

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: STREETWORKS

Report Number: P452215

Luminaire Tested: **GLAN-SA3A-827-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3A-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10270 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 93
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

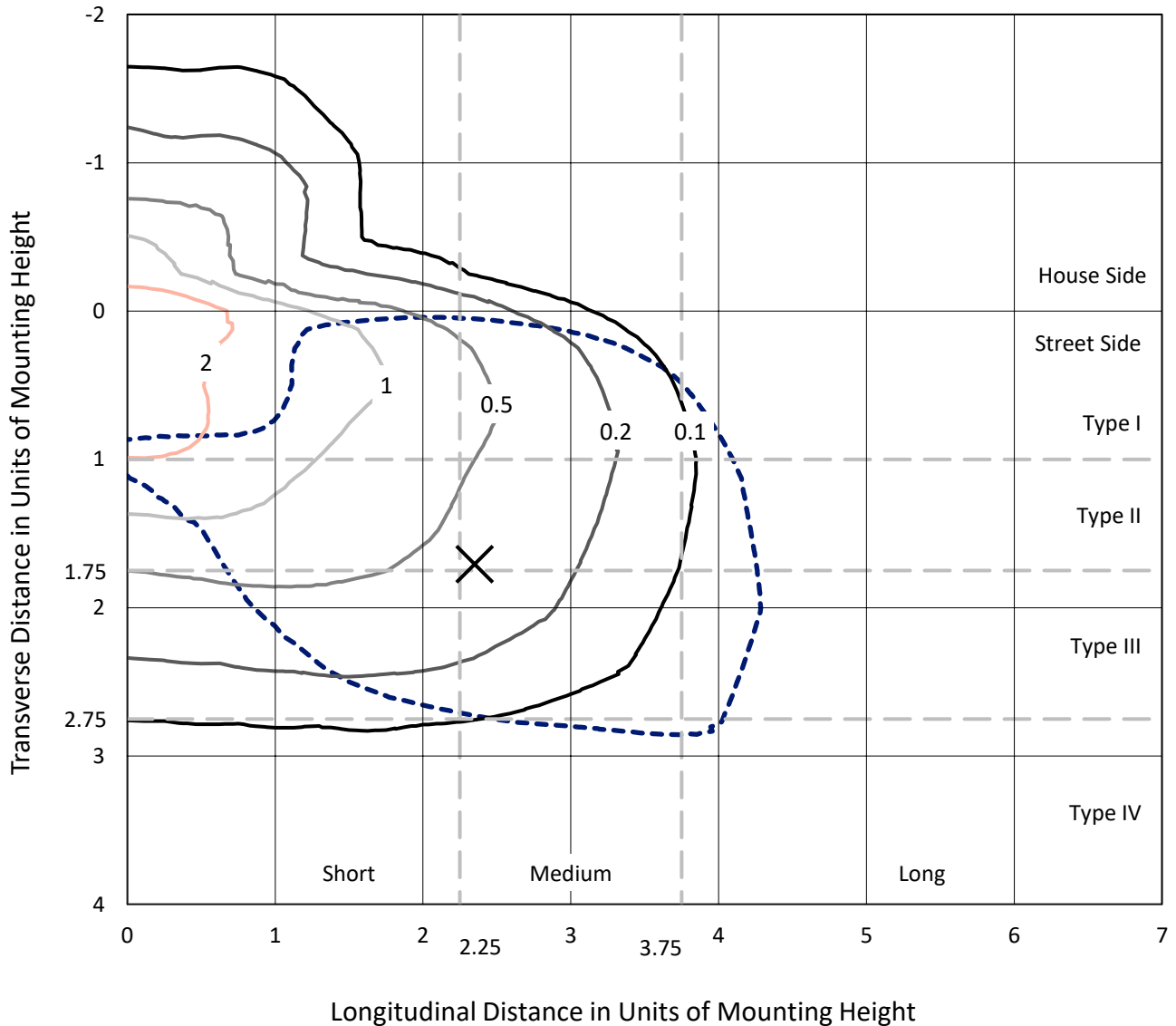




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Iso-Footcandle Lines of Horizontal Illumination

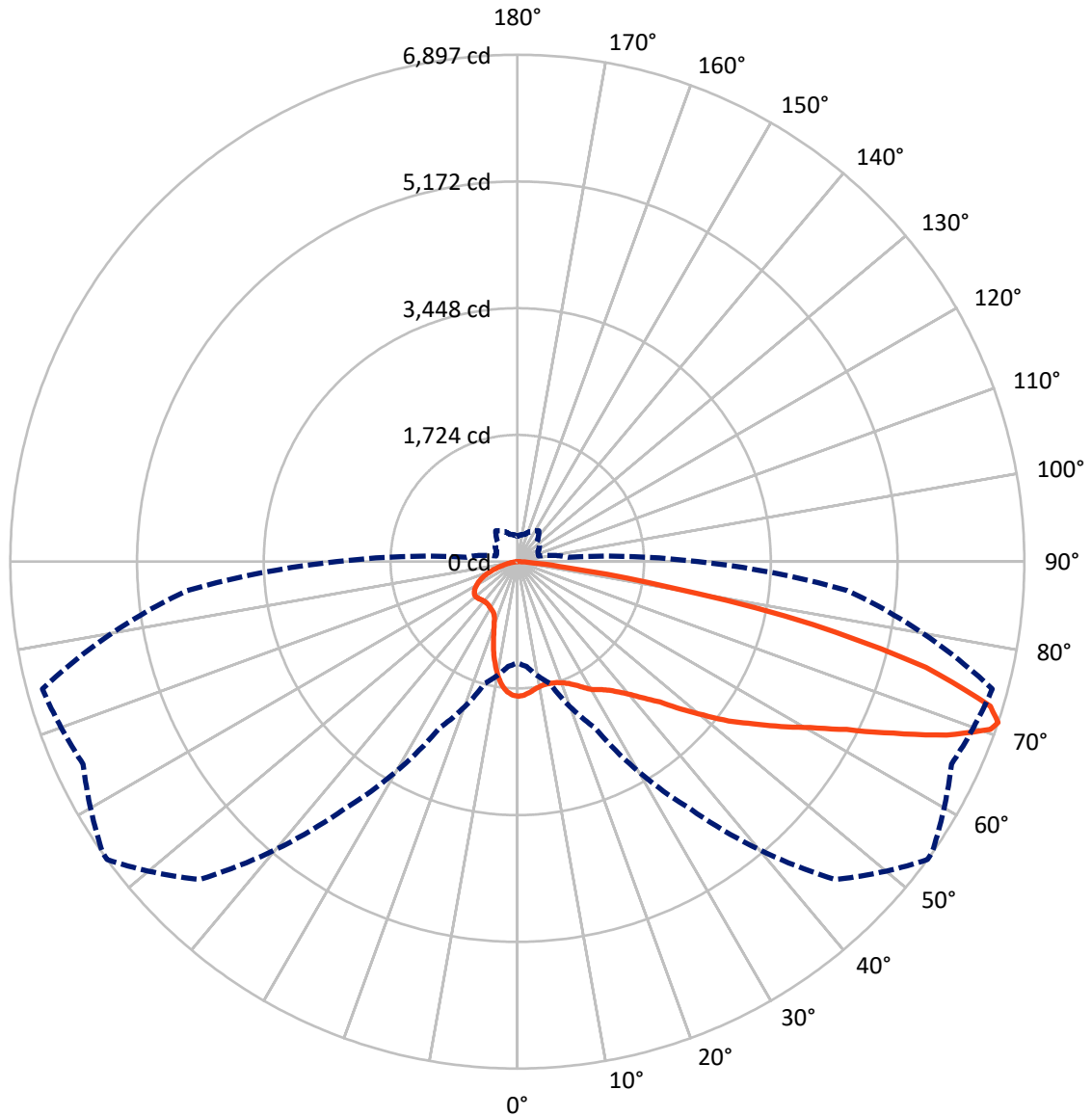
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1854.2 | 0.0 | 1854.2 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 8415.8 | 0.0 | 8415.8 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 10270.0 | 0.0 | 10270.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 163.3 | 1.6 |
| 10°-20° | 431.2 | 4.2 |
| 20°-30° | 717.9 | 7.0 |
| 30°-40° | 1061.5 | 10.3 |
| 40°-50° | 1495.2 | 14.6 |
| 50°-60° | 2002.2 | 19.5 |
| 60°-70° | 2523.6 | 24.6 |
| 70°-80° | 1723.6 | 16.8 |
| 80°-90° | 151.6 | 1.5 |
| 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° | 10270.0 | 100.0 |
| 0°-180° | 10270.0 | 100.0 |

Coefficient of Utilization



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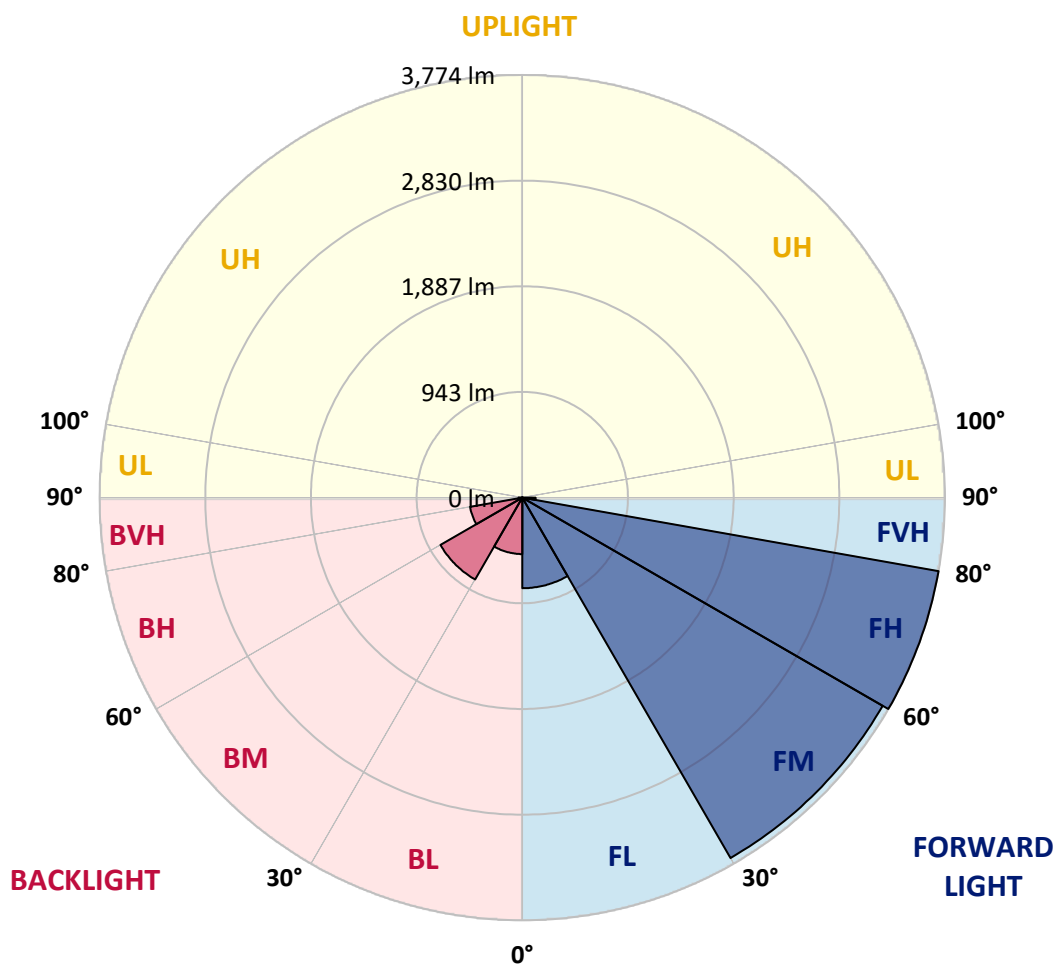
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 808.4 | 7.9 | | | |
