

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: P451492

Luminaire Tested: **GALN-SA2B-760-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451492
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-760-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11418 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

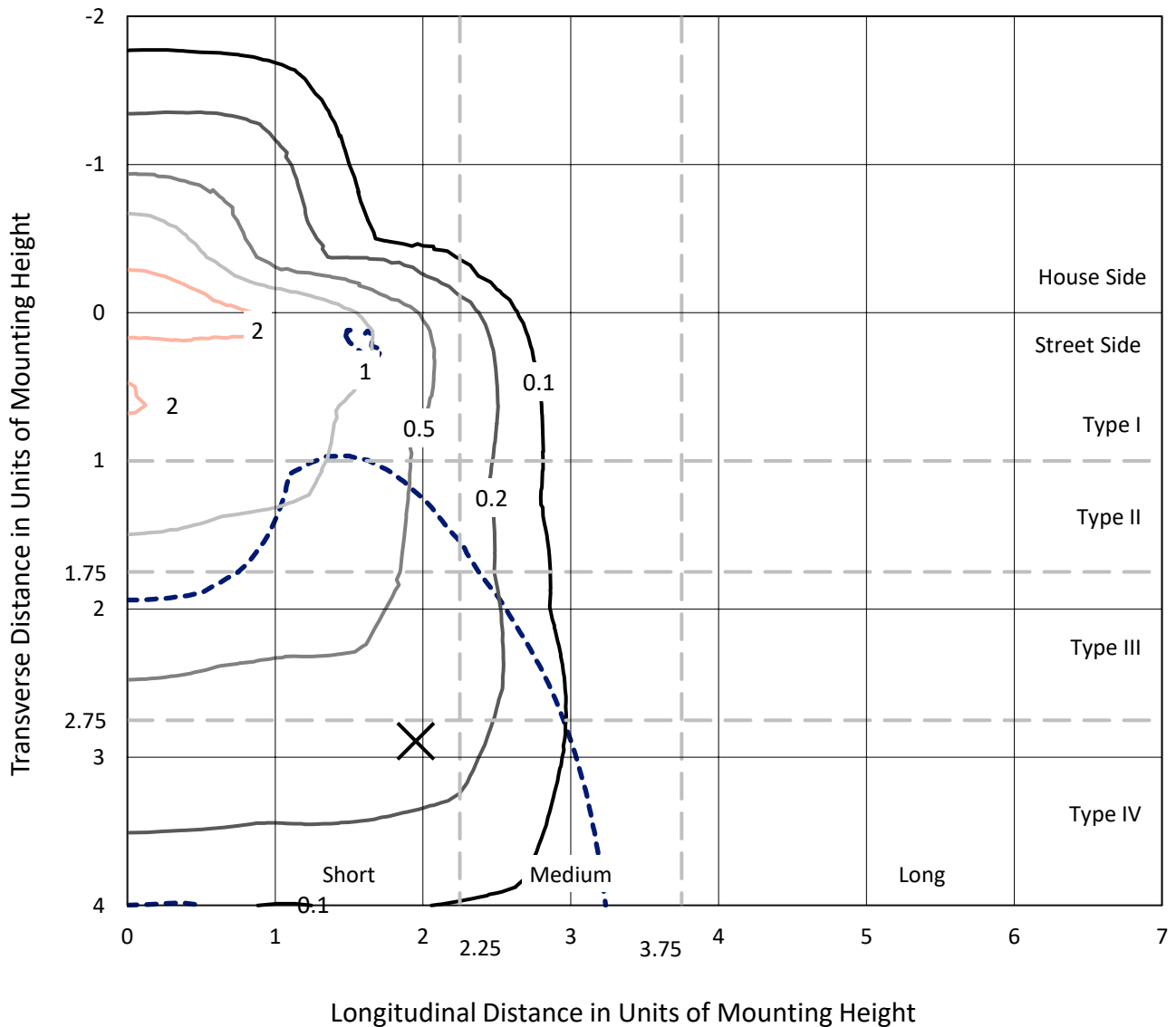
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

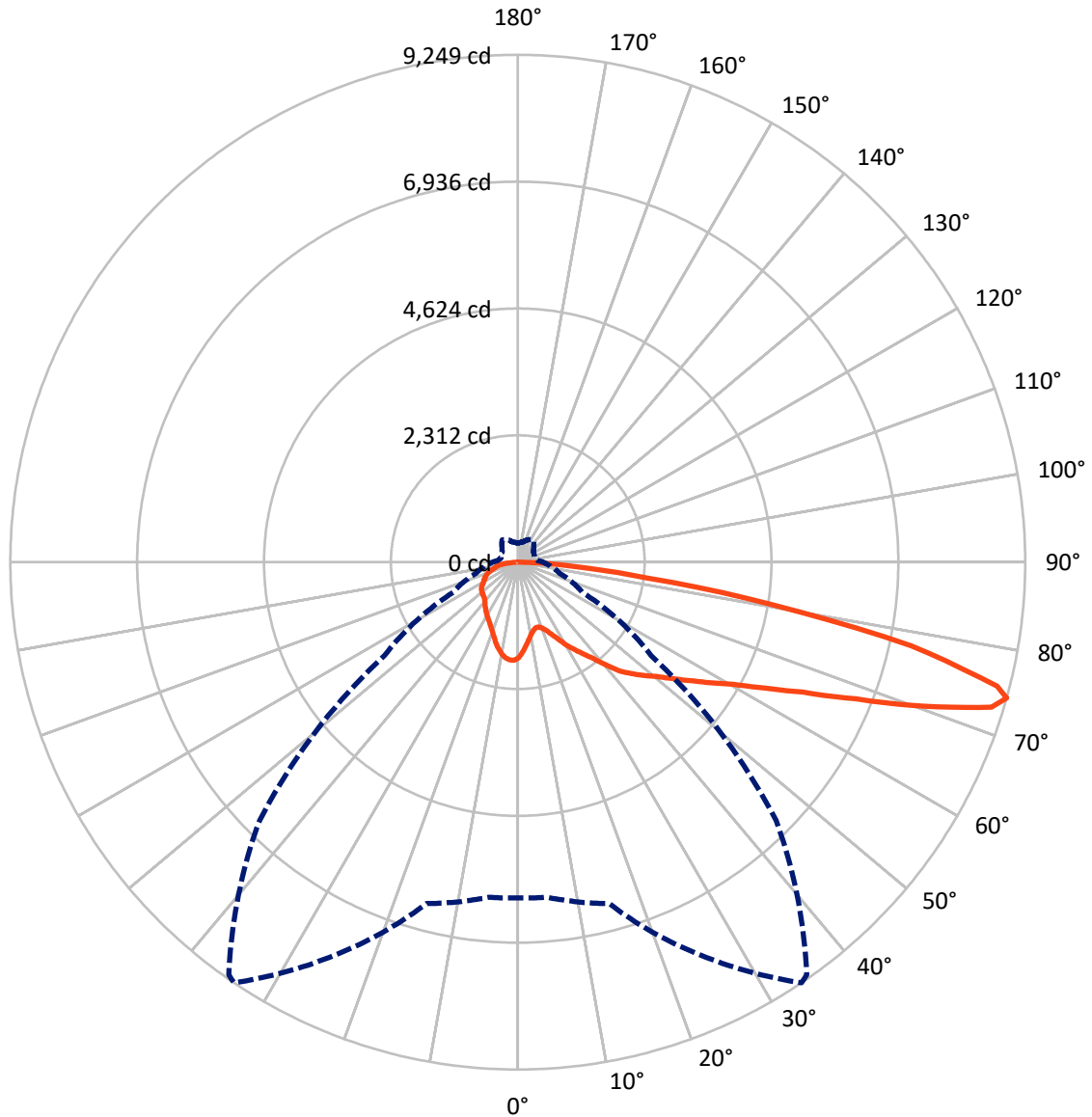
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2429.8 | 0.0 | 2429.8 |
| | % Fixture | 21.3 | 0.0 | 21.3 |
| Street Side | Lumens | 8988.2 | 0.0 | 8988.2 |
| | % Fixture | 78.7 | 0.0 | 78.7 |
| Total | Lumens | 11418.0 | 0.0 | 11418.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 158.5 | 1.4 |
| 10°-20° | 434.0 | 3.8 |
| 20°-30° | 715.6 | 6.3 |
| 30°-40° | 1071.8 | 9.4 |
| 40°-50° | 1558.2 | 13.6 |
| 50°-60° | 2176.4 | 19.1 |
| 60°-70° | 2724.7 | 23.9 |
| 70°-80° | 2253.1 | 19.7 |
| 80°-90° | 325.6 | 2.9 |
| 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° | 11418.0 | 100.0 |
| 0°-180° | 11418.0 | 100.0 |

Coefficient of Utilization



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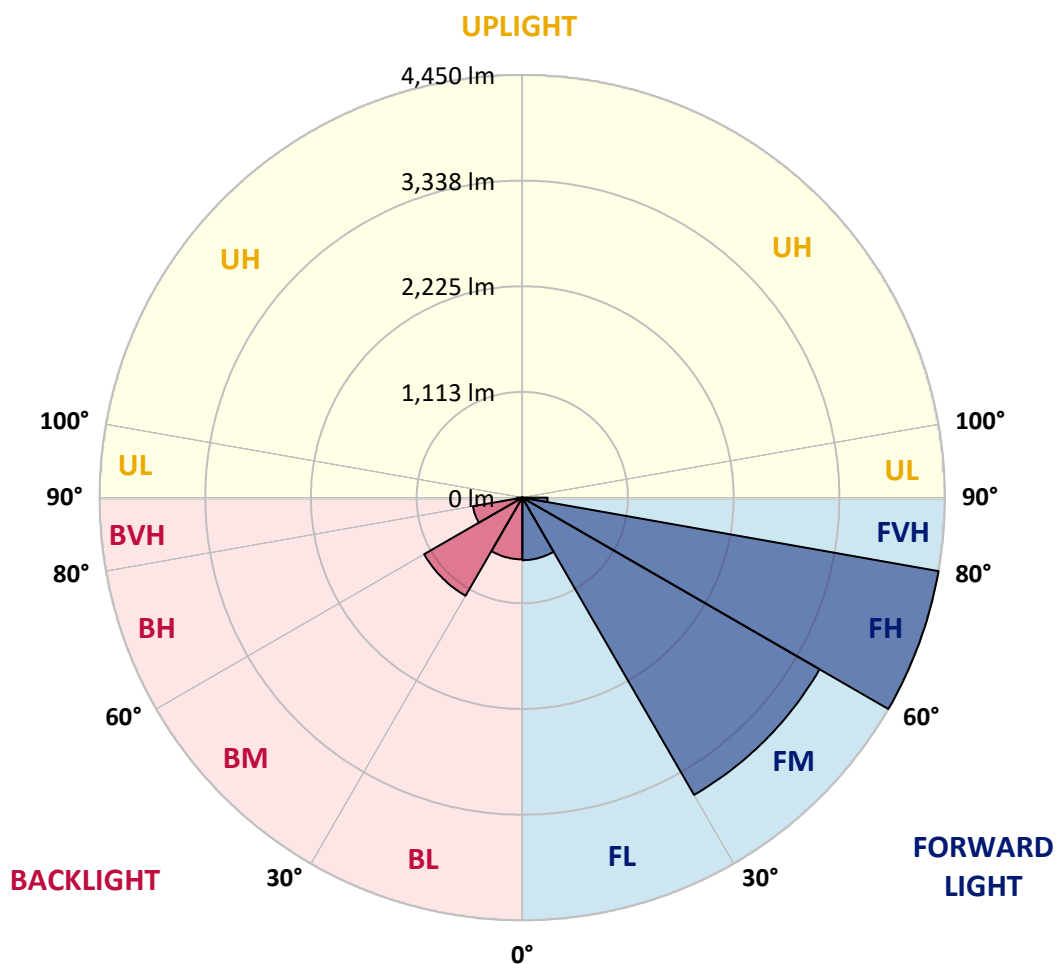
CATALOG NUMBER: GALN-SA2B-760-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 658.2 | 5.8 | | | |
| FM | (30°-60°) | 3613.1 | 31.6 | | | |
