

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: P456769

Luminaire Tested: **GALN-SA8A-740-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456769
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26591 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

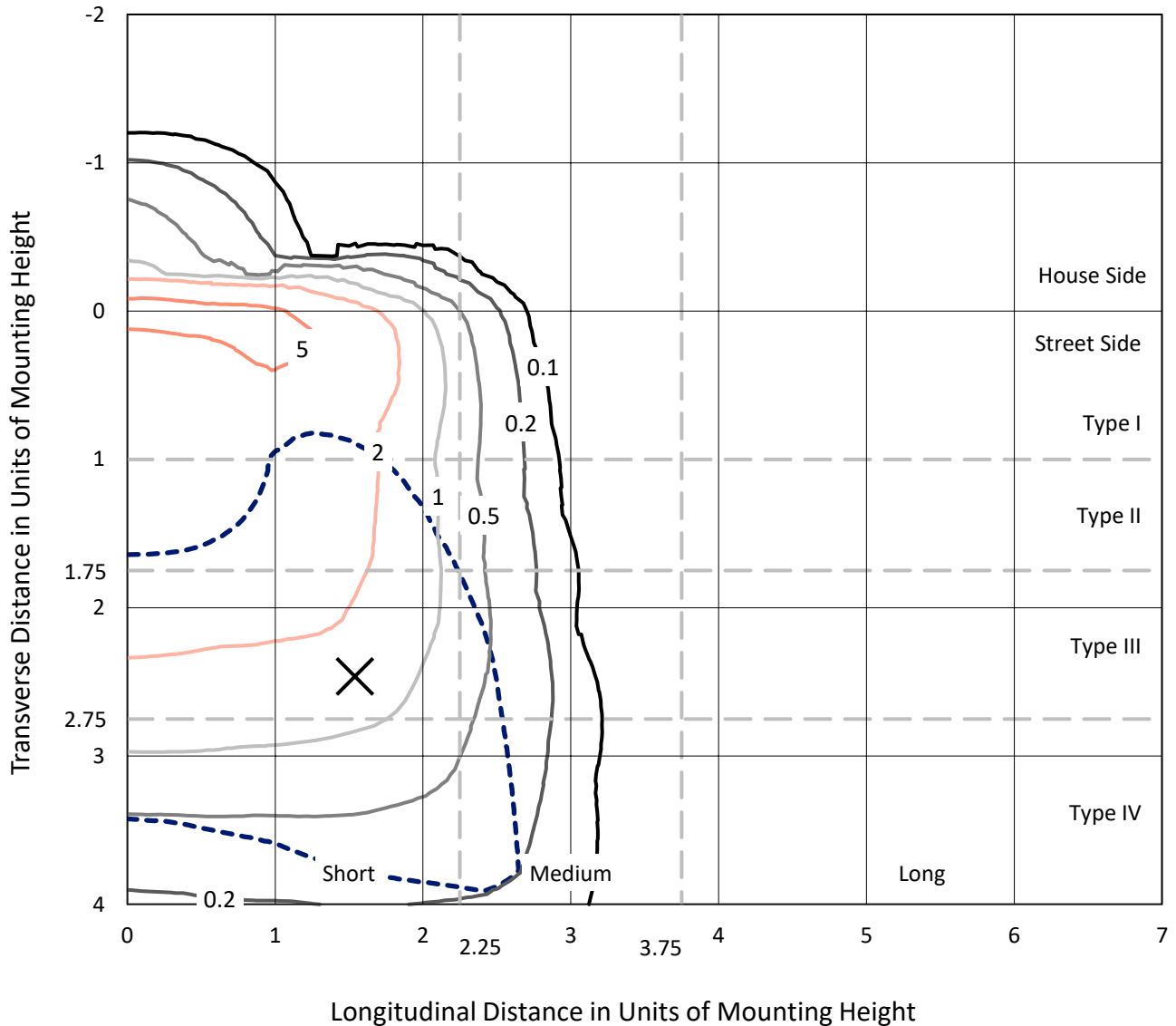
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

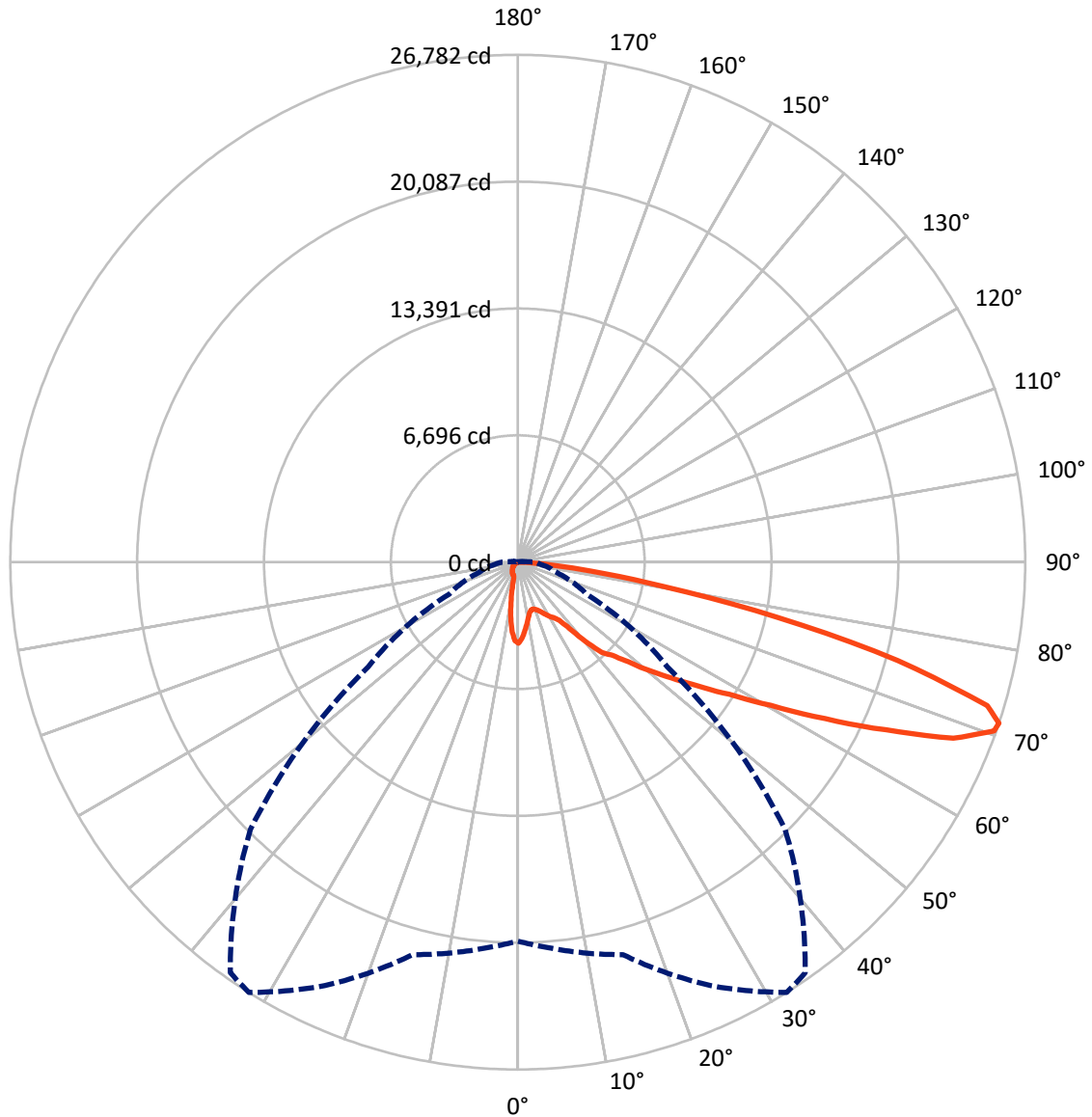
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2227.3 | 0.0 | 2227.3 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 24363.7 | 0.0 | 24363.7 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 26591.0 | 0.0 | 26591.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 347.7 | 1.3 |
| 10°-20° | 754.7 | 2.8 |
| 20°-30° | 1174.0 | 4.4 |
| 30°-40° | 1955.9 | 7.4 |
| 40°-50° | 3638.3 | 13.7 |
| 50°-60° | 5841.4 | 22.0 |
| 60°-70° | 7857.0 | 29.5 |
| 70°-80° | 4661.7 | 17.5 |
| 80°-90° | 360.3 | 1.4 |
| 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° | 26591.0 | 100.0 |
| 0°-180° | 26591.0 | 100.0 |



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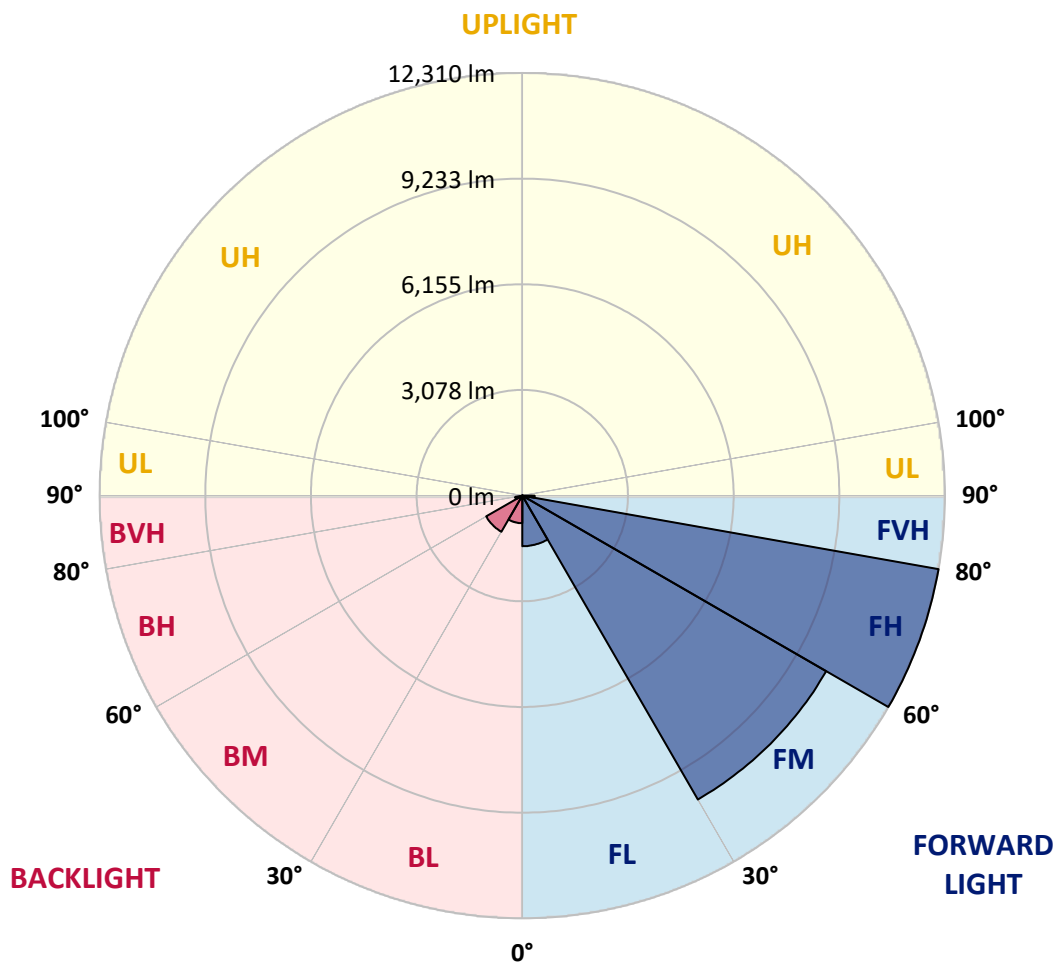
CATALOG NUMBER: GALN-SA8A-740-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1473.9 | 5.5 | | | |
| FM (30°-60°) | 10220.6 | 38.4 | | | |
| FH (60°-80°) | 12310.3 | 46.3 | | | G5 |
| FVH (80°-90°) | 358.9 | 1.3 | | | G3/500 |
| BL (0°-30°) | 802.5 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 1215.0 | 4.6 | B2/2500 | | |