| FM | (30°-60°) | 3715.3 | 36.2 | | | |
| FH | (60°-80°) | 3773.6 | 36.7 | | | G2/5000 |
| FVH | (80°-90°) | 118.5 | 1.2 | | | G2/225 |
| BL | (0°-30°) | 503.9 | 4.9 | B2/1000 | | |
| BM | (30°-60°) | 843.6 | 8.2 | B1/1000 | | |
| BH | (60°-80°) | 473.6 | 4.6 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 33.1 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1832.3 | 1832.3 | 1832.3 | 1832.3 | 1832.3 | 1832.3 | 1832.3 | 1832.3 | 1832.3 | 1832.3 | 1832.3 |
| 2.5° | 1770.2 | 1778.5 | 1780.7 | 1786.3 | 1797.9 | 1807.4 | 1816.8 | 1815.7 | 1829.0 | 1834.5 | 1839.5 |
| 5° | 1691.4 | 1693.6 | 1702.0 | 1713.1 | 1733.6 | 1759.6 | 1785.2 | 1785.7 | 1818.5 | 1844.5 | 1857.3 |
| 7.5° | 1633.7 | 1640.9 | 1646.5 | 1658.1 | 1679.8 | 1708.1 | 1748.6 | 1751.9 | 1810.1 | 1861.7 | 1888.9 |
| 10° | 1596.0 | 1604.3 | 1610.4 | 1624.8 | 1646.5 | 1678.1 | 1721.9 | 1728.0 | 1804.0 | 1888.9 | 1936.6 |
| 12.5° | 1561.6 | 1569.9 | 1575.5 | 1594.3 | 1622.6 | 1661.5 | 1710.8 | 1718.0 | 1806.2 | 1920.5 | 1988.8 |
| 15° | 1582.7 | 1589.3 | 1587.1 | 1592.7 | 1611.5 | 1655.9 | 1715.3 | 1722.5 | 1814.6 | 1951.0 | 2040.3 |
| 17.5° | 1676.4 | 1682.0 | 1663.7 | 1642.6 | 1633.7 | 1666.5 | 1729.1 | 1736.9 | 1831.2 | 1982.7 | 2093.0 |
| 20° | 1814.6 | 1829.5 | 1789.6 | 1742.5 | 1699.7 | 1704.2 | 1758.0 | 1766.3 | 1854.5 | 2014.3 | 2146.9 |