| FH | (60°-80°) | 4450.1 | 39.0 | | | G2/5000 |
| FVH | (80°-90°) | 266.7 | 2.3 | | | G3/500 |
| BL | (0°-30°) | 649.9 | 5.7 | B2/1000 | | |
| BM | (30°-60°) | 1193.3 | 10.5 | B2/2500 | | |
| BH | (60°-80°) | 527.7 | 4.6 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 58.8 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1743.3 | 1743.3 | 1743.3 | 1743.3 | 1743.3 | 1743.3 | 1743.3 | 1743.3 | 1743.3 | 1743.3 | 1743.3 |
| 2.5° | 1611.1 | 1619.3 | 1623.8 | 1639.6 | 1643.4 | 1648.4 | 1661.7 | 1679.4 | 1702.2 | 1722.4 | 1740.1 |
| 5° | 1477.0 | 1489.7 | 1497.2 | 1511.2 | 1538.4 | 1540.9 | 1576.3 | 1616.8 | 1663.0 | 1706.0 | 1741.4 |
| 7.5° | 1349.9 | 1363.8 | 1370.1 | 1395.4 | 1431.5 | 1437.1 | 1489.0 | 1552.9 | 1630.1 | 1695.2 | 1749.6 |
| 10° | 1254.3 | 1261.3 | 1275.2 | 1294.2 | 1337.2 | 1341.0 | 1408.7 | 1494.1 | 1594.0 | 1690.2 | 1763.5 |
| 12.5° | 1202.5 | 1206.3 | 1209.4 | 1229.7 | 1272.1 | 1277.7 | 1348.6 | 1445.4 | 1565.6 | 1694.0 | 1786.3 |
| 15° | 1210.1 | 1211.3 | 1197.4 | 1201.2 | 1235.4 | 1243.6 | 1313.8 | 1413.1 | 1547.8 | 1703.5 | 1820.5 |
| 17.5° | 1274.0 | 1269.5 | 1235.4 | 1217.7 | 1241.7 | 1245.5 | 1306.8 | 1400.5 | 1539.6 | 1721.2 | 1855.9 |
| 20° | 1374.5 | 1368.2 | 1309.4 | 1270.2 | 1284.1 | 1287.2 | 1329.6 | 1409.9 | 1547.8 | 1750.3 | 1910.9 |
