

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P642594

Luminaire Tested: GWS-SA6D-730-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-730-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19154 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

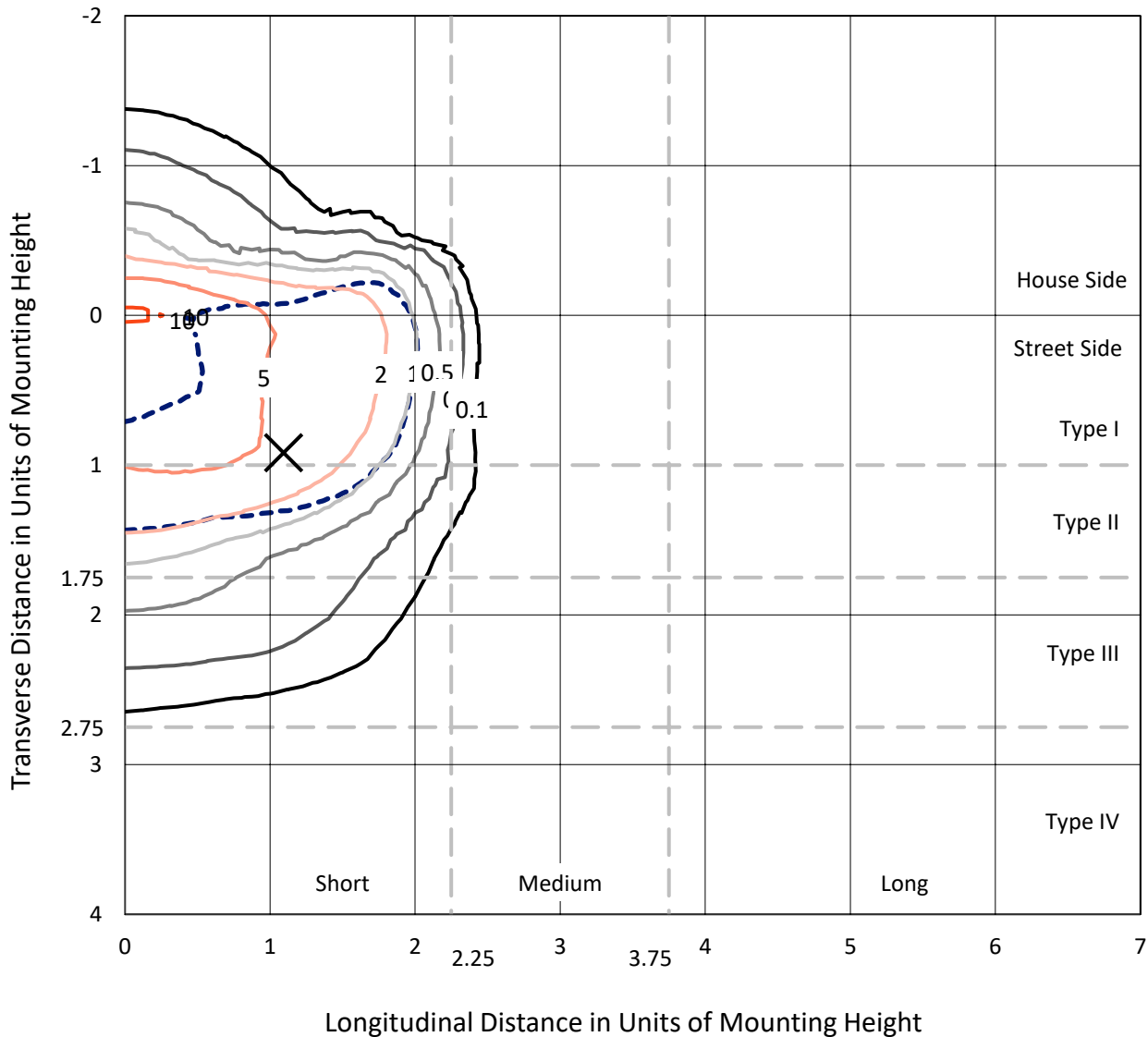
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

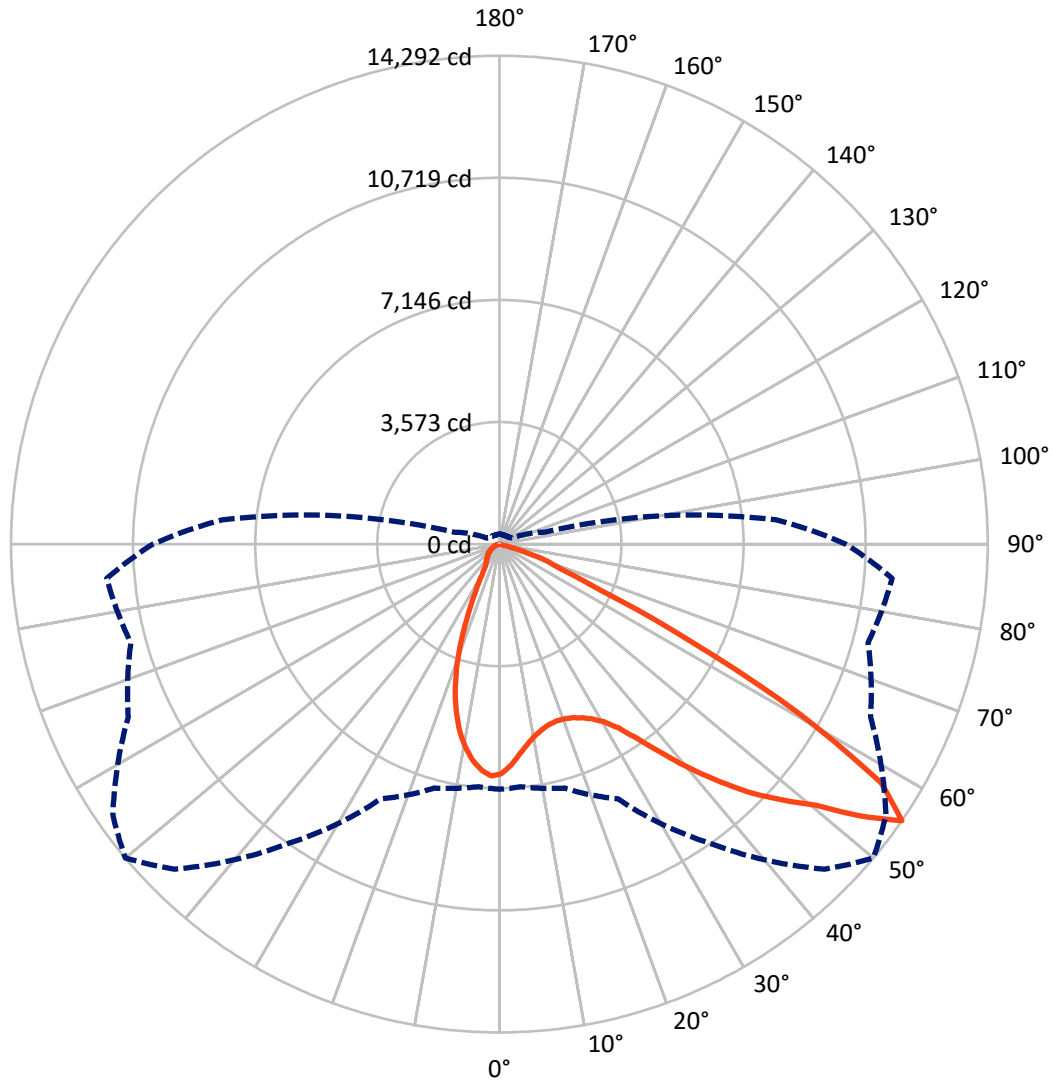
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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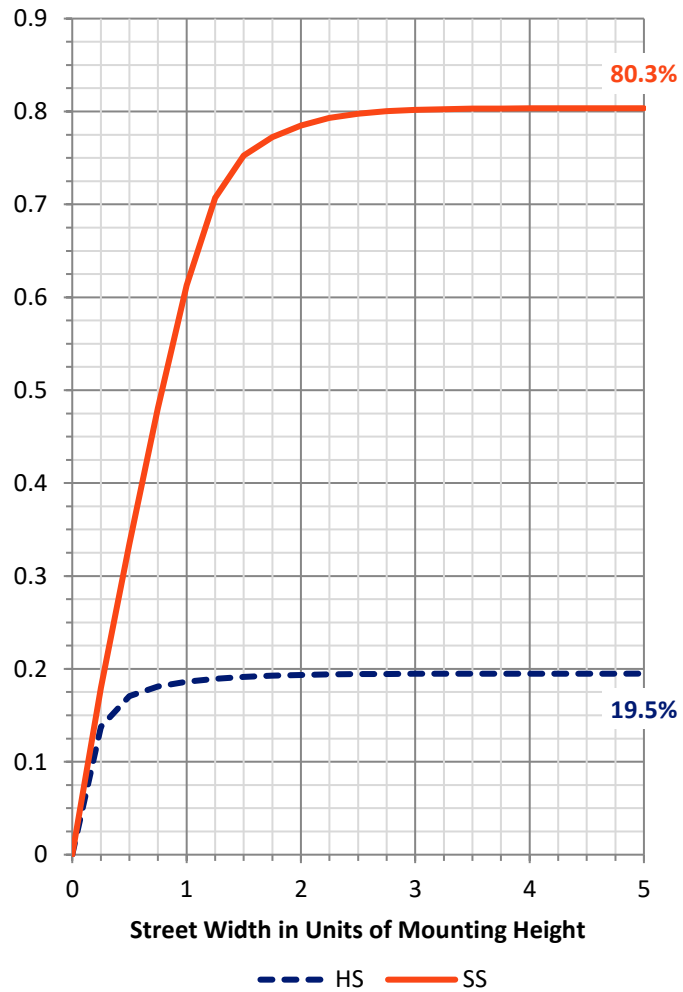
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3774.2 | 0.0 | 3774.2 |
| | % Fixture | 19.7 | 0.0 | 19.7 |
| Street Side | Lumens | 15379.8 | 0.0 | 15379.8 |
| | % Fixture | 80.3 | 0.0 | 80.3 |
| Total | Lumens | 19154.0 | 0.0 | 19154.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 590.2 | 3.1 |
| 10°-20° | 1452.3 | 7.6 |
| 20°-30° | 2048.6 | 10.7 |
| 30°-40° | 3031.5 | 15.8 |
| 40°-50° | 4373.4 | 22.8 |
| 50°-60° | 5158.8 | 26.9 |
| 60°-70° | 2301.3 | 12.0 |
| 70°-80° | 197.8 | 1.0 |
| 80°-90° | 0.1 | 0.0 |
| 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° | 19154.0 | 100.0 |
| 0°-180° | 19154.0 | 100.0 |

Coefficient of Utilization



