

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: P318997

Luminaire Tested: **GAN-SA3B-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3B-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15776 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

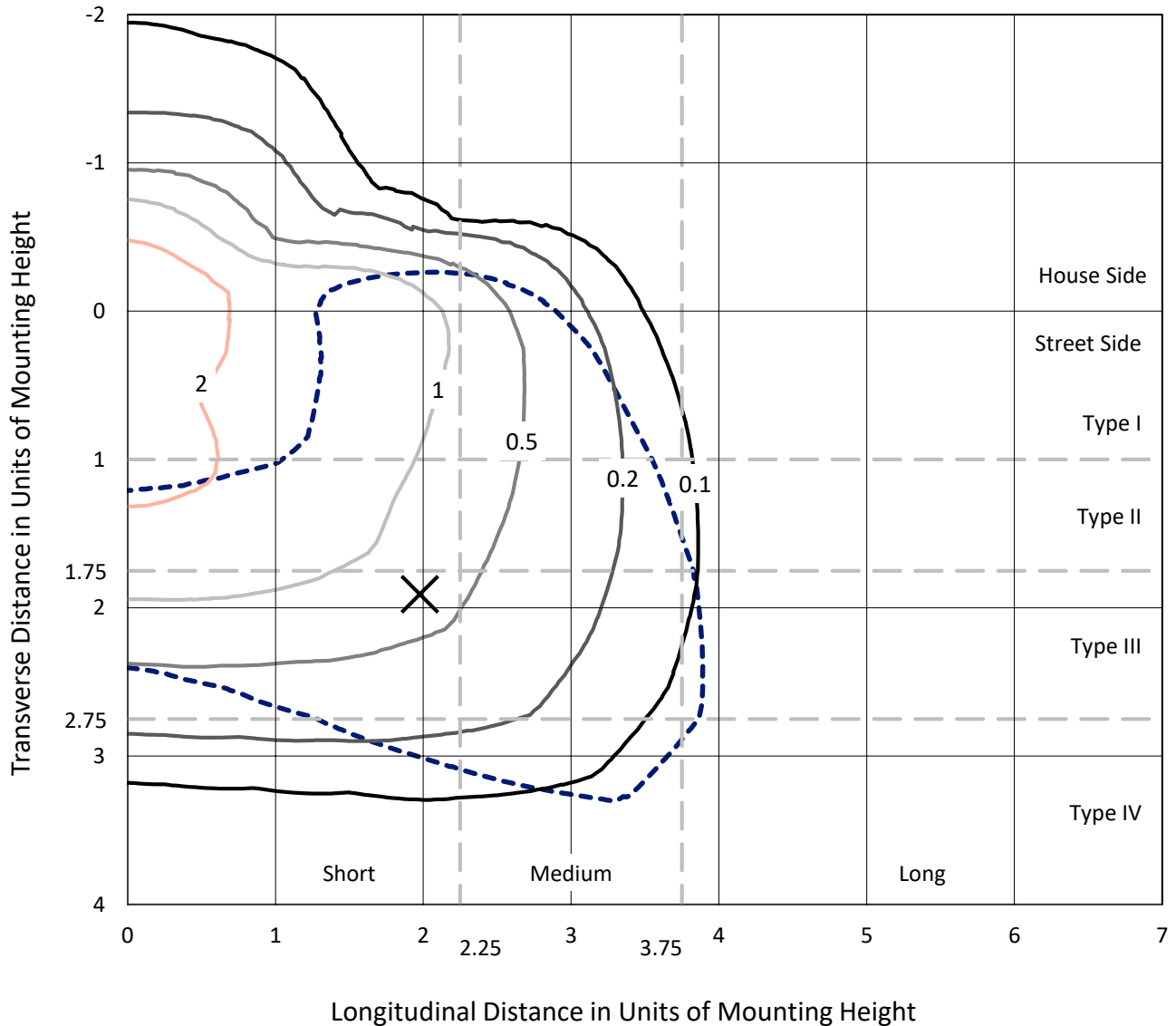
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

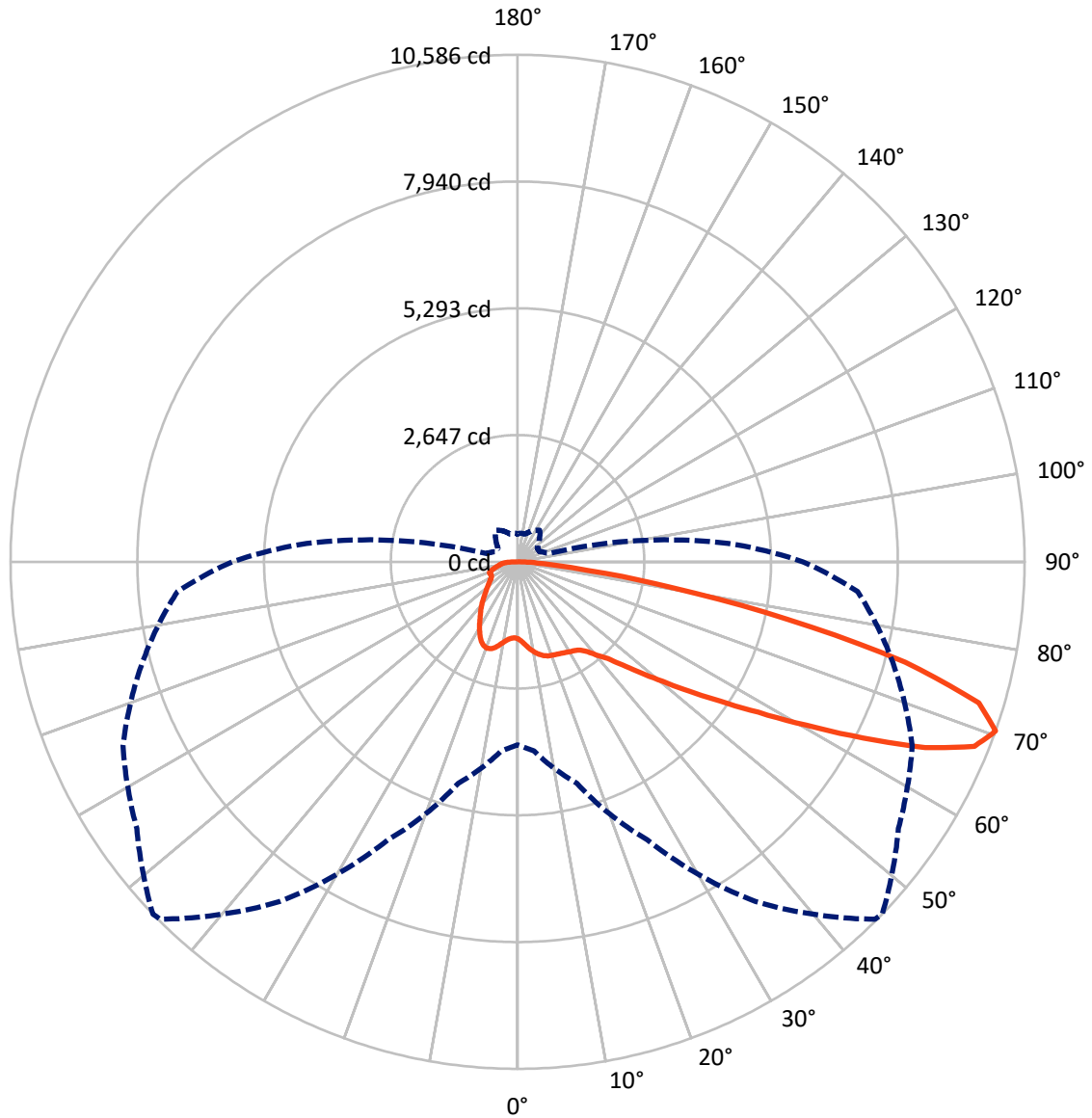
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3615.8 | 0.0 | 3615.8 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 12160.2 | 0.0 | 12160.2 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 15776.0 | 0.0 | 15776.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 163.8 | 1.0 |
| 10°-20° | 545.9 | 3.5 |
| 20°-30° | 910.2 | 5.8 |
| 30°-40° | 1291.7 | 8.2 |
| 40°-50° | 1900.0 | 12.0 |
| 50°-60° | 3217.6 | 20.4 |
| 60°-70° | 4567.3 | 29.0 |
| 70°-80° | 2774.7 | 17.6 |
| 80°-90° | 404.9 | 2.6 |
| 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° | 15776.0 | 100.0 |
| 0°-180° | 15776.0 | 100.0 |

Coefficient of Utilization



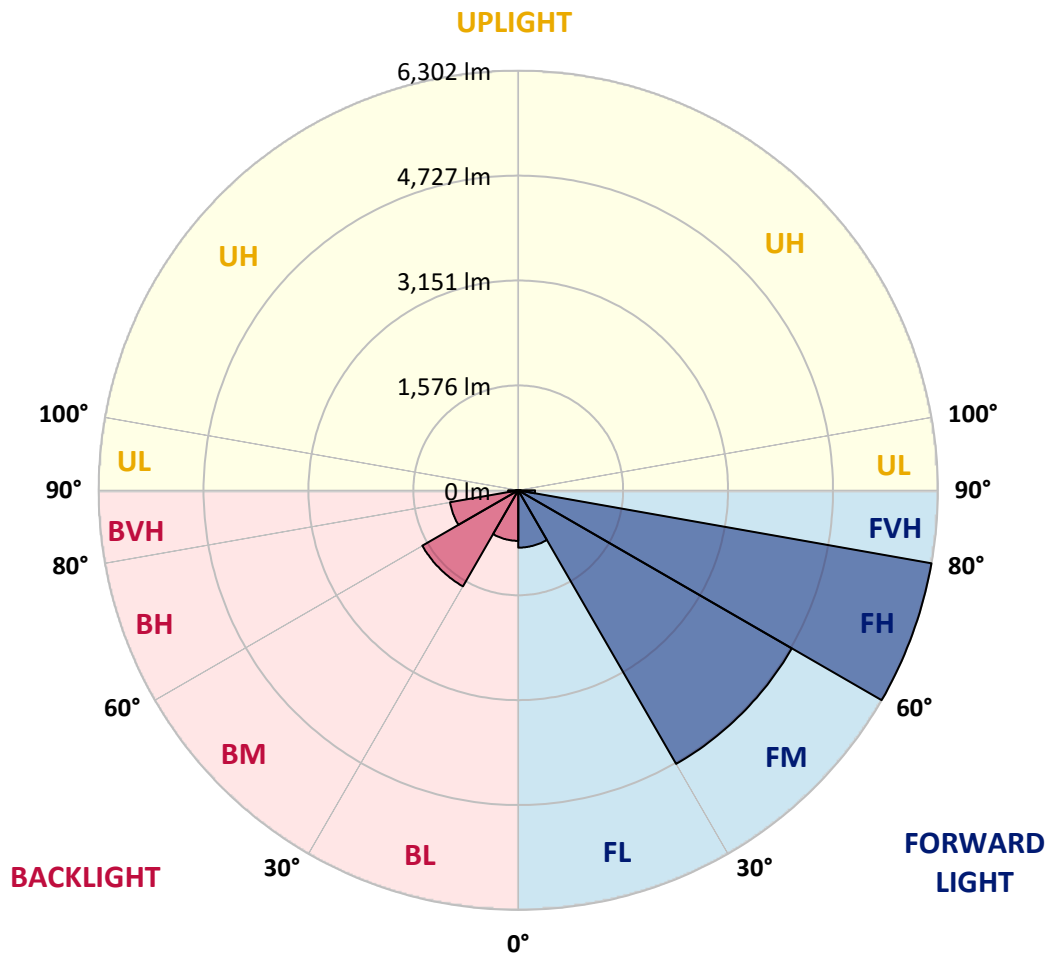
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 860.8 | 5.5 | | | |
| FM (30°-60°) | 4744.7 | 30.1 | | | |
| FH (60°-80°) | 6302.4 | 39.9 | | | G3/7500 |
| FVH (80°-90°) | 252.2 | 1.6 | | | G3/500 |