| 22.5° | 1499.8 | 1497.2 | 1408.1 | 1360.6 | 1360.0 | 1360.0 | 1382.1 | 1444.1 | 1572.5 | 1790.1 | 1968.5 |
| 25° | 1675.0 | 1661.7 | 1545.3 | 1484.0 | 1466.9 | 1465.6 | 1463.1 | 1500.4 | 1604.1 | 1832.5 | 2036.8 |
| 27.5° | 1854.6 | 1831.9 | 1728.1 | 1633.9 | 1597.2 | 1592.8 | 1576.3 | 1580.1 | 1644.6 | 1880.6 | 2114.6 |
| 30° | 2015.9 | 2001.4 | 1904.0 | 1799.6 | 1756.0 | 1745.8 | 1700.3 | 1679.4 | 1712.3 | 1967.2 | 2238.6 |
| 32.5° | 2139.3 | 2130.4 | 2054.5 | 1959.6 | 1895.1 | 1893.2 | 1826.8 | 1809.7 | 1817.9 | 2072.2 | 2380.3 |
| 35° | 2239.2 | 2242.4 | 2203.8 | 2121.6 | 2047.6 | 2036.8 | 1992.5 | 1971.0 | 1947.0 | 2224.0 | 2558.7 |
| 37.5° | 2375.9 | 2382.8 | 2380.3 | 2309.4 | 2219.0 | 2221.5 | 2211.4 | 2176.0 | 2112.1 | 2393.6 | 2756.6 |
| 40° | 2526.4 | 2531.5 | 2530.8 | 2503.6 | 2456.2 | 2458.7 | 2454.9 | 2414.4 | 2318.9 | 2609.3 | 2976.8 |
| 42.5° | 2734.5 | 2710.5 | 2647.8 | 2675.0 | 2702.9 | 2714.9 | 2740.8 | 2702.2 | 2571.3 | 2839.5 | 3183.6 |
| 45° | 2967.3 | 2921.7 | 2780.0 | 2792.7 | 2895.8 | 2918.6 | 3061.5 | 3008.4 | 2845.2 | 3103.9 | 3427.1 |
| 47.5° | 3114.0 | 3069.1 | 2949.6 | 2947.0 | 3083.7 | 3105.8 | 3358.8 | 3339.2 | 3094.4 | 3389.2 | 3724.4 |
| 50° | 3245.0 | 3238.6 | 3103.9 | 3136.2 | 3269.6 | 3302.5 | 3682.7 | 3664.4 | 3343.0 | 3725.7 | 4048.3 |
| 52.5° | 3439.2 | 3387.9 | 3280.4 | 3346.8 | 3523.3 | 3566.3 | 4004.0 | 3950.3 | 3571.4 | 4023.0 | 4362.7 |
