

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: P530117

Luminaire Tested: **GALN-SA5B-740-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530117
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-740-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17331 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

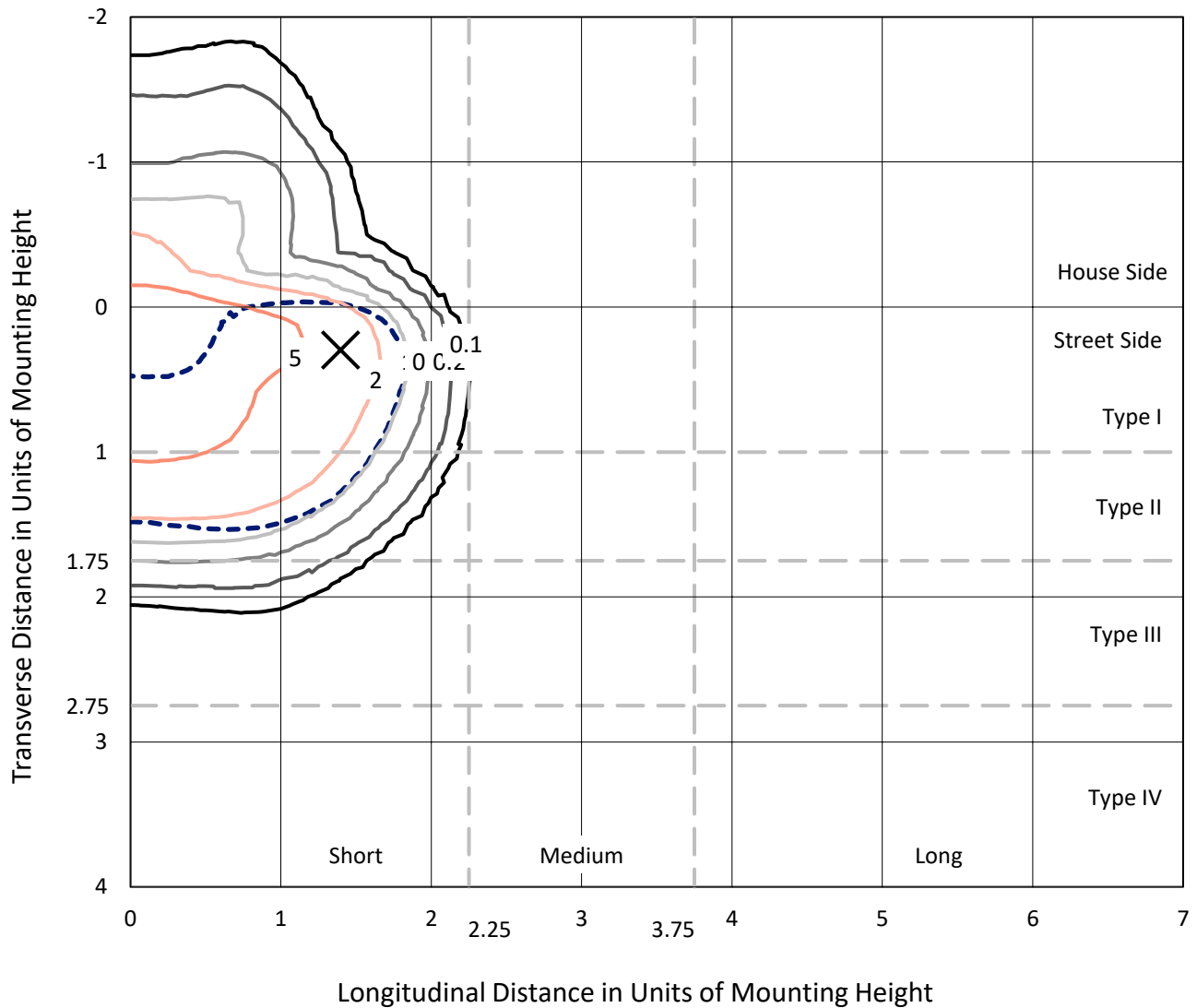
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

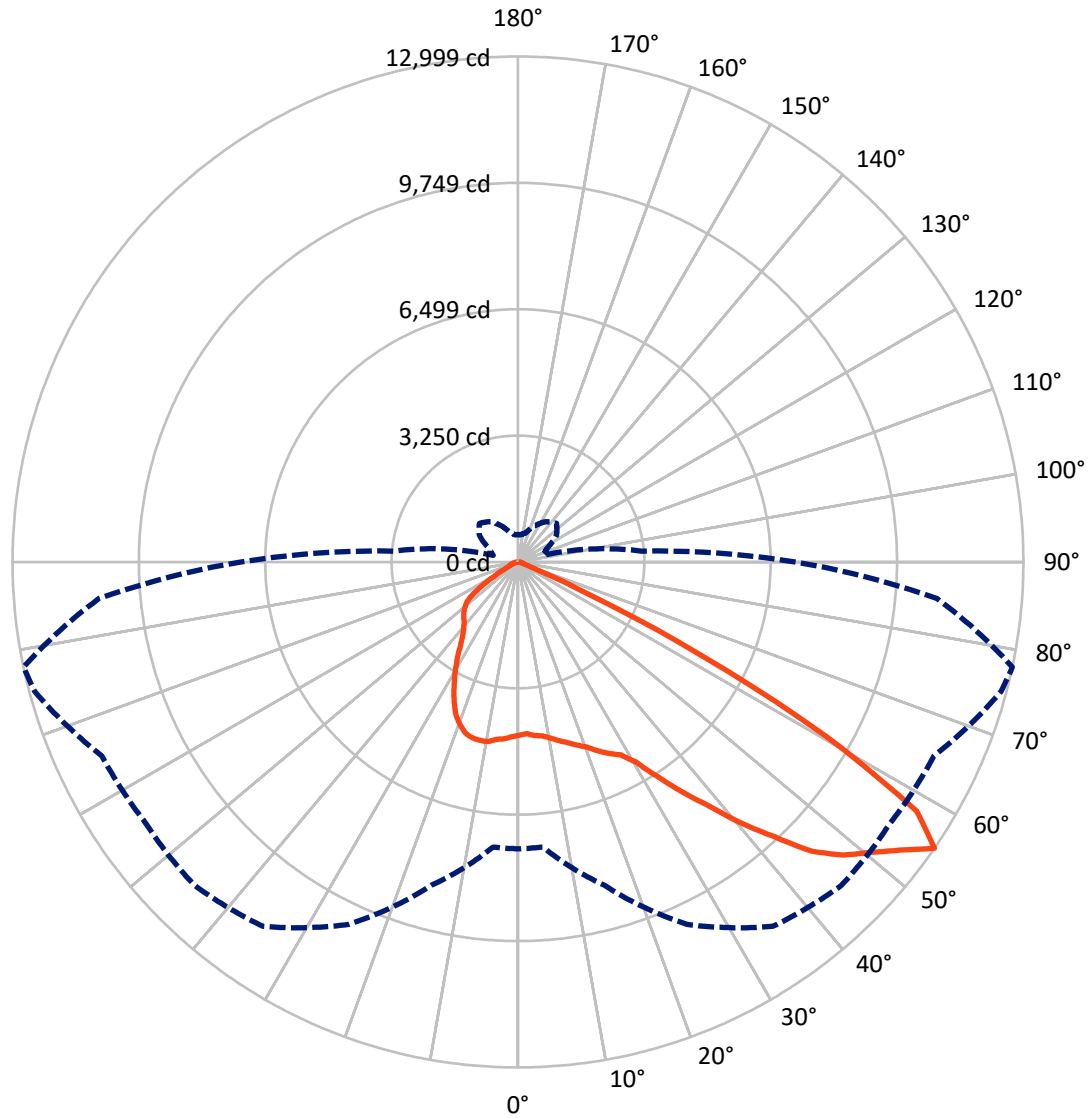
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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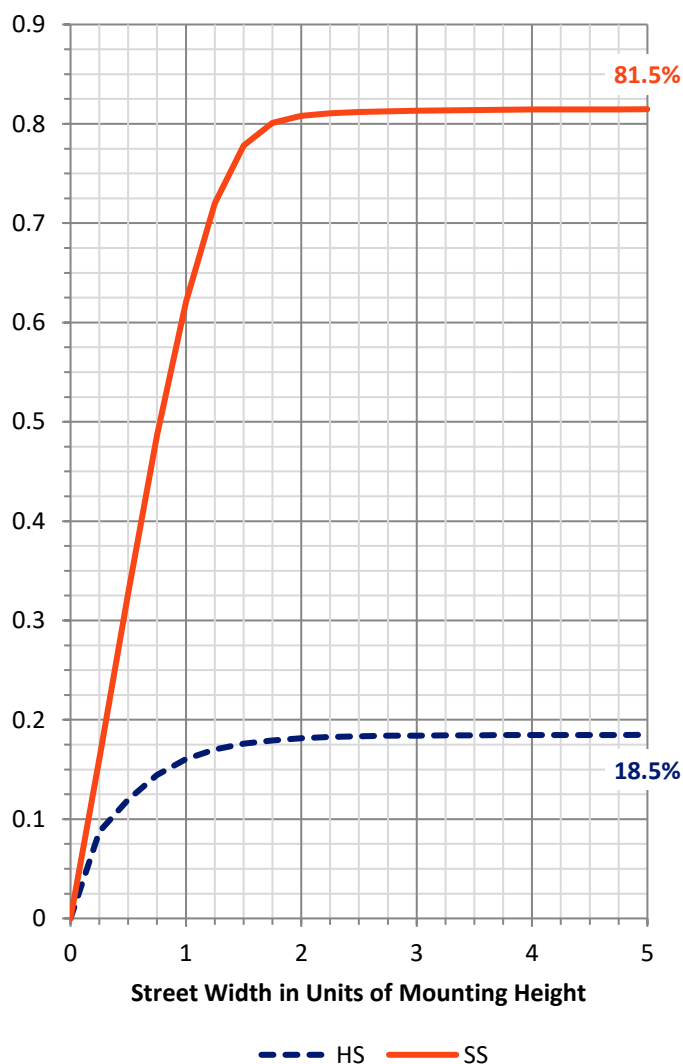
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3219.1 | 0.0 | 3219.1 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 14112.0 | 0.0 | 14112.0 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 17331.0 | 0.0 | 17331.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 397.3 | 2.3 |
| 10°-20° | 1051.5 | 6.1 |
| 20°-30° | 1843.1 | 10.6 |
| 30°-40° | 3039.0 | 17.5 |
| 40°-50° | 4422.2 | 25.5 |
| 50°-60° | 5010.8 | 28.9 |
| 60°-70° | 1432.7 | 8.3 |
| 70°-80° | 111.3 | 0.6 |
| 80°-90° | 23.2 | 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° | 17331.0 | 100.0 |
| 0°-180° | 17331.0 | 100.0 |

Coefficient of Utilization



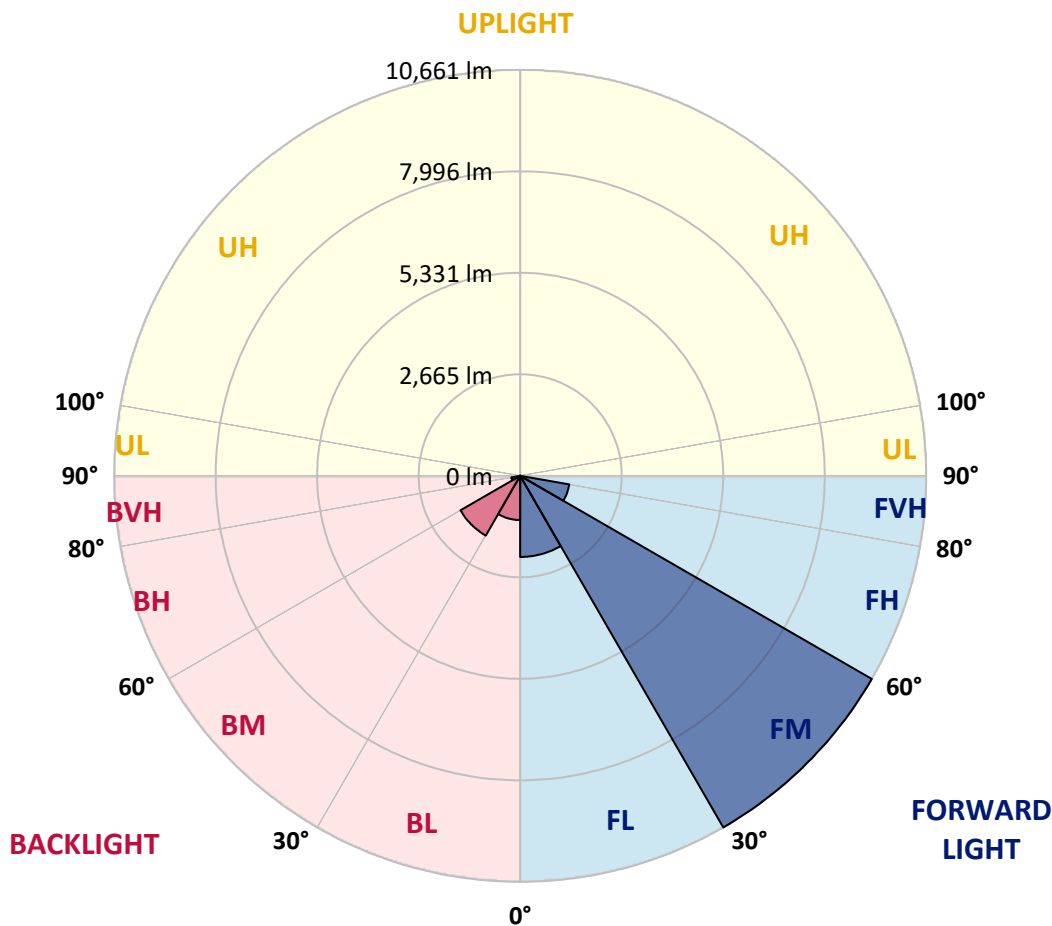