| BH (60°-80°) | 208.3 | 0.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.4 | 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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 32° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4276.2 | 4276.2 | 4276.2 | 4276.2 | 4276.2 | 4276.2 | 4276.2 | 4276.2 | 4276.2 | 4276.2 | 4276.2 |
| 2.5° | 3966.0 | 4006.8 | 4000.7 | 4015.0 | 4049.7 | 4064.0 | 4102.7 | 4145.6 | 4204.8 | 4245.6 | 4272.2 |
| 5° | 3551.6 | 3582.3 | 3586.3 | 3657.8 | 3692.5 | 3731.3 | 3845.6 | 3970.1 | 4108.9 | 4219.1 | 4292.6 |
| 7.5° | 3108.7 | 3125.0 | 3157.7 | 3251.6 | 3339.4 | 3378.1 | 3551.6 | 3768.0 | 3986.4 | 4192.6 | 4325.2 |
| 10° | 2743.3 | 2761.7 | 2820.9 | 2920.9 | 3002.6 | 3053.6 | 3294.4 | 3565.9 | 3872.1 | 4178.3 | 4372.2 |
| 12.5° | 2535.1 | 2545.3 | 2567.8 | 2657.6 | 2761.7 | 2816.8 | 3076.0 | 3386.3 | 3780.2 | 4184.4 | 4451.8 |
| 15° | 2520.8 | 2516.8 | 2490.2 | 2527.0 | 2620.9 | 2678.0 | 2931.1 | 3263.8 | 3698.6 | 4204.8 | 4545.7 |
| 17.5° | 2596.4 | 2586.2 | 2522.9 | 2522.9 | 2600.4 | 2647.4 | 2869.9 | 3198.5 | 3657.8 | 4251.8 | 4678.4 |
| 20° | 2712.7 | 2696.4 | 2592.3 | 2584.1 | 2659.6 | 2708.6 | 2906.6 | 3202.6 | 3665.9 | 4339.5 | 4855.9 |
| 22.5° | 2859.7 | 2841.3 | 2684.1 | 2688.2 | 2769.9 | 2818.9 | 3012.8 | 3276.1 | 3717.0 | 4447.7 | 5045.8 |
| 25° | 3051.5 | 3031.1 | 2845.4 | 2837.2 | 2923.0 | 2965.8 | 3169.9 | 3406.7 | 3788.4 | 4582.4 | 5294.8 |
| 27.5° | 3306.7 | 3263.8 | 3041.3 | 3029.1 | 3120.9 | 3176.1 | 3359.8 | 3582.3 | 3915.0 | 4768.2 | 5629.5 |
| 30° | 3516.9 | 3470.0 | 3257.7 | 3225.0 | 3323.0 | 3365.9 | 3555.7 | 3819.0 | 4164.0 | 5092.7 | 6092.9 |
