

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: P455124

Luminaire Tested: **GALN-SA6B-740-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455124
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34073 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

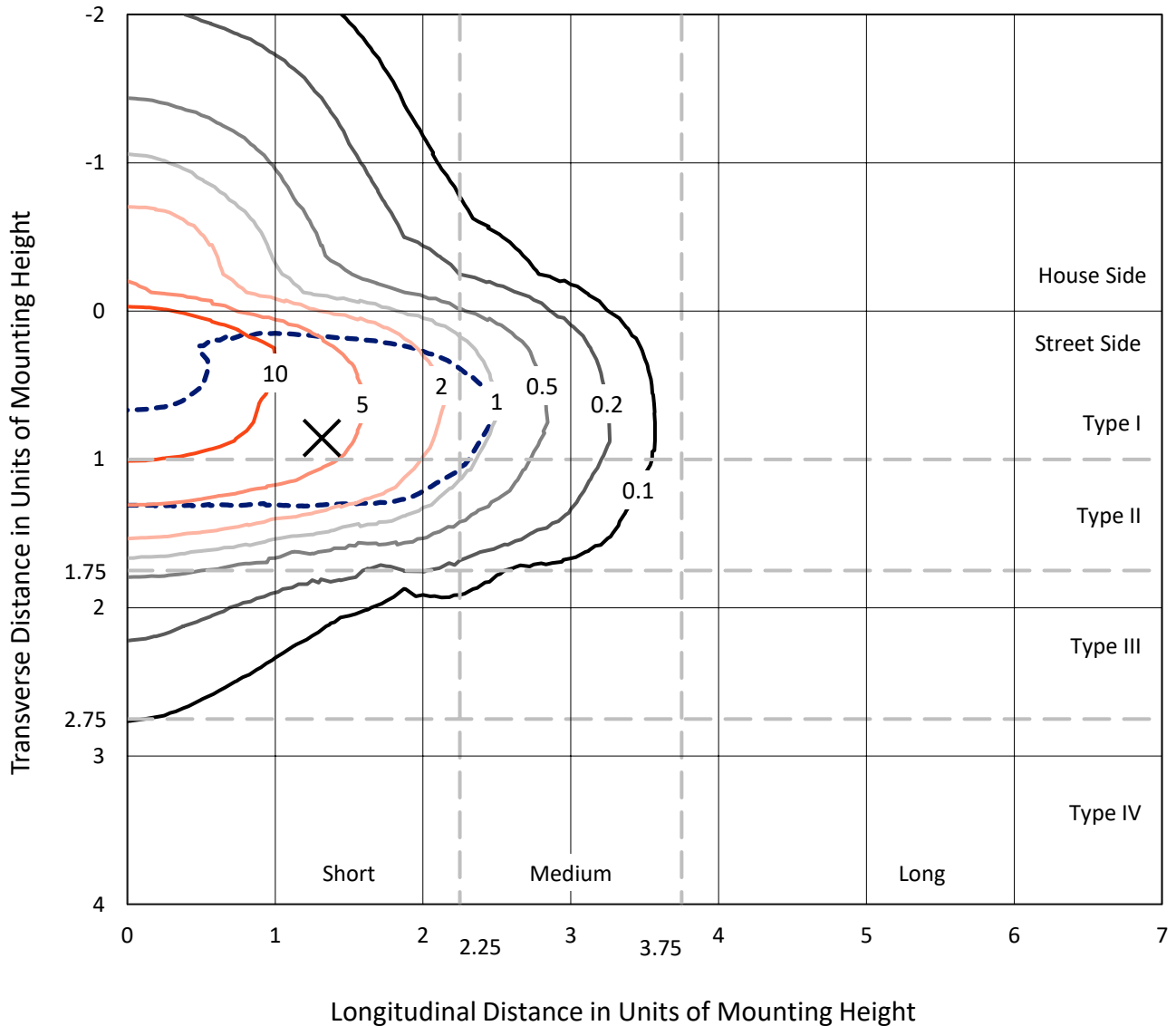
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

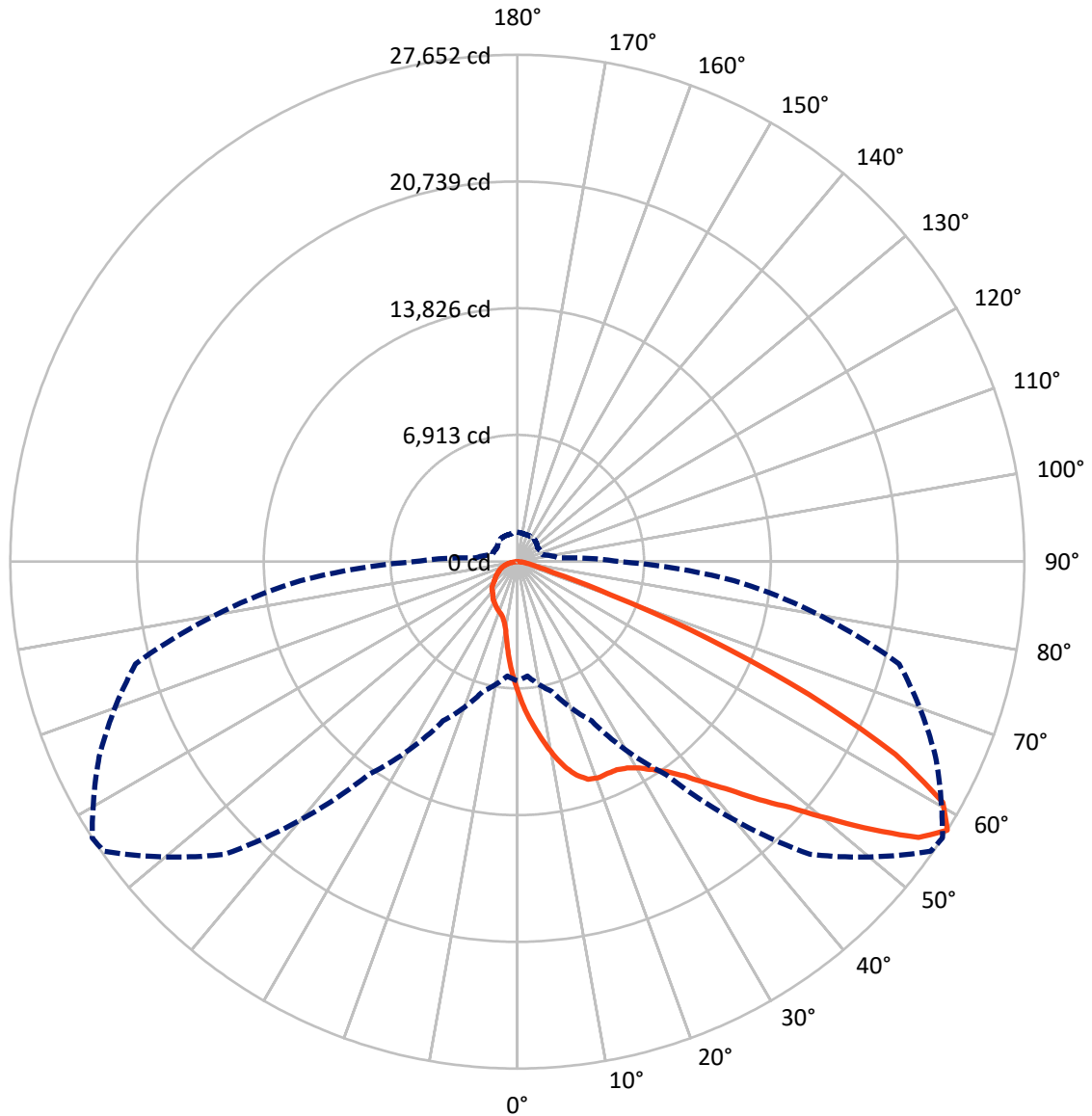
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5181.5 | 0.0 | 5181.5 |
| | % Fixture | 15.2 | 0.0 | 15.2 |
| Street Side | Lumens | 28891.5 | 0.0 | 28891.5 |
| | % Fixture | 84.8 | 0.0 | 84.8 |
| Total | Lumens | 34073.0 | 0.0 | 34073.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 688.0 | 2.0 |
| 10°-20° | 2027.5 | 6.0 |
| 20°-30° | 3366.8 | 9.9 |
| 30°-40° | 5071.3 | 14.9 |
| 40°-50° | 7614.1 | 22.3 |
| 50°-60° | 8534.5 | 25.0 |
| 60°-70° | 4994.8 | 14.7 |
| 70°-80° | 1477.4 | 4.3 |
| 80°-90° | 298.6 | 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° | 34073.0 | 100.0 |
| 0°-180° | 34073.0 | 100.0 |

Coefficient of Utilization



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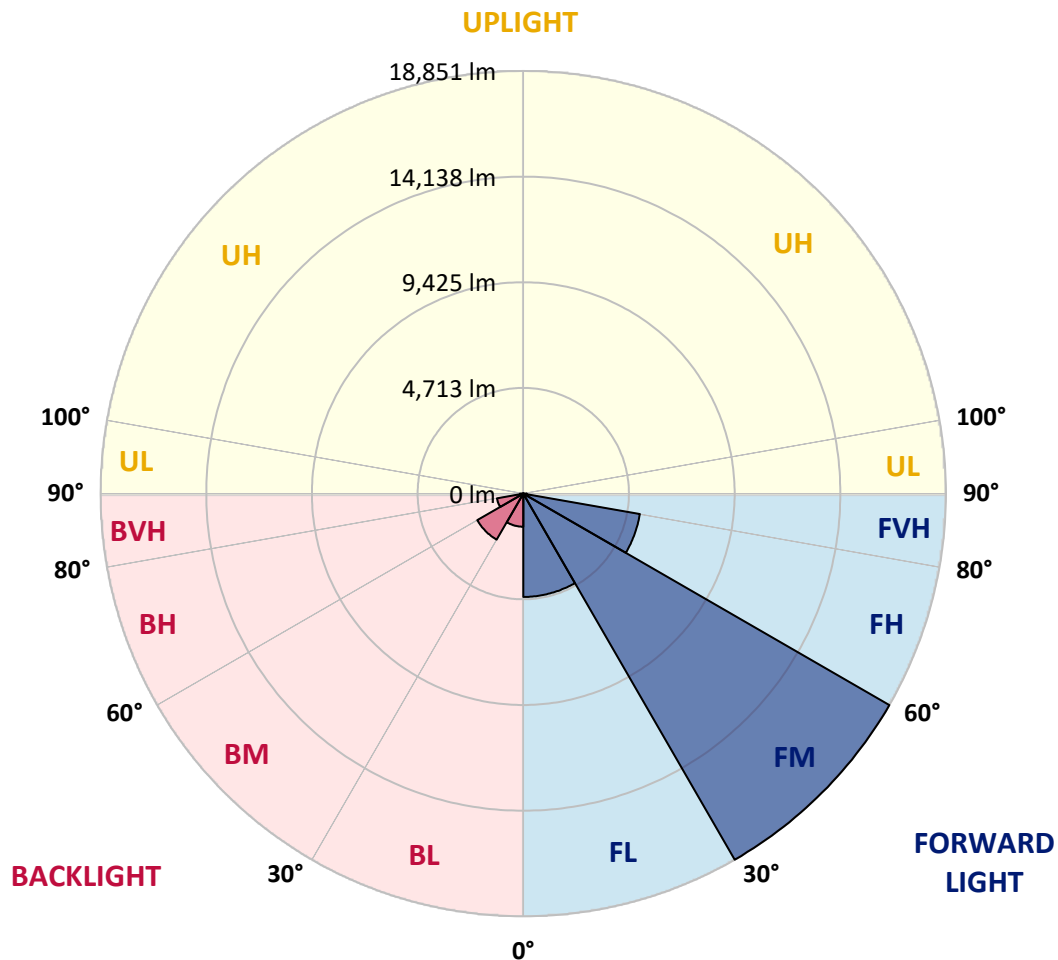
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 4605.9 | 13.5 | | | |
| FM | (30°-60°) | 18850.7 | 55.3 | | | |
| FH | (60°-80°) | 5280.0 | 15.5 | | | G3/7500 |
| FVH | (80°-90°) | 154.9 | 0.5 | | | G2/225 |
