

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: P642510

Luminaire Tested: GWS-SA6D-722-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642510
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-722-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26905.3 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

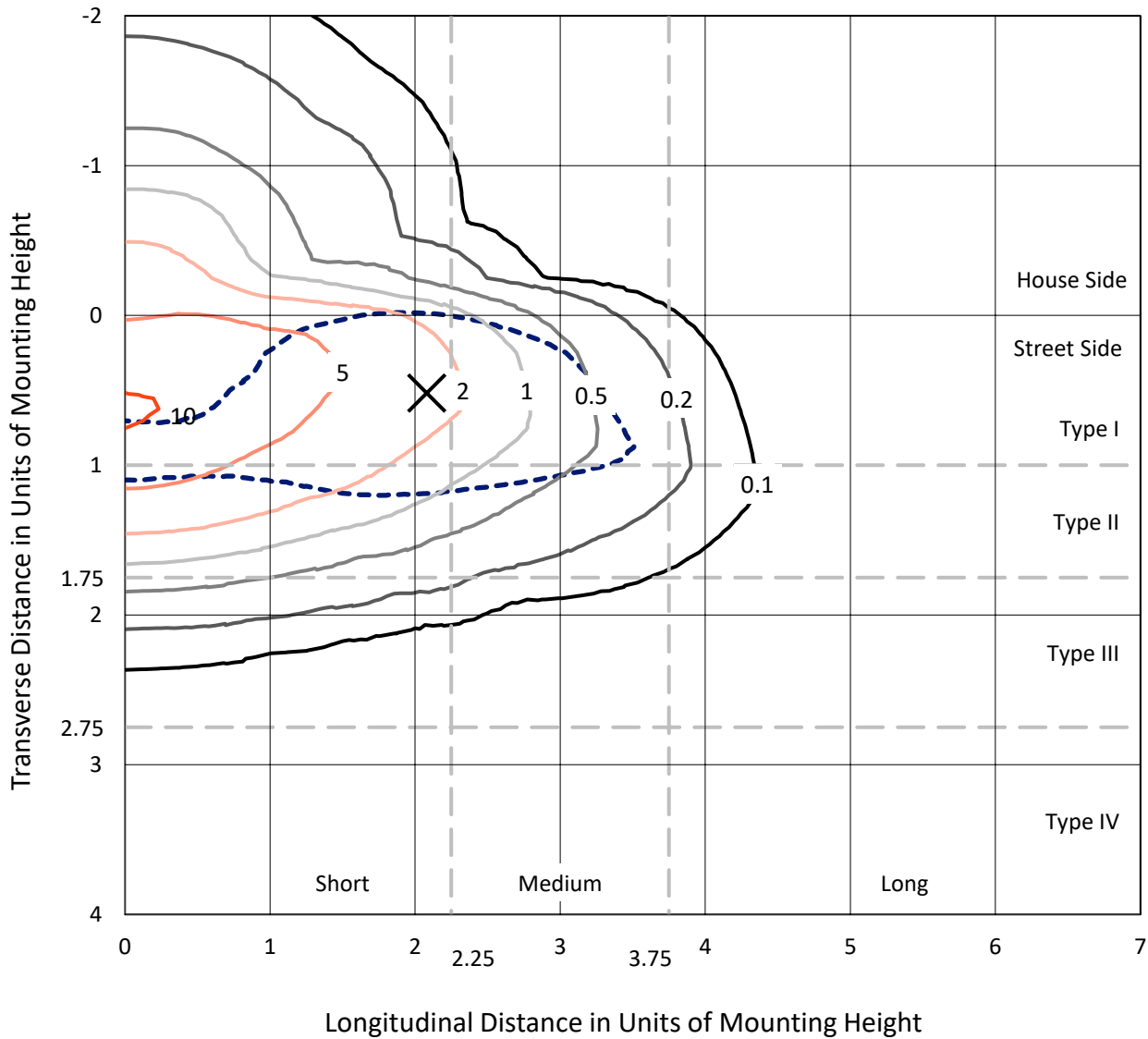
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

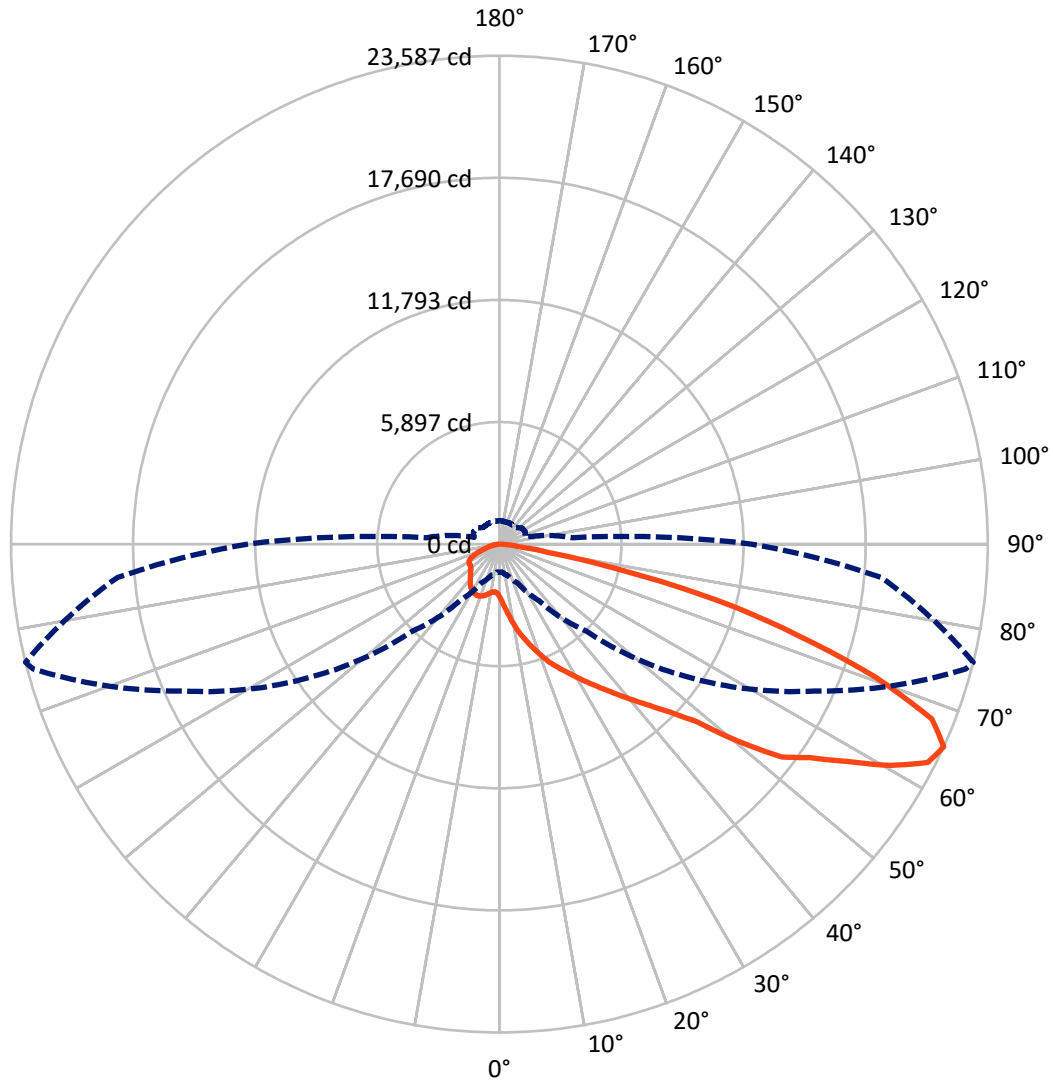
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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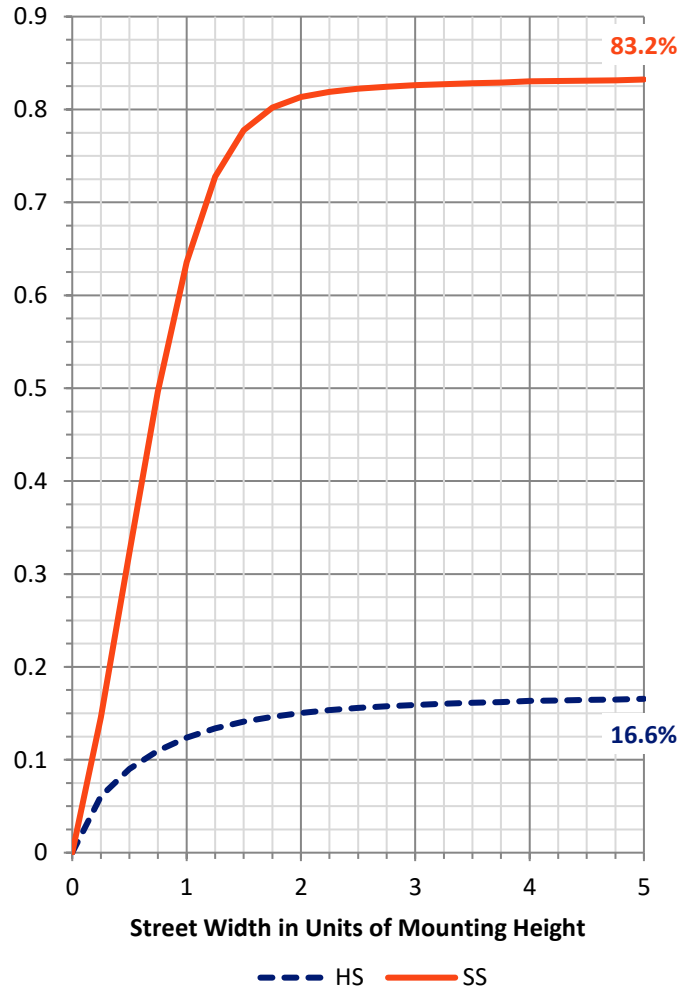
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4497.3 | 0.0 | 4497.3 |
| | % Fixture | 16.7 | 0.0 | 16.7 |
| Street Side | Lumens | 22408.0 | 0.0 | 22408.0 |
| | % Fixture | 83.3 | 0.0 | 83.3 |
| Total | Lumens | 26905.3 | 0.0 | 26905.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 302.7 | 1.1 |
| 10°-20° | 1152.9 | 4.3 |
| 20°-30° | 2246.9 | 8.4 |
| 30°-40° | 3757.8 | 14.0 |
| 40°-50° | 5380.5 | 20.0 |
| 50°-60° | 6369.7 | 23.7 |
| 60°-70° | 5296.5 | 19.7 |
| 70°-80° | 2167.5 | 8.1 |
| 80°-90° | 230.8 | 0.9 |
| 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° | 26905.3 | 100.0 |
| 0°-180° | 26905.3 | 100.0 |

Coefficient of Utilization



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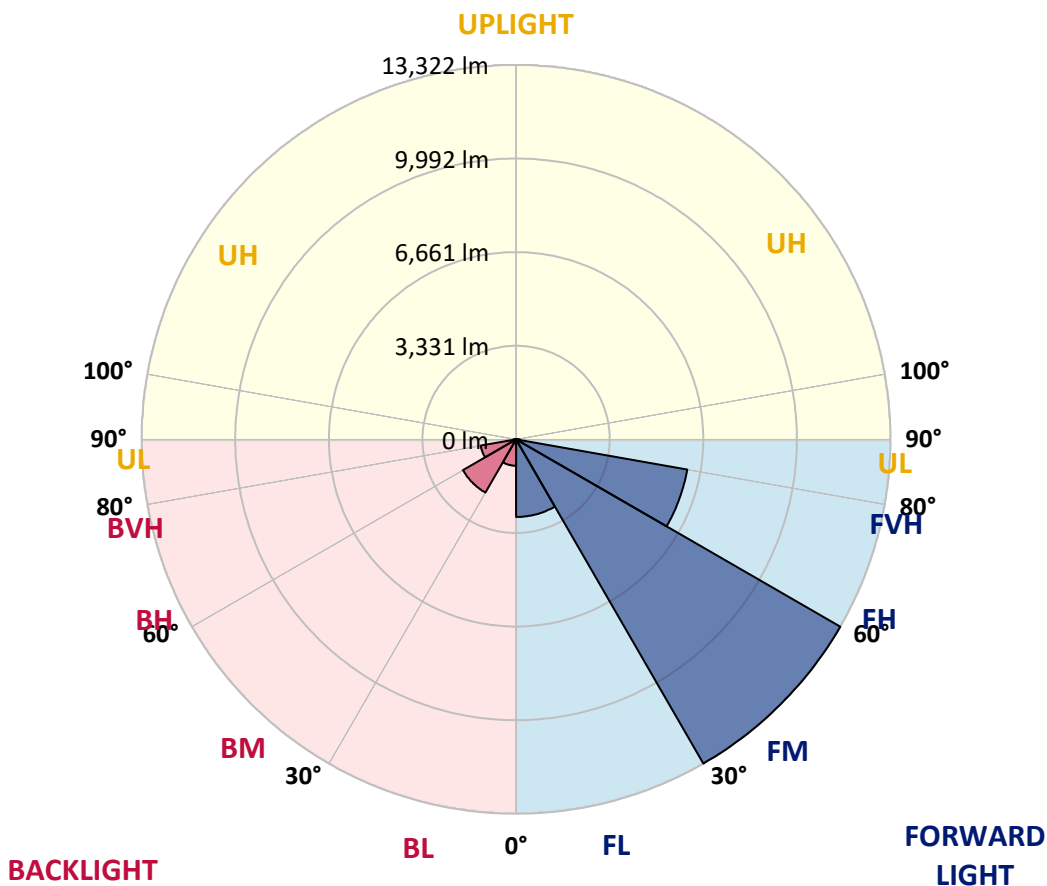
