

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: P529873

Luminaire Tested: **GALN-SA5A-740-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-740-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12661 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

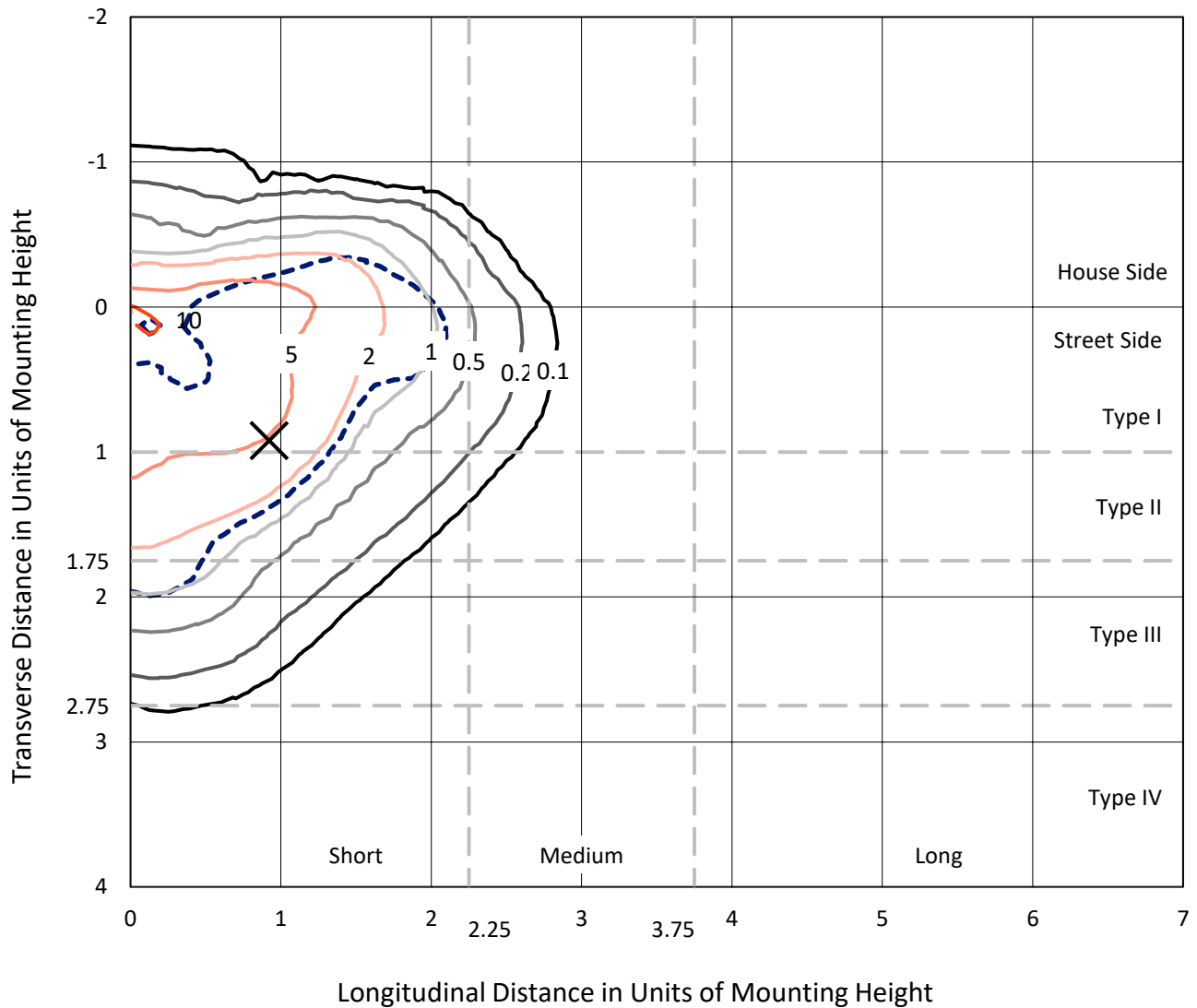
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

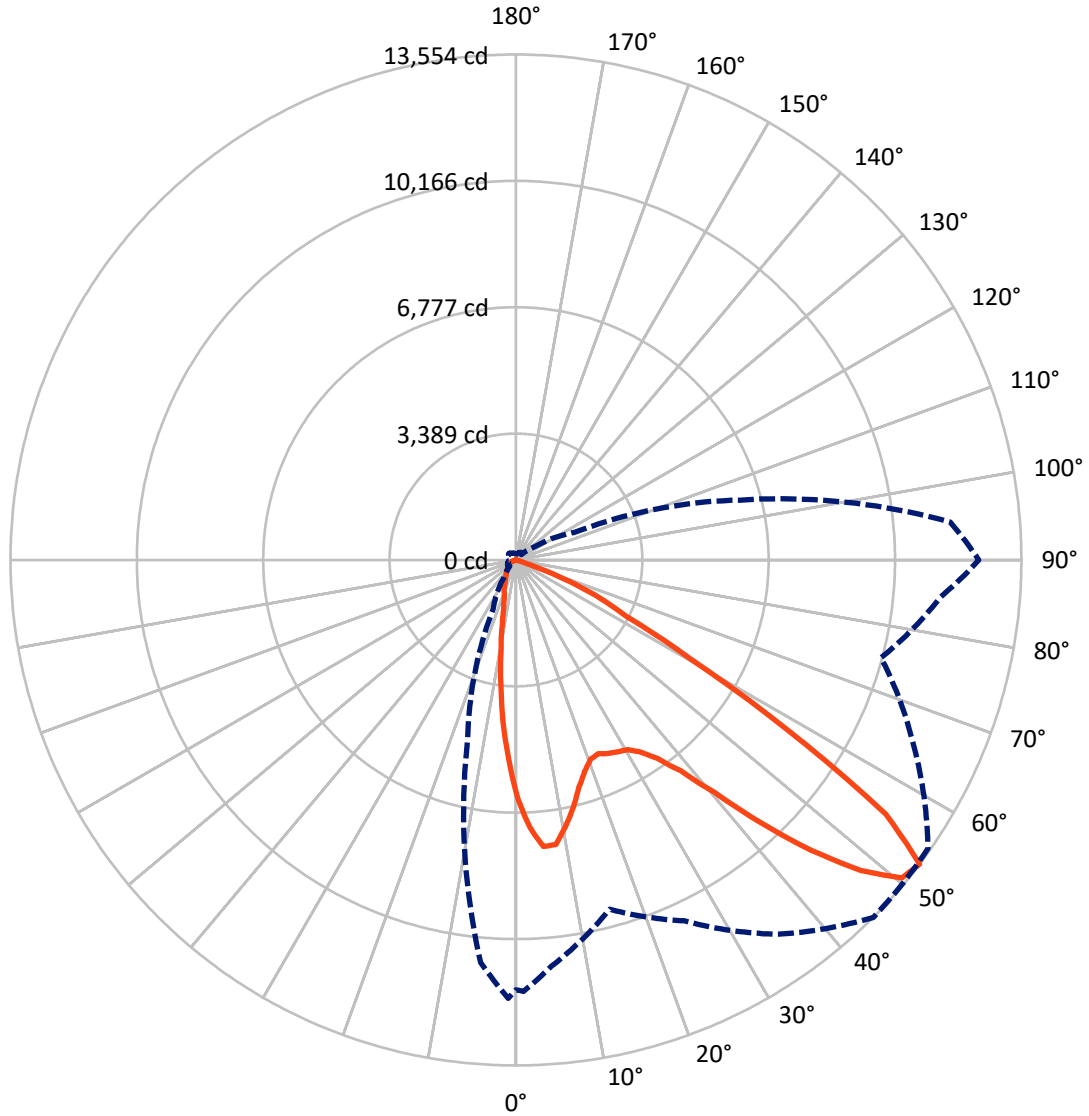
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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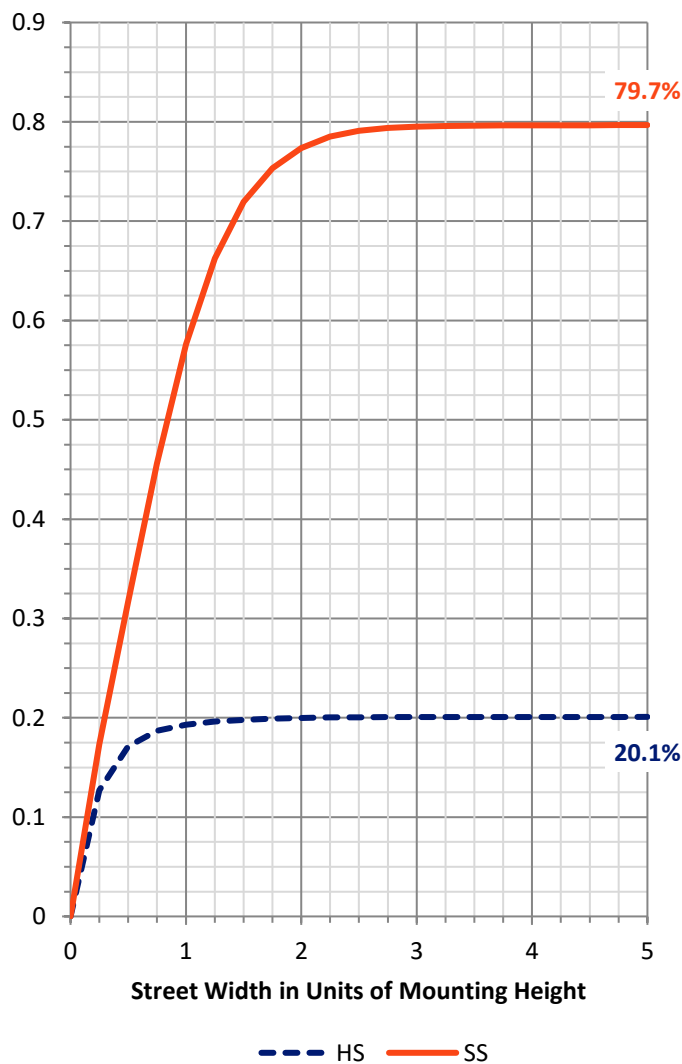
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2569.6 | 0.0 | 2569.6 |
| | % Fixture | 20.3 | 0.0 | 20.3 |
| Street Side | Lumens | 10091.4 | 0.0 | 10091.4 |
| | % Fixture | 79.7 | 0.0 | 79.7 |
| Total | Lumens | 12661.0 | 0.0 | 12661.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 468.2 | 3.7 |
| 10°-20° | 923.7 | 7.3 |
| 20°-30° | 1405.7 | 11.1 |
| 30°-40° | 2101.0 | 16.6 |
| 40°-50° | 2992.0 | 23.6 |
| 50°-60° | 3216.3 | 25.4 |
| 60°-70° | 1425.2 | 11.3 |
| 70°-80° | 115.3 | 0.9 |
| 80°-90° | 13.4 | 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° | 12661.0 | 100.0 |
| 0°-180° | 12661.0 | 100.0 |

Coefficient of Utilization

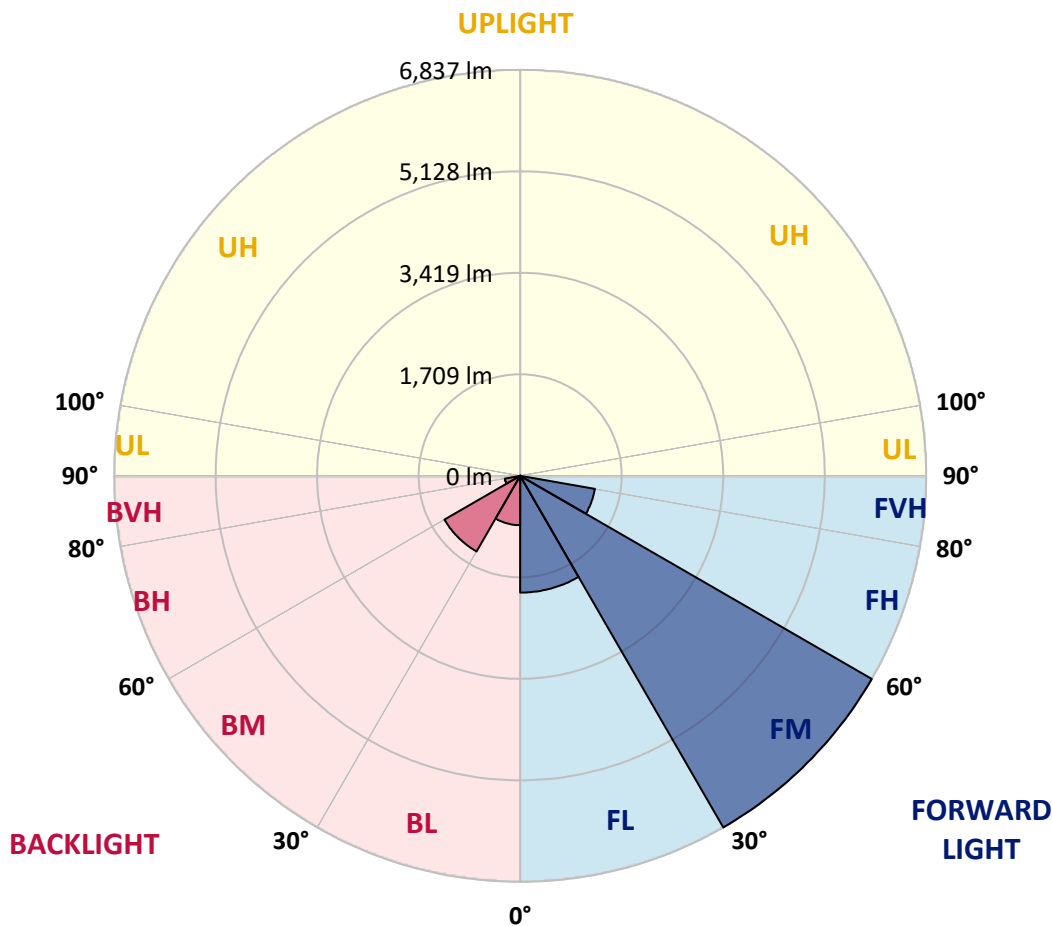


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1966.5 | 15.5 | | | |
| FM (30°-60°) | 6837.3 | 54.0 | | | |
| FH (60°-80°) | 1277.6 | 10.1 | | | G1/1800 |
| FVH (80°-90°) | 10.0 | 0.1 | | | G0/10 |
| BL (0°-30°) | 831.1 | 6.6 | B2/1000 | | |
| BM (30°-60°) | 1472.1 | 11.6 | B2/2500 | | |
| BH (60°-80°) | 262.9 | 2.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.5 | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6419.7 | 6419.7 | 6419.7 | 6419.7 | 6419.7 | 6419.7 | 6419.7 | 6419.7 | 6419.7 | 6419.7 | 6419.7 |
| 2.5° | 6793.2 | 6813.2 | 6922.7 | 7059.7 | 7131.9 | 7296.3 | 7181.7 | 7211.6 | 7149.3 | 6930.2 | 6758.4 |
| 5° | 6586.6 | 6584.1 | 6723.5 | 7062.2 | 7383.4 | 7709.6 | 7719.6 | 7545.3 | 7239.0 | 6902.8 | 6422.2 |
