

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: P526641

Luminaire Tested: **GALN-SA1C-760-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-760-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5306 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

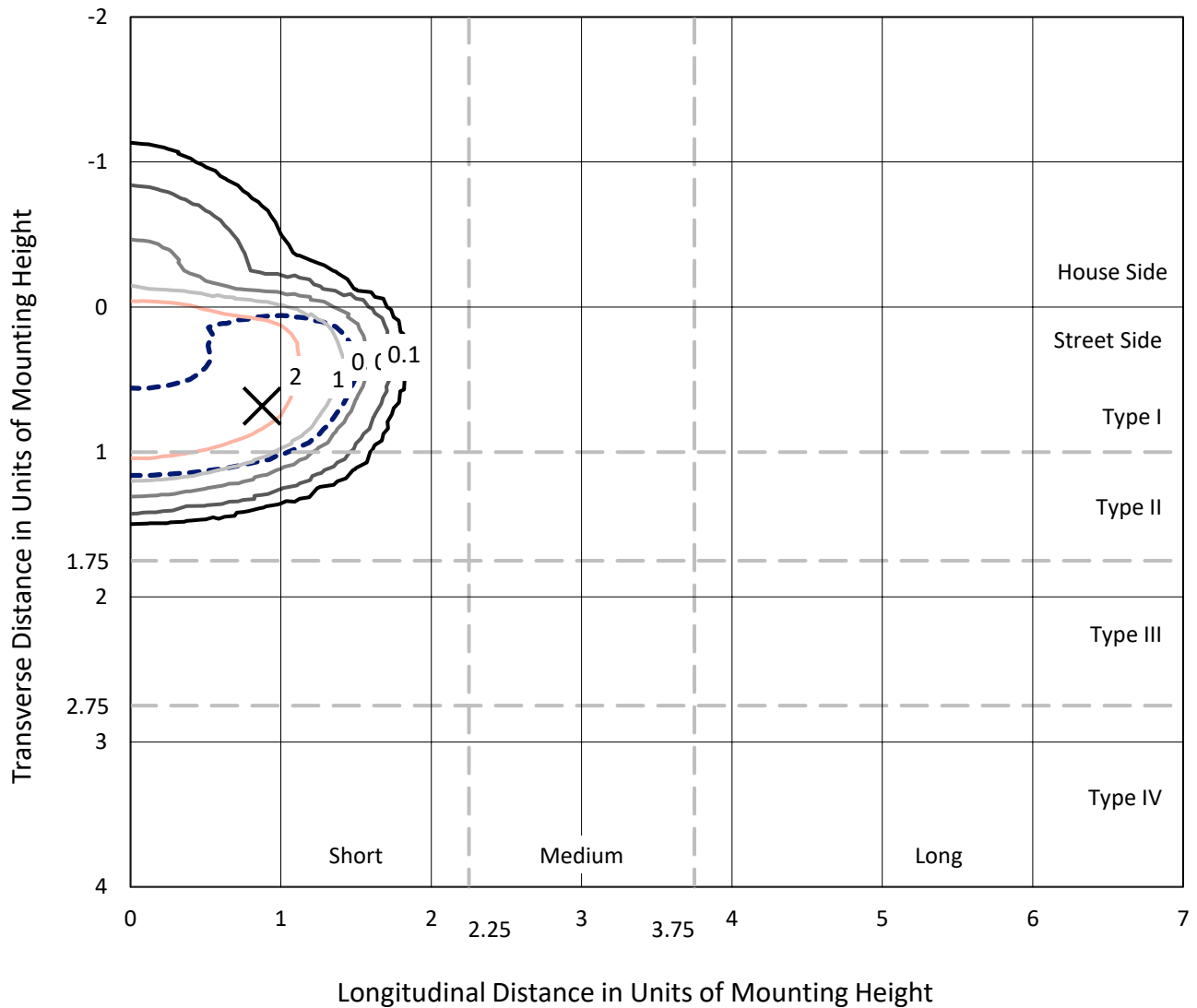
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

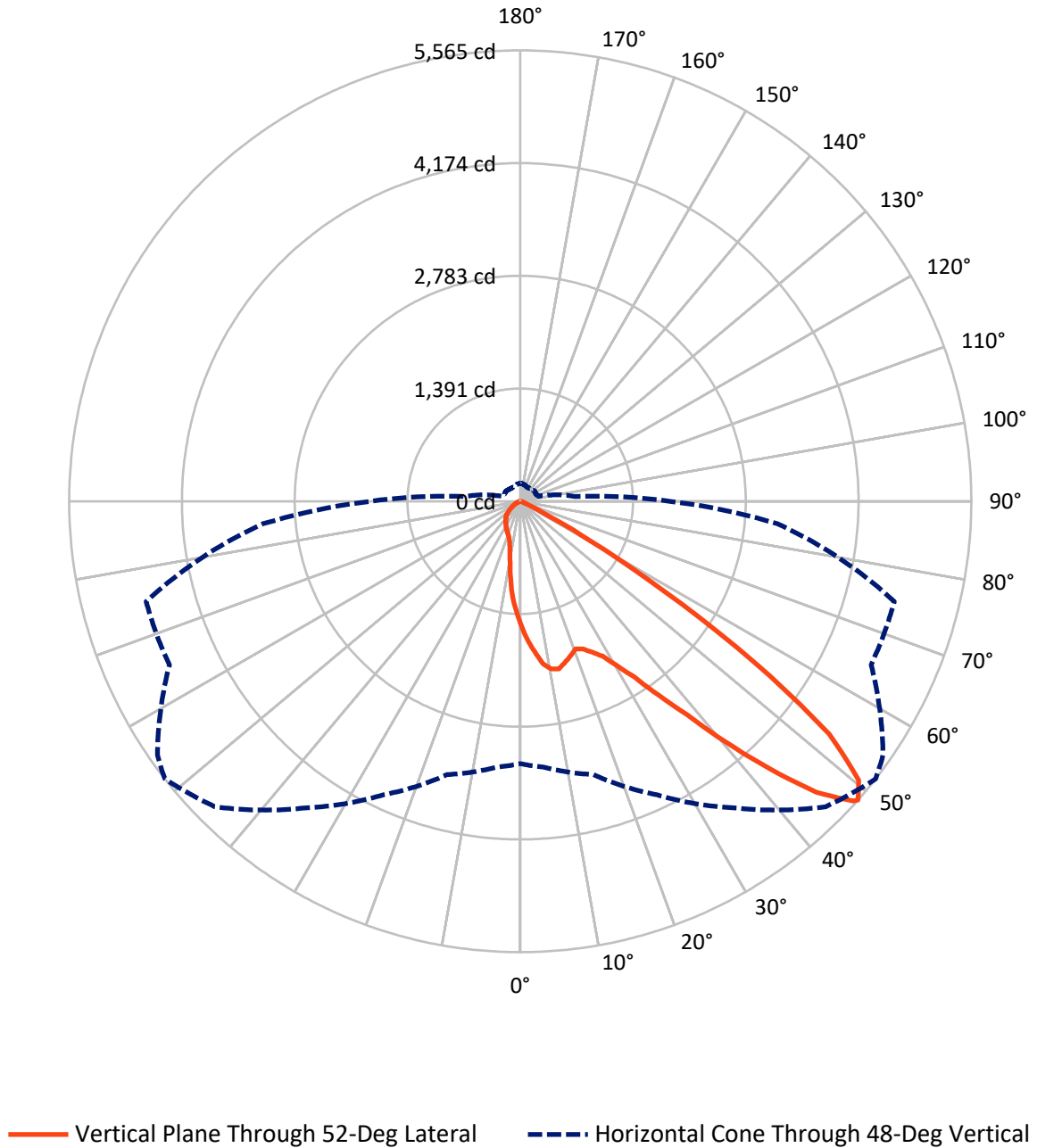
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 646.0 | 0.0 | 646.0 |
| | % Fixture | 12.2 | 0.0 | 12.2 |
| Street Side | Lumens | 4659.9 | 0.0 | 4659.9 |
| | % Fixture | 87.8 | 0.0 | 87.8 |
| Total | Lumens | 5306.0 | 0.0 | 5306.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 140.2 | 2.6 |
| 10°-20° | 366.5 | 6.9 |
| 20°-30° | 625.8 | 11.8 |
| 30°-40° | 1152.4 | 21.7 |
| 40°-50° | 1789.7 | 33.7 |
| 50°-60° | 1077.1 | 20.3 |
| 60°-70° | 124.6 | 2.3 |
| 70°-80° | 24.1 | 0.5 |
| 80°-90° | 5.6 | 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° | 5306.0 | 100.0 |
| 0°-180° | 5306.0 | 100.0 |

Coefficient of Utilization



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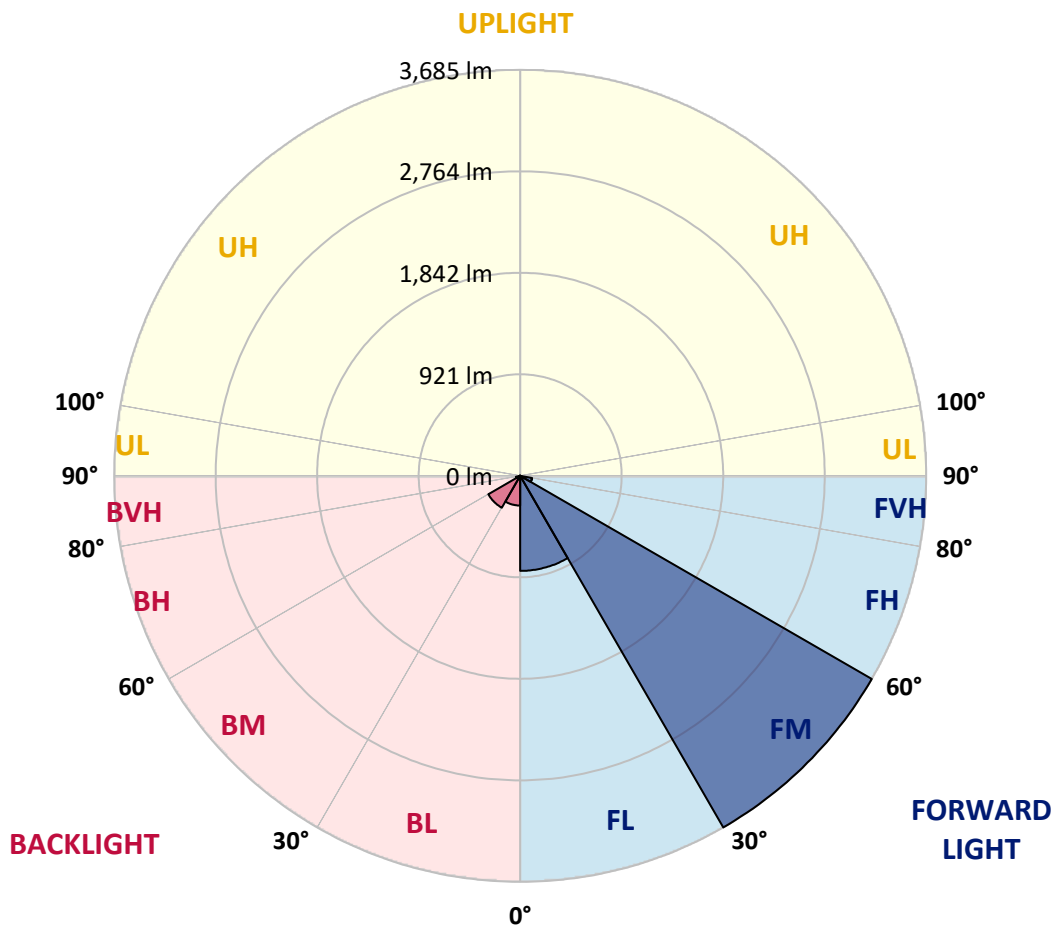
CATALOG NUMBER: GALN-SA1C-760-U-AFL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 862.7 | 16.3 | | | |
| FM (30°-60°) | 3684.9 | 69.4 | | | |
| FH (60°-80°) | 109.7 | 2.1 | | | G0/660 |
| FVH (80°-90°) | 2.6 | 0.0 | | | G0/10 |
| BL (0°-30°) | 269.9 | 5.1 | B1/500 | | |
| BM (30°-60°) | 334.3 | 6.3 | B1/1000 | | |
| BH (60°-80°) | 39.0 | 0.7 | B0/110 | | G0/110 |