| 32.5° | 3792.5 | 3723.1 | 3474.1 | 3388.3 | 3492.4 | 3547.6 | 3839.4 | 4259.9 | 4533.4 | 5435.6 | 6644.0 |
| 35° | 4413.0 | 4370.1 | 4066.0 | 3766.0 | 3759.8 | 3829.2 | 4257.9 | 4704.9 | 4913.1 | 5970.4 | 7395.2 |
| 37.5° | 5300.9 | 5270.3 | 4947.8 | 4545.7 | 4429.3 | 4396.7 | 4766.1 | 5194.8 | 5519.3 | 6705.2 | 8268.8 |
| 40° | 6331.7 | 6260.3 | 5964.3 | 5623.4 | 5472.4 | 5376.4 | 5366.2 | 5923.5 | 6311.3 | 7703.4 | 9179.1 |
| 42.5° | 7070.6 | 6940.0 | 6580.7 | 6556.2 | 6523.6 | 6423.6 | 6133.7 | 6989.0 | 7333.9 | 8777.0 | 10152.8 |
| 45° | 7846.3 | 7648.3 | 7113.5 | 7021.6 | 7009.4 | 7003.2 | 7293.1 | 8250.4 | 8448.4 | 9940.5 | 11152.9 |
| 47.5° | 8448.4 | 8291.2 | 7852.4 | 7811.6 | 7862.6 | 8001.4 | 8826.0 | 9589.4 | 9548.6 | 10977.4 | 11991.9 |
| 50° | 9250.6 | 9132.2 | 8644.3 | 8721.9 | 8985.2 | 9211.8 | 10554.9 | 11048.8 | 10452.8 | 11793.9 | 12602.2 |
| 52.5° | 10197.7 | 9979.3 | 9526.1 | 9736.4 | 10140.5 | 10518.1 | 12389.9 | 12326.6 | 11087.6 | 12408.3 | 13057.4 |
| 55° | 11018.2 | 10863.1 | 10708.0 | 10926.4 | 11530.6 | 12002.1 | 14047.3 | 13283.9 | 11548.9 | 12902.2 | 13257.4 |
| 57.5° | 12406.2 | 12369.5 | 12210.3 | 12432.8 | 13165.5 | 13655.4 | 15531.3 | 14026.9 | 11844.9 | 13159.4 | 13022.7 |
| 60° | 14459.6 | 14400.4 | 14104.5 | 14388.2 | 15343.5 | 16113.0 | 16898.8 | 14694.4 | 11912.3 | 13059.4 | 12347.0 |
| 62.5° | 16929.5 | 16727.4 | 16474.3 | 16892.7 | 18203.1 | 18542.0 | 18186.8 | 15090.4 | 11661.2 | 12263.3 | 10718.2 |
| 65° | 19236.0 | 19027.8 | 19033.9 | 19915.7 | 21342.5 | 21573.1 | 19689.1 | 15031.2 | 10926.4 | 10269.1 | 7905.4 |