| 7.5° | 5964.0 | 6061.1 | 6205.6 | 6745.9 | 7341.1 | 7585.1 | 7702.2 | 7498.0 | 7027.3 | 6546.7 | 6026.3 |
| 10° | 5493.4 | 5543.2 | 5787.2 | 6439.6 | 6875.4 | 7201.6 | 7273.9 | 7156.8 | 6795.7 | 6195.6 | 5612.9 |
| 12.5° | 5221.9 | 5246.8 | 5533.2 | 6081.0 | 6541.7 | 6783.3 | 6818.1 | 6872.9 | 6614.0 | 6051.2 | 5351.4 |
| 15° | 5224.4 | 5244.3 | 5630.3 | 6088.5 | 6270.3 | 6205.6 | 6320.1 | 6317.6 | 6429.7 | 6023.8 | 5570.6 |
| 17.5° | 5600.4 | 5622.9 | 5971.5 | 6198.1 | 6118.4 | 5966.5 | 5959.0 | 6073.6 | 6310.1 | 6364.9 | 5901.8 |
| 20° | 6247.9 | 6300.2 | 6556.7 | 6544.2 | 6096.0 | 5789.7 | 5705.0 | 5792.2 | 6342.5 | 6653.8 | 6569.1 |
| 22.5° | 7119.5 | 7191.7 | 7371.0 | 7027.3 | 6198.1 | 5670.2 | 5642.8 | 5812.1 | 6556.7 | 7298.8 | 7326.1 |
| 25° | 8130.5 | 8252.5 | 8339.7 | 7898.9 | 6561.7 | 5876.9 | 5747.4 | 6038.7 | 6845.5 | 7998.5 | 8289.8 |
| 27.5° | 8800.3 | 8927.3 | 8907.4 | 8277.4 | 6805.7 | 5931.6 | 5822.1 | 6093.5 | 7097.0 | 8165.3 | 8792.9 |
| 30° | 9323.3 | 9400.5 | 9539.9 | 8481.6 | 7049.7 | 6086.0 | 5899.3 | 6325.1 | 7179.2 | 8454.2 | 9400.5 |
| 32.5° | 9933.4 | 9985.7 | 9995.6 | 8842.7 | 7425.8 | 6280.3 | 6138.3 | 6614.0 | 7542.8 | 8730.6 | 9938.4 |
| 35° | 10548.5 | 10625.7 | 10463.8 | 9288.4 | 7657.3 | 6641.3 | 6536.8 | 7114.5 | 7834.1 | 9017.0 | 10531.0 |
| 37.5° | 11215.8 | 11255.7 | 10882.1 | 9472.7 | 7988.5 | 7229.0 | 7171.8 | 7654.9 | 8339.7 | 9534.9 | 11188.4 |
| 40° | 11776.1 | 11813.5 | 11327.9 | 9699.3 | 8337.2 | 8050.8 | 8197.7 | 8685.8 | 9026.9 | 9871.1 | 11517.1 |
| 42.5° | 12087.4 | 12174.5 | 11477.3 | 9574.8 | 9036.9 | 8982.1 | 9634.6 | 9806.4 | 9823.8 | 9965.7 | 11811.0 |
| 45° | 12172.1 | 12132.2 | 11230.8 | 9676.9 | 9649.5 | 10513.6 | 11106.3 | 11332.9 | 10615.7 | 10140.1 | 11885.7 |
| 47.5° | 11781.1 | 11833.4 | 10867.2 | 9587.2 | 10453.8 | 11674.0 | 12441.0 | 12861.8 | 11205.9 | 9988.2 | 11701.4 |
| 50° | 11464.8 | 11397.6 | 10750.2 | 9522.5 | 10670.5 | 12221.9 | 13404.7 | 13499.3 | 11748.7 | 10174.9 | 11499.7 |
