

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: P533615

Luminaire Tested: **GALN-SA9A-740-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533615
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-SA9A-740-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 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: 24244 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

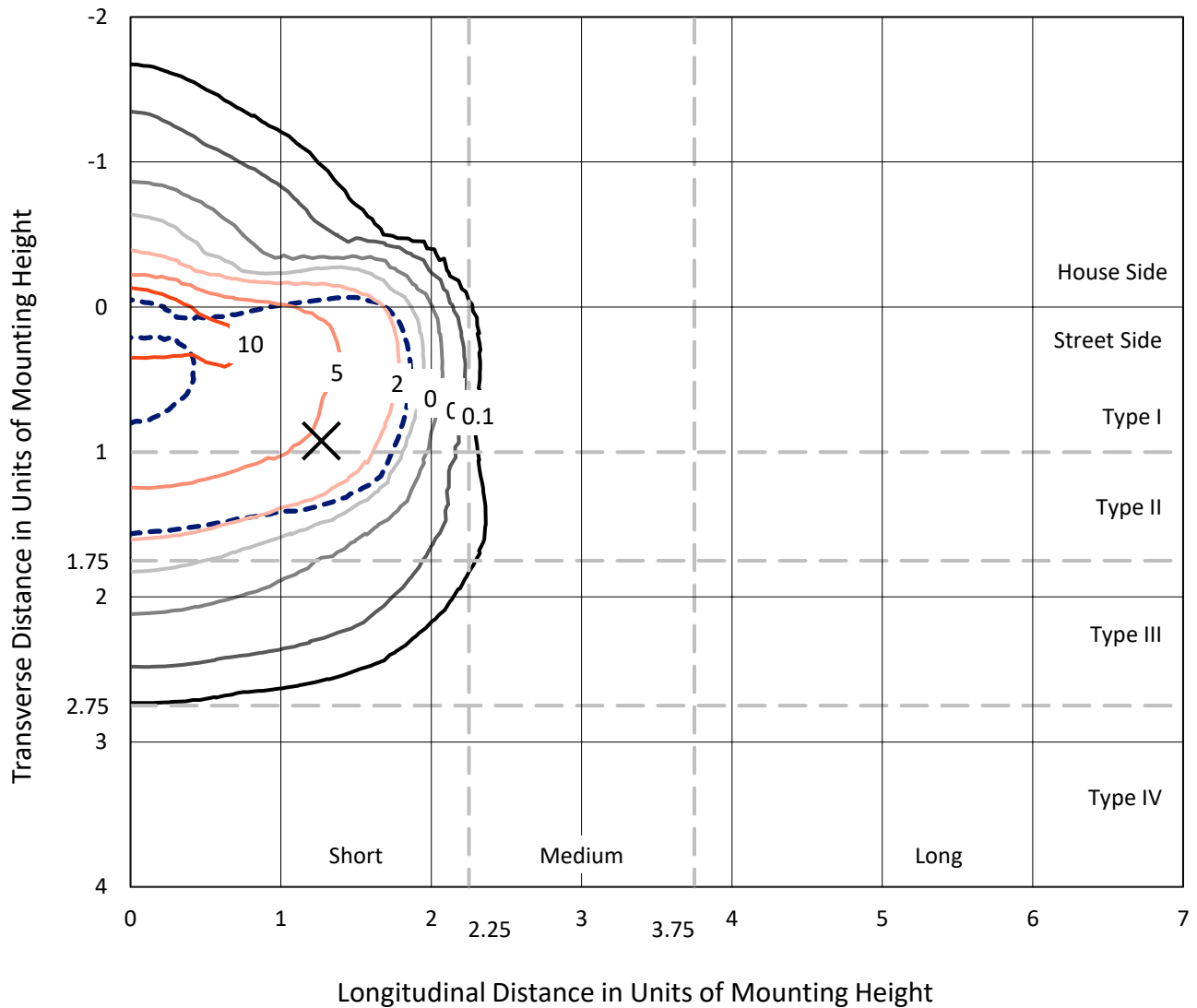
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

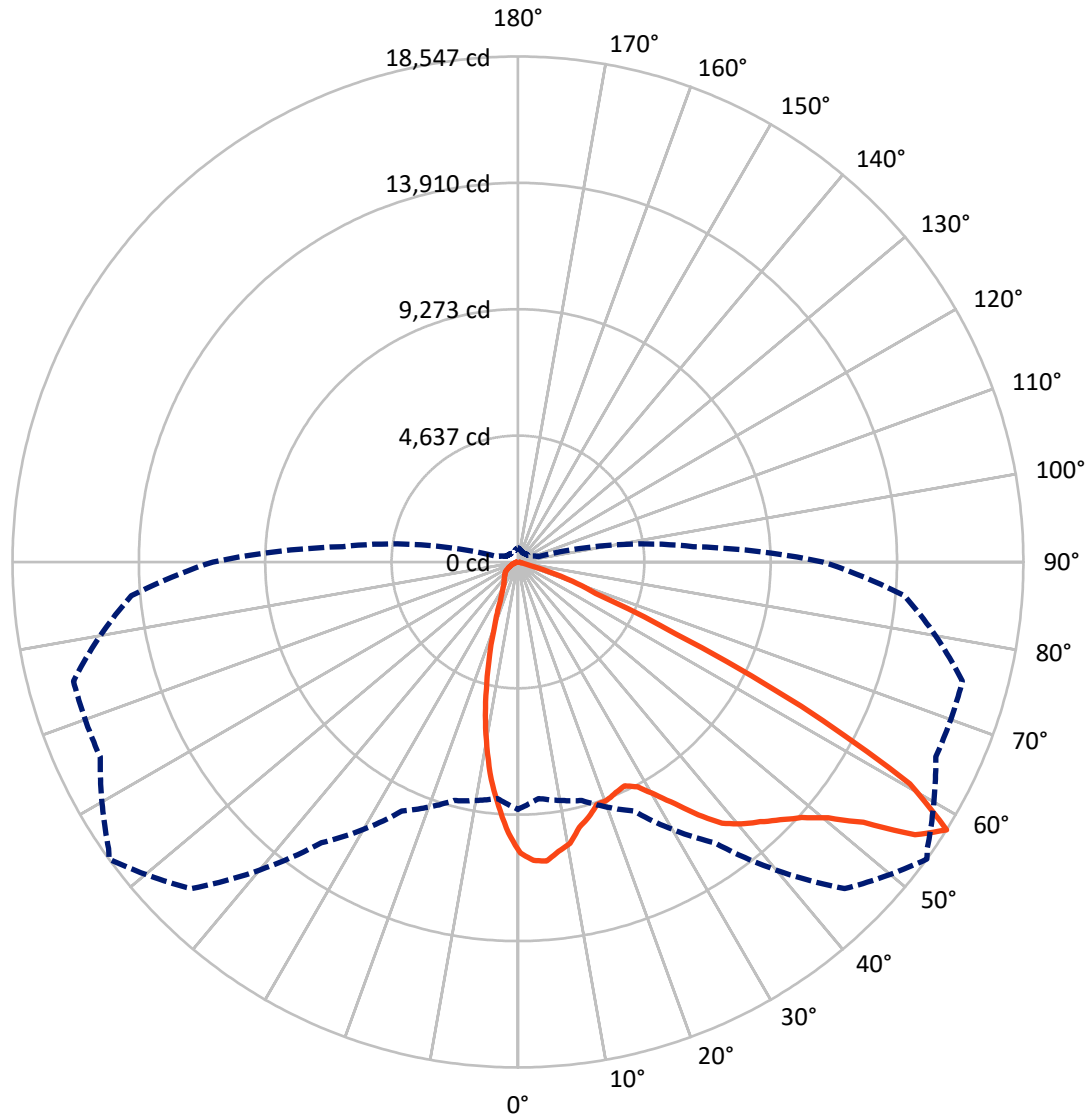
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 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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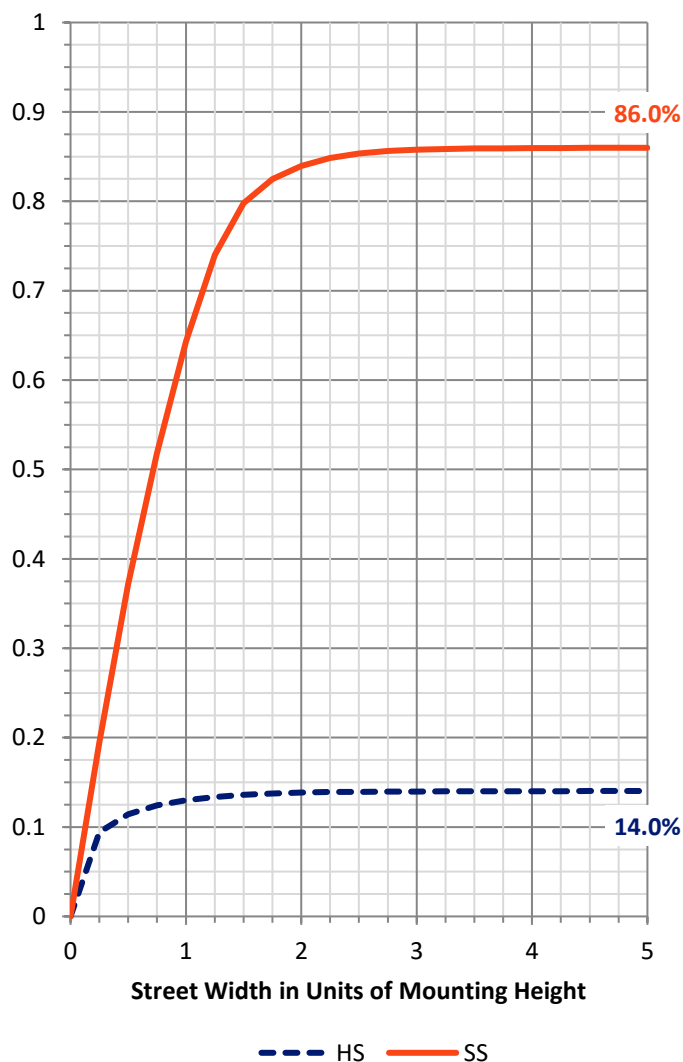
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3426.1 | 0.0 | 3426.1 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 20817.9 | 0.0 | 20817.9 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 24244.0 | 0.0 | 24244.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 893.7 | 3.7 |
| 10°-20° | 1908.0 | 7.9 |
| 20°-30° | 2528.5 | 10.4 |
| 30°-40° | 3674.7 | 15.2 |
| 40°-50° | 5449.1 | 22.5 |
| 50°-60° | 6813.8 | 28.1 |
| 60°-70° | 2687.7 | 11.1 |
| 70°-80° | 267.6 | 1.1 |
| 80°-90° | 20.8 | 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° | 24244.0 | 100.0 |
| 0°-180° | 24244.0 | 100.0 |