| 67.5° | 21001.6 | 20966.9 | 21215.9 | 22936.6 | 24802.2 | 24643.0 | 21032.2 | 14145.3 | 8748.4 | 6656.3 | 4200.7 |
| 70° | 21091.4 | 21158.8 | 21873.2 | 24777.7 | 26671.9 | 26418.8 | 20917.9 | 11497.9 | 5454.0 | 3061.8 | 1655.4 |
| 71° | 20005.5 | 20458.6 | 21446.6 | 24720.6 | 26782.2 | 26453.5 | 19954.5 | 9630.2 | 4000.7 | 2135.1 | 1194.1 |
| 72.5° | 17047.8 | 17286.7 | 19421.7 | 23265.2 | 25910.6 | 25208.4 | 17511.2 | 6750.1 | 2561.7 | 1306.3 | 685.8 |
| 75° | 9389.4 | 9977.2 | 13006.3 | 18252.1 | 20724.0 | 20107.6 | 11412.2 | 3206.7 | 1277.8 | 714.4 | 283.7 |
| 77.5° | 4470.2 | 4355.9 | 6346.0 | 10854.9 | 14051.4 | 14018.7 | 5750.0 | 1424.7 | 745.0 | 483.8 | 142.9 |
| 80° | 1277.8 | 1437.0 | 2429.0 | 5160.1 | 7801.3 | 7887.1 | 2208.5 | 687.9 | 516.4 | 377.6 | 73.5 |
| 82.5° | 385.8 | 393.9 | 892.0 | 2282.0 | 3880.3 | 3657.8 | 828.7 | 351.1 | 371.5 | 300.1 | 42.9 |
| 85° | 67.4 | 83.7 | 263.3 | 804.2 | 1479.8 | 1122.6 | 208.2 | 167.4 | 244.9 | 198.0 | 24.5 |
| 87.5° | 4.1 | 6.1 | 87.8 | 91.9 | 130.6 | 75.5 | 36.7 | 24.5 | 53.1 | 53.1 | 14.3 |
| 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° | 4276.2 | 4276.2 | 4276.2 | 4276.2 | 4276.2 | 4276.2 | 4276.2 | 4276.2 | 4276.2 | 4276.2 | 4276.2 |
| 2.5° | 4290.5 | 4302.8 | 4294.6 | 4276.2 | 4245.6 | 4208.9 | 4159.9 | 4119.1 | 4084.4 | 4066.0 | 4088.5 |
| 5° | 4317.1 | 4333.4 | 4292.6 | 4200.7 | 4061.9 | 3910.9 | 3739.4 | 3606.7 | 3502.6 | 3470.0 | 3457.7 |
| 7.5° | 4357.9 | 4368.1 | 4257.9 | 4053.8 | 3759.8 | 3402.6 | 3090.3 | 2827.0 | 2622.9 | 2561.7 | 2471.9 |