| BVH (80°-90°) | 2.9 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 52° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1532.3 | 1532.3 | 1532.3 | 1532.3 | 1532.3 | 1532.3 | 1532.3 | 1532.3 | 1532.3 | 1532.3 | 1532.3 |
| 2.5° | 1857.2 | 1814.6 | 1818.5 | 1790.6 | 1774.4 | 1748.1 | 1712.5 | 1705.5 | 1666.9 | 1614.3 | 1560.9 |
| 5° | 2024.2 | 2014.2 | 2027.3 | 1987.1 | 1988.6 | 1945.3 | 1861.8 | 1863.3 | 1774.4 | 1688.5 | 1605.8 |
| 7.5° | 2035.1 | 2011.8 | 2025.0 | 2060.6 | 2081.5 | 2073.7 | 2026.5 | 1985.6 | 1901.2 | 1775.2 | 1654.5 |
| 10° | 1822.3 | 1866.4 | 1880.4 | 1939.1 | 2022.7 | 2110.9 | 2105.4 | 2107.8 | 2037.4 | 1872.6 | 1696.3 |
| 12.5° | 1694.7 | 1665.3 | 1712.5 | 1748.1 | 1874.2 | 2045.1 | 2123.2 | 2140.2 | 2145.7 | 1967.0 | 1738.0 |
| 15° | 1636.7 | 1636.7 | 1644.4 | 1654.5 | 1745.8 | 1903.6 | 2062.9 | 2112.4 | 2229.2 | 2090.7 | 1803.8 |
| 17.5° | 1673.1 | 1671.5 | 1682.3 | 1661.5 | 1695.5 | 1816.9 | 2007.2 | 2063.7 | 2322.8 | 2212.2 | 1855.6 |
| 20° | 1783.7 | 1789.1 | 1782.1 | 1721.8 | 1724.1 | 1815.4 | 1945.3 | 2034.3 | 2386.2 | 2317.4 | 1924.4 |
| 22.5° | 1937.6 | 1940.7 | 1901.2 | 1835.5 | 1816.2 | 1861.0 | 1980.9 | 2049.0 | 2437.3 | 2443.5 | 1945.3 |
| 25° | 2115.5 | 2103.1 | 2095.4 | 2002.6 | 1943.8 | 1982.5 | 2061.4 | 2100.8 | 2469.0 | 2551.7 | 2004.9 |
| 27.5° | 2362.2 | 2337.5 | 2290.3 | 2207.5 | 2164.2 | 2109.3 | 2165.8 | 2230.7 | 2559.5 | 2703.3 | 2069.9 |
| 30° | 2726.6 | 2704.9 | 2612.9 | 2506.1 | 2392.4 | 2338.3 | 2356.1 | 2391.6 | 2722.7 | 2878.9 | 2155.7 |