| BL | (0°-30°) | 1476.4 | 4.3 | B3/2500 | | |
| BM | (30°-60°) | 2369.2 | 7.0 | B2/2500 | | |
| BH | (60°-80°) | 1192.2 | 3.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 143.7 | 0.4 | | | G2/225 |
| 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° | 57° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7158.3 | 7158.3 | 7158.3 | 7158.3 | 7158.3 | 7158.3 | 7158.3 | 7158.3 | 7158.3 | 7158.3 | 7158.3 |
| 2.5° | 8894.8 | 8797.8 | 8721.3 | 8654.2 | 8566.5 | 8329.6 | 8092.8 | 8089.0 | 7900.7 | 7609.7 | 7311.3 |
| 5° | 10344.0 | 10213.4 | 10230.2 | 10021.3 | 9812.4 | 9469.2 | 8967.5 | 8941.4 | 8540.4 | 7995.8 | 7441.8 |
| 7.5° | 11287.7 | 11289.6 | 11237.4 | 11118.0 | 10892.3 | 10502.5 | 9933.7 | 9805.0 | 9247.3 | 8421.0 | 7591.1 |
| 10° | 11239.2 | 11289.6 | 11377.3 | 11479.8 | 11548.9 | 11356.7 | 10838.2 | 10681.6 | 9956.0 | 8935.8 | 7757.1 |
| 12.5° | 10593.9 | 10672.2 | 10797.2 | 11054.6 | 11470.5 | 11787.6 | 11610.4 | 11483.6 | 10776.7 | 9448.7 | 7939.8 |
| 15° | 10191.0 | 10237.7 | 10306.7 | 10480.1 | 10927.8 | 11686.9 | 12145.7 | 12078.5 | 11550.7 | 10028.8 | 8145.0 |
| 17.5° | 10067.9 | 10114.6 | 10137.0 | 10243.3 | 10562.2 | 11340.0 | 12356.4 | 12475.8 | 12237.1 | 10562.2 | 8352.0 |
| 20° | 10191.0 | 10213.4 | 10213.4 | 10276.8 | 10526.8 | 11136.7 | 12347.1 | 12587.7 | 12800.3 | 11201.9 | 8546.0 |