| 55° | 3526.5 | 3514.4 | 3508.1 | 3565.7 | 3807.9 | 3838.9 | 4316.5 | 4193.2 | 3766.2 | 4274.8 | 4601.8 |
| 57.5° | 3759.9 | 3737.7 | 3800.3 | 3839.6 | 4143.2 | 4190.6 | 4642.9 | 4446.8 | 3937.0 | 4474.6 | 4718.2 |
| 60° | 4062.2 | 4050.2 | 4107.8 | 4178.6 | 4517.7 | 4589.8 | 5014.8 | 4663.1 | 4074.2 | 4575.2 | 4654.3 |
| 62.5° | 4513.9 | 4512.6 | 4501.8 | 4653.7 | 5048.4 | 5114.8 | 5441.8 | 4873.8 | 4095.7 | 4499.9 | 4324.1 |
| 65° | 5161.6 | 5138.8 | 5045.2 | 5210.9 | 5708.7 | 5786.6 | 5886.5 | 4991.4 | 3966.1 | 4113.5 | 3640.9 |
| 67.5° | 5839.1 | 5837.8 | 5761.9 | 5976.9 | 6656.9 | 6737.3 | 6442.5 | 4965.5 | 3606.2 | 3332.3 | 2585.9 |
| 70° | 6400.8 | 6373.6 | 6470.3 | 7043.4 | 7868.3 | 7961.3 | 6928.9 | 4660.0 | 2872.4 | 2200.6 | 1536.5 |
| 72.5° | 6535.5 | 6536.8 | 6737.9 | 7865.7 | 9031.5 | 9046.1 | 7104.1 | 3776.9 | 1922.3 | 1213.9 | 768.5 |
| 74° | 6120.5 | 6131.3 | 6443.1 | 7906.9 | 9248.5 | 9182.7 | 6656.3 | 2968.5 | 1299.9 | 792.6 | 554.1 |
| 75° | 5586.7 | 5519.0 | 5970.0 | 7633.0 | 9023.3 | 8952.5 | 6131.9 | 2382.2 | 991.8 | 633.2 | 485.2 |
| 77.5° | 2986.9 | 3055.8 | 3751.6 | 5696.1 | 7330.6 | 7249.0 | 4157.7 | 1142.4 | 535.8 | 440.9 | 349.2 |
| 80° | 1063.3 | 1172.7 | 1648.4 | 2980.6 | 4699.8 | 4725.1 | 1984.3 | 523.7 | 377.0 | 325.1 | 246.7 |
| 82.5° | 433.9 | 445.9 | 707.8 | 1322.7 | 2386.6 | 2409.4 | 810.3 | 311.2 | 269.5 | 223.9 | 147.4 |