CATALOG NUMBER: GWS-SA6D-722-U-T2R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2761.7 | 10.3 | | | |
| FM (30°-60°) | 13322.5 | 49.5 | | | |
| FH (60°-80°) | 6186.2 | 23.0 | | | G3/7500 |
| FVH (80°-90°) | 137.6 | 0.5 | | | G2/225 |
| BL (0°-30°) | 940.8 | 3.5 | B2/1000 | | |
| BM (30°-60°) | 2185.6 | 8.1 | B2/2500 | | |
| BH (60°-80°) | 1277.7 | 4.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 93.1 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2547.8 | 2547.8 | 2547.8 | 2547.8 | 2547.8 | 2547.8 | 2547.8 | 2547.8 | 2547.8 | 2547.8 | 2547.8 |
| 2.5° | 3571.1 | 3584.4 | 3540.9 | 3525.7 | 3423.6 | 3285.5 | 3170.1 | 2996.1 | 2835.3 | 2810.7 | 2667.0 |
| 5° | 4535.8 | 4479.0 | 4429.9 | 4397.7 | 4255.8 | 4098.9 | 3854.8 | 3527.6 | 3185.3 | 3143.7 | 2833.4 |
| 7.5° | 5108.9 | 5099.4 | 5038.9 | 5020.0 | 4910.3 | 4753.3 | 4501.7 | 4095.1 | 3597.6 | 3529.5 | 3058.5 |
| 10° | 5568.5 | 5562.9 | 5532.6 | 5549.6 | 5449.4 | 5296.2 | 5052.2 | 4632.3 | 4049.7 | 3981.6 | 3310.1 |
| 12.5° | 5969.5 | 5979.0 | 5973.3 | 6035.7 | 5984.7 | 5865.5 | 5612.0 | 5150.5 | 4501.7 | 4428.0 | 3616.5 |
| 15° | 6262.7 | 6270.3 | 6298.7 | 6434.8 | 6463.2 | 6438.6 | 6181.4 | 5659.3 | 4948.1 | 4842.2 | 3932.4 |
| 17.5° | 6345.9 | 6361.1 | 6429.2 | 6648.6 | 6801.8 | 6903.9 | 6712.9 | 6177.6 | 5387.0 | 5271.6 | 4254.0 |