| 22.5° | 1994.3 | 2005.4 | 1956.6 | 1878.9 | 1800.1 | 1759.6 | 1801.3 | 1806.2 | 1889.5 | 2055.3 | 2205.7 |
| 25° | 2205.7 | 2212.3 | 2144.6 | 2044.8 | 1931.1 | 1854.5 | 1860.6 | 1869.5 | 1947.2 | 2101.9 | 2257.8 |
| 27.5° | 2410.9 | 2432.0 | 2353.8 | 2231.7 | 2082.0 | 1954.4 | 1942.2 | 1947.7 | 2009.8 | 2128.0 | 2293.9 |
| 30° | 2654.5 | 2652.8 | 2570.1 | 2428.7 | 2236.7 | 2063.1 | 2019.3 | 2018.2 | 2043.7 | 2140.8 | 2319.9 |
| 32.5° | 2848.6 | 2871.4 | 2790.4 | 2636.1 | 2413.7 | 2175.7 | 2072.5 | 2070.3 | 2069.8 | 2162.9 | 2358.8 |
| 35° | 3069.4 | 3072.7 | 2998.4 | 2843.1 | 2605.1 | 2317.2 | 2146.9 | 2135.8 | 2123.0 | 2210.7 | 2411.5 |
| 37.5° | 3266.9 | 3282.4 | 3214.2 | 3040.0 | 2793.1 | 2464.2 | 2248.9 | 2241.7 | 2202.9 | 2293.3 | 2495.8 |
| 40° | 3421.1 | 3432.8 | 3391.7 | 3225.8 | 2978.4 | 2622.8 | 2378.7 | 2365.4 | 2318.3 | 2428.7 | 2608.4 |
| 42.5° | 3471.6 | 3495.4 | 3511.5 | 3430.0 | 3191.4 | 2810.9 | 2538.5 | 2521.9 | 2485.8 | 2633.9 | 2738.2 |
| 45° | 3475.5 | 3513.2 | 3598.1 | 3602.0 | 3405.6 | 3036.1 | 2724.9 | 2713.3 | 2710.5 | 2896.9 | 2920.7 |
| 47.5° | 3446.1 | 3484.3 | 3626.9 | 3704.0 | 3596.4 | 3263.6 | 2994.0 | 2975.6 | 2977.3 | 3222.0 | 3125.4 |
| 50° | 3375.1 | 3420.6 | 3593.6 | 3769.5 | 3745.6 | 3499.9 | 3278.0 | 3271.9 | 3306.3 | 3593.1 | 3337.9 |