| 85° | 169.5 | 174.6 | 313.1 | 594.6 | 1018.4 | 1084.8 | 280.2 | 164.5 | 165.7 | 128.4 | 75.3 |
| 87.5° | 56.9 | 64.5 | 128.4 | 198.0 | 346.0 | 339.0 | 81.6 | 48.7 | 59.5 | 55.7 | 23.4 |
| 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° | 1743.3 | 1743.3 | 1743.3 | 1743.3 | 1743.3 | 1743.3 | 1743.3 | 1743.3 | 1743.3 | 1743.3 | 1743.3 |
| 2.5° | 1749.0 | 1761.0 | 1769.2 | 1778.1 | 1786.3 | 1788.8 | 1786.9 | 1792.6 | 1793.3 | 1793.9 | 1794.5 |
| 5° | 1759.1 | 1775.6 | 1791.4 | 1800.2 | 1804.0 | 1800.9 | 1790.1 | 1784.4 | 1779.4 | 1775.6 | 1776.8 |
| 7.5° | 1773.0 | 1796.4 | 1811.0 | 1814.8 | 1804.7 | 1790.1 | 1763.5 | 1742.7 | 1729.4 | 1720.5 | 1719.9 |
| 10° | 1794.5 | 1817.3 | 1829.3 | 1818.6 | 1790.7 | 1755.3 | 1713.6 | 1674.4 | 1644.6 | 1635.8 | 1635.1 |
| 12.5° | 1821.7 | 1847.7 | 1847.0 | 1815.4 | 1766.7 | 1703.5 | 1635.8 | 1590.2 | 1549.7 | 1529.5 | 1537.7 |
| 15° | 1857.2 | 1876.8 | 1858.4 | 1801.5 | 1724.3 | 1637.7 | 1554.2 | 1492.2 | 1446.6 | 1425.1 | 1426.4 |
| 17.5° | 1898.3 | 1915.4 | 1866.6 | 1776.8 | 1664.9 | 1553.5 | 1456.8 | 1397.9 | 1361.9 | 1346.1 | 1344.8 |
| 20° | 1949.5 | 1954.6 | 1866.6 | 1733.8 | 1588.3 | 1455.5 | 1363.1 | 1322.0 | 1301.8 | 1293.6 | 1296.1 |
| 22.5° | 2004.5 | 1994.4 | 1856.5 | 1673.1 | 1487.8 | 1353.0 | 1291.0 | 1272.7 | 1262.6 | 1261.3 | 1262.6 |