| 20° | 6457.5 | 6474.6 | 6542.7 | 6771.5 | 6996.6 | 7229.3 | 7195.2 | 6703.4 | 5829.6 | 5735.0 | 4579.3 |
| 22.5° | 6973.9 | 6960.7 | 6930.4 | 7040.1 | 7200.9 | 7490.3 | 7575.4 | 7208.5 | 6287.3 | 6196.5 | 4938.7 |
| 25° | 7968.8 | 7944.2 | 7751.3 | 7651.1 | 7598.1 | 7774.0 | 7925.3 | 7668.1 | 6733.7 | 6597.5 | 5273.5 |
| 27.5° | 9065.9 | 9052.7 | 8806.8 | 8568.4 | 8243.1 | 8167.4 | 8256.3 | 8069.1 | 7166.8 | 7028.8 | 5564.8 |
| 30° | 10104.3 | 10064.6 | 9807.4 | 9508.5 | 9073.5 | 8748.1 | 8617.6 | 8462.5 | 7641.6 | 7497.9 | 5905.2 |
| 32.5° | 11033.0 | 10982.0 | 10679.3 | 10348.3 | 9892.5 | 9508.5 | 9118.9 | 8880.5 | 8178.8 | 8012.3 | 6253.3 |
| 35° | 11795.3 | 11744.2 | 11434.0 | 11082.2 | 10581.0 | 10297.3 | 9763.9 | 9334.5 | 8725.4 | 8557.1 | 6663.7 |
| 37.5° | 12385.5 | 12338.2 | 12014.7 | 11668.6 | 11231.6 | 11006.6 | 10543.1 | 9845.2 | 9355.3 | 9179.4 | 7098.7 |
| 40° | 12716.5 | 12682.4 | 12423.3 | 12149.0 | 11782.1 | 11587.2 | 11379.2 | 10490.2 | 10060.8 | 9884.9 | 7611.3 |
| 42.5° | 12816.7 | 12794.0 | 12612.4 | 12470.6 | 12222.8 | 12075.3 | 12194.4 | 11248.7 | 10813.6 | 10660.4 | 8188.2 |
| 45° | 12565.1 | 12565.1 | 12512.2 | 12584.1 | 12595.4 | 12593.5 | 13011.5 | 12105.5 | 11738.6 | 11570.2 | 9001.6 |
| 47.5° | 11922.0 | 11963.7 | 12041.2 | 12394.9 | 12767.5 | 13079.6 | 13966.7 | 13248.0 | 12928.3 | 12790.2 | 10153.5 |
| 50° | 10745.5 | 10859.0 | 11123.8 | 11814.2 | 12606.8 | 13401.2 | 14870.9 | 14937.1 | 15241.6 | 14997.6 | 11848.3 |