| 32.5° | 3275.0 | 3229.3 | 3096.3 | 2892.9 | 2738.2 | 2588.9 | 2584.2 | 2622.1 | 2868.9 | 3121.8 | 2257.8 |
| 35° | 3879.1 | 3865.1 | 3669.4 | 3459.8 | 3160.5 | 2930.0 | 2933.8 | 2954.0 | 3148.9 | 3440.5 | 2391.6 |
| 37.5° | 4280.5 | 4357.1 | 4232.5 | 4007.5 | 3756.1 | 3426.6 | 3343.0 | 3350.0 | 3533.3 | 3817.9 | 2633.0 |
| 40° | 4590.7 | 4525.7 | 4540.4 | 4487.8 | 4316.1 | 4091.8 | 3906.9 | 3870.5 | 3978.1 | 4235.6 | 2872.7 |
| 42.5° | 4455.3 | 4458.4 | 4548.9 | 4673.4 | 4716.0 | 4699.7 | 4511.0 | 4442.2 | 4358.6 | 4577.5 | 3100.9 |
| 45° | 4073.2 | 4152.9 | 4270.4 | 4599.9 | 4889.2 | 5160.7 | 5123.6 | 5009.1 | 4621.6 | 4848.2 | 3232.4 |
| 47.5° | 3463.7 | 3460.6 | 3653.2 | 4081.7 | 4724.5 | 5360.3 | 5528.9 | 5448.5 | 4808.0 | 4818.1 | 3205.3 |
| 48° | 3238.6 | 3294.3 | 3493.1 | 3997.4 | 4620.1 | 5330.9 | 5565.3 | 5463.9 | 4776.3 | 4777.9 | 3182.1 |
| 50° | 2394.0 | 2383.9 | 2631.4 | 3250.2 | 4126.6 | 5009.1 | 5412.1 | 5491.0 | 4775.5 | 4574.4 | 3019.7 |
| 52.5° | 1264.7 | 1308.0 | 1488.2 | 2043.6 | 2917.6 | 4099.5 | 4774.0 | 4897.0 | 4606.9 | 4241.8 | 2786.1 |
| 55° | 537.6 | 485.8 | 624.2 | 922.8 | 1641.3 | 2738.9 | 3502.4 | 3776.2 | 3895.3 | 3753.7 | 2437.3 |
| 57.5° | 191.8 | 209.6 | 241.3 | 347.3 | 690.0 | 1499.0 | 2088.4 | 2301.1 | 2698.7 | 2754.4 | 1660.7 |
| 60° | 123.0 | 125.3 | 135.4 | 159.3 | 259.1 | 577.8 | 990.8 | 1160.2 | 1340.5 | 1383.8 | 775.0 |
| 62.5° | 95.1 | 95.9 | 100.6 | 104.4 | 123.0 | 224.3 | 372.0 | 440.9 | 457.9 | 393.7 | 203.4 |