Coefficient of Utilization



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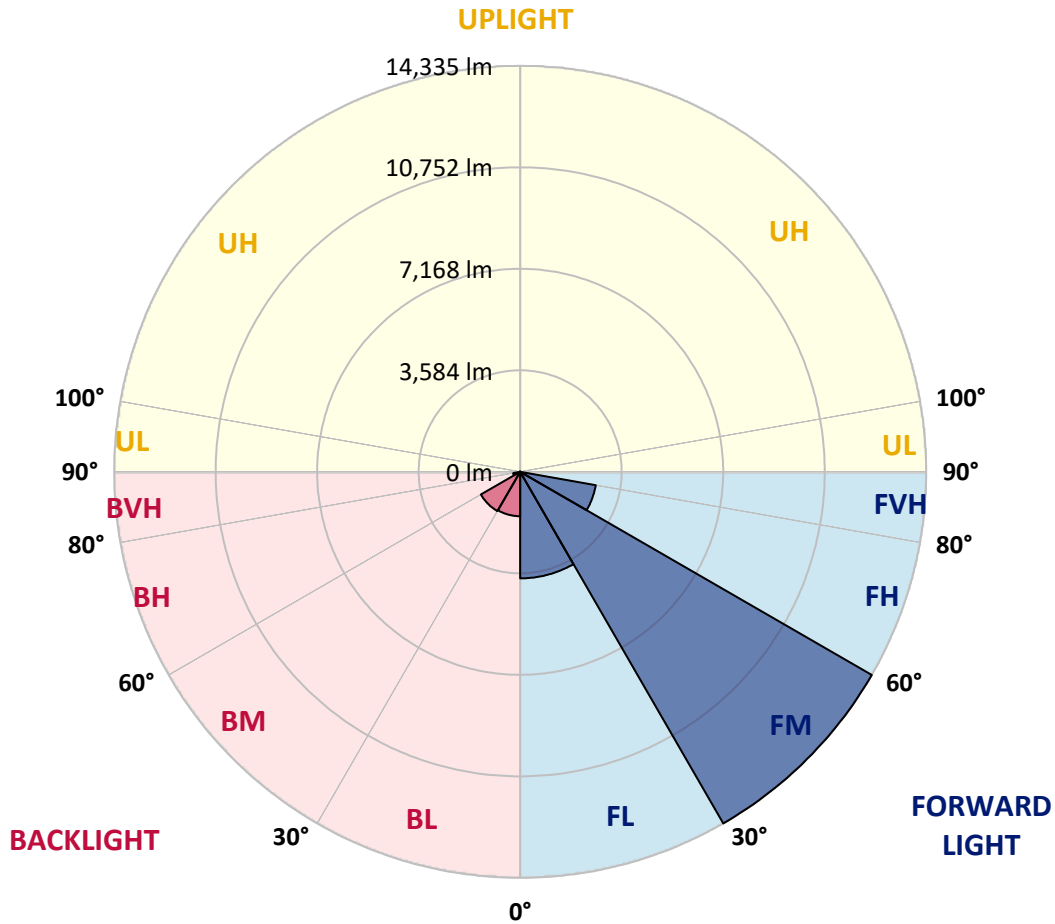
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3763.4 | 15.5 | | | |
| FM (30°-60°) | 14335.4 | 59.1 | | | |
| FH (60°-80°) | 2709.7 | 11.2 | | | G2/5000 |
| FVH (80°-90°) | 9.4 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1566.9 | 6.5 | B3/2500 | | |
| BM (30°-60°) | 1602.1 | 6.6 | B2/2500 | | |
| BH (60°-80°) | 245.7 | 1.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 11.4 | 0.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10679.8 | 10679.8 | 10679.8 | 10679.8 | 10679.8 | 10679.8 | 10679.8 | 10679.8 | 10679.8 | 10679.8 | 10679.8 |
| 2.5° | 11301.9 | 11184.7 | 11193.7 | 11153.2 | 11099.1 | 11139.6 | 10963.8 | 11004.4 | 10999.9 | 10761.0 | 10603.2 |
| 5° | 11017.9 | 11144.1 | 11013.4 | 11121.6 | 11017.9 | 11130.6 | 11022.4 | 10941.3 | 10810.5 | 10634.7 | 10341.7 |
| 7.5° | 10535.5 | 10413.8 | 10449.9 | 10585.1 | 10607.7 | 10860.1 | 10724.9 | 10828.6 | 10774.5 | 10427.4 | 10026.1 |
| 10° | 9566.3 | 9539.2 | 9719.6 | 9899.9 | 10120.8 | 10391.3 | 10495.0 | 10436.4 | 10395.8 | 10265.1 | 9728.6 |
| 12.5° | 8822.5 | 8899.1 | 8894.6 | 9192.1 | 9566.3 | 9719.6 | 9990.1 | 9981.0 | 10206.5 | 9963.0 | 9449.1 |
