

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: P649892

Luminaire Tested: **GLAN-SA4A-835-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P649892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4A-835-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14175.4 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

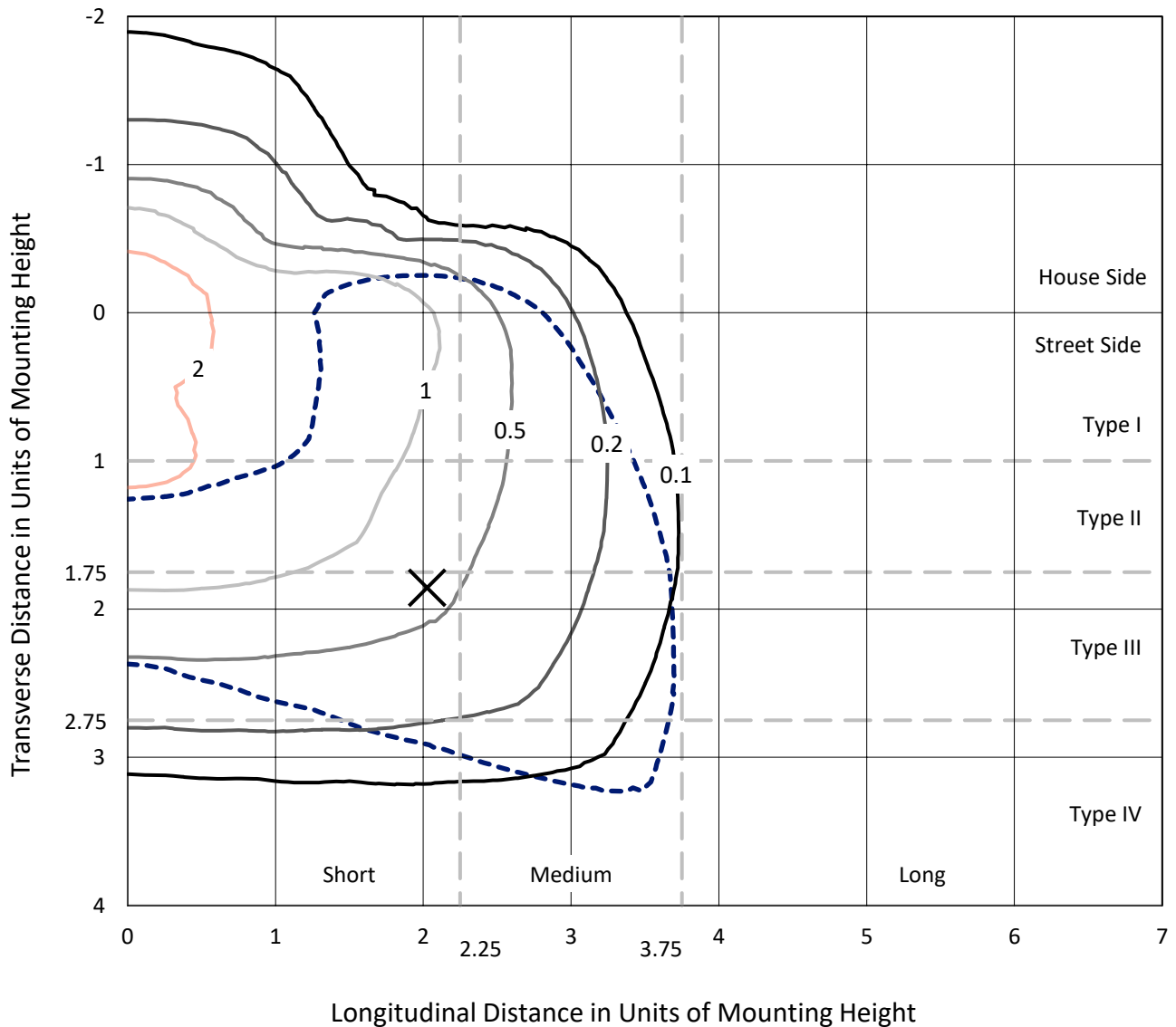
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

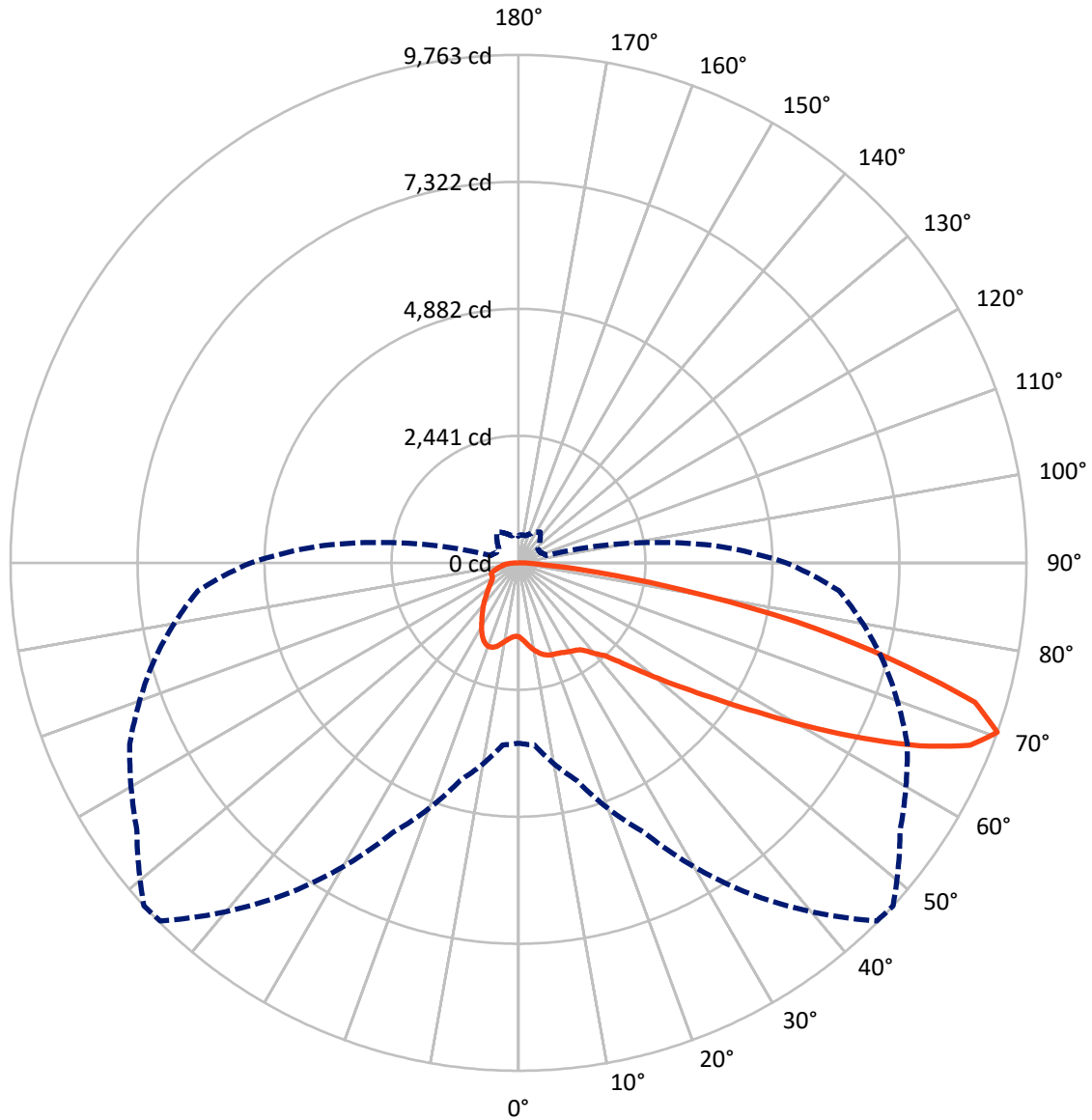
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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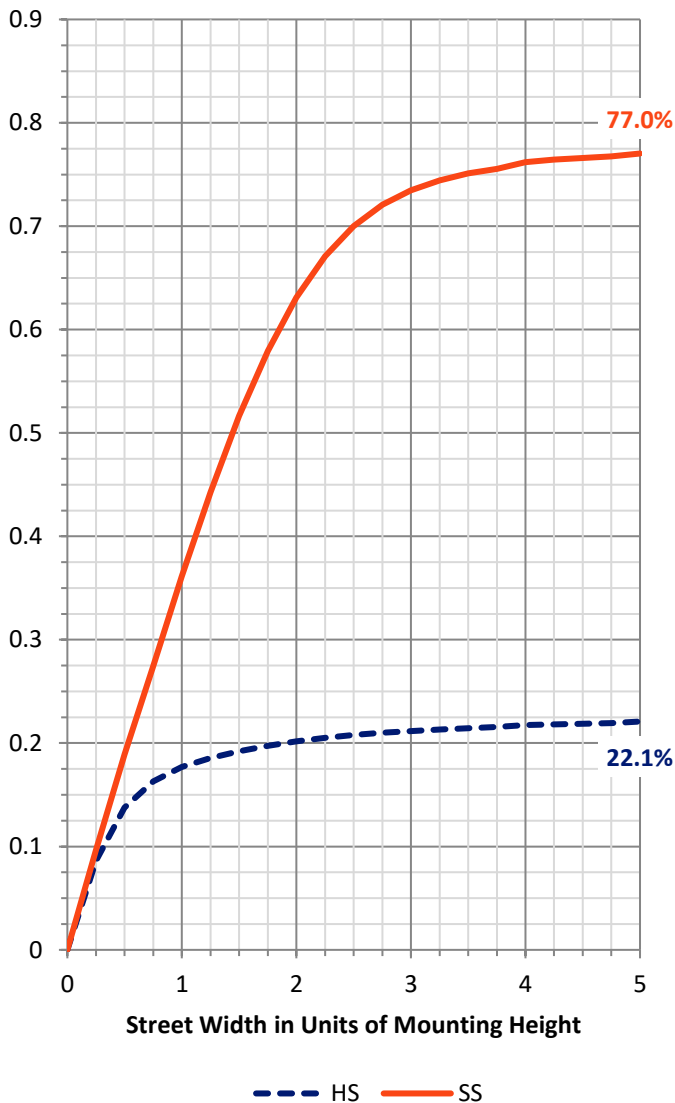
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3209.6 | 0.0 | 3209.6 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 10965.8 | 0.0 | 10965.8 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 14175.4 | 0.0 | 14175.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 146.7 | 1.0 |
| 10°-20° | 490.4 | 3.5 |
| 20°-30° | 815.5 | 5.8 |
| 30°-40° | 1155.9 | 8.2 |
| 40°-50° | 1706.3 | 12.0 |
| 50°-60° | 2955.4 | 20.8 |
| 60°-70° | 4174.5 | 29.4 |
| 70°-80° | 2399.7 | 16.9 |
| 80°-90° | 331.1 | 2.3 |
| 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° | 14175.4 | 100.0 |
| 0°-180° | 14175.4 | 100.0 |

Coefficient of Utilization

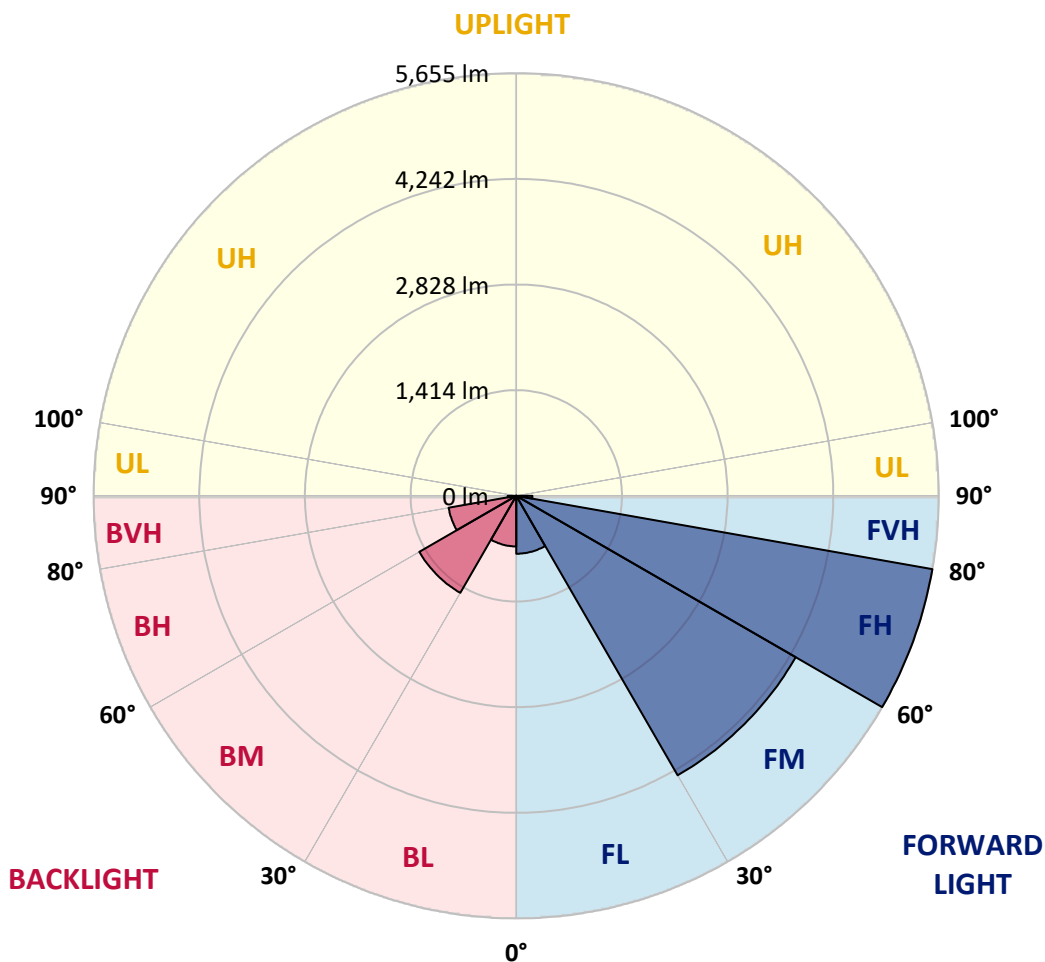


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 775.2 | 5.5 | | | |