| 10° | 4411.0 | 4404.8 | 4196.6 | 3817.0 | 3300.6 | 2763.7 | 2280.0 | 1920.7 | 1649.3 | 1551.3 | 1543.1 |
| 12.5° | 4492.6 | 4460.0 | 4119.1 | 3494.5 | 2753.5 | 2051.4 | 1453.3 | 1136.9 | 965.5 | 908.3 | 896.1 |
| 15° | 4594.7 | 4517.1 | 3996.6 | 3116.9 | 2108.5 | 1324.7 | 896.1 | 800.1 | 777.7 | 773.6 | 769.5 |
| 17.5° | 4715.1 | 4592.6 | 3835.4 | 2653.5 | 1481.9 | 859.3 | 749.1 | 747.1 | 749.1 | 745.0 | 743.0 |
| 20° | 4878.4 | 4672.2 | 3643.5 | 2104.4 | 979.8 | 724.6 | 714.4 | 714.4 | 716.5 | 714.4 | 714.4 |
| 22.5° | 5051.9 | 4766.1 | 3406.7 | 1606.4 | 738.9 | 687.9 | 685.8 | 689.9 | 694.0 | 692.0 | 692.0 |
| 25° | 5266.2 | 4888.6 | 3094.4 | 1100.2 | 661.3 | 657.3 | 659.3 | 667.5 | 675.6 | 677.7 | 675.6 |
| 27.5° | 5576.5 | 5039.6 | 2759.7 | 757.3 | 606.2 | 610.3 | 630.7 | 651.1 | 663.4 | 665.4 | 665.4 |
| 30° | 5925.5 | 5207.0 | 2322.8 | 614.4 | 561.3 | 561.3 | 585.8 | 624.6 | 651.1 | 655.2 | 657.3 |
| 32.5° | 6374.6 | 5400.9 | 1839.1 | 553.2 | 518.5 | 514.4 | 536.8 | 583.8 | 632.8 | 647.1 | 647.1 |
| 35° | 6929.8 | 5629.5 | 1367.6 | 514.4 | 487.8 | 477.6 | 489.9 | 528.7 | 591.9 | 632.8 | 636.8 |
| 37.5° | 7580.9 | 5845.9 | 1000.2 | 479.7 | 459.3 | 445.0 | 453.1 | 483.8 | 534.8 | 596.0 | 612.4 |
| 40° | 8183.0 | 6037.8 | 747.1 | 451.1 | 430.7 | 420.5 | 426.6 | 440.9 | 483.8 | 540.9 | 551.1 |
| 42.5° | 8840.3 | 6186.8 | 594.0 | 420.5 | 402.1 | 398.0 | 398.0 | 404.2 | 432.7 | 465.4 | 467.4 |
| 45° | 9495.5 | 6239.9 | 498.0 | 383.7 | 371.5 | 375.6 | 373.5 | 369.5 | 381.7 | 377.6 | 377.6 |
| 47.5° | 9962.9 | 6176.6 | 412.3 | 349.0 | 349.0 | 355.2 | 345.0 | 330.7 | 324.5 | 300.1 | 302.1 |