| 15° | 8114.7 | 8155.2 | 8344.6 | 8529.4 | 8944.2 | 9381.5 | 9715.1 | 9760.1 | 10030.6 | 9859.3 | 9232.7 |
| 17.5° | 7681.9 | 7623.3 | 7772.1 | 7993.0 | 8416.7 | 8989.3 | 9358.9 | 9467.1 | 9836.8 | 9800.7 | 8984.7 |
| 20° | 7253.6 | 7253.6 | 7375.3 | 7636.8 | 8024.5 | 8669.2 | 9327.4 | 9295.8 | 9836.8 | 9733.1 | 8718.8 |
| 22.5° | 7109.4 | 7181.5 | 7213.0 | 7411.4 | 7871.2 | 8425.7 | 9192.1 | 9250.7 | 9913.4 | 9701.5 | 8601.6 |
| 25° | 7307.7 | 7213.0 | 7222.1 | 7379.8 | 7812.6 | 8308.5 | 9092.9 | 9223.7 | 10053.2 | 9859.3 | 8506.9 |
| 27.5° | 7339.3 | 7433.9 | 7461.0 | 7569.2 | 7857.7 | 8344.6 | 9340.9 | 9606.9 | 10400.3 | 10229.0 | 8533.9 |
| 30° | 7614.3 | 7708.9 | 7704.4 | 7889.3 | 8087.6 | 8637.6 | 9895.4 | 9949.5 | 11117.1 | 10693.3 | 8700.7 |
| 32.5° | 7947.9 | 8047.0 | 8078.6 | 8295.0 | 8452.8 | 9174.1 | 10571.6 | 10711.4 | 11806.8 | 11423.7 | 9138.0 |
| 35° | 8362.6 | 8326.6 | 8470.8 | 8687.2 | 9025.3 | 9958.5 | 11396.6 | 11631.0 | 12550.7 | 12370.4 | 9588.8 |
| 37.5° | 8881.1 | 8836.0 | 8975.7 | 9327.4 | 9787.2 | 10887.2 | 12158.5 | 12311.8 | 13091.7 | 13249.5 | 10422.8 |
| 40° | 9246.2 | 9264.2 | 9688.0 | 10161.4 | 10648.3 | 11770.8 | 12640.9 | 12789.6 | 13470.4 | 14069.9 | 11054.0 |
| 42.5° | 9854.8 | 9967.5 | 10476.9 | 11054.0 | 11563.4 | 12433.5 | 13033.1 | 13177.3 | 13646.2 | 14728.1 | 11906.0 |