| 22.5° | 10513.7 | 10523.0 | 10510.0 | 10532.4 | 10718.9 | 11192.6 | 12259.5 | 12557.9 | 13255.4 | 11744.7 | 8697.1 |
| 25° | 11037.8 | 11052.7 | 10966.9 | 10914.7 | 11050.9 | 11438.8 | 12308.0 | 12582.1 | 13611.7 | 12263.2 | 8797.8 |
| 27.5° | 11632.8 | 11651.4 | 11547.0 | 11425.8 | 11489.2 | 11742.8 | 12498.2 | 12744.4 | 13878.4 | 12774.2 | 8861.2 |
| 30° | 12362.0 | 12369.5 | 12194.2 | 12048.7 | 12007.7 | 12196.0 | 12822.7 | 13052.1 | 14210.4 | 13376.7 | 8956.3 |
| 32.5° | 13108.1 | 13164.0 | 12938.4 | 12733.2 | 12664.2 | 12722.0 | 13302.1 | 13524.0 | 14605.8 | 14023.9 | 9109.3 |
| 35° | 14122.7 | 14132.0 | 13861.6 | 13611.7 | 13384.1 | 13458.7 | 13915.7 | 14076.1 | 15152.3 | 14771.8 | 9325.6 |
| 37.5° | 15389.1 | 15474.9 | 15101.9 | 14635.6 | 14355.9 | 14247.7 | 14658.0 | 14833.3 | 15918.8 | 15689.4 | 9652.0 |
| 40° | 16795.4 | 16827.2 | 16508.2 | 16217.3 | 15706.2 | 15392.9 | 15676.4 | 15866.6 | 16864.5 | 16784.3 | 10030.6 |
| 42.5° | 17679.5 | 17748.5 | 17772.8 | 17742.9 | 17358.7 | 16832.7 | 16940.9 | 17030.5 | 17983.5 | 17811.9 | 10418.6 |
| 45° | 17977.9 | 18080.5 | 18427.4 | 19162.3 | 19203.3 | 18684.8 | 18433.0 | 18518.8 | 19203.3 | 18848.9 | 10789.7 |
| 47.5° | 17483.7 | 17659.0 | 18298.7 | 19805.8 | 20934.2 | 20973.3 | 20214.2 | 20025.8 | 20314.9 | 19708.8 | 11058.3 |
| 50° | 16206.1 | 16243.4 | 17222.6 | 19404.8 | 21745.5 | 23161.1 | 22375.9 | 22025.3 | 21370.6 | 20344.8 | 11243.0 |