| 50° | 10283.4 | 5945.9 | 338.8 | 308.2 | 324.5 | 332.7 | 312.3 | 289.8 | 267.4 | 240.9 | 234.7 |
| 52.5° | 10416.1 | 5535.6 | 277.6 | 255.1 | 287.8 | 298.0 | 273.5 | 247.0 | 212.3 | 189.8 | 183.7 |
| 55° | 10330.4 | 5029.4 | 230.7 | 208.2 | 242.9 | 255.1 | 230.7 | 200.0 | 161.3 | 136.8 | 132.7 |
| 57.5° | 9952.7 | 4425.3 | 196.0 | 165.3 | 193.9 | 202.1 | 185.7 | 153.1 | 114.3 | 89.8 | 89.8 |
| 60° | 9299.6 | 3800.7 | 159.2 | 130.6 | 144.9 | 157.2 | 140.8 | 110.2 | 77.6 | 55.1 | 51.0 |
| 62.5° | 7974.8 | 3086.2 | 128.6 | 102.1 | 102.1 | 112.3 | 98.0 | 79.6 | 49.0 | 28.6 | 26.5 |
| 65° | 5758.1 | 2116.7 | 102.1 | 75.5 | 73.5 | 73.5 | 61.2 | 53.1 | 28.6 | 12.2 | 8.2 |
| 67.5° | 3129.1 | 1194.1 | 81.6 | 57.2 | 51.0 | 49.0 | 38.8 | 30.6 | 12.2 | 2.0 | 0.0 |
| 70° | 1230.8 | 459.3 | 63.3 | 38.8 | 32.7 | 30.6 | 20.4 | 14.3 | 8.2 | 0.0 | 0.0 |
| 71° | 834.8 | 316.4 | 55.1 | 32.7 | 26.5 | 22.5 | 16.3 | 12.2 | 6.1 | 0.0 | 0.0 |
| 72.5° | 477.6 | 196.0 | 42.9 | 24.5 | 20.4 | 16.3 | 12.2 | 8.2 | 6.1 | 0.0 | 0.0 |
| 75° | 208.2 | 100.0 | 26.5 | 18.4 | 14.3 | 10.2 | 8.2 | 6.1 | 2.0 | 0.0 | 0.0 |
| 77.5° | 106.1 | 55.1 | 18.4 | 14.3 | 8.2 | 6.1 | 4.1 | 2.0 | 0.0 | 0.0 | 0.0 |
| 80° | 59.2 | 28.6 | 12.2 | 8.2 | 6.1 | 4.1 | 2.0 | 2.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 32.7 | 16.3 | 6.1 | 4.1 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 20.4 | 10.2 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 10.2 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 2.0 | 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)