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2130.5 | 12.3 | | | |
| FM (30°-60°) | 10661.3 | 61.5 | | | |
| FH (60°-80°) | 1309.0 | 7.6 | | | G1/1800 |
| FVH (80°-90°) | 11.3 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1161.4 | 6.7 | B3/2500 | | |
| BM (30°-60°) | 1810.8 | 10.4 | B2/2500 | | |
| BH (60°-80°) | 235.0 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 11.9 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 78° | 85° |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4455.8 | 4455.8 | 4455.8 | 4455.8 | 4455.8 | 4455.8 | 4455.8 | 4455.8 | 4455.8 | 4455.8 | 4455.8 |
| 2.5° | 4189.3 | 4229.6 | 4235.8 | 4285.4 | 4282.3 | 4366.0 | 4390.7 | 4393.8 | 4449.6 | 4421.7 | 4493.0 |
| 5° | 4071.6 | 4049.9 | 4040.6 | 4127.4 | 4152.1 | 4226.5 | 4288.5 | 4325.7 | 4440.3 | 4480.6 | 4555.0 |
| 7.5° | 3966.2 | 3966.2 | 3972.4 | 4049.9 | 4040.6 | 4136.7 | 4201.7 | 4316.4 | 4483.7 | 4517.8 | 4607.6 |
| 10° | 3864.0 | 3826.8 | 3873.3 | 3953.8 | 4022.0 | 4065.4 | 4201.7 | 4310.2 | 4505.4 | 4604.5 | 4728.5 |
| 12.5° | 3811.3 | 3829.9 | 3836.1 | 3895.0 | 3969.3 | 4099.5 | 4173.8 | 4353.6 | 4660.3 | 4719.2 | 4852.4 |
| 15° | 4142.9 | 4105.7 | 4015.8 | 3963.1 | 4025.1 | 4087.1 | 4273.0 | 4455.8 | 4740.9 | 4824.5 | 4973.3 |
| 17.5° | 4527.1 | 4496.1 | 4421.7 | 4279.2 | 4139.8 | 4254.4 | 4400.0 | 4567.4 | 4827.6 | 4951.6 | 5171.6 |