| 52.5° | 9022.4 | 9005.4 | 9680.6 | 10664.2 | 11872.9 | 13414.4 | 15368.3 | 16427.6 | 17246.6 | 17078.2 | 13108.0 |
| 55° | 7170.6 | 7142.3 | 7772.1 | 9128.3 | 10747.4 | 12907.5 | 15667.2 | 17110.4 | 18358.8 | 18207.5 | 14241.0 |
| 57.5° | 5491.0 | 5455.0 | 6014.9 | 7238.7 | 9158.6 | 11831.2 | 15610.4 | 17923.7 | 19889.0 | 19811.4 | 15780.7 |
| 60° | 3779.2 | 3735.7 | 4259.6 | 5330.2 | 7278.4 | 10185.7 | 14982.5 | 18341.7 | 21680.2 | 21706.7 | 17428.2 |
| 62.5° | 2269.8 | 2245.2 | 2625.4 | 3455.7 | 5235.6 | 8146.6 | 13512.8 | 18088.3 | 23106.4 | 23225.6 | 18487.4 |
| 65° | 1369.4 | 1352.4 | 1575.6 | 2061.7 | 3321.5 | 5944.9 | 11246.8 | 16792.6 | 23312.6 | 23586.8 | 18512.0 |
| 67.5° | 996.8 | 998.7 | 1063.0 | 1255.9 | 1936.9 | 3839.7 | 8439.8 | 14469.9 | 22238.2 | 22521.9 | 17344.9 |
| 70° | 866.3 | 870.1 | 904.1 | 947.6 | 1170.8 | 2197.9 | 5487.2 | 11422.7 | 19062.4 | 19281.8 | 14547.4 |
| 72.5° | 769.8 | 769.8 | 792.5 | 815.2 | 915.5 | 1339.2 | 2939.4 | 7984.0 | 15044.9 | 15103.5 | 11103.0 |
| 75° | 677.2 | 671.5 | 682.8 | 694.2 | 794.4 | 936.3 | 1430.0 | 5562.9 | 11112.5 | 10976.3 | 7176.3 |
| 77.5° | 539.1 | 533.4 | 535.3 | 546.6 | 637.4 | 669.6 | 724.4 | 3474.7 | 6262.7 | 5910.9 | 3170.1 |
| 80° | 384.0 | 380.2 | 401.0 | 429.4 | 471.0 | 410.5 | 454.0 | 1681.5 | 2483.5 | 2311.4 | 1229.5 |
