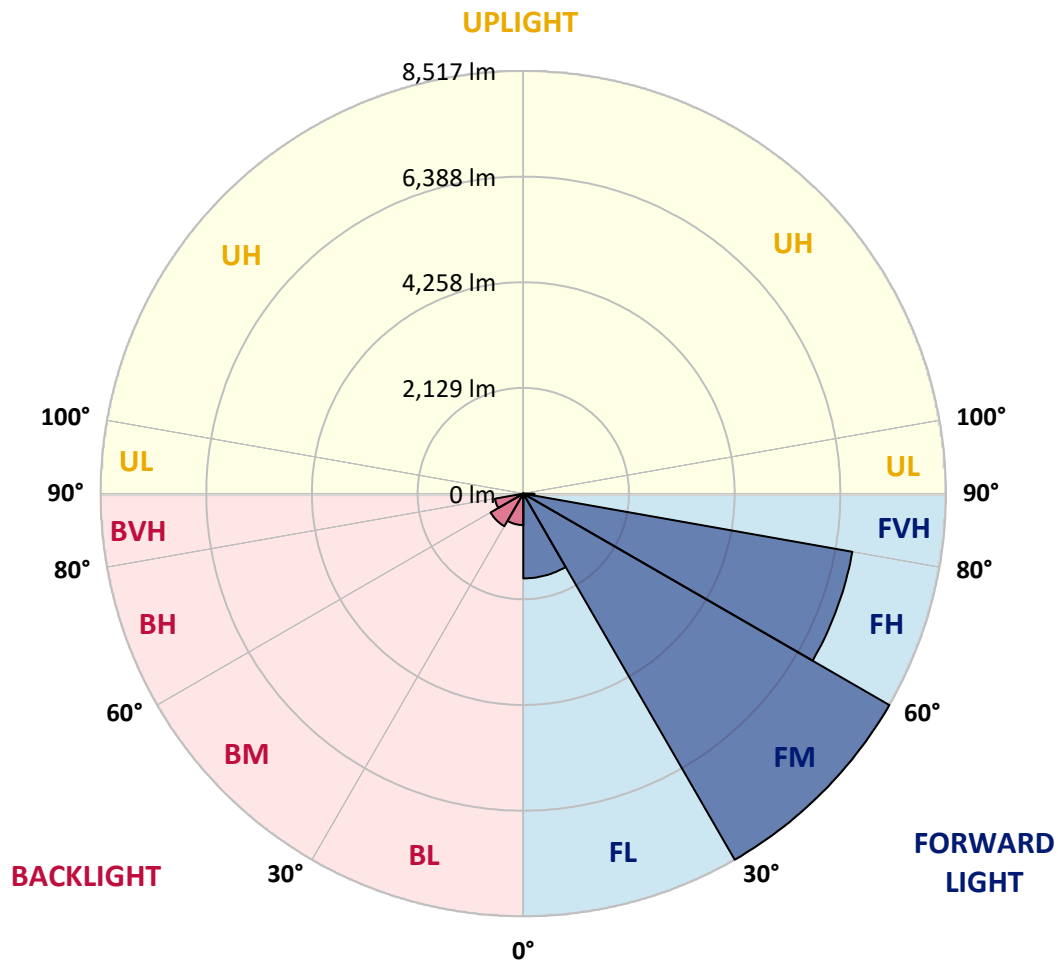


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1707.6 | 8.9 | | | |
| FM (30°-60°) | 8516.9 | 44.4 | | | |
| FH (60°-80°) | 6731.9 | 35.1 | | | G3/7500 |
| FVH (80°-90°) | 225.8 | 1.2 | | | G3/500 |
| BL (0°-30°) | 634.0 | 3.3 | B2/1000 | | |
| BM (30°-60°) | 760.0 | 4.0 | B1/1000 | | |
| BH (60°-80°) | 580.4 | 3.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 7.4 | 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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4544.5 | 4544.5 | 4544.5 | 4544.5 | 4544.5 | 4544.5 | 4544.5 | 4544.5 | 4544.5 | 4544.5 | 4544.5 |
| 2.5° | 4789.1 | 4794.3 | 4800.8 | 4809.8 | 4816.3 | 4796.9 | 4769.7 | 4738.6 | 4732.2 | 4666.2 | 4585.9 |
| 5° | 4532.8 | 4540.6 | 4597.6 | 4628.6 | 4698.5 | 4761.9 | 4802.1 | 4807.2 | 4804.7 | 4742.5 | 4614.4 |
| 7.5° | 4167.8 | 4189.8 | 4245.5 | 4299.9 | 4430.6 | 4551.0 | 4693.3 | 4793.0 | 4799.5 | 4782.7 | 4623.4 |
| 10° | 3871.4 | 3885.7 | 3914.1 | 4021.6 | 4130.3 | 4314.1 | 4513.4 | 4701.1 | 4716.6 | 4783.9 | 4615.7 |
| 12.5° | 3639.7 | 3660.4 | 3695.4 | 3778.2 | 3909.0 | 4082.4 | 4308.9 | 4561.3 | 4593.7 | 4759.4 | 4593.7 |
| 15° | 3477.9 | 3488.3 | 3523.2 | 3604.8 | 3731.6 | 3892.1 | 4121.2 | 4415.1 | 4443.5 | 4727.0 | 4589.8 |
| 17.5° | 3401.6 | 3413.2 | 3437.8 | 3502.5 | 3607.4 | 3756.2 | 3980.2 | 4297.3 | 4333.5 | 4706.3 | 4604.0 |
| 20° | 3422.3 | 3432.6 | 3433.9 | 3467.6 | 3538.8 | 3664.3 | 3876.6 | 4187.2 | 4233.8 | 4693.3 | 4627.3 |
| 22.5° | 3540.1 | 3541.4 | 3525.8 | 3510.3 | 3534.9 | 3625.5 | 3813.2 | 4117.4 | 4165.2 | 4690.8 | 4654.5 |
| 25° | 3716.1 | 3720.0 | 3694.1 | 3639.7 | 3590.5 | 3637.1 | 3798.9 | 4072.1 | 4114.8 | 4684.3 | 4671.3 |
| 27.5° | 3959.4 | 3958.1 | 3950.4 | 3859.8 | 3720.0 | 3688.9 | 3810.6 | 4047.5 | 4083.7 | 4666.2 | 4677.8 |
| 30° | 4299.9 | 4289.5 | 4272.7 | 4170.4 | 3956.9 | 3814.5 | 3859.8 | 4031.9 | 4065.6 | 4640.3 | 4661.0 |
| 32.5° | 4635.1 | 4673.9 | 4671.3 | 4574.3 | 4307.6 | 4038.4 | 3962.0 | 4052.6 | 4077.2 | 4623.4 | 4636.4 |