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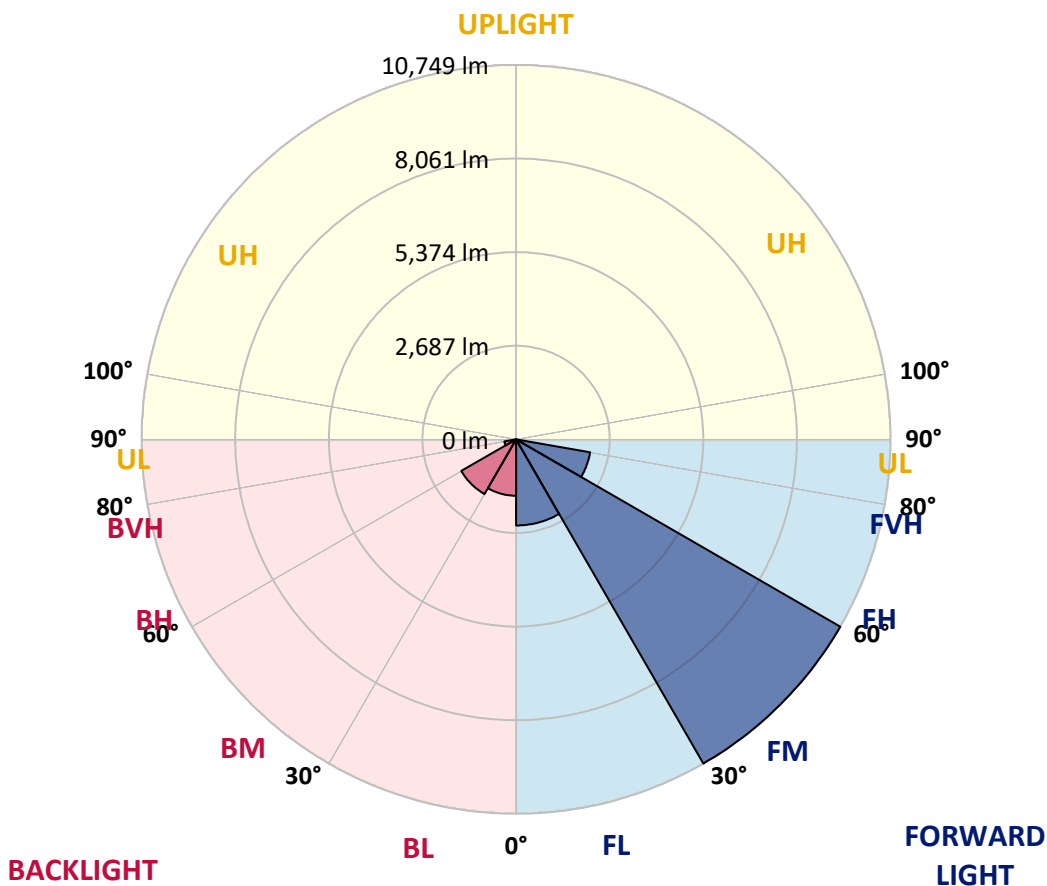
CATALOG NUMBER: GWS-SA6D-730-U-SL2-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2472.8 | 12.9 | | | |
| FM (30°-60°) | 10748.6 | 56.1 | | | |
| FH (60°-80°) | 2158.3 | 11.3 | | | G2/5000 |
| FVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1618.2 | 8.4 | B3/2500 | | |
| BM (30°-60°) | 1815.1 | 9.5 | B2/2500 | | |
| BH (60°-80°) | 340.8 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.1 | 0.0 | | | G0/10 |
| 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° | 50° | 55° | 65° | 75° | 85° |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6720.3 | 6720.3 | 6720.3 | 6720.3 | 6720.3 | 6720.3 | 6720.3 | 6720.3 | 6720.3 | 6720.3 | 6720.3 |
| 2.5° | 6243.3 | 6248.0 | 6250.3 | 6313.4 | 6336.8 | 6430.3 | 6479.4 | 6505.2 | 6573.0 | 6652.5 | 6717.9 |
| 5° | 5824.7 | 5817.7 | 5829.4 | 5908.9 | 5960.3 | 6098.3 | 6173.1 | 6224.6 | 6374.2 | 6561.3 | 6717.9 |
| 7.5° | 5459.9 | 5474.0 | 5488.0 | 5574.5 | 5651.7 | 5801.3 | 5908.9 | 5986.1 | 6194.2 | 6472.4 | 6736.7 |
| 10° | 5202.7 | 5202.7 | 5223.8 | 5322.0 | 5413.2 | 5597.9 | 5705.5 | 5803.7 | 6051.5 | 6392.9 | 6757.7 |
| 12.5° | 5013.3 | 5015.7 | 5041.4 | 5153.6 | 5258.8 | 5450.6 | 5562.8 | 5658.7 | 5932.3 | 6313.4 | 6762.4 |