| 65° | 79.7 | 80.4 | 82.0 | 82.0 | 87.4 | 105.2 | 129.9 | 143.1 | 139.2 | 137.7 | 115.3 |
| 67.5° | 61.1 | 62.7 | 65.7 | 65.7 | 68.8 | 64.2 | 71.9 | 76.6 | 86.6 | 105.2 | 98.2 |
| 70° | 48.0 | 48.7 | 51.1 | 52.6 | 52.6 | 46.4 | 51.8 | 56.5 | 63.4 | 78.1 | 77.3 |
| 72.5° | 37.1 | 38.7 | 40.2 | 40.2 | 37.9 | 31.7 | 37.1 | 41.0 | 45.6 | 54.1 | 52.6 |
| 75° | 28.6 | 28.6 | 29.4 | 24.0 | 18.6 | 16.2 | 22.4 | 27.1 | 34.0 | 35.6 | 29.4 |
| 77.5° | 7.7 | 8.5 | 7.7 | 7.0 | 7.7 | 11.6 | 14.7 | 17.0 | 21.7 | 21.7 | 19.3 |
| 80° | 0.0 | 0.8 | 2.3 | 4.6 | 7.7 | 10.8 | 13.1 | 14.7 | 17.0 | 18.6 | 17.8 |
| 82.5° | 0.0 | 0.8 | 2.3 | 4.6 | 7.0 | 8.5 | 11.6 | 12.4 | 13.9 | 16.2 | 16.2 |
| 85° | 0.0 | 0.8 | 1.5 | 3.1 | 4.6 | 5.4 | 5.4 | 4.6 | 4.6 | 3.9 | 3.1 |
| 87.5° | 0.0 | 0.0 | 0.8 | 1.5 | 1.5 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| 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° | 1532.3 | 1532.3 | 1532.3 | 1532.3 | 1532.3 | 1532.3 | 1532.3 | 1532.3 | 1532.3 | 1532.3 | 1532.3 |
| 2.5° | 1540.0 | 1516.0 | 1479.7 | 1422.4 | 1367.5 | 1332.0 | 1297.9 | 1260.0 | 1239.1 | 1237.6 | 1226.0 |
| 5° | 1558.6 | 1504.4 | 1417.8 | 1319.6 | 1214.4 | 1123.9 | 1032.6 | 973.1 | 919.7 | 890.3 | 884.9 |
| 7.5° | 1568.6 | 1498.3 | 1358.2 | 1193.5 | 1014.0 | 866.3 | 764.2 | 689.2 | 659.8 | 638.1 | 637.4 |
| 10° | 1589.5 | 1487.4 | 1269.3 | 1026.4 | 804.4 | 655.1 | 584.8 | 550.7 | 534.5 | 528.3 | 519.0 |