| 25° | 2066.5 | 2038.1 | 1835.7 | 1590.9 | 1382.8 | 1264.5 | 1228.4 | 1231.6 | 1233.5 | 1233.5 | 1237.9 |
| 27.5° | 2142.4 | 2085.5 | 1800.9 | 1487.1 | 1260.0 | 1182.2 | 1172.1 | 1194.3 | 1204.4 | 1206.3 | 1209.4 |
| 30° | 2242.4 | 2137.4 | 1743.3 | 1357.4 | 1155.7 | 1108.2 | 1125.9 | 1155.7 | 1167.1 | 1174.0 | 1172.7 |
| 32.5° | 2361.3 | 2194.3 | 1665.5 | 1227.8 | 1071.5 | 1056.4 | 1077.9 | 1108.2 | 1120.9 | 1124.7 | 1119.6 |
| 35° | 2501.1 | 2258.8 | 1563.0 | 1106.3 | 998.2 | 1007.0 | 1032.3 | 1041.8 | 1053.2 | 1053.2 | 1055.7 |
| 37.5° | 2651.6 | 2310.7 | 1437.8 | 995.0 | 941.2 | 973.5 | 991.8 | 983.0 | 977.9 | 971.6 | 974.8 |
| 40° | 2804.7 | 2349.3 | 1275.2 | 884.9 | 884.3 | 938.7 | 943.8 | 918.5 | 898.2 | 891.9 | 888.7 |
| 42.5° | 2938.2 | 2373.3 | 1128.5 | 799.5 | 830.5 | 904.5 | 908.3 | 867.9 | 835.6 | 816.6 | 810.3 |
| 45° | 3095.7 | 2401.2 | 984.9 | 728.7 | 780.6 | 877.3 | 886.8 | 832.4 | 785.0 | 745.1 | 735.0 |
| 47.5° | 3311.4 | 2464.4 | 871.7 | 673.7 | 744.5 | 860.3 | 873.5 | 803.3 | 740.7 | 688.8 | 680.6 |
| 50° | 3554.9 | 2551.1 | 783.7 | 636.3 | 716.7 | 845.1 | 861.5 | 773.6 | 699.6 | 642.0 | 635.7 |
| 52.5° | 3778.2 | 2597.9 | 707.8 | 602.8 | 689.5 | 817.3 | 845.7 | 752.1 | 659.1 | 595.2 | 589.5 |
| 55° | 3900.3 | 2522.0 | 633.2 | 569.9 | 652.2 | 781.2 | 823.6 | 722.4 | 619.9 | 570.6 | 562.3 |