| 35° | 5026.0 | 5024.7 | 5124.4 | 5088.1 | 4776.2 | 4324.5 | 4136.8 | 4121.2 | 4140.7 | 4635.1 | 4624.7 |
| 37.5° | 5388.4 | 5422.1 | 5577.4 | 5614.9 | 5330.2 | 4728.3 | 4384.0 | 4268.8 | 4275.3 | 4714.1 | 4653.2 |
| 40° | 5840.1 | 5904.9 | 6136.6 | 6262.1 | 6011.0 | 5327.6 | 4749.0 | 4539.3 | 4540.6 | 4908.2 | 4760.6 |
| 42.5° | 6422.6 | 6524.9 | 6741.0 | 6950.7 | 6816.1 | 6036.9 | 5296.5 | 4967.7 | 4965.2 | 5249.9 | 5006.6 |
| 45° | 7130.6 | 7201.8 | 7447.7 | 7780.4 | 7695.0 | 7027.1 | 6093.8 | 5631.8 | 5598.1 | 5810.4 | 5442.8 |
| 47.5° | 7741.6 | 7838.6 | 8088.4 | 8467.7 | 8856.0 | 8236.0 | 7046.5 | 6544.3 | 6522.3 | 6702.2 | 6190.9 |
| 50° | 8008.2 | 8093.6 | 8356.4 | 8888.4 | 9829.4 | 9822.9 | 8465.1 | 7876.2 | 7838.6 | 7935.7 | 7348.1 |
| 52.5° | 7715.7 | 7795.9 | 8061.3 | 8724.0 | 10287.6 | 11756.7 | 10520.5 | 9547.2 | 9501.9 | 9377.6 | 8730.4 |
| 55° | 6713.8 | 6779.8 | 7172.0 | 7933.1 | 10111.5 | 13045.8 | 13352.6 | 11611.7 | 11435.7 | 10952.9 | 10295.3 |
| 57.5° | 5345.7 | 5312.0 | 5555.4 | 6439.4 | 9078.6 | 13478.2 | 16259.7 | 14183.6 | 13869.0 | 12314.5 | 11619.5 |
| 60° | 3704.5 | 3808.0 | 3906.4 | 4488.8 | 6826.4 | 12728.7 | 18067.9 | 17416.9 | 17002.7 | 13654.2 | 12887.9 |
| 62.5° | 2723.3 | 2791.9 | 2856.6 | 3125.9 | 4292.1 | 10163.3 | 18387.7 | 20738.2 | 20370.6 | 15076.7 | 14098.1 |
| 65° | 2153.8 | 2159.0 | 2184.9 | 2450.2 | 2828.2 | 6609.0 | 16851.2 | 22611.1 | 22516.7 | 16446.1 | 14588.7 |
| 66° | 1962.2 | 1963.5 | 2003.7 | 2288.4 | 2538.2 | 5381.9 | 15620.3 | 22753.5 | 22805.3 | 16774.9 | 14445.0 |
| 67.5° | 1715.0 | 1709.8 | 1768.1 | 2056.7 | 2311.7 | 3880.5 | 13417.3 | 22176.2 | 22483.0 | 17027.3 | 13928.6 |
| 70° | 1329.3 | 1322.8 | 1394.0 | 1725.4 | 2129.2 | 2588.7 | 8918.1 | 19041.3 | 19535.7 | 16510.8 | 12323.6 |
| 72.5° | 885.3 | 890.5 | 1012.2 | 1361.7 | 2032.1 | 2279.4 | 5365.1 | 14485.2 | 15184.1 | 13634.8 | 9694.7 |
| 75° | 516.4 | 525.5 | 664.0 | 1012.2 | 1764.2 | 2173.2 | 3036.6 | 10329.0 | 10775.5 | 9415.2 | 6039.5 |