| FM (30°-60°) | 4319.0 | 30.5 | | | |
| FH (60°-80°) | 5655.4 | 39.9 | | | G3/7500 |
| FVH (80°-90°) | 216.3 | 1.5 | | | G2/225 |
| BL (0°-30°) | 677.4 | 4.8 | B2/1000 | | |
| BM (30°-60°) | 1498.5 | 10.6 | B2/2500 | | |
| BH (60°-80°) | 918.9 | 6.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 114.8 | 0.8 | | | G2/225 |
| 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° | 35° | 45° | 47.5° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1423.0 | 1423.0 | 1423.0 | 1423.0 | 1423.0 | 1423.0 | 1423.0 | 1423.0 | 1423.0 | 1423.0 | 1423.0 |
| 2.5° | 1514.8 | 1509.5 | 1508.8 | 1497.4 | 1491.3 | 1479.9 | 1475.4 | 1464.8 | 1451.8 | 1439.0 | 1426.9 |
| 5° | 1633.9 | 1633.9 | 1628.6 | 1612.7 | 1587.6 | 1561.9 | 1550.5 | 1530.0 | 1493.6 | 1464.0 | 1439.0 |
| 7.5° | 1756.0 | 1757.6 | 1747.0 | 1723.5 | 1687.8 | 1646.0 | 1635.5 | 1605.1 | 1553.6 | 1510.3 | 1473.1 |
| 10° | 1861.5 | 1861.5 | 1847.1 | 1815.2 | 1770.4 | 1724.9 | 1714.3 | 1680.2 | 1622.5 | 1568.7 | 1520.1 |
| 12.5° | 1941.9 | 1941.9 | 1922.9 | 1881.2 | 1832.7 | 1791.7 | 1779.5 | 1747.0 | 1693.1 | 1633.2 | 1571.7 |
| 15° | 1994.2 | 1990.5 | 1969.2 | 1922.2 | 1875.1 | 1839.5 | 1831.1 | 1803.8 | 1754.5 | 1693.9 | 1624.8 |
| 17.5° | 1996.5 | 1995.0 | 1974.5 | 1935.0 | 1894.1 | 1869.8 | 1864.6 | 1846.3 | 1807.6 | 1750.0 | 1677.2 |