| 20° | 5029.1 | 4979.5 | 4905.1 | 4626.2 | 4505.4 | 4381.4 | 4536.4 | 4734.7 | 4970.2 | 5081.7 | 5307.9 |
| 22.5° | 5627.1 | 5627.1 | 5459.8 | 5122.0 | 4871.0 | 4753.3 | 4818.3 | 4933.0 | 5128.2 | 5280.0 | 5503.1 |
| 25° | 6249.9 | 6231.3 | 6079.5 | 5729.3 | 5304.8 | 5165.4 | 5239.8 | 5320.3 | 5373.0 | 5456.7 | 5605.4 |
| 27.5° | 6962.6 | 6854.1 | 6662.0 | 6274.7 | 5899.8 | 5630.2 | 5710.7 | 5639.5 | 5574.4 | 5617.8 | 5831.6 |
| 30° | 7446.0 | 7514.1 | 7269.4 | 6897.5 | 6544.3 | 6243.7 | 6259.2 | 6197.2 | 5899.8 | 5961.7 | 6088.8 |
| 32.5° | 7948.0 | 7991.3 | 7855.0 | 7650.5 | 7297.2 | 6947.1 | 6820.1 | 6767.4 | 6544.3 | 6572.2 | 6448.2 |
| 35° | 8366.3 | 8449.9 | 8329.1 | 8239.2 | 8137.0 | 7855.0 | 7504.8 | 7675.3 | 7315.8 | 7247.7 | 6925.4 |
| 37.5° | 8750.5 | 8725.7 | 8868.2 | 8775.3 | 8753.6 | 8555.3 | 8171.1 | 8205.1 | 7963.4 | 7948.0 | 7576.1 |
| 40° | 9094.4 | 9100.6 | 9295.8 | 9339.2 | 9252.5 | 8899.2 | 8341.5 | 8611.1 | 8806.3 | 8824.9 | 8347.7 |
| 42.5° | 9379.5 | 9463.2 | 9630.5 | 9980.6 | 9850.5 | 9261.8 | 8518.1 | 8812.5 | 9537.5 | 9652.2 | 9078.9 |
| 45° | 9627.4 | 9797.8 | 10005.4 | 10318.4 | 10244.0 | 9776.1 | 8958.1 | 9227.7 | 10318.4 | 10619.0 | 9766.8 |
| 47.5° | 9642.9 | 9866.0 | 10092.2 | 10557.0 | 10649.9 | 10051.9 | 9413.6 | 9884.6 | 10938.1 | 11263.5 | 10268.8 |