| 57.5° | 3916.7 | 2365.1 | 565.5 | 534.5 | 612.9 | 736.9 | 782.5 | 686.3 | 594.6 | 553.5 | 546.5 |
| 60° | 3789.6 | 2131.1 | 513.0 | 505.4 | 573.1 | 686.9 | 736.3 | 654.7 | 568.7 | 534.5 | 527.5 |
| 62.5° | 3473.3 | 1876.8 | 476.3 | 478.8 | 532.6 | 634.4 | 702.1 | 624.3 | 544.0 | 513.6 | 507.3 |
| 65° | 2929.3 | 1549.1 | 440.9 | 451.6 | 496.6 | 593.3 | 671.1 | 599.0 | 519.3 | 497.8 | 492.1 |
| 67.5° | 2034.9 | 1118.3 | 411.8 | 423.2 | 462.4 | 551.6 | 635.1 | 571.8 | 491.5 | 480.1 | 471.2 |
| 70° | 1126.6 | 688.2 | 377.6 | 390.9 | 427.0 | 504.8 | 594.6 | 530.7 | 451.0 | 445.9 | 433.3 |
| 72.5° | 592.1 | 438.4 | 339.0 | 353.6 | 378.9 | 444.7 | 532.6 | 485.8 | 411.2 | 389.6 | 373.2 |
| 74° | 462.4 | 359.3 | 313.1 | 328.3 | 345.4 | 409.3 | 495.9 | 453.5 | 382.7 | 357.4 | 344.7 |
| 75° | 402.9 | 320.1 | 291.0 | 310.6 | 325.8 | 385.2 | 467.5 | 430.8 | 366.9 | 342.8 | 331.5 |
| 77.5° | 284.6 | 239.7 | 237.8 | 261.2 | 269.5 | 337.8 | 421.3 | 392.2 | 327.0 | 301.7 | 291.0 |
| 80° | 199.9 | 179.6 | 188.5 | 203.0 | 214.4 | 298.6 | 390.9 | 339.0 | 268.2 | 238.5 | 234.7 |
| 82.5° | 130.3 | 117.7 | 134.7 | 148.0 | 151.8 | 220.1 | 315.6 | 257.4 | 195.5 | 158.8 | 147.4 |
| 85° | 60.1 | 58.8 | 77.2 | 75.3 | 74.6 | 107.5 | 187.2 | 150.5 | 112.6 | 84.1 | 79.1 |
| 87.5° | 15.2 | 14.5 | 19.0 | 15.8 | 19.0 | 16.4 | 17.1 | 4.4 | 0.6 | 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)