| 20° | 1952.5 | 1955.5 | 1941.9 | 1913.8 | 1894.1 | 1883.5 | 1881.2 | 1875.1 | 1847.8 | 1794.0 | 1721.2 |
| 22.5° | 1905.5 | 1910.8 | 1897.9 | 1882.7 | 1881.2 | 1891.8 | 1893.4 | 1894.9 | 1877.4 | 1825.1 | 1758.3 |
| 25° | 1894.1 | 1897.9 | 1885.0 | 1871.4 | 1879.7 | 1907.8 | 1913.8 | 1919.9 | 1906.2 | 1862.2 | 1802.3 |
| 27.5° | 1951.8 | 1948.7 | 1923.7 | 1894.1 | 1899.4 | 1937.4 | 1945.7 | 1952.5 | 1945.7 | 1907.8 | 1857.0 |
| 30° | 2114.8 | 2105.0 | 2054.9 | 1968.5 | 1941.1 | 1967.7 | 1976.1 | 1995.0 | 1995.0 | 1966.9 | 1916.1 |
| 32.5° | 2387.9 | 2369.0 | 2277.2 | 2107.3 | 2012.5 | 1996.5 | 2004.9 | 2036.0 | 2051.9 | 2029.8 | 1974.5 |
| 35° | 2719.4 | 2699.7 | 2568.5 | 2340.2 | 2142.9 | 2054.1 | 2051.9 | 2086.8 | 2129.3 | 2080.0 | 2007.9 |
| 37.5° | 3052.4 | 3031.9 | 2874.2 | 2617.7 | 2333.3 | 2175.5 | 2161.9 | 2174.0 | 2192.2 | 2102.0 | 2054.1 |
| 40° | 3385.4 | 3361.1 | 3223.1 | 2928.0 | 2566.2 | 2336.3 | 2300.7 | 2246.0 | 2238.5 | 2174.0 | 2143.7 |
| 42.5° | 3715.4 | 3693.4 | 3623.6 | 3276.2 | 2845.3 | 2493.4 | 2438.7 | 2344.7 | 2373.5 | 2334.8 | 2308.3 |
| 45° | 4048.4 | 4049.9 | 3975.6 | 3666.9 | 3182.1 | 2783.1 | 2709.6 | 2562.4 | 2630.6 | 2616.2 | 2631.4 |
| 47.5° | 4343.5 | 4339.7 | 4313.2 | 4046.2 | 3600.1 | 3156.4 | 3061.5 | 2890.8 | 3007.7 | 3060.7 | 3176.8 |
| 50° | 4629.4 | 4627.1 | 4628.7 | 4476.2 | 4085.5 | 3600.1 | 3495.4 | 3316.4 | 3579.6 | 3764.0 | 3971.8 |