| 45° | 10738.4 | 10688.8 | 11252.3 | 11897.0 | 12460.5 | 13123.2 | 13497.4 | 13447.8 | 13749.9 | 15381.8 | 12442.5 |
| 47.5° | 11874.5 | 11883.5 | 12257.7 | 12807.7 | 13393.7 | 13722.8 | 14015.8 | 13840.0 | 13966.3 | 16071.6 | 13159.3 |
| 50° | 12649.9 | 12717.5 | 13019.5 | 13583.1 | 13876.1 | 14381.0 | 14755.2 | 14647.0 | 14606.4 | 16486.3 | 13610.1 |
| 52.5° | 12848.2 | 13051.1 | 13213.4 | 13916.7 | 14601.9 | 15399.8 | 15877.7 | 16107.6 | 15386.3 | 16626.1 | 14182.6 |
| 55° | 11351.5 | 11531.8 | 12104.4 | 13069.1 | 14876.9 | 17013.8 | 17671.9 | 17676.5 | 16405.2 | 17248.2 | 14583.9 |
| 57.5° | 9074.9 | 8709.7 | 9061.4 | 10084.7 | 12577.7 | 16946.1 | 18546.5 | 18334.6 | 16914.6 | 16883.0 | 14236.7 |
| 60° | 6275.3 | 6185.2 | 6207.7 | 6613.5 | 8705.2 | 13479.4 | 16526.9 | 16801.9 | 15575.7 | 14633.5 | 11270.4 |
| 62.5° | 4972.5 | 4895.9 | 4796.7 | 4751.6 | 5405.3 | 8398.7 | 11658.1 | 12045.8 | 10891.7 | 9489.7 | 6681.1 |
| 65° | 3895.0 | 3850.0 | 3863.5 | 4043.8 | 4039.3 | 4765.1 | 6374.5 | 6216.7 | 4977.0 | 3678.7 | 2100.8 |
| 67.5° | 2628.3 | 2695.9 | 2750.0 | 3295.5 | 3575.0 | 3318.0 | 3079.1 | 2988.9 | 1618.4 | 680.7 | 464.3 |
| 70° | 1478.7 | 1487.7 | 1546.3 | 2060.2 | 2713.9 | 2574.2 | 2123.3 | 2123.3 | 807.0 | 247.9 | 266.0 |
| 72.5° | 807.0 | 779.9 | 725.8 | 888.1 | 1208.2 | 1226.2 | 946.7 | 825.0 | 238.9 | 162.3 | 148.8 |