| 52.5° | 11527.1 | 11569.4 | 10936.9 | 9694.3 | 10675.5 | 12254.2 | 13554.1 | 13489.4 | 11766.2 | 10132.6 | 11427.5 |
| 55° | 11659.1 | 11472.3 | 10857.2 | 9315.8 | 9960.8 | 11350.3 | 12030.1 | 11930.5 | 10859.7 | 9681.9 | 11250.7 |
| 57.5° | 10060.4 | 10349.2 | 9983.2 | 8317.2 | 8175.3 | 8551.3 | 8538.9 | 8845.2 | 8100.6 | 8332.2 | 10242.2 |
| 60° | 8165.3 | 8215.1 | 8352.1 | 7114.5 | 5657.7 | 5528.2 | 5348.9 | 5154.7 | 5451.0 | 7124.4 | 9315.8 |
| 62.5° | 7181.7 | 7121.9 | 7610.0 | 6472.0 | 3994.3 | 3344.3 | 3314.4 | 3434.0 | 4205.9 | 6795.7 | 8738.1 |
| 65° | 5219.4 | 5294.1 | 5647.8 | 5022.7 | 2998.2 | 2552.4 | 2507.6 | 2861.2 | 3404.1 | 5446.1 | 6668.7 |
| 67.5° | 3187.4 | 3331.9 | 3364.2 | 3097.8 | 2034.5 | 1616.1 | 1551.4 | 1872.6 | 2457.8 | 3523.6 | 3909.6 |
| 70° | 1471.7 | 1646.0 | 1810.4 | 1690.8 | 1177.9 | 664.9 | 627.5 | 786.9 | 1240.1 | 2027.0 | 2074.3 |
| 72.5° | 445.7 | 448.2 | 627.5 | 654.9 | 381.0 | 149.4 | 132.0 | 174.3 | 420.8 | 669.9 | 704.7 |
| 75° | 32.4 | 34.9 | 84.7 | 97.1 | 72.2 | 37.4 | 39.8 | 47.3 | 89.6 | 149.4 | 112.1 |
| 77.5° | 2.5 | 2.5 | 2.5 | 12.5 | 22.4 | 24.9 | 32.4 | 37.4 | 47.3 | 54.8 | 49.8 |
| 80° | 2.5 | 0.0 | 2.5 | 10.0 | 17.4 | 24.9 | 29.9 | 34.9 | 37.4 | 42.3 | 37.4 |
| 82.5° | 0.0 | 0.0 | 0.0 | 7.5 | 17.4 | 24.9 | 27.4 | 37.4 | 42.3 | 49.8 | 42.3 |
| 85° | 0.0 | 0.0 | 0.0 | 7.5 | 17.4 | 27.4 | 24.9 | 12.5 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6419.7 | 6419.7 | 6419.7 | 6419.7 | 6419.7 | 6419.7 | 6419.7 | 6419.7 | 6419.7 | 6419.7 | 6419.7 |
| 2.5° | 6788.3 | 6691.1 | 6469.5 | 6357.5 | 6093.5 | 6056.1 | 5797.2 | 5754.8 | 5667.7 | 5620.4 | 5505.8 |
| 5° | 6210.5 | 6093.5 | 5732.4 | 5428.6 | 5075.0 | 4828.5 | 4639.2 | 4467.4 | 4367.8 | 4275.7 | 4318.0 |
| 7.5° | 5739.9 | 5398.7 | 4997.8 | 4489.8 | 4081.4 | 3817.5 | 3528.6 | 3292.0 | 3152.6 | 3058.0 | 3080.4 |
| 10° | 5246.8 | 5025.2 | 4467.4 | 3897.2 | 3404.1 | 3217.3 | 2990.7 | 2808.9 | 2612.2 | 2442.9 | 2363.2 |