| 82.5° | 228.9 | 236.4 | 268.6 | 291.3 | 325.3 | 257.2 | 293.2 | 561.8 | 879.5 | 856.8 | 499.4 |
| 85° | 32.2 | 34.0 | 96.5 | 111.6 | 140.0 | 100.2 | 155.1 | 253.5 | 351.8 | 376.4 | 175.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.2 | 45.4 | 100.2 | 102.1 | 43.5 |
| 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° | 2547.8 | 2547.8 | 2547.8 | 2547.8 | 2547.8 | 2547.8 | 2547.8 | 2547.8 | 2547.8 | 2547.8 | 2547.8 |
| 2.5° | 2593.2 | 2504.3 | 2377.6 | 2271.7 | 2182.8 | 2110.9 | 2050.4 | 2005.0 | 1991.7 | 1972.8 | 1972.8 |
| 5° | 2687.8 | 2527.0 | 2300.0 | 2139.3 | 2046.6 | 1991.7 | 1953.9 | 1935.0 | 1925.5 | 1914.2 | 1908.5 |
| 7.5° | 2818.3 | 2593.2 | 2286.8 | 2124.1 | 2052.3 | 2018.2 | 1993.6 | 1982.3 | 1974.7 | 1963.4 | 1963.4 |
| 10° | 2998.0 | 2691.6 | 2328.4 | 2177.1 | 2120.4 | 2086.3 | 2057.9 | 2039.0 | 2022.0 | 2005.0 | 2001.2 |
| 12.5° | 3192.8 | 2820.2 | 2404.1 | 2249.0 | 2188.5 | 2146.8 | 2107.1 | 2078.7 | 2057.9 | 2037.1 | 2031.5 |
| 15° | 3408.5 | 2952.6 | 2485.4 | 2319.0 | 2243.3 | 2186.6 | 2139.3 | 2095.8 | 2067.4 | 2037.1 | 2033.3 |
| 17.5° | 3620.3 | 3086.9 | 2553.5 | 2366.2 | 2269.8 | 2199.8 | 2131.7 | 2075.0 | 2039.0 | 2005.0 | 1995.5 |
| 20° | 3873.8 | 3221.2 | 2600.8 | 2379.5 | 2264.1 | 2171.4 | 2090.1 | 2018.2 | 1978.5 | 1938.8 | 1933.1 |
| 22.5° | 4106.4 | 3346.0 | 2623.5 | 2360.6 | 2220.6 | 2110.9 | 2016.3 | 1938.8 | 1895.3 | 1855.5 | 1848.0 |