| 52.5° | 14229.0 | 14271.9 | 15092.6 | 17541.5 | 21245.6 | 24690.5 | 24905.0 | 24278.3 | 22443.0 | 20839.0 | 11364.2 |
| 55° | 10562.2 | 10810.3 | 11713.0 | 14079.8 | 18876.9 | 24546.9 | 26915.6 | 26559.4 | 23739.3 | 21230.7 | 11554.4 |
| 57.5° | 6494.4 | 6266.8 | 7337.4 | 9579.3 | 14197.3 | 22573.6 | 27536.7 | 27652.3 | 25166.1 | 21559.0 | 11873.4 |
| 60° | 2987.9 | 3032.7 | 3474.7 | 4940.7 | 8654.2 | 17659.0 | 25936.4 | 26667.5 | 25955.1 | 21547.8 | 11953.6 |
| 62.5° | 2059.1 | 2018.1 | 1906.2 | 2169.1 | 3946.6 | 11168.4 | 21907.8 | 23146.2 | 24373.4 | 20878.2 | 11634.6 |
| 65° | 1840.9 | 1799.8 | 1583.5 | 1510.8 | 1812.9 | 4868.0 | 15926.3 | 17489.3 | 20522.0 | 19188.4 | 10840.1 |
| 67.5° | 1719.6 | 1663.7 | 1439.9 | 1298.1 | 1294.4 | 1937.9 | 9390.9 | 11272.8 | 15221.3 | 16222.9 | 9392.8 |
| 70° | 1592.8 | 1548.1 | 1326.1 | 1169.4 | 1102.3 | 1217.9 | 4127.5 | 5403.3 | 9883.3 | 11690.6 | 7316.9 |
| 72.5° | 1466.0 | 1413.8 | 1214.2 | 1046.3 | 958.7 | 912.0 | 1581.6 | 2057.2 | 5584.2 | 7009.1 | 4485.6 |
| 75° | 1281.3 | 1255.2 | 1085.5 | 947.5 | 852.4 | 736.7 | 1003.4 | 1145.2 | 2670.9 | 3219.2 | 2251.2 |
| 77.5° | 1120.9 | 1093.0 | 964.3 | 828.1 | 759.1 | 598.7 | 712.5 | 777.8 | 1126.5 | 1305.6 | 1016.5 |
| 80° | 820.7 | 848.6 | 813.2 | 731.1 | 677.0 | 470.0 | 479.3 | 533.4 | 669.6 | 740.5 | 621.1 |
| 82.5° | 520.4 | 572.6 | 626.7 | 563.3 | 512.9 | 371.2 | 332.0 | 352.5 | 457.0 | 484.9 | 276.0 |