| 12.5° | 5092.4 | 4763.7 | 4064.0 | 3483.8 | 3110.3 | 2928.5 | 2669.5 | 2460.3 | 2208.8 | 2002.1 | 1929.9 |
| 15° | 5119.8 | 4803.6 | 3954.4 | 3334.4 | 2893.6 | 2579.8 | 2271.1 | 2012.1 | 1735.7 | 1591.2 | 1516.5 |
| 17.5° | 5565.6 | 5017.7 | 4026.6 | 3177.5 | 2592.3 | 2156.5 | 1775.5 | 1446.8 | 1240.1 | 1090.7 | 1058.3 |
| 20° | 6113.4 | 5480.9 | 4181.0 | 3062.9 | 2345.8 | 1715.7 | 1297.4 | 1013.5 | 841.7 | 816.8 | 809.3 |
| 22.5° | 6915.3 | 6237.9 | 4512.2 | 2985.7 | 2044.4 | 1337.2 | 889.0 | 737.1 | 689.8 | 684.8 | 687.3 |
| 25° | 8035.9 | 7186.7 | 4873.3 | 2921.0 | 1817.8 | 1030.9 | 727.1 | 625.0 | 610.1 | 602.6 | 615.1 |
| 27.5° | 8521.4 | 7759.4 | 5065.1 | 2781.5 | 1611.2 | 928.8 | 717.2 | 620.1 | 577.7 | 565.3 | 572.7 |
| 30° | 9121.6 | 8140.4 | 5366.4 | 2542.5 | 1307.4 | 764.5 | 669.9 | 674.8 | 654.9 | 592.7 | 572.7 |
| 32.5° | 9918.4 | 8616.1 | 5518.3 | 2373.2 | 1167.9 | 632.5 | 490.6 | 450.7 | 503.0 | 513.0 | 530.4 |
| 35° | 10428.9 | 9099.2 | 5595.5 | 2273.5 | 1095.7 | 540.4 | 415.9 | 378.5 | 366.1 | 368.5 | 378.5 |
| 37.5° | 11377.7 | 9751.6 | 5692.6 | 2169.0 | 1040.9 | 470.6 | 376.0 | 341.2 | 323.7 | 323.7 | 333.7 |
| 40° | 11945.5 | 10269.6 | 5824.6 | 2111.7 | 986.1 | 428.3 | 341.2 | 311.3 | 296.3 | 296.3 | 301.3 |
| 42.5° | 12087.4 | 10526.0 | 5779.7 | 2091.8 | 923.9 | 418.4 | 311.3 | 288.9 | 271.4 | 268.9 | 266.5 |
| 45° | 12341.4 | 10917.0 | 5787.2 | 2069.3 | 859.1 | 381.0 | 293.8 | 268.9 | 244.0 | 241.5 | 239.1 |
| 47.5° | 12620.3 | 11198.4 | 5802.1 | 1982.2 | 796.9 | 318.7 | 306.3 | 249.0 | 219.1 | 214.2 | 214.2 |
| 50° | 12381.2 | 11422.5 | 5931.6 | 1895.0 | 717.2 | 259.0 | 301.3 | 234.1 | 194.2 | 186.8 | 189.3 |
| 52.5° | 12411.1 | 11686.5 | 6205.6 | 1773.0 | 617.6 | 206.7 | 244.0 | 221.6 | 176.8 | 164.4 | 166.8 |
| 55° | 11933.0 | 11407.6 | 6242.9 | 1643.5 | 483.1 | 159.4 | 186.8 | 194.2 | 149.4 | 144.4 | 144.4 |
| 57.5° | 10272.0 | 9659.5 | 5508.3 | 1332.3 | 318.7 | 132.0 | 134.5 | 169.3 | 129.5 | 124.5 | 127.0 |