| 15° | 4924.5 | 4917.5 | 4938.5 | 5057.8 | 5174.7 | 5354.7 | 5471.6 | 5565.2 | 5848.1 | 6269.0 | 6785.8 |
| 17.5° | 4901.1 | 4896.4 | 4912.8 | 5029.7 | 5148.9 | 5324.3 | 5438.9 | 5532.4 | 5836.4 | 6283.0 | 6855.9 |
| 20° | 4968.9 | 4959.5 | 4952.5 | 5053.1 | 5165.3 | 5338.4 | 5457.6 | 5562.8 | 5892.5 | 6360.2 | 6963.5 |
| 22.5° | 5130.2 | 5130.2 | 5113.9 | 5163.0 | 5237.8 | 5394.5 | 5518.4 | 5656.4 | 6039.8 | 6514.5 | 7122.5 |
| 25° | 5427.2 | 5403.8 | 5373.4 | 5394.5 | 5385.1 | 5483.3 | 5630.6 | 5822.4 | 6318.1 | 6769.4 | 7316.6 |
| 27.5° | 5766.3 | 5787.3 | 5735.9 | 5738.2 | 5656.4 | 5621.3 | 5792.0 | 6081.9 | 6732.0 | 7129.5 | 7604.2 |
| 30° | 6226.9 | 6210.5 | 6212.9 | 6205.9 | 6016.5 | 5850.4 | 6035.2 | 6421.0 | 7253.4 | 7679.0 | 7978.3 |
| 32.5° | 6587.0 | 6610.4 | 6687.6 | 6732.0 | 6484.1 | 6217.6 | 6414.0 | 6881.6 | 7847.4 | 8305.7 | 8436.6 |
| 35° | 6968.1 | 7010.2 | 7166.9 | 7311.9 | 7103.8 | 6797.5 | 7007.9 | 7491.9 | 8406.2 | 8925.3 | 8962.7 |
| 37.5° | 7370.3 | 7454.5 | 7641.6 | 7896.5 | 7863.7 | 7592.5 | 7784.2 | 8209.8 | 8845.8 | 9299.4 | 9397.6 |
| 40° | 7831.0 | 7912.8 | 8219.1 | 8586.3 | 8663.4 | 8602.6 | 8665.8 | 8913.6 | 9135.8 | 9315.8 | 9584.7 |