| 75° | 392.2 | 387.7 | 333.6 | 275.0 | 261.5 | 216.4 | 166.8 | 153.3 | 108.2 | 103.7 | 90.2 |
| 77.5° | 81.1 | 76.6 | 40.6 | 40.6 | 45.1 | 49.6 | 63.1 | 63.1 | 76.6 | 76.6 | 63.1 |
| 80° | 0.0 | 0.0 | 4.5 | 18.0 | 31.6 | 45.1 | 54.1 | 54.1 | 63.1 | 63.1 | 49.6 |
| 82.5° | 0.0 | 0.0 | 4.5 | 13.5 | 27.0 | 40.6 | 49.6 | 54.1 | 63.1 | 67.6 | 54.1 |
| 85° | 0.0 | 0.0 | 0.0 | 9.0 | 22.5 | 31.6 | 27.0 | 27.0 | 22.5 | 18.0 | 9.0 |
| 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10679.8 | 10679.8 | 10679.8 | 10679.8 | 10679.8 | 10679.8 | 10679.8 | 10679.8 | 10679.8 | 10679.8 | 10679.8 |
| 2.5° | 10522.0 | 10513.0 | 10305.6 | 10188.4 | 9976.5 | 9791.7 | 9642.9 | 9534.7 | 9534.7 | 9467.1 | 9404.0 |
| 5° | 10224.5 | 10147.8 | 9706.0 | 9422.0 | 9020.8 | 8723.3 | 8520.4 | 8362.6 | 8114.7 | 8182.3 | 7916.3 |
| 7.5° | 9854.8 | 9661.0 | 9074.9 | 8642.1 | 8087.6 | 7663.9 | 7231.1 | 6847.9 | 6478.2 | 6311.4 | 6401.6 |
| 10° | 9458.1 | 9120.0 | 8331.1 | 7645.8 | 6956.1 | 6180.7 | 5675.8 | 5062.7 | 4684.0 | 4661.4 | 4562.2 |
| 12.5° | 9038.8 | 8655.6 | 7695.4 | 6748.7 | 5842.6 | 4909.4 | 4138.5 | 3565.9 | 3309.0 | 3025.0 | 3079.1 |
| 15° | 8723.3 | 8155.2 | 6987.6 | 5847.1 | 4643.4 | 3701.2 | 2925.8 | 2484.0 | 2240.6 | 2172.9 | 2150.4 |
| 17.5° | 8380.7 | 7772.1 | 6266.3 | 4886.8 | 3642.6 | 2664.3 | 2105.3 | 1893.4 | 1798.8 | 1798.8 | 1785.2 |