| 52.5° | 3241.4 | 3296.3 | 3559.2 | 3810.5 | 3856.6 | 3703.5 | 3600.8 | 3583.6 | 3670.7 | 3995.8 | 3570.3 |
| 55° | 2871.4 | 2954.0 | 3433.3 | 3833.3 | 3962.0 | 3898.2 | 3891.5 | 3922.6 | 4038.0 | 4435.2 | 3826.1 |
| 57.5° | 2678.3 | 2740.4 | 3159.8 | 3837.2 | 4095.1 | 4124.5 | 4231.0 | 4238.8 | 4440.7 | 4901.7 | 4115.1 |
| 60° | 2572.9 | 2627.8 | 3010.0 | 3811.6 | 4281.0 | 4404.7 | 4578.3 | 4606.0 | 4834.0 | 5407.1 | 4414.7 |
| 62.5° | 2480.8 | 2528.0 | 2920.2 | 3723.4 | 4490.7 | 4820.2 | 5028.2 | 5041.5 | 5280.6 | 5965.2 | 4710.3 |
| 65° | 2263.9 | 2317.7 | 2739.3 | 3635.2 | 4671.5 | 5339.4 | 5625.1 | 5609.6 | 5756.0 | 6446.7 | 4895.6 |
| 67.5° | 1971.6 | 2039.8 | 2401.5 | 3330.7 | 4760.8 | 5906.9 | 6297.5 | 6278.0 | 6225.3 | 6762.3 | 4948.9 |
| 70° | 1598.2 | 1634.8 | 1969.3 | 2804.2 | 4404.1 | 6204.8 | 6828.3 | 6807.8 | 6516.0 | 6803.9 | 4697.0 |
| 71° | 1375.2 | 1432.3 | 1714.7 | 2490.8 | 4107.3 | 6113.8 | 6896.6 | 6891.0 | 6516.6 | 6689.1 | 4507.3 |
| 72.5° | 1073.4 | 1108.4 | 1358.0 | 1930.0 | 3491.0 | 5596.8 | 6727.9 | 6749.0 | 6375.1 | 6370.1 | 4116.2 |
| 75° | 679.0 | 694.5 | 852.1 | 1136.1 | 1915.5 | 3963.6 | 5743.3 | 5800.4 | 5660.6 | 5214.0 | 3061.1 |
| 77.5° | 394.4 | 414.4 | 510.4 | 669.6 | 827.7 | 2151.3 | 4109.5 | 4171.7 | 3933.1 | 2870.8 | 1253.2 |
| 80° | 229.7 | 251.9 | 336.2 | 388.9 | 380.0 | 798.3 | 2092.5 | 2198.5 | 1703.1 | 725.1 | 351.7 |