| 42.5° | 8336.1 | 8448.3 | 8836.5 | 9327.5 | 9617.4 | 9671.2 | 9523.9 | 9498.2 | 9262.0 | 9128.7 | 9545.0 |
| 45° | 8932.3 | 9063.3 | 9502.9 | 10138.9 | 10599.5 | 10672.0 | 10417.1 | 10087.4 | 9341.5 | 8990.8 | 9425.7 |
| 47.5° | 9601.1 | 9725.0 | 10162.3 | 10926.9 | 11612.0 | 11640.1 | 11195.8 | 10665.0 | 9577.7 | 9149.8 | 9516.9 |
| 50° | 9825.6 | 9902.7 | 10281.5 | 11179.4 | 12442.1 | 12657.2 | 12014.2 | 11315.1 | 10052.4 | 9617.4 | 9961.2 |
| 52.5° | 9053.9 | 9084.3 | 9414.0 | 10321.3 | 12273.8 | 13655.7 | 13209.1 | 12285.5 | 10896.5 | 10330.6 | 10646.3 |
| 55° | 7173.9 | 7124.8 | 7391.4 | 8223.8 | 10667.3 | 13452.3 | 14291.7 | 13810.0 | 11983.8 | 11167.7 | 11537.2 |
| 57.5° | 5018.0 | 4959.5 | 4898.7 | 5462.3 | 7959.6 | 11403.9 | 13169.3 | 14022.8 | 13019.7 | 11997.8 | 12498.2 |
| 60° | 4124.8 | 4068.7 | 3774.0 | 3514.5 | 4812.2 | 8188.7 | 10115.5 | 11721.9 | 12935.5 | 11955.8 | 12467.8 |
| 62.5° | 3563.6 | 3530.8 | 3411.6 | 3058.5 | 2831.7 | 4674.3 | 6334.5 | 7873.1 | 9926.1 | 9388.3 | 9416.4 |
| 65° | 2799.0 | 2789.6 | 2871.4 | 2908.9 | 2504.3 | 2586.2 | 3231.5 | 4092.0 | 5366.4 | 5060.1 | 4798.2 |
| 67.5° | 1912.7 | 1891.7 | 2046.0 | 2516.0 | 2408.5 | 2041.3 | 1891.7 | 1908.1 | 2321.9 | 1419.4 | 1127.1 |