| 60° | 8790.4 | 7754.5 | 4432.5 | 879.0 | 199.2 | 104.6 | 97.1 | 171.8 | 114.5 | 112.1 | 119.5 |
| 62.5° | 8013.4 | 6372.4 | 3361.8 | 545.4 | 137.0 | 79.7 | 67.2 | 139.5 | 99.6 | 99.6 | 109.6 |
| 65° | 5789.7 | 4280.6 | 1954.8 | 286.4 | 97.1 | 62.3 | 49.8 | 79.7 | 82.2 | 84.7 | 89.6 |
| 67.5° | 3585.9 | 2161.5 | 824.3 | 139.5 | 64.7 | 42.3 | 32.4 | 49.8 | 54.8 | 54.8 | 59.8 |
| 70° | 1770.5 | 861.6 | 273.9 | 79.7 | 49.8 | 34.9 | 22.4 | 27.4 | 27.4 | 24.9 | 27.4 |
| 72.5° | 547.8 | 259.0 | 69.7 | 49.8 | 34.9 | 22.4 | 12.5 | 10.0 | 5.0 | 0.0 | 2.5 |
| 75° | 62.3 | 49.8 | 44.8 | 34.9 | 22.4 | 10.0 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 37.4 | 42.3 | 42.3 | 34.9 | 22.4 | 7.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 29.9 | 32.4 | 34.9 | 32.4 | 19.9 | 10.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 37.4 | 42.3 | 47.3 | 42.3 | 27.4 | 12.5 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.5 | 2.5 | 0.0 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6419.7 | 6419.7 | 6419.7 | 6419.7 | 6419.7 | 6419.7 | 6419.7 | 6419.7 | 6419.7 | 6419.7 | 6419.7 |
| 2.5° | 5458.5 | 5403.7 | 5480.9 | 5366.4 | 5363.9 | 5366.4 | 5334.0 | 5304.1 | 5351.4 | 5478.4 | 5490.9 |
| 5° | 4166.1 | 4283.1 | 4320.5 | 4442.5 | 4375.3 | 4275.7 | 4295.6 | 4228.3 | 4392.7 | 4464.9 | 4407.6 |
| 7.5° | 3033.1 | 3025.6 | 3277.1 | 3292.0 | 3324.4 | 3326.9 | 3321.9 | 3189.9 | 3055.5 | 3085.3 | 3175.0 |
| 10° | 2353.2 | 2226.2 | 2348.3 | 2335.8 | 2415.5 | 2393.1 | 2425.4 | 2283.5 | 2330.8 | 2330.8 | 2388.1 |
| 12.5° | 1917.4 | 1783.0 | 1760.6 | 1728.2 | 1760.6 | 1773.0 | 1785.5 | 1758.1 | 1837.8 | 1875.1 | 1915.0 |
| 15° | 1464.2 | 1389.5 | 1369.6 | 1307.4 | 1317.3 | 1352.2 | 1382.1 | 1394.5 | 1369.6 | 1426.9 | 1431.9 |
| 17.5° | 1063.3 | 1060.8 | 1073.3 | 1070.8 | 1060.8 | 1053.4 | 1050.9 | 1018.5 | 1008.5 | 1013.5 | 1033.4 |
| 20° | 806.8 | 826.7 | 869.1 | 911.4 | 933.8 | 906.4 | 869.1 | 814.3 | 791.9 | 796.9 | 799.4 |