| 52.5° | 5039.1 | 5051.9 | 4960.1 | 4920.0 | 4675.7 | 4124.2 | 4009.0 | 3823.9 | 4255.4 | 4546.0 | 4951.8 |
| 55° | 5450.2 | 5439.6 | 5367.5 | 5409.2 | 5293.2 | 4744.7 | 4624.2 | 4477.0 | 5008.0 | 5325.8 | 5935.7 |
| 57.5° | 5692.2 | 5695.9 | 5769.5 | 5973.6 | 6055.5 | 5518.4 | 5409.2 | 5295.4 | 5853.7 | 6079.1 | 6811.0 |
| 60° | 5909.8 | 5927.3 | 6139.0 | 6524.3 | 6746.6 | 6468.9 | 6371.8 | 6261.1 | 6629.7 | 6719.2 | 7571.1 |
| 62.5° | 5978.1 | 6032.0 | 6401.4 | 6977.9 | 7420.2 | 7541.5 | 7420.9 | 7176.7 | 7368.6 | 7333.7 | 8086.2 |
| 65° | 5637.5 | 5711.1 | 6373.4 | 7147.9 | 8021.7 | 8559.5 | 8482.9 | 8029.3 | 7998.2 | 7788.0 | 8170.4 |
| 67.5° | 4740.9 | 4814.5 | 5664.8 | 6791.4 | 8270.5 | 9440.9 | 9364.3 | 8651.3 | 8380.4 | 7830.5 | 7533.2 |
| 70° | 3468.8 | 3515.1 | 4328.3 | 5717.9 | 7770.6 | 9736.8 | 9763.3 | 8954.7 | 8244.0 | 7253.2 | 6185.2 |
| 72.5° | 1998.8 | 2101.2 | 2670.9 | 4022.6 | 6348.3 | 8988.8 | 9173.2 | 8323.6 | 7380.7 | 6050.9 | 4324.5 |
| 75° | 859.4 | 861.7 | 1234.9 | 2218.8 | 4299.5 | 7225.2 | 7403.5 | 6899.8 | 5796.1 | 4184.2 | 2309.1 |
| 77.5° | 408.9 | 416.5 | 543.1 | 990.7 | 2366.7 | 4992.0 | 5472.9 | 4874.5 | 3707.0 | 2010.2 | 872.3 |
| 80° | 265.5 | 270.8 | 332.2 | 491.6 | 1160.6 | 2894.6 | 3229.9 | 2812.0 | 1635.5 | 718.3 | 376.2 |