| 50° | 9580.9 | 9698.7 | 10151.1 | 10656.1 | 10866.8 | 10501.2 | 10051.9 | 10436.1 | 11539.2 | 11743.8 | 10522.9 |
| 52.5° | 8846.5 | 8936.4 | 9844.3 | 10749.1 | 11257.3 | 11009.4 | 10897.8 | 11204.6 | 12152.8 | 12304.6 | 10761.5 |
| 55° | 7374.7 | 7359.2 | 8608.0 | 10281.2 | 11437.0 | 11762.3 | 11694.2 | 11802.6 | 12862.4 | 12998.7 | 10820.4 |
| 57.5° | 5044.5 | 5326.5 | 6404.8 | 8561.5 | 10337.0 | 11585.7 | 11657.0 | 11477.3 | 12035.0 | 12087.7 | 9432.2 |
| 60° | 2720.6 | 2838.3 | 3705.9 | 5713.8 | 7870.5 | 9441.5 | 9627.4 | 9302.0 | 9258.7 | 9109.9 | 6733.3 |
| 62.5° | 1081.4 | 1140.3 | 1633.0 | 2829.0 | 4288.5 | 5738.6 | 6138.4 | 6005.1 | 5720.0 | 5329.6 | 3485.9 |
| 65° | 514.4 | 551.6 | 811.8 | 1323.1 | 1902.6 | 2392.1 | 2791.9 | 2915.8 | 2150.4 | 1936.6 | 1149.6 |
| 67.5° | 350.1 | 378.0 | 591.8 | 756.1 | 678.6 | 709.6 | 923.4 | 858.3 | 505.1 | 430.7 | 319.2 |
| 70° | 266.5 | 285.1 | 474.1 | 514.4 | 303.7 | 213.8 | 238.6 | 223.1 | 207.6 | 210.7 | 207.6 |
| 72.5° | 189.0 | 204.5 | 347.0 | 303.7 | 133.2 | 99.2 | 127.0 | 151.8 | 151.8 | 151.8 | 148.7 |
| 75° | 114.6 | 130.1 | 201.4 | 117.7 | 52.7 | 52.7 | 80.6 | 102.3 | 108.5 | 111.6 | 105.4 |
| 77.5° | 58.9 | 74.4 | 68.2 | 34.1 | 34.1 | 40.3 | 58.9 | 71.3 | 77.5 | 77.5 | 74.4 |
| 80° | 12.4 | 12.4 | 12.4 | 18.6 | 34.1 | 43.4 | 58.9 | 65.1 | 74.4 | 74.4 | 68.2 |