| 22.5° | 689.8 | 719.7 | 776.9 | 824.3 | 846.7 | 796.9 | 729.6 | 682.3 | 672.4 | 669.9 | 667.4 |
| 25° | 625.0 | 659.9 | 702.2 | 717.2 | 714.7 | 684.8 | 635.0 | 615.1 | 610.1 | 605.1 | 582.7 |
| 27.5° | 590.2 | 602.6 | 610.1 | 627.5 | 635.0 | 615.1 | 602.6 | 572.7 | 567.8 | 567.8 | 552.8 |
| 30° | 570.3 | 562.8 | 572.7 | 560.3 | 570.3 | 555.3 | 557.8 | 557.8 | 545.4 | 550.3 | 550.3 |
| 32.5° | 530.4 | 532.9 | 532.9 | 508.0 | 515.5 | 498.0 | 515.5 | 530.4 | 532.9 | 535.4 | 555.3 |
| 35° | 388.5 | 433.3 | 455.7 | 455.7 | 463.2 | 450.7 | 448.2 | 430.8 | 408.4 | 386.0 | 376.0 |
| 37.5° | 341.2 | 358.6 | 388.5 | 405.9 | 418.4 | 408.4 | 386.0 | 358.6 | 346.1 | 336.2 | 326.2 |
| 40° | 303.8 | 318.7 | 338.7 | 358.6 | 383.5 | 371.0 | 336.2 | 323.7 | 308.8 | 308.8 | 298.8 |
| 42.5° | 273.9 | 281.4 | 293.8 | 323.7 | 351.1 | 326.2 | 301.3 | 291.4 | 283.9 | 281.4 | 278.9 |
| 45° | 246.5 | 249.0 | 261.5 | 286.4 | 318.7 | 293.8 | 268.9 | 256.5 | 259.0 | 261.5 | 259.0 |
| 47.5° | 221.6 | 226.6 | 234.1 | 264.0 | 283.9 | 271.4 | 244.0 | 236.6 | 236.6 | 236.6 | 239.1 |
| 50° | 191.7 | 204.2 | 219.1 | 244.0 | 259.0 | 251.5 | 229.1 | 219.1 | 214.2 | 214.2 | 216.6 |
| 52.5° | 171.8 | 181.8 | 201.7 | 231.6 | 251.5 | 239.1 | 216.6 | 201.7 | 191.7 | 189.3 | 194.2 |
| 55° | 149.4 | 166.8 | 199.2 | 221.6 | 249.0 | 236.6 | 211.7 | 194.2 | 176.8 | 174.3 | 174.3 |
| 57.5° | 134.5 | 161.9 | 191.7 | 219.1 | 241.5 | 231.6 | 211.7 | 189.3 | 166.8 | 164.4 | 164.4 |
| 60° | 127.0 | 156.9 | 186.8 | 211.7 | 241.5 | 226.6 | 209.2 | 184.3 | 159.4 | 159.4 | 156.9 |
| 62.5° | 119.5 | 146.9 | 176.8 | 201.7 | 231.6 | 219.1 | 201.7 | 176.8 | 151.9 | 151.9 | 146.9 |
| 65° | 99.6 | 127.0 | 146.9 | 169.3 | 201.7 | 189.3 | 171.8 | 154.4 | 134.5 | 129.5 | 132.0 |
| 67.5° | 69.7 | 87.2 | 107.1 | 129.5 | 149.4 | 144.4 | 137.0 | 124.5 | 107.1 | 104.6 | 102.1 |
| 70° | 34.9 | 47.3 | 64.7 | 87.2 | 104.6 | 99.6 | 94.6 | 84.7 | 74.7 | 72.2 | 72.2 |