| 85° | 218.2 | 221.9 | 363.7 | 343.2 | 292.8 | 220.1 | 199.6 | 210.8 | 244.3 | 255.5 | 128.7 |
| 87.5° | 83.9 | 82.1 | 128.7 | 119.4 | 91.4 | 63.4 | 63.4 | 70.9 | 97.0 | 89.5 | 41.0 |
| 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° | 7158.3 | 7158.3 | 7158.3 | 7158.3 | 7158.3 | 7158.3 | 7158.3 | 7158.3 | 7158.3 | 7158.3 | 7158.3 |
| 2.5° | 7182.6 | 7050.2 | 6787.2 | 6460.8 | 6222.1 | 5953.5 | 5716.6 | 5546.9 | 5483.5 | 5453.6 | 5397.7 |
| 5° | 7177.0 | 6915.9 | 6371.3 | 5800.5 | 5341.7 | 4871.7 | 4474.4 | 4217.0 | 4194.7 | 4023.1 | 4006.3 |
| 7.5° | 7178.9 | 6779.7 | 5912.4 | 5073.1 | 4373.7 | 3892.5 | 3564.3 | 3478.5 | 3375.9 | 3349.8 | 3362.8 |
| 10° | 7184.5 | 6606.3 | 5420.1 | 4353.2 | 3676.2 | 3361.0 | 3237.9 | 3204.3 | 3208.0 | 3219.2 | 3221.1 |
| 12.5° | 7191.9 | 6438.4 | 4909.0 | 3806.7 | 3284.5 | 3153.9 | 3140.9 | 3170.7 | 3202.4 | 3226.7 | 3232.3 |
| 15° | 7201.2 | 6246.3 | 4411.0 | 3366.5 | 3088.6 | 3077.5 | 3120.4 | 3170.7 | 3215.5 | 3250.9 | 3256.5 |
| 17.5° | 7190.1 | 6022.5 | 3993.2 | 3096.1 | 2980.5 | 3034.6 | 3105.4 | 3168.8 | 3209.9 | 3243.5 | 3247.2 |
| 20° | 7163.9 | 5772.6 | 3590.4 | 2905.9 | 2913.3 | 3001.0 | 3077.5 | 3137.1 | 3181.9 | 3198.7 | 3211.7 |
| 22.5° | 7063.2 | 5474.1 | 3239.7 | 2758.5 | 2833.1 | 2954.4 | 3045.7 | 3081.2 | 3030.8 | 2995.4 | 3004.7 |