| 82.5° | 0.0 | 3.1 | 9.3 | 18.6 | 31.0 | 40.3 | 55.8 | 65.1 | 74.4 | 77.5 | 71.3 |
| 85° | 0.0 | 3.1 | 6.2 | 12.4 | 21.7 | 24.8 | 21.7 | 18.6 | 18.6 | 18.6 | 18.6 |
| 87.5° | 0.0 | 0.0 | 3.1 | 3.1 | 3.1 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| 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° | 4455.8 | 4455.8 | 4455.8 | 4455.8 | 4455.8 | 4455.8 | 4455.8 | 4455.8 | 4455.8 | 4455.8 | 4455.8 |
| 2.5° | 4499.2 | 4508.5 | 4493.0 | 4489.9 | 4477.5 | 4514.7 | 4424.8 | 4403.1 | 4458.9 | 4406.2 | 4418.6 |
| 5° | 4558.1 | 4579.8 | 4551.9 | 4505.4 | 4437.2 | 4331.9 | 4242.0 | 4124.3 | 4068.5 | 4028.2 | 4022.0 |
| 7.5° | 4601.4 | 4616.9 | 4589.1 | 4440.3 | 4235.8 | 3969.3 | 3771.0 | 3625.4 | 3510.7 | 3476.6 | 3420.9 |
| 10° | 4778.1 | 4781.2 | 4641.7 | 4313.3 | 3913.6 | 3563.4 | 3259.7 | 3036.6 | 2922.0 | 2850.7 | 2819.7 |
| 12.5° | 4895.8 | 4889.6 | 4607.6 | 4062.3 | 3529.3 | 3064.5 | 2717.5 | 2447.9 | 2342.6 | 2308.5 | 2286.8 |
| 15° | 5044.5 | 5010.5 | 4527.1 | 3805.1 | 3033.5 | 2531.6 | 2218.6 | 2032.7 | 2023.4 | 2001.7 | 2023.4 |
| 17.5° | 5162.3 | 5066.2 | 4409.3 | 3337.2 | 2559.5 | 2085.4 | 1880.9 | 1893.3 | 1918.0 | 1939.7 | 1942.8 |
| 20° | 5354.4 | 5156.1 | 4139.8 | 2928.2 | 2119.5 | 1787.9 | 1784.8 | 1840.6 | 1902.6 | 1927.3 | 1952.1 |
| 22.5° | 5500.0 | 5193.3 | 3851.6 | 2491.3 | 1760.0 | 1667.1 | 1719.7 | 1803.4 | 1849.9 | 1874.7 | 1911.8 |