| 82.5° | 127.6 | 142.6 | 236.3 | 236.9 | 202.5 | 260.7 | 658.5 | 689.0 | 486.0 | 292.4 | 143.7 |
| 85° | 92.6 | 104.8 | 152.6 | 138.1 | 97.1 | 112.1 | 229.1 | 240.2 | 196.4 | 123.2 | 46.6 |
| 87.5° | 32.7 | 46.6 | 83.8 | 66.6 | 26.6 | 23.3 | 66.0 | 53.8 | 49.9 | 34.4 | 10.5 |
| 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° | 1832.3 | 1832.3 | 1832.3 | 1832.3 | 1832.3 | 1832.3 | 1832.3 | 1832.3 | 1832.3 | 1832.3 | 1832.3 |
| 2.5° | 1842.3 | 1843.4 | 1837.9 | 1827.9 | 1817.9 | 1805.1 | 1790.7 | 1779.6 | 1774.6 | 1774.1 | 1773.5 |
| 5° | 1862.3 | 1865.0 | 1844.0 | 1812.9 | 1778.5 | 1736.3 | 1700.3 | 1659.2 | 1648.7 | 1632.1 | 1637.1 |
| 7.5° | 1894.5 | 1892.8 | 1851.2 | 1785.2 | 1704.7 | 1615.4 | 1540.0 | 1496.1 | 1450.7 | 1437.9 | 1438.5 |
| 10° | 1940.5 | 1930.0 | 1851.2 | 1728.6 | 1594.3 | 1461.8 | 1356.3 | 1289.8 | 1253.7 | 1223.8 | 1212.7 |
| 12.5° | 1989.3 | 1962.7 | 1833.4 | 1649.3 | 1452.3 | 1289.8 | 1176.6 | 1086.7 | 1063.4 | 1039.0 | 1039.6 |
| 15° | 2035.9 | 1991.5 | 1798.5 | 1537.8 | 1299.2 | 1106.2 | 996.3 | 942.5 | 935.3 | 938.1 | 937.5 |
| 17.5° | 2078.1 | 2012.1 | 1745.2 | 1413.5 | 1120.6 | 948.6 | 890.4 | 894.2 | 913.7 | 927.5 | 929.2 |
| 20° | 2120.8 | 2024.3 | 1665.9 | 1247.1 | 951.9 | 853.2 | 855.4 | 885.9 | 915.3 | 934.2 | 937.0 |
| 22.5° | 2161.3 | 2029.8 | 1572.7 | 1086.2 | 829.9 | 812.7 | 845.4 | 878.2 | 907.0 | 925.3 | 928.1 |