| BL (0°-30°) | 759.1 | 4.8 | B2/1000 | | |
| BM (30°-60°) | 1664.5 | 10.6 | B2/2500 | | |
| BH (60°-80°) | 1039.5 | 6.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 152.7 | 1.0 | | | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|
| 0° | 1607.3 | 1607.3 | 1607.3 | 1607.3 | 1607.3 | 1607.3 | 1607.3 | 1607.3 | 1607.3 | 1607.3 | 1607.3 |
| 2.5° | 1687.7 | 1688.8 | 1690.9 | 1685.6 | 1670.4 | 1666.1 | 1664.5 | 1648.8 | 1638.6 | 1623.5 | 1610.5 |
| 5° | 1822.7 | 1823.8 | 1820.5 | 1805.4 | 1771.9 | 1747.1 | 1744.9 | 1709.3 | 1676.9 | 1642.4 | 1616.4 |
| 7.5° | 1963.6 | 1965.2 | 1955.0 | 1926.3 | 1879.4 | 1836.2 | 1833.5 | 1784.9 | 1735.8 | 1683.4 | 1644.5 |
| 10° | 2088.3 | 2081.8 | 2065.1 | 2025.1 | 1969.5 | 1916.6 | 1914.5 | 1863.7 | 1807.0 | 1743.9 | 1692.0 |
| 12.5° | 2171.5 | 2166.1 | 2144.5 | 2095.9 | 2034.9 | 1986.3 | 1982.0 | 1935.0 | 1879.9 | 1810.8 | 1748.7 |
| 15° | 2217.3 | 2221.1 | 2192.0 | 2136.9 | 2077.5 | 2036.5 | 2032.7 | 1999.2 | 1950.1 | 1880.5 | 1809.2 |
| 17.5° | 2223.3 | 2226.5 | 2198.4 | 2143.9 | 2095.3 | 2067.3 | 2065.6 | 2043.5 | 2007.9 | 1940.9 | 1866.4 |
| 20° | 2188.7 | 2190.9 | 2167.7 | 2122.9 | 2091.0 | 2082.4 | 2081.8 | 2072.1 | 2045.7 | 1986.3 | 1913.9 |
| 22.5° | 2138.5 | 2140.1 | 2123.4 | 2091.0 | 2080.2 | 2093.7 | 2097.5 | 2093.7 | 2074.8 | 2019.2 | 1951.2 |