| 25° | 6891.6 | 5086.2 | 2913.3 | 2639.2 | 2760.4 | 2889.1 | 2982.3 | 2896.5 | 2855.5 | 2840.6 | 2848.0 |
| 27.5° | 6677.1 | 4660.9 | 2667.1 | 2514.2 | 2667.1 | 2816.3 | 2790.2 | 2775.3 | 2756.7 | 2732.4 | 2738.0 |
| 30° | 6445.9 | 4245.0 | 2458.2 | 2417.2 | 2566.4 | 2652.2 | 2663.4 | 2687.6 | 2667.1 | 2629.8 | 2644.7 |
| 32.5° | 6231.4 | 3853.3 | 2299.7 | 2335.1 | 2495.5 | 2482.5 | 2566.4 | 2594.4 | 2499.3 | 2374.3 | 2379.9 |
| 35° | 6048.6 | 3489.6 | 2180.3 | 2254.9 | 2374.3 | 2379.9 | 2463.8 | 2366.8 | 2264.3 | 2204.6 | 2208.3 |
| 37.5° | 5910.6 | 3206.1 | 2102.0 | 2185.9 | 2219.5 | 2290.4 | 2245.6 | 2195.3 | 2182.2 | 2141.2 | 2143.0 |
| 40° | 5828.5 | 2958.1 | 2051.6 | 2131.8 | 2126.2 | 2174.7 | 2031.1 | 2081.5 | 2100.1 | 2087.1 | 2088.9 |
| 42.5° | 5746.4 | 2782.8 | 1999.4 | 2057.2 | 2055.4 | 1960.2 | 1928.5 | 1971.4 | 2019.9 | 2025.5 | 2021.8 |
| 45° | 5681.2 | 2646.6 | 1945.3 | 1943.5 | 1980.8 | 1831.6 | 1822.2 | 1848.3 | 1917.3 | 1950.9 | 1949.1 |
| 47.5° | 5608.4 | 2532.8 | 1863.3 | 1811.0 | 1822.2 | 1751.4 | 1736.4 | 1747.6 | 1831.6 | 1885.6 | 1900.6 |
| 50° | 5517.0 | 2419.1 | 1760.7 | 1689.8 | 1643.2 | 1676.7 | 1680.5 | 1682.3 | 1766.3 | 1827.8 | 1840.9 |
| 52.5° | 5444.3 | 2333.3 | 1643.2 | 1591.0 | 1535.0 | 1609.6 | 1637.6 | 1641.3 | 1691.7 | 1742.0 | 1751.4 |
| 55° | 5487.2 | 2284.8 | 1527.5 | 1490.2 | 1439.9 | 1540.6 | 1594.7 | 1602.1 | 1613.3 | 1650.6 | 1656.2 |