| 82.5° | 160.8 | 162.3 | 222.3 | 300.4 | 638.7 | 1310.7 | 1545.2 | 1220.5 | 697.9 | 430.1 | 221.5 |
| 85° | 97.9 | 98.6 | 135.0 | 185.9 | 387.6 | 452.9 | 465.0 | 461.2 | 409.6 | 281.4 | 118.3 |
| 87.5° | 47.1 | 48.5 | 69.8 | 88.0 | 152.5 | 140.3 | 132.7 | 154.0 | 193.4 | 151.7 | 50.8 |
| 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° | 1423.0 | 1423.0 | 1423.0 | 1423.0 | 1423.0 | 1423.0 | 1423.0 | 1423.0 | 1423.0 | 1423.0 | 1423.0 |
| 2.5° | 1421.5 | 1419.3 | 1413.9 | 1411.7 | 1410.2 | 1410.9 | 1410.2 | 1410.2 | 1410.9 | 1410.9 | 1410.9 |
| 5° | 1428.3 | 1424.6 | 1416.2 | 1416.2 | 1420.8 | 1431.4 | 1441.3 | 1448.9 | 1457.2 | 1456.4 | 1456.4 |
| 7.5° | 1457.9 | 1451.1 | 1441.3 | 1444.2 | 1455.7 | 1472.4 | 1489.8 | 1506.5 | 1523.2 | 1524.7 | 1524.0 |
| 10° | 1501.2 | 1494.4 | 1483.7 | 1487.5 | 1505.7 | 1530.8 | 1552.8 | 1577.0 | 1595.2 | 1600.5 | 1599.0 |
| 12.5° | 1550.5 | 1536.8 | 1527.7 | 1538.4 | 1567.2 | 1600.5 | 1621.7 | 1640.0 | 1652.9 | 1660.5 | 1657.5 |
| 15° | 1600.5 | 1587.6 | 1577.0 | 1599.0 | 1633.9 | 1665.0 | 1675.6 | 1678.7 | 1680.9 | 1688.5 | 1687.1 |
| 17.5° | 1649.1 | 1631.6 | 1627.9 | 1656.7 | 1690.0 | 1703.7 | 1697.6 | 1684.8 | 1674.9 | 1680.9 | 1680.2 |
| 20° | 1692.3 | 1678.7 | 1677.2 | 1706.0 | 1718.8 | 1706.0 | 1680.2 | 1657.5 | 1640.0 | 1641.5 | 1640.8 |
| 22.5° | 1733.3 | 1722.7 | 1724.2 | 1736.3 | 1715.9 | 1671.9 | 1629.3 | 1598.3 | 1579.3 | 1583.1 | 1585.3 |