| 70° | 1215.9 | 1166.8 | 1169.2 | 1559.6 | 1959.5 | 1611.1 | 1459.1 | 1283.7 | 1155.1 | 210.4 | 238.5 |
| 72.5° | 778.7 | 748.3 | 643.0 | 703.8 | 907.3 | 785.7 | 792.7 | 682.8 | 456.0 | 112.2 | 130.9 |
| 75° | 327.4 | 301.6 | 231.5 | 184.7 | 182.4 | 114.6 | 100.5 | 93.5 | 63.1 | 63.1 | 67.8 |
| 77.5° | 2.3 | 0.0 | 0.0 | 2.3 | 4.7 | 2.3 | 2.3 | 4.7 | 9.4 | 14.0 | 16.4 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6720.3 | 6720.3 | 6720.3 | 6720.3 | 6720.3 | 6720.3 | 6720.3 | 6720.3 | 6720.3 | 6720.3 | 6720.3 |
| 2.5° | 6757.7 | 6701.6 | 6764.7 | 6788.1 | 6785.8 | 6788.1 | 6720.3 | 6673.5 | 6671.2 | 6612.7 | 6584.7 |
| 5° | 6783.4 | 6739.0 | 6785.8 | 6755.4 | 6682.9 | 6591.7 | 6470.1 | 6364.9 | 6318.1 | 6250.3 | 6217.6 |
| 7.5° | 6832.5 | 6785.8 | 6778.7 | 6657.2 | 6477.1 | 6285.4 | 6070.2 | 5878.5 | 5775.6 | 5651.7 | 5658.7 |
| 10° | 6867.6 | 6813.8 | 6722.6 | 6474.8 | 6175.5 | 5869.1 | 5548.8 | 5263.5 | 5083.5 | 4917.5 | 4889.4 |
| 12.5° | 6881.6 | 6802.1 | 6589.3 | 6215.2 | 5794.3 | 5394.5 | 4924.5 | 4517.6 | 4237.0 | 4019.5 | 3989.1 |
| 15° | 6907.4 | 6778.7 | 6418.6 | 5901.9 | 5324.3 | 4758.5 | 4159.8 | 3603.3 | 3231.5 | 2981.3 | 3002.4 |
| 17.5° | 6947.1 | 6753.0 | 6226.9 | 5551.1 | 4819.2 | 4019.5 | 3210.5 | 2572.1 | 2230.7 | 2085.8 | 2088.1 |