| 72.5° | 5.0 | 14.9 | 27.4 | 39.8 | 54.8 | 57.3 | 54.8 | 52.3 | 49.8 | 47.3 | 49.8 |
| 75° | 0.0 | 0.0 | 0.0 | 10.0 | 22.4 | 27.4 | 32.4 | 37.4 | 37.4 | 32.4 | 39.8 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 12.5 | 24.9 | 32.4 | 39.8 | 34.9 | 47.3 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 14.9 | 24.9 | 34.9 | 39.8 | 34.9 | 49.8 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 17.4 | 24.9 | 32.4 | 37.4 | 34.9 | 44.8 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 7.5 | 14.9 | 10.0 | 5.0 | 2.5 | 2.5 | 7.5 |
| 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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| 0° | 6419.7 | 6419.7 | 6419.7 | 6419.7 | 6419.7 | 6419.7 | 6419.7 | 6419.7 | 6419.7 | 6419.7 |
| 2.5° | 5560.6 | 5737.4 | 5926.7 | 5998.9 | 6223.0 | 6392.3 | 6506.9 | 6753.4 | 6790.8 | 6793.2 |
| 5° | 4467.4 | 4557.1 | 4880.8 | 5032.7 | 5366.4 | 5625.3 | 5901.8 | 6300.2 | 6566.6 | 6586.6 |
| 7.5° | 3175.0 | 3424.0 | 3561.0 | 3956.9 | 4367.8 | 4773.7 | 5184.6 | 5647.8 | 5956.5 | 5964.0 |
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| 12.5° | 2056.9 | 2340.8 | 2619.7 | 2926.0 | 3189.9 | 3501.2 | 4091.4 | 4808.6 | 5067.5 | 5221.9 |
| 15° | 1583.8 | 1842.7 | 2171.4 | 2530.0 | 2828.9 | 3244.7 | 3917.1 | 4736.3 | 5172.1 | 5224.4 |
| 17.5° | 1167.9 | 1399.5 | 1703.3 | 2042.0 | 2490.2 | 3080.4 | 3947.0 | 5102.4 | 5513.3 | 5600.4 |
| 20° | 839.2 | 973.7 | 1212.7 | 1606.2 | 2176.4 | 2888.6 | 3976.8 | 5473.4 | 6098.5 | 6247.9 |
| 22.5° | 664.9 | 719.7 | 876.5 | 1225.2 | 1825.3 | 2686.9 | 4188.5 | 6183.1 | 6902.8 | 7119.5 |
| 25° | 577.7 | 607.6 | 682.3 | 966.2 | 1603.7 | 2667.0 | 4527.2 | 7034.8 | 7973.6 | 8130.5 |
| 27.5° | 557.8 | 562.8 | 627.5 | 886.5 | 1484.2 | 2535.0 | 4656.7 | 7639.9 | 8641.0 | 8800.3 |
| 30° | 587.7 | 667.4 | 672.4 | 749.5 | 1262.5 | 2273.5 | 4723.9 | 8225.1 | 9206.2 | 9323.3 |
| 32.5° | 508.0 | 483.1 | 500.5 | 580.2 | 1110.6 | 2121.6 | 4850.9 | 8735.6 | 9851.2 | 9933.4 |