| 12.5° | 1605.0 | 1467.3 | 1178.0 | 854.7 | 635.8 | 543.0 | 512.1 | 504.3 | 505.1 | 508.2 | 504.3 |
| 15° | 1626.7 | 1449.5 | 1055.0 | 701.6 | 533.7 | 488.8 | 488.8 | 490.4 | 501.2 | 502.8 | 502.0 |
| 17.5° | 1625.1 | 1414.7 | 928.2 | 577.8 | 471.8 | 465.6 | 468.0 | 482.7 | 489.6 | 491.9 | 486.5 |
| 20° | 1643.7 | 1382.2 | 797.5 | 493.5 | 437.0 | 446.3 | 461.8 | 465.6 | 474.1 | 475.7 | 469.5 |
| 22.5° | 1638.3 | 1301.0 | 676.0 | 427.0 | 410.7 | 428.5 | 444.0 | 448.6 | 446.3 | 441.7 | 440.9 |
| 25° | 1628.2 | 1231.4 | 564.6 | 382.9 | 391.4 | 410.7 | 425.4 | 416.9 | 412.3 | 413.0 | 413.8 |
| 27.5° | 1610.4 | 1143.2 | 472.6 | 351.9 | 365.1 | 393.7 | 392.9 | 389.8 | 394.5 | 390.6 | 394.5 |
| 30° | 1607.3 | 1055.0 | 396.8 | 324.1 | 345.8 | 366.6 | 368.2 | 373.6 | 379.0 | 372.0 | 379.0 |
| 32.5° | 1612.0 | 958.4 | 342.7 | 307.1 | 334.1 | 334.9 | 351.9 | 357.4 | 353.5 | 338.0 | 339.6 |
| 35° | 1647.5 | 884.1 | 303.2 | 297.8 | 315.6 | 316.4 | 332.6 | 325.6 | 308.6 | 299.3 | 304.8 |
| 37.5° | 1722.6 | 822.2 | 284.6 | 289.3 | 290.8 | 300.9 | 301.7 | 287.7 | 289.3 | 288.5 | 291.6 |
| 40° | 1818.5 | 775.0 | 271.5 | 281.6 | 280.0 | 287.0 | 259.1 | 266.9 | 273.8 | 276.1 | 277.7 |
| 42.5° | 1884.2 | 741.0 | 263.0 | 269.2 | 266.1 | 253.7 | 238.2 | 246.0 | 251.4 | 259.9 | 261.4 |
| 45° | 1913.6 | 713.9 | 252.9 | 247.5 | 247.5 | 225.1 | 218.9 | 220.4 | 232.8 | 242.1 | 240.6 |
| 47.5° | 1865.7 | 687.6 | 235.1 | 218.9 | 224.3 | 205.7 | 198.8 | 198.8 | 211.9 | 223.5 | 221.2 |
| 48° | 1847.1 | 676.8 | 235.9 | 212.7 | 216.6 | 202.7 | 195.7 | 194.1 | 208.8 | 219.7 | 219.7 |