| 25° | 2126.1 | 2125.0 | 2107.7 | 2074.8 | 2084.0 | 2112.6 | 2117.5 | 2119.1 | 2106.1 | 2057.5 | 1998.7 |
| 27.5° | 2186.0 | 2182.3 | 2149.3 | 2096.4 | 2102.3 | 2136.9 | 2143.4 | 2159.0 | 2150.9 | 2108.3 | 2052.7 |
| 30° | 2359.3 | 2352.9 | 2285.4 | 2178.5 | 2149.3 | 2167.1 | 2175.2 | 2200.1 | 2201.7 | 2166.1 | 2124.5 |
| 32.5° | 2652.0 | 2643.9 | 2522.9 | 2331.8 | 2228.7 | 2197.9 | 2205.5 | 2242.7 | 2262.7 | 2235.2 | 2190.4 |
| 35° | 3021.8 | 3012.6 | 2853.9 | 2592.6 | 2361.5 | 2256.8 | 2262.2 | 2291.9 | 2331.8 | 2292.9 | 2233.5 |
| 37.5° | 3407.3 | 3385.1 | 3232.3 | 2899.2 | 2572.6 | 2382.6 | 2382.6 | 2386.3 | 2405.2 | 2324.2 | 2284.3 |
| 40° | 3790.6 | 3768.5 | 3630.2 | 3259.9 | 2845.8 | 2580.7 | 2568.3 | 2484.6 | 2469.5 | 2399.8 | 2386.3 |
| 42.5° | 4146.9 | 4140.5 | 4058.9 | 3667.5 | 3166.5 | 2775.6 | 2758.3 | 2616.3 | 2619.6 | 2576.4 | 2576.9 |
| 45° | 4525.9 | 4525.9 | 4459.5 | 4078.9 | 3540.1 | 3088.7 | 3071.5 | 2862.5 | 2894.9 | 2874.9 | 2923.0 |
| 47.5° | 4835.3 | 4845.0 | 4835.8 | 4507.6 | 3974.7 | 3486.6 | 3455.3 | 3203.7 | 3294.4 | 3363.0 | 3502.8 |
| 50° | 5151.1 | 5166.2 | 5167.9 | 4977.8 | 4500.0 | 3959.6 | 3924.0 | 3656.7 | 3859.2 | 4055.7 | 4330.5 |
| 52.5° | 5609.5 | 5643.5 | 5508.0 | 5447.0 | 5143.6 | 4521.1 | 4486.0 | 4239.3 | 4577.2 | 4853.1 | 5326.6 |