| 20° | 8024.5 | 7339.3 | 5549.5 | 3994.2 | 2731.9 | 1988.1 | 1686.0 | 1618.4 | 1613.9 | 1609.4 | 1609.4 |
| 22.5° | 7790.1 | 6843.4 | 4900.4 | 3173.7 | 2060.2 | 1591.4 | 1465.1 | 1438.1 | 1456.1 | 1510.2 | 1510.2 |
| 25° | 7542.1 | 6365.5 | 4183.6 | 2447.9 | 1595.9 | 1366.0 | 1293.8 | 1311.9 | 1357.0 | 1406.5 | 1388.5 |
| 27.5° | 7289.7 | 6054.4 | 3507.3 | 1920.5 | 1307.4 | 1194.7 | 1167.6 | 1208.2 | 1257.8 | 1302.9 | 1289.3 |
| 30° | 7231.1 | 5720.8 | 2867.2 | 1456.1 | 1122.5 | 1041.4 | 1059.4 | 1095.5 | 1145.1 | 1163.1 | 1181.1 |
| 32.5° | 7321.2 | 5459.4 | 2348.7 | 1194.7 | 978.3 | 955.7 | 955.7 | 973.8 | 1005.3 | 1045.9 | 1032.4 |
| 35° | 7578.2 | 5310.6 | 1857.4 | 1036.9 | 897.1 | 874.6 | 870.1 | 888.1 | 906.1 | 919.7 | 906.1 |
| 37.5° | 7970.4 | 5193.4 | 1519.2 | 919.7 | 843.0 | 807.0 | 797.9 | 793.4 | 811.5 | 816.0 | 825.0 |
| 40° | 8470.8 | 5256.5 | 1289.3 | 847.5 | 788.9 | 748.4 | 721.3 | 721.3 | 721.3 | 734.8 | 739.3 |
| 42.5° | 9011.8 | 5342.2 | 1113.5 | 807.0 | 739.3 | 689.7 | 662.7 | 653.7 | 662.7 | 680.7 | 676.2 |
| 45° | 9579.8 | 5509.0 | 1000.8 | 743.8 | 694.3 | 631.1 | 595.1 | 586.1 | 608.6 | 644.7 | 640.2 |
| 47.5° | 10111.8 | 5747.9 | 915.2 | 703.3 | 649.2 | 590.6 | 545.5 | 536.5 | 577.0 | 626.6 | 631.1 |
| 50° | 10643.7 | 6162.6 | 883.6 | 671.7 | 617.6 | 550.0 | 509.4 | 500.4 | 545.5 | 608.6 | 622.1 |