| 77.5° | 270.5 | 274.4 | 371.5 | 667.9 | 1352.6 | 2017.9 | 2023.1 | 6598.6 | 6808.3 | 4575.6 | 2390.7 |
| 80° | 143.7 | 139.8 | 199.3 | 402.5 | 930.6 | 1772.0 | 1641.2 | 3493.5 | 3632.0 | 1359.1 | 604.5 |
| 82.5° | 54.4 | 59.5 | 106.1 | 264.0 | 550.1 | 1272.4 | 1413.4 | 1544.2 | 1496.3 | 299.0 | 253.7 |
| 85° | 10.4 | 12.9 | 45.3 | 156.6 | 277.0 | 532.0 | 1042.0 | 757.2 | 701.5 | 112.6 | 146.3 |
| 87.5° | 1.3 | 2.6 | 12.9 | 37.5 | 40.1 | 179.9 | 308.1 | 209.7 | 181.2 | 41.4 | 60.8 |
| 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° | 4544.5 | 4544.5 | 4544.5 | 4544.5 | 4544.5 | 4544.5 | 4544.5 | 4544.5 | 4544.5 | 4544.5 | 4544.5 |
| 2.5° | 4547.1 | 4512.1 | 4395.6 | 4280.4 | 4162.7 | 4056.5 | 3984.0 | 3866.2 | 3836.5 | 3793.8 | 3769.2 |
| 5° | 4538.0 | 4456.5 | 4232.6 | 3987.9 | 3760.1 | 3514.2 | 3326.5 | 3145.3 | 3048.2 | 2999.0 | 2980.9 |
| 7.5° | 4512.1 | 4382.7 | 4033.2 | 3650.1 | 3285.1 | 2917.5 | 2597.8 | 2354.4 | 2197.8 | 2090.4 | 2017.9 |
| 10° | 4460.4 | 4281.7 | 3801.5 | 3274.7 | 2723.3 | 2237.9 | 1832.8 | 1524.8 | 1286.6 | 1211.5 | 1214.1 |
| 12.5° | 4407.3 | 4169.1 | 3542.7 | 2857.9 | 2174.5 | 1562.3 | 1132.6 | 889.2 | 775.3 | 737.8 | 730.0 |
| 15° | 4358.1 | 4061.7 | 3289.0 | 2454.1 | 1619.2 | 1012.2 | 730.0 | 644.6 | 613.5 | 607.1 | 605.8 |
| 17.5° | 4332.2 | 3962.0 | 3018.4 | 1992.0 | 1130.0 | 687.3 | 585.0 | 561.8 | 552.7 | 546.2 | 543.6 |
| 20° | 4310.2 | 3875.3 | 2759.6 | 1559.7 | 772.7 | 563.0 | 524.2 | 502.2 | 486.7 | 480.2 | 476.3 |
| 22.5° | 4294.7 | 3786.0 | 2491.6 | 1207.6 | 591.5 | 499.6 | 464.7 | 436.2 | 414.2 | 406.4 | 401.3 |
| 25° | 4271.4 | 3687.6 | 2221.1 | 882.8 | 498.3 | 444.0 | 403.8 | 370.2 | 341.7 | 327.5 | 324.9 |
| 27.5° | 4237.7 | 3576.3 | 1924.7 | 653.7 | 445.3 | 394.8 | 345.6 | 304.2 | 275.7 | 260.2 | 261.5 |
| 30° | 4183.4 | 3459.8 | 1628.3 | 519.0 | 402.5 | 344.3 | 291.2 | 251.1 | 223.9 | 212.3 | 211.0 |
| 32.5° | 4118.6 | 3318.7 | 1356.5 | 445.3 | 363.7 | 299.0 | 243.3 | 208.4 | 187.7 | 178.6 | 177.3 |
| 35° | 4057.8 | 3176.4 | 1079.5 | 400.0 | 323.6 | 257.6 | 204.5 | 174.7 | 159.2 | 151.4 | 152.7 |