| 55° | 6034.4 | 6004.7 | 5908.1 | 5945.9 | 5832.5 | 5160.3 | 5133.9 | 4917.4 | 5377.3 | 5735.8 | 6350.8 |
| 57.5° | 6264.4 | 6262.2 | 6359.4 | 6521.4 | 6575.4 | 5948.6 | 5926.4 | 5715.9 | 6279.5 | 6548.9 | 7312.3 |
| 60° | 6534.3 | 6538.1 | 6778.9 | 7146.6 | 7369.0 | 6930.1 | 6920.4 | 6760.6 | 7155.8 | 7308.0 | 8066.6 |
| 62.5° | 6572.1 | 6640.2 | 7054.8 | 7687.6 | 8111.9 | 8076.8 | 8098.4 | 7701.6 | 7939.7 | 7913.8 | 8629.7 |
| 65° | 6137.5 | 6227.1 | 6977.6 | 7851.1 | 8850.5 | 9331.0 | 9351.0 | 8648.0 | 8557.9 | 8431.5 | 8831.1 |
| 67.5° | 5246.7 | 5379.5 | 6194.7 | 7495.4 | 9094.0 | 10258.0 | 10286.1 | 9381.7 | 9070.8 | 8607.0 | 8346.2 |
| 70° | 3818.1 | 3965.5 | 4786.2 | 6401.5 | 8659.9 | 10554.4 | 10586.2 | 9706.2 | 9090.2 | 8107.6 | 7125.0 |
| 72.5° | 2306.4 | 2422.0 | 3098.5 | 4712.7 | 7309.1 | 10014.5 | 10071.2 | 9294.8 | 8299.3 | 6867.5 | 5261.3 |
| 75° | 1012.8 | 1088.4 | 1498.2 | 2715.7 | 5232.7 | 8285.8 | 8356.5 | 7955.9 | 6743.3 | 4990.8 | 3109.8 |
| 77.5° | 431.4 | 453.0 | 614.4 | 1179.7 | 2958.1 | 5661.9 | 5759.1 | 5813.0 | 4575.1 | 2715.7 | 1314.1 |
| 80° | 268.9 | 277.5 | 347.7 | 534.0 | 1384.3 | 3180.0 | 3284.7 | 3420.2 | 2271.9 | 998.3 | 458.9 |
| 82.5° | 163.6 | 173.3 | 231.1 | 322.9 | 720.8 | 1441.5 | 1491.7 | 1587.3 | 881.6 | 431.4 | 237.6 |
| 85° | 98.3 | 105.3 | 141.5 | 204.1 | 410.3 | 566.9 | 566.3 | 626.3 | 415.2 | 277.5 | 125.3 |