| 25° | 2187.9 | 2017.0 | 1440.7 | 918.1 | 770.0 | 798.3 | 832.7 | 860.4 | 884.8 | 903.7 | 908.1 |
| 27.5° | 2195.1 | 1976.0 | 1277.0 | 782.2 | 742.2 | 784.4 | 816.0 | 836.6 | 855.4 | 873.2 | 876.5 |
| 30° | 2191.2 | 1915.5 | 1097.3 | 702.3 | 726.2 | 768.3 | 792.7 | 807.7 | 830.5 | 844.3 | 847.1 |
| 32.5° | 2185.1 | 1845.1 | 909.8 | 659.6 | 712.8 | 753.3 | 767.8 | 781.1 | 780.5 | 775.0 | 778.9 |
| 35° | 2187.4 | 1760.8 | 757.8 | 634.1 | 701.2 | 742.2 | 754.5 | 737.8 | 690.1 | 687.9 | 685.7 |
| 37.5° | 2199.0 | 1677.5 | 647.4 | 616.3 | 695.1 | 740.6 | 747.2 | 670.7 | 628.5 | 609.1 | 604.1 |
| 40° | 2229.0 | 1580.5 | 574.7 | 603.0 | 694.5 | 753.3 | 714.5 | 636.8 | 555.9 | 518.1 | 515.4 |
| 42.5° | 2268.9 | 1485.1 | 530.3 | 594.7 | 701.2 | 772.8 | 701.2 | 589.1 | 500.9 | 478.7 | 475.4 |
| 45° | 2328.3 | 1375.8 | 505.9 | 590.8 | 711.2 | 780.0 | 696.8 | 554.2 | 478.7 | 461.0 | 461.0 |
| 47.5° | 2395.4 | 1271.5 | 492.6 | 588.0 | 723.9 | 775.0 | 657.4 | 543.1 | 468.2 | 470.4 | 481.0 |
| 50° | 2462.0 | 1181.1 | 482.6 | 581.9 | 735.0 | 772.2 | 641.3 | 542.5 | 471.0 | 499.3 | 518.1 |
| 52.5° | 2539.1 | 1117.3 | 470.4 | 571.9 | 735.0 | 754.5 | 636.3 | 553.6 | 478.7 | 487.1 | 495.4 |
| 55° | 2632.3 | 1097.3 | 454.9 | 550.3 | 721.7 | 710.1 | 633.5 | 569.7 | 484.3 | 464.9 | 468.2 |