| 37.5° | 4024.2 | 3049.5 | 841.3 | 363.7 | 291.2 | 221.3 | 176.0 | 150.1 | 135.9 | 129.4 | 128.1 |
| 40° | 4046.2 | 2946.0 | 669.2 | 331.4 | 255.0 | 190.3 | 151.4 | 129.4 | 115.2 | 106.1 | 106.1 |
| 42.5° | 4149.7 | 2900.7 | 539.7 | 300.3 | 221.3 | 164.4 | 132.0 | 111.3 | 95.8 | 86.7 | 88.0 |
| 45° | 4465.5 | 2948.5 | 451.7 | 271.8 | 190.3 | 142.4 | 113.9 | 91.9 | 77.7 | 71.2 | 69.9 |
| 47.5° | 4989.8 | 3128.5 | 390.9 | 242.0 | 163.1 | 121.7 | 95.8 | 76.4 | 62.1 | 57.0 | 55.7 |
| 50° | 5906.2 | 3499.9 | 345.6 | 212.3 | 138.5 | 103.5 | 79.0 | 60.8 | 49.2 | 44.0 | 44.0 |
| 52.5° | 7166.9 | 4310.2 | 313.2 | 178.6 | 116.5 | 88.0 | 64.7 | 49.2 | 38.8 | 34.9 | 33.7 |
| 55° | 8484.5 | 5164.5 | 296.4 | 150.1 | 97.1 | 72.5 | 51.8 | 38.8 | 29.8 | 25.9 | 24.6 |
| 57.5° | 9751.7 | 5835.0 | 277.0 | 121.7 | 77.7 | 55.7 | 40.1 | 29.8 | 20.7 | 18.1 | 16.8 |
| 60° | 10967.1 | 6377.3 | 235.6 | 97.1 | 60.8 | 40.1 | 29.8 | 20.7 | 14.2 | 11.6 | 11.6 |
| 62.5° | 12054.4 | 6693.1 | 185.1 | 77.7 | 46.6 | 28.5 | 19.4 | 15.5 | 10.4 | 7.8 | 7.8 |
| 65° | 12181.2 | 6282.8 | 139.8 | 59.5 | 33.7 | 18.1 | 11.6 | 11.6 | 7.8 | 5.2 | 5.2 |
| 66° | 11926.2 | 5934.6 | 123.0 | 54.4 | 29.8 | 15.5 | 10.4 | 9.1 | 6.5 | 3.9 | 3.9 |
| 67.5° | 11356.7 | 5340.5 | 106.1 | 46.6 | 24.6 | 11.6 | 7.8 | 7.8 | 5.2 | 2.6 | 2.6 |
| 70° | 9812.5 | 4362.0 | 84.1 | 34.9 | 18.1 | 9.1 | 5.2 | 5.2 | 3.9 | 2.6 | 2.6 |
| 72.5° | 7478.8 | 3256.6 | 68.6 | 25.9 | 12.9 | 6.5 | 3.9 | 3.9 | 3.9 | 2.6 | 2.6 |
| 75° | 4510.8 | 1753.9 | 53.1 | 19.4 | 11.6 | 5.2 | 2.6 | 3.9 | 5.2 | 3.9 | 2.6 |
| 77.5° | 1662.0 | 596.7 | 41.4 | 15.5 | 9.1 | 5.2 | 2.6 | 2.6 | 5.2 | 3.9 | 3.9 |
| 80° | 407.7 | 155.3 | 29.8 | 12.9 | 9.1 | 5.2 | 2.6 | 2.6 | 5.2 | 5.2 | 5.2 |
| 82.5° | 189.0 | 66.0 | 20.7 | 11.6 | 9.1 | 5.2 | 2.6 | 2.6 | 3.9 | 5.2 | 5.2 |
| 85° | 108.7 | 31.1 | 16.8 | 12.9 | 9.1 | 5.2 | 2.6 | 2.6 | 3.9 | 5.2 | 5.2 |
| 87.5° | 44.0 | 15.5 | 15.5 | 12.9 | 10.4 | 6.5 | 2.6 | 2.6 | 2.6 | 3.9 | 3.9 |
| 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)