| 25° | 4331.5 | 3455.7 | 2614.0 | 2315.2 | 2154.4 | 2027.7 | 1929.3 | 1851.8 | 1810.2 | 1768.5 | 1757.2 |
| 27.5° | 4549.0 | 3529.5 | 2576.2 | 2245.2 | 2071.2 | 1935.0 | 1840.4 | 1770.4 | 1734.5 | 1698.6 | 1683.4 |
| 30° | 4762.8 | 3597.6 | 2517.6 | 2154.4 | 1965.3 | 1838.5 | 1761.0 | 1711.8 | 1675.9 | 1638.0 | 1626.7 |
| 32.5° | 4978.4 | 3646.8 | 2428.7 | 2048.5 | 1857.4 | 1753.4 | 1706.1 | 1670.2 | 1632.4 | 1594.5 | 1583.2 |
| 35° | 5195.9 | 3667.6 | 2320.9 | 1927.4 | 1766.6 | 1698.6 | 1681.5 | 1639.9 | 1588.8 | 1543.5 | 1528.3 |
| 37.5° | 5455.0 | 3686.5 | 2186.6 | 1808.3 | 1687.2 | 1672.1 | 1668.3 | 1605.9 | 1545.3 | 1482.9 | 1465.9 |
| 40° | 5767.1 | 3711.1 | 2048.5 | 1700.4 | 1622.9 | 1662.6 | 1647.5 | 1562.4 | 1441.3 | 1380.8 | 1361.9 |
| 42.5° | 6149.2 | 3756.5 | 1904.7 | 1602.1 | 1575.6 | 1626.7 | 1609.7 | 1456.4 | 1375.1 | 1341.1 | 1331.6 |
| 45° | 6711.0 | 3922.9 | 1761.0 | 1524.5 | 1539.7 | 1575.6 | 1549.1 | 1394.0 | 1361.9 | 1339.2 | 1327.8 |
| 47.5° | 7711.6 | 4178.3 | 1636.1 | 1465.9 | 1511.3 | 1530.2 | 1428.1 | 1377.0 | 1352.4 | 1322.1 | 1308.9 |
| 50° | 8751.9 | 4289.9 | 1535.9 | 1430.0 | 1479.1 | 1488.6 | 1361.9 | 1354.3 | 1337.3 | 1305.1 | 1291.9 |
| 52.5° | 9455.5 | 4274.8 | 1475.4 | 1416.7 | 1452.7 | 1416.7 | 1331.6 | 1329.7 | 1318.4 | 1280.5 | 1265.4 |
| 55° | 10250.0 | 4301.2 | 1448.9 | 1420.5 | 1441.3 | 1295.7 | 1293.8 | 1299.5 | 1293.8 | 1252.2 | 1244.6 |