| 25° | 1778.8 | 1768.2 | 1772.0 | 1752.3 | 1684.8 | 1608.1 | 1546.7 | 1520.1 | 1512.5 | 1520.1 | 1525.4 |
| 27.5° | 1837.9 | 1831.1 | 1828.9 | 1753.0 | 1629.3 | 1514.1 | 1444.2 | 1434.5 | 1441.3 | 1457.9 | 1466.2 |
| 30° | 1901.7 | 1901.7 | 1889.5 | 1740.1 | 1553.6 | 1401.0 | 1340.3 | 1341.9 | 1365.4 | 1388.9 | 1397.3 |
| 32.5° | 1963.1 | 1976.1 | 1938.1 | 1705.2 | 1455.7 | 1291.1 | 1244.8 | 1246.3 | 1266.8 | 1295.6 | 1303.2 |
| 35° | 2014.0 | 2051.1 | 1979.8 | 1641.5 | 1340.3 | 1198.5 | 1163.6 | 1143.1 | 1143.9 | 1165.9 | 1172.0 |
| 37.5° | 2083.7 | 2152.8 | 2004.1 | 1546.7 | 1217.5 | 1119.6 | 1080.1 | 1044.5 | 1021.0 | 1011.9 | 1011.9 |
| 40° | 2205.1 | 2306.7 | 2010.2 | 1406.3 | 1101.4 | 1044.5 | 988.4 | 945.9 | 900.4 | 859.4 | 851.8 |
| 42.5° | 2410.7 | 2538.9 | 1998.1 | 1244.8 | 996.8 | 961.8 | 907.3 | 854.9 | 791.9 | 734.3 | 729.8 |
| 45° | 2774.8 | 2840.8 | 1965.4 | 1077.2 | 903.4 | 882.2 | 829.1 | 772.2 | 705.5 | 653.9 | 650.0 |
| 47.5° | 3358.1 | 3264.8 | 1922.2 | 928.5 | 818.5 | 812.4 | 771.4 | 705.5 | 638.7 | 603.1 | 599.2 |
| 50° | 4210.0 | 3932.3 | 1916.1 | 820.7 | 750.2 | 753.2 | 719.9 | 659.2 | 600.8 | 571.2 | 566.7 |
| 52.5° | 5235.5 | 4738.6 | 1956.3 | 744.9 | 690.3 | 701.6 | 685.0 | 628.8 | 577.2 | 552.2 | 547.7 |
| 55° | 6230.7 | 5463.9 | 1980.6 | 685.8 | 634.2 | 655.4 | 657.6 | 610.7 | 563.6 | 538.5 | 535.6 |