| 57.5° | 5615.9 | 2296.0 | 1434.3 | 1385.8 | 1348.5 | 1458.5 | 1549.9 | 1555.5 | 1548.1 | 1592.8 | 1600.3 |
| 60° | 5655.1 | 2290.4 | 1365.3 | 1270.1 | 1247.8 | 1370.9 | 1484.6 | 1495.8 | 1494.0 | 1559.2 | 1572.3 |
| 62.5° | 5490.9 | 2219.5 | 1296.3 | 1173.2 | 1158.2 | 1281.3 | 1393.2 | 1438.0 | 1447.3 | 1540.6 | 1557.4 |
| 65° | 5104.8 | 2074.0 | 1204.9 | 1070.6 | 1070.6 | 1186.2 | 1305.6 | 1367.1 | 1393.2 | 1518.2 | 1536.9 |
| 67.5° | 4595.7 | 1902.4 | 1111.6 | 982.9 | 979.2 | 1094.8 | 1212.3 | 1275.7 | 1316.8 | 1486.5 | 1497.7 |
| 70° | 3814.2 | 1671.2 | 996.0 | 887.8 | 887.8 | 992.2 | 1098.6 | 1175.0 | 1234.7 | 1426.8 | 1426.8 |
| 72.5° | 2613.0 | 1389.5 | 856.1 | 779.6 | 781.5 | 878.5 | 986.7 | 1072.4 | 1143.3 | 1307.5 | 1311.2 |
| 75° | 1652.5 | 1085.5 | 703.2 | 664.0 | 671.4 | 762.8 | 874.7 | 964.3 | 1106.0 | 1292.5 | 1298.1 |
| 77.5° | 878.5 | 762.8 | 559.5 | 550.2 | 559.5 | 643.5 | 768.4 | 891.5 | 1109.7 | 1120.9 | 1102.3 |
| 80° | 568.9 | 540.9 | 442.0 | 423.4 | 427.1 | 518.5 | 684.5 | 846.8 | 891.5 | 902.7 | 861.7 |
| 82.5° | 309.6 | 343.2 | 313.3 | 294.7 | 294.7 | 404.7 | 583.8 | 673.3 | 639.7 | 531.6 | 507.3 |
| 85° | 132.4 | 160.4 | 162.3 | 141.7 | 136.2 | 249.9 | 391.7 | 367.4 | 341.3 | 326.4 | 322.7 |
| 87.5° | 37.3 | 52.2 | 52.2 | 39.2 | 29.8 | 69.0 | 78.3 | 22.4 | 0.0 | 1.9 | 3.7 |
| 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)