| 87.5° | 47.0 | 52.4 | 75.6 | 105.8 | 206.8 | 212.7 | 199.2 | 225.7 | 252.1 | 181.9 | 63.2 |
| 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° | 1607.3 | 1607.3 | 1607.3 | 1607.3 | 1607.3 | 1607.3 | 1607.3 | 1607.3 | 1607.3 | 1607.3 | 1607.3 |
| 2.5° | 1606.2 | 1604.0 | 1597.0 | 1591.6 | 1590.5 | 1587.3 | 1584.6 | 1586.2 | 1588.4 | 1588.9 | 1588.9 |
| 5° | 1605.6 | 1599.7 | 1590.5 | 1586.7 | 1591.6 | 1598.1 | 1606.2 | 1617.0 | 1623.5 | 1628.3 | 1631.6 |
| 7.5° | 1631.6 | 1620.2 | 1610.0 | 1607.8 | 1617.5 | 1634.8 | 1653.2 | 1675.8 | 1691.5 | 1702.3 | 1704.4 |
| 10° | 1674.8 | 1660.7 | 1650.5 | 1652.6 | 1669.9 | 1694.7 | 1720.6 | 1749.8 | 1773.6 | 1788.1 | 1789.2 |
| 12.5° | 1724.4 | 1710.9 | 1701.2 | 1710.4 | 1739.0 | 1769.2 | 1796.2 | 1821.6 | 1843.2 | 1857.8 | 1857.8 |
| 15° | 1781.7 | 1771.9 | 1760.6 | 1781.7 | 1820.5 | 1847.5 | 1858.9 | 1871.3 | 1883.2 | 1893.9 | 1891.8 |
| 17.5° | 1836.7 | 1827.5 | 1821.6 | 1846.4 | 1886.9 | 1899.3 | 1891.8 | 1882.6 | 1882.6 | 1888.6 | 1889.6 |
| 20° | 1884.2 | 1876.1 | 1879.9 | 1904.2 | 1925.3 | 1912.3 | 1884.2 | 1855.1 | 1843.2 | 1846.4 | 1849.7 |
| 22.5° | 1925.8 | 1922.0 | 1933.4 | 1944.7 | 1929.6 | 1884.2 | 1832.4 | 1793.0 | 1778.4 | 1777.3 | 1778.4 |
| 25° | 1974.4 | 1973.9 | 1987.9 | 1967.4 | 1900.4 | 1816.7 | 1747.1 | 1708.8 | 1700.7 | 1707.1 | 1717.9 |