| 20° | 7003.2 | 6722.6 | 6016.5 | 5165.3 | 4213.6 | 3184.8 | 2244.8 | 1763.1 | 1667.2 | 1662.5 | 1655.5 |
| 22.5° | 7078.0 | 6692.2 | 5792.0 | 4742.1 | 3495.8 | 2230.7 | 1494.2 | 1344.5 | 1384.3 | 1461.4 | 1475.5 |
| 25° | 7166.9 | 6654.8 | 5541.8 | 4265.1 | 2712.4 | 1463.8 | 1120.0 | 1096.7 | 1192.5 | 1295.4 | 1318.8 |
| 27.5° | 7304.9 | 6636.1 | 5256.5 | 3722.6 | 1903.4 | 1049.9 | 916.6 | 930.6 | 1017.2 | 1103.7 | 1124.7 |
| 30° | 7538.7 | 6671.2 | 4945.5 | 3114.6 | 1222.9 | 837.1 | 795.0 | 816.1 | 862.8 | 907.3 | 926.0 |
| 32.5° | 7856.7 | 6774.1 | 4643.9 | 2450.5 | 872.2 | 727.2 | 717.9 | 729.6 | 748.3 | 774.0 | 781.0 |
| 35° | 8228.5 | 6951.8 | 4332.9 | 1753.7 | 720.2 | 664.1 | 654.7 | 654.7 | 664.1 | 668.8 | 671.1 |
| 37.5° | 8534.8 | 7138.8 | 4040.6 | 1166.8 | 645.4 | 615.0 | 600.9 | 593.9 | 591.6 | 596.3 | 598.6 |
| 40° | 8668.1 | 7216.0 | 3722.6 | 848.8 | 591.6 | 570.5 | 549.5 | 528.5 | 528.5 | 544.8 | 547.2 |
| 42.5° | 8574.6 | 7129.5 | 3355.5 | 701.5 | 554.2 | 523.8 | 491.0 | 472.3 | 481.7 | 498.1 | 502.7 |
| 45° | 8375.8 | 6916.7 | 2950.9 | 619.7 | 516.8 | 477.0 | 439.6 | 427.9 | 437.3 | 458.3 | 463.0 |
| 47.5° | 8343.1 | 6776.4 | 2466.9 | 565.9 | 477.0 | 437.3 | 397.5 | 385.8 | 397.5 | 413.9 | 418.6 |