| 57.5° | 2755.4 | 1129.5 | 439.9 | 523.1 | 691.2 | 664.0 | 632.4 | 574.2 | 471.5 | 455.4 | 452.1 |
| 60° | 2898.5 | 1193.3 | 435.5 | 495.4 | 649.6 | 624.6 | 625.8 | 561.4 | 453.8 | 437.1 | 439.9 |
| 62.5° | 2998.9 | 1231.5 | 432.7 | 474.3 | 604.1 | 581.4 | 609.7 | 545.9 | 446.0 | 431.6 | 434.4 |
| 65° | 2998.9 | 1184.9 | 407.2 | 442.1 | 545.3 | 529.2 | 590.2 | 526.5 | 436.0 | 419.4 | 416.6 |
| 67.5° | 2885.2 | 1049.0 | 368.4 | 393.9 | 480.4 | 469.9 | 563.1 | 503.2 | 421.1 | 408.3 | 401.6 |
| 70° | 2589.0 | 795.5 | 319.5 | 337.3 | 398.3 | 407.7 | 528.1 | 471.5 | 396.1 | 380.6 | 370.6 |
| 71° | 2458.6 | 692.9 | 299.0 | 308.4 | 366.7 | 380.6 | 511.5 | 458.2 | 385.0 | 362.8 | 345.1 |
| 72.5° | 2207.3 | 583.6 | 267.9 | 271.8 | 313.4 | 338.4 | 476.5 | 432.7 | 363.9 | 332.3 | 312.3 |
| 75° | 1677.0 | 426.0 | 215.8 | 213.6 | 231.9 | 268.5 | 403.3 | 385.5 | 319.0 | 276.3 | 264.6 |
| 77.5° | 724.5 | 231.9 | 161.4 | 163.1 | 157.5 | 203.6 | 317.3 | 331.2 | 273.5 | 224.7 | 214.1 |
| 80° | 219.7 | 133.7 | 110.4 | 112.6 | 105.4 | 136.5 | 223.6 | 259.6 | 219.7 | 174.7 | 160.3 |
| 82.5° | 112.6 | 79.9 | 75.4 | 74.3 | 67.1 | 77.1 | 135.4 | 177.5 | 157.0 | 109.3 | 96.5 |
| 85° | 48.8 | 42.7 | 37.2 | 36.1 | 31.6 | 27.7 | 48.3 | 88.8 | 83.2 | 61.0 | 58.2 |
| 87.5° | 12.2 | 11.1 | 7.2 | 6.7 | 3.9 | 0.6 | 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)