| 57.5° | 7038.6 | 6010.0 | 1872.9 | 631.9 | 585.6 | 618.3 | 634.9 | 600.0 | 556.8 | 537.8 | 534.8 |
| 60° | 7600.7 | 6267.9 | 1566.4 | 584.1 | 550.0 | 588.7 | 626.6 | 600.8 | 573.5 | 575.7 | 577.2 |
| 62.5° | 7779.7 | 6153.4 | 1175.0 | 548.4 | 525.7 | 578.8 | 640.2 | 631.9 | 603.8 | 621.2 | 624.3 |
| 65° | 7483.1 | 5680.0 | 851.8 | 520.4 | 504.4 | 585.6 | 681.2 | 654.7 | 593.2 | 606.1 | 606.1 |
| 67.5° | 6490.1 | 4893.4 | 663.0 | 494.5 | 480.1 | 598.5 | 722.2 | 652.3 | 568.1 | 583.3 | 569.7 |
| 70° | 5148.3 | 3785.2 | 552.2 | 465.7 | 454.4 | 579.5 | 725.9 | 628.8 | 538.5 | 541.6 | 515.8 |
| 72.5° | 3416.5 | 2488.8 | 474.9 | 438.5 | 414.9 | 521.1 | 694.8 | 598.5 | 509.7 | 492.3 | 466.5 |
| 75° | 1674.1 | 1241.0 | 414.2 | 404.3 | 363.3 | 453.6 | 652.3 | 569.7 | 478.6 | 451.3 | 436.9 |
| 77.5° | 648.6 | 528.0 | 353.4 | 361.0 | 316.3 | 399.7 | 596.3 | 528.7 | 437.7 | 400.5 | 389.2 |
| 80° | 314.8 | 299.7 | 289.8 | 301.1 | 260.2 | 340.6 | 544.7 | 493.1 | 399.7 | 358.8 | 342.1 |
| 82.5° | 195.7 | 185.1 | 222.3 | 234.4 | 200.3 | 311.0 | 516.5 | 462.8 | 352.0 | 297.4 | 283.7 |
| 85° | 99.4 | 106.2 | 148.7 | 160.0 | 143.4 | 247.3 | 425.6 | 347.4 | 254.1 | 210.9 | 212.4 |
| 87.5° | 37.9 | 50.8 | 78.1 | 84.2 | 76.6 | 130.4 | 234.4 | 202.6 | 163.1 | 110.7 | 102.4 |
| 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)