| 50° | 1755.0 | 636.6 | 215.8 | 195.7 | 188.0 | 186.4 | 181.8 | 183.3 | 192.6 | 202.7 | 202.7 |
| 52.5° | 1575.6 | 550.0 | 182.5 | 167.8 | 153.9 | 163.2 | 165.5 | 162.4 | 167.1 | 176.4 | 175.6 |
| 55° | 1314.9 | 422.3 | 146.2 | 139.2 | 128.4 | 138.5 | 143.1 | 139.2 | 134.6 | 141.5 | 141.5 |
| 57.5° | 842.3 | 227.4 | 116.8 | 118.3 | 107.5 | 117.6 | 121.4 | 112.2 | 103.6 | 109.1 | 108.3 |
| 60° | 379.8 | 136.1 | 95.9 | 93.6 | 86.6 | 98.2 | 104.4 | 93.6 | 82.0 | 85.9 | 89.7 |
| 62.5° | 142.3 | 96.7 | 72.7 | 71.2 | 69.6 | 80.4 | 83.5 | 75.0 | 63.4 | 65.7 | 66.5 |
| 65° | 104.4 | 85.1 | 58.0 | 52.6 | 55.7 | 63.4 | 61.9 | 53.4 | 45.6 | 45.6 | 47.2 |
| 67.5° | 89.0 | 74.3 | 47.2 | 41.0 | 41.0 | 41.8 | 38.7 | 34.0 | 31.7 | 33.3 | 34.8 |
| 70° | 69.6 | 58.8 | 37.1 | 31.7 | 28.6 | 25.5 | 22.4 | 21.7 | 19.3 | 21.7 | 20.9 |
| 72.5° | 44.9 | 39.4 | 28.6 | 24.0 | 21.7 | 17.8 | 14.7 | 13.9 | 11.6 | 10.8 | 10.8 |
| 75° | 24.0 | 24.0 | 22.4 | 19.3 | 17.0 | 13.9 | 11.6 | 9.3 | 6.2 | 4.6 | 4.6 |
| 77.5° | 17.0 | 18.6 | 20.1 | 18.6 | 15.5 | 11.6 | 9.3 | 6.2 | 3.1 | 1.5 | 1.5 |
| 80° | 16.2 | 18.6 | 20.1 | 17.8 | 15.5 | 11.6 | 8.5 | 4.6 | 2.3 | 0.8 | 0.8 |
| 82.5° | 14.7 | 17.0 | 18.6 | 16.2 | 13.9 | 10.1 | 7.7 | 4.6 | 2.3 | 0.8 | 0.8 |
| 85° | 3.1 | 3.9 | 4.6 | 4.6 | 5.4 | 7.0 | 5.4 | 3.9 | 1.5 | 0.8 | 0.8 |
| 87.5° | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 1.5 | 1.5 | 0.8 | 0.8 | 0.8 |
| 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)