| 27.5° | 2034.9 | 2040.8 | 2047.8 | 1972.8 | 1841.0 | 1714.7 | 1644.0 | 1617.5 | 1625.6 | 1641.3 | 1651.5 |
| 30° | 2112.1 | 2128.3 | 2113.1 | 1959.3 | 1755.7 | 1598.1 | 1530.6 | 1523.0 | 1545.2 | 1567.3 | 1578.1 |
| 32.5° | 2187.1 | 2212.5 | 2175.8 | 1924.2 | 1645.6 | 1474.5 | 1422.1 | 1419.9 | 1446.9 | 1468.5 | 1483.6 |
| 35° | 2247.6 | 2297.8 | 2222.7 | 1854.5 | 1518.2 | 1360.5 | 1322.2 | 1307.6 | 1317.3 | 1342.7 | 1360.0 |
| 37.5° | 2326.4 | 2410.1 | 2255.1 | 1748.2 | 1380.0 | 1266.6 | 1221.8 | 1188.3 | 1179.7 | 1189.9 | 1198.6 |
| 40° | 2470.6 | 2581.2 | 2270.3 | 1599.7 | 1245.0 | 1172.7 | 1127.3 | 1078.2 | 1044.2 | 1019.3 | 1019.9 |
| 42.5° | 2706.0 | 2804.2 | 2260.5 | 1419.4 | 1120.3 | 1080.9 | 1029.6 | 972.9 | 917.8 | 861.7 | 857.4 |
| 45° | 3088.2 | 3135.7 | 2231.4 | 1228.3 | 1010.7 | 984.8 | 936.7 | 880.0 | 806.6 | 742.9 | 737.0 |
| 47.5° | 3699.9 | 3594.6 | 2186.0 | 1061.4 | 914.0 | 903.2 | 859.0 | 793.6 | 715.9 | 664.6 | 660.3 |
| 50° | 4534.0 | 4257.1 | 2163.9 | 928.6 | 828.7 | 832.0 | 795.8 | 726.7 | 653.3 | 615.5 | 611.2 |
| 52.5° | 5531.8 | 5028.6 | 2206.5 | 826.0 | 760.2 | 771.5 | 744.5 | 679.7 | 618.2 | 588.5 | 584.2 |
| 55° | 6566.7 | 5827.6 | 2252.4 | 751.5 | 695.4 | 717.5 | 708.3 | 654.9 | 599.3 | 571.7 | 568.0 |