| 57.5° | 11322.4 | 4382.6 | 1435.6 | 1433.7 | 1433.7 | 1237.0 | 1257.8 | 1265.4 | 1254.1 | 1235.1 | 1229.5 |
| 60° | 12353.3 | 4388.2 | 1411.0 | 1448.9 | 1428.1 | 1201.1 | 1216.2 | 1223.8 | 1210.6 | 1206.8 | 1204.9 |
| 62.5° | 12741.1 | 4115.9 | 1356.2 | 1437.5 | 1405.4 | 1161.4 | 1172.7 | 1176.5 | 1163.3 | 1172.7 | 1170.8 |
| 65° | 12164.2 | 3537.1 | 1265.4 | 1382.7 | 1335.4 | 1125.4 | 1117.9 | 1127.3 | 1104.6 | 1129.2 | 1131.1 |
| 67.5° | 10800.4 | 2810.7 | 1127.3 | 1278.6 | 1237.0 | 1085.7 | 1070.6 | 1070.6 | 1032.8 | 1070.6 | 1068.7 |
| 70° | 8708.4 | 1986.1 | 924.9 | 1112.2 | 1129.2 | 1038.4 | 1030.9 | 987.4 | 926.8 | 983.6 | 977.9 |
| 72.5° | 6601.3 | 1426.2 | 728.2 | 879.5 | 972.2 | 972.2 | 974.1 | 900.3 | 830.4 | 856.8 | 834.1 |
| 75° | 4182.1 | 1004.4 | 582.6 | 673.4 | 762.3 | 853.1 | 896.6 | 760.4 | 698.0 | 686.6 | 675.3 |
| 77.5° | 1883.9 | 660.1 | 454.0 | 516.4 | 541.0 | 673.4 | 819.0 | 654.5 | 569.3 | 544.7 | 537.2 |
| 80° | 788.7 | 410.5 | 323.4 | 365.1 | 332.9 | 565.6 | 722.5 | 508.8 | 418.0 | 384.0 | 359.4 |
| 82.5° | 346.1 | 244.0 | 206.2 | 196.7 | 208.1 | 419.9 | 539.1 | 338.6 | 261.0 | 353.7 | 357.5 |
| 85° | 145.6 | 128.6 | 105.9 | 96.5 | 85.1 | 160.8 | 253.5 | 132.4 | 162.7 | 92.7 | 75.7 |
| 87.5° | 34.0 | 37.8 | 28.4 | 18.9 | 11.3 | 1.9 | 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)