| 50° | 8668.1 | 6898.0 | 1929.1 | 519.1 | 439.6 | 395.2 | 362.4 | 350.7 | 357.8 | 367.1 | 371.8 |
| 52.5° | 9262.0 | 7349.3 | 1557.3 | 474.7 | 395.2 | 353.1 | 332.0 | 318.0 | 318.0 | 327.4 | 329.7 |
| 55° | 10138.9 | 8137.3 | 1344.5 | 423.2 | 343.7 | 320.3 | 301.6 | 287.6 | 287.6 | 292.3 | 294.6 |
| 57.5° | 11149.0 | 9091.3 | 1393.6 | 355.4 | 301.6 | 289.9 | 273.6 | 261.9 | 266.6 | 266.6 | 266.6 |
| 60° | 11008.7 | 9021.2 | 1491.8 | 299.3 | 266.6 | 261.9 | 247.9 | 243.2 | 254.9 | 245.5 | 240.8 |
| 62.5° | 8109.2 | 6231.6 | 781.0 | 245.5 | 229.2 | 224.5 | 215.1 | 224.5 | 240.8 | 215.1 | 205.8 |
| 65° | 3937.7 | 3016.4 | 313.3 | 201.1 | 194.1 | 189.4 | 184.7 | 198.8 | 208.1 | 168.4 | 159.0 |
| 67.5° | 926.0 | 752.9 | 203.4 | 170.7 | 161.3 | 152.0 | 156.7 | 159.0 | 152.0 | 114.6 | 109.9 |
| 70° | 240.8 | 236.2 | 159.0 | 142.6 | 128.6 | 119.3 | 119.3 | 116.9 | 100.5 | 72.5 | 67.8 |
| 72.5° | 130.9 | 128.6 | 114.6 | 107.6 | 88.9 | 79.5 | 81.8 | 72.5 | 56.1 | 42.1 | 39.8 |
| 75° | 65.5 | 70.1 | 65.5 | 60.8 | 49.1 | 44.4 | 44.4 | 39.8 | 28.1 | 16.4 | 16.4 |
| 77.5° | 14.0 | 16.4 | 16.4 | 14.0 | 11.7 | 9.4 | 9.4 | 11.7 | 4.7 | 0.0 | 0.0 |
| 80° | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |

(END OF REPORT)