| 25° | 5552.7 | 5091.0 | 3467.4 | 2054.4 | 1586.5 | 1611.3 | 1691.8 | 1747.6 | 1806.5 | 1834.4 | 1818.9 |
| 27.5° | 5605.4 | 5038.4 | 3008.8 | 1691.8 | 1493.5 | 1574.1 | 1642.3 | 1698.0 | 1716.6 | 1753.8 | 1778.6 |
| 30° | 5732.4 | 4855.5 | 2596.6 | 1462.5 | 1447.1 | 1549.3 | 1598.9 | 1617.5 | 1667.1 | 1688.7 | 1688.7 |
| 32.5° | 5834.7 | 4784.3 | 2159.7 | 1354.1 | 1440.9 | 1561.7 | 1567.9 | 1567.9 | 1574.1 | 1558.6 | 1552.4 |
| 35° | 6045.4 | 4539.5 | 1769.3 | 1289.0 | 1437.8 | 1564.8 | 1580.3 | 1527.6 | 1385.1 | 1329.3 | 1313.8 |
| 37.5° | 6305.7 | 4381.4 | 1481.1 | 1273.5 | 1459.4 | 1602.0 | 1626.8 | 1428.5 | 1242.5 | 1152.7 | 1137.2 |
| 40° | 6621.7 | 4269.9 | 1292.1 | 1267.3 | 1509.0 | 1688.7 | 1614.4 | 1351.0 | 1109.3 | 979.2 | 973.0 |
| 42.5° | 6990.5 | 4167.6 | 1165.1 | 1264.2 | 1571.0 | 1778.6 | 1602.0 | 1285.9 | 973.0 | 886.2 | 898.6 |
| 45° | 7284.8 | 4111.9 | 1078.3 | 1242.5 | 1592.7 | 1831.3 | 1611.3 | 1171.3 | 917.2 | 861.4 | 867.6 |
| 47.5° | 7514.1 | 3994.1 | 1007.1 | 1205.4 | 1589.6 | 1849.9 | 1527.6 | 1124.8 | 889.3 | 904.8 | 920.3 |
| 50° | 7520.3 | 3836.1 | 917.2 | 1124.8 | 1543.1 | 1815.8 | 1431.6 | 1081.4 | 883.1 | 948.2 | 979.2 |
| 52.5° | 7436.7 | 3613.0 | 821.1 | 1010.1 | 1434.7 | 1698.0 | 1344.8 | 1062.8 | 855.2 | 849.0 | 886.2 |