| 57.5° | 7452.7 | 6424.2 | 2160.7 | 691.1 | 637.6 | 672.2 | 680.3 | 639.2 | 589.6 | 564.7 | 560.4 |
| 60° | 8010.4 | 6664.5 | 1919.9 | 634.4 | 591.7 | 636.0 | 664.1 | 634.9 | 593.3 | 591.2 | 587.9 |
| 62.5° | 8275.0 | 6643.4 | 1558.7 | 589.6 | 563.1 | 620.3 | 675.9 | 659.2 | 636.5 | 656.0 | 657.6 |
| 65° | 8156.2 | 6325.9 | 1160.8 | 559.9 | 542.6 | 626.3 | 711.6 | 705.1 | 649.0 | 668.4 | 671.1 |
| 67.5° | 7374.4 | 5568.5 | 859.5 | 534.0 | 519.9 | 643.0 | 776.4 | 720.2 | 624.7 | 638.7 | 630.1 |
| 70° | 5960.4 | 4414.7 | 663.0 | 504.8 | 496.7 | 640.9 | 805.5 | 711.0 | 598.2 | 601.4 | 578.2 |
| 72.5° | 4110.2 | 3010.5 | 539.4 | 477.8 | 463.2 | 584.2 | 785.0 | 688.4 | 576.1 | 551.2 | 520.5 |
| 75° | 2235.2 | 1615.9 | 458.4 | 449.7 | 404.4 | 512.9 | 747.2 | 672.2 | 556.1 | 523.2 | 505.9 |
| 77.5° | 879.5 | 670.5 | 397.9 | 411.4 | 353.6 | 453.0 | 705.1 | 641.4 | 528.6 | 485.4 | 476.7 |
| 80° | 359.0 | 342.3 | 329.9 | 355.8 | 304.0 | 396.3 | 654.4 | 605.2 | 495.6 | 450.3 | 433.0 |
| 82.5° | 203.5 | 212.7 | 256.4 | 280.7 | 246.7 | 365.0 | 630.1 | 576.1 | 456.2 | 403.3 | 382.8 |
| 85° | 104.2 | 124.7 | 178.7 | 201.4 | 181.4 | 310.4 | 580.4 | 504.3 | 366.0 | 308.8 | 310.4 |
| 87.5° | 50.2 | 69.6 | 112.8 | 126.3 | 117.7 | 224.6 | 433.5 | 365.5 | 285.1 | 225.7 | 218.7 |
| 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)