| 52.5° | 11256.9 | 6608.9 | 861.1 | 631.1 | 581.6 | 518.4 | 473.4 | 464.3 | 513.9 | 595.1 | 599.6 |
| 55° | 11658.1 | 6987.6 | 843.0 | 559.0 | 513.9 | 468.8 | 432.8 | 428.3 | 482.4 | 554.5 | 572.5 |
| 57.5° | 11189.2 | 6460.2 | 779.9 | 486.9 | 437.3 | 414.7 | 383.2 | 383.2 | 428.3 | 495.9 | 509.4 |
| 60° | 8484.3 | 4251.2 | 554.5 | 392.2 | 369.7 | 356.1 | 342.6 | 342.6 | 378.7 | 428.3 | 432.8 |
| 62.5° | 4968.0 | 2290.1 | 356.1 | 315.6 | 315.6 | 302.0 | 279.5 | 279.5 | 315.6 | 342.6 | 347.1 |
| 65° | 1474.2 | 734.8 | 288.5 | 270.5 | 266.0 | 243.4 | 220.9 | 216.4 | 243.4 | 257.0 | 252.5 |
| 67.5° | 423.8 | 338.1 | 238.9 | 225.4 | 220.9 | 184.8 | 171.3 | 166.8 | 171.3 | 162.3 | 157.8 |
| 70° | 252.5 | 229.9 | 184.8 | 189.3 | 166.8 | 135.2 | 121.7 | 117.2 | 108.2 | 94.7 | 85.7 |
| 72.5° | 139.8 | 139.8 | 135.2 | 144.3 | 117.2 | 90.2 | 76.6 | 63.1 | 49.6 | 40.6 | 36.1 |
| 75° | 85.7 | 90.2 | 94.7 | 99.2 | 76.6 | 58.6 | 49.6 | 31.6 | 18.0 | 9.0 | 9.0 |
| 77.5° | 58.6 | 63.1 | 67.6 | 72.1 | 63.1 | 54.1 | 40.6 | 22.5 | 4.5 | 0.0 | 0.0 |
| 80° | 45.1 | 49.6 | 58.6 | 63.1 | 67.6 | 72.1 | 54.1 | 22.5 | 4.5 | 0.0 | 0.0 |
| 82.5° | 49.6 | 54.1 | 67.6 | 63.1 | 63.1 | 63.1 | 49.6 | 22.5 | 4.5 | 0.0 | 0.0 |
| 85° | 9.0 | 13.5 | 22.5 | 22.5 | 31.6 | 40.6 | 31.6 | 9.0 | 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)