| 55° | 7139.2 | 3194.7 | 660.0 | 818.0 | 1211.6 | 1400.6 | 1267.3 | 1028.7 | 771.6 | 700.3 | 706.5 |
| 57.5° | 5769.6 | 2289.9 | 486.5 | 585.6 | 858.3 | 1025.6 | 1143.4 | 1013.2 | 694.1 | 594.9 | 598.0 |
| 60° | 3572.7 | 1298.3 | 356.3 | 399.7 | 529.9 | 622.8 | 926.5 | 942.0 | 619.7 | 502.0 | 495.8 |
| 62.5° | 1834.4 | 641.4 | 275.8 | 282.0 | 325.4 | 365.6 | 635.2 | 790.1 | 560.8 | 477.2 | 477.2 |
| 65° | 613.5 | 316.1 | 241.7 | 216.9 | 216.9 | 226.2 | 384.2 | 548.5 | 474.1 | 399.7 | 399.7 |
| 67.5° | 263.4 | 235.5 | 210.7 | 189.0 | 173.5 | 164.2 | 216.9 | 319.2 | 353.2 | 303.7 | 291.3 |
| 70° | 204.5 | 198.3 | 182.8 | 158.0 | 136.3 | 123.9 | 127.0 | 164.2 | 201.4 | 195.2 | 189.0 |
| 72.5° | 151.8 | 151.8 | 145.6 | 123.9 | 105.4 | 89.9 | 83.7 | 86.8 | 96.1 | 99.2 | 102.3 |
| 75° | 105.4 | 108.5 | 108.5 | 96.1 | 77.5 | 65.1 | 55.8 | 46.5 | 37.2 | 31.0 | 27.9 |
| 77.5° | 71.3 | 74.4 | 80.6 | 71.3 | 58.9 | 43.4 | 34.1 | 24.8 | 15.5 | 6.2 | 6.2 |
| 80° | 62.0 | 71.3 | 77.5 | 71.3 | 62.0 | 46.5 | 34.1 | 18.6 | 9.3 | 0.0 | 0.0 |
| 82.5° | 65.1 | 71.3 | 80.6 | 68.2 | 58.9 | 43.4 | 34.1 | 21.7 | 9.3 | 3.1 | 0.0 |
| 85° | 15.5 | 15.5 | 18.6 | 21.7 | 27.9 | 31.0 | 24.8 | 15.5 | 9.3 | 3.1 | 0.0 |
| 87.5° | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 3.1 | 3.1 | 3.1 | 3.1 | 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)