| 35° | 353.6 | 371.0 | 410.9 | 503.0 | 971.2 | 1962.3 | 4883.3 | 9298.4 | 10463.8 | 10548.5 |
| 37.5° | 326.2 | 336.2 | 368.5 | 428.3 | 854.1 | 1872.6 | 4838.4 | 9709.3 | 11098.8 | 11215.8 |
| 40° | 303.8 | 316.3 | 333.7 | 388.5 | 767.0 | 1773.0 | 4776.2 | 10080.3 | 11487.3 | 11776.1 |
| 42.5° | 286.4 | 296.3 | 311.3 | 371.0 | 692.3 | 1673.4 | 4689.0 | 10603.2 | 11835.9 | 12087.4 |
| 45° | 266.5 | 281.4 | 298.8 | 361.1 | 649.9 | 1606.2 | 4624.3 | 10570.9 | 12037.6 | 12172.1 |
| 47.5° | 246.5 | 271.4 | 291.4 | 336.2 | 637.5 | 1573.8 | 4651.7 | 10448.8 | 11873.2 | 11781.1 |
| 50° | 226.6 | 259.0 | 293.8 | 278.9 | 607.6 | 1509.1 | 4684.1 | 10615.7 | 11482.3 | 11464.8 |
| 52.5° | 209.2 | 246.5 | 273.9 | 229.1 | 540.4 | 1446.8 | 4997.8 | 10834.8 | 11758.7 | 11527.1 |
| 55° | 184.3 | 221.6 | 219.1 | 184.3 | 438.3 | 1399.5 | 5244.3 | 10839.8 | 11571.9 | 11659.1 |
| 57.5° | 166.8 | 196.7 | 171.8 | 154.4 | 323.7 | 1170.4 | 4843.4 | 9089.2 | 9906.0 | 10060.4 |
| 60° | 154.4 | 191.7 | 129.5 | 122.0 | 211.7 | 844.2 | 4228.3 | 7039.8 | 7874.0 | 8165.3 |
| 62.5° | 141.9 | 181.8 | 102.1 | 99.6 | 146.9 | 600.1 | 3476.3 | 5891.8 | 6785.8 | 7181.7 |
| 65° | 124.5 | 129.5 | 82.2 | 77.2 | 104.6 | 323.7 | 2116.7 | 4056.5 | 5072.5 | 5219.4 |
| 67.5° | 102.1 | 99.6 | 67.2 | 62.3 | 69.7 | 156.9 | 933.8 | 2032.0 | 2940.9 | 3187.4 |
| 70° | 82.2 | 82.2 | 57.3 | 49.8 | 49.8 | 72.2 | 244.0 | 809.3 | 1329.8 | 1471.7 |
| 72.5° | 59.8 | 62.3 | 44.8 | 39.8 | 37.4 | 34.9 | 39.8 | 161.9 | 348.6 | 445.7 |
| 75° | 52.3 | 54.8 | 44.8 | 34.9 | 27.4 | 22.4 | 17.4 | 14.9 | 19.9 | 32.4 |
| 77.5° | 57.3 | 57.3 | 47.3 | 32.4 | 24.9 | 17.4 | 10.0 | 5.0 | 5.0 | 2.5 |
| 80° | 72.2 | 74.7 | 62.3 | 42.3 | 29.9 | 19.9 | 12.5 | 5.0 | 2.5 | 2.5 |
| 82.5° | 77.2 | 84.7 | 69.7 | 52.3 | 37.4 | 22.4 | 12.5 | 2.5 | 0.0 | 0.0 |
| 85° | 19.9 | 32.4 | 54.8 | 47.3 | 37.4 | 22.4 | 12.5 | 2.5 | 0.0 | 0.0 |
| 87.5° | 0.0 | 2.5 | 7.5 | 7.5 | 10.0 | 10.0 | 7.5 | 2.5 | 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 |

(END OF REPORT)