

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: P317966

Luminaire Tested: **GAN-SA2C-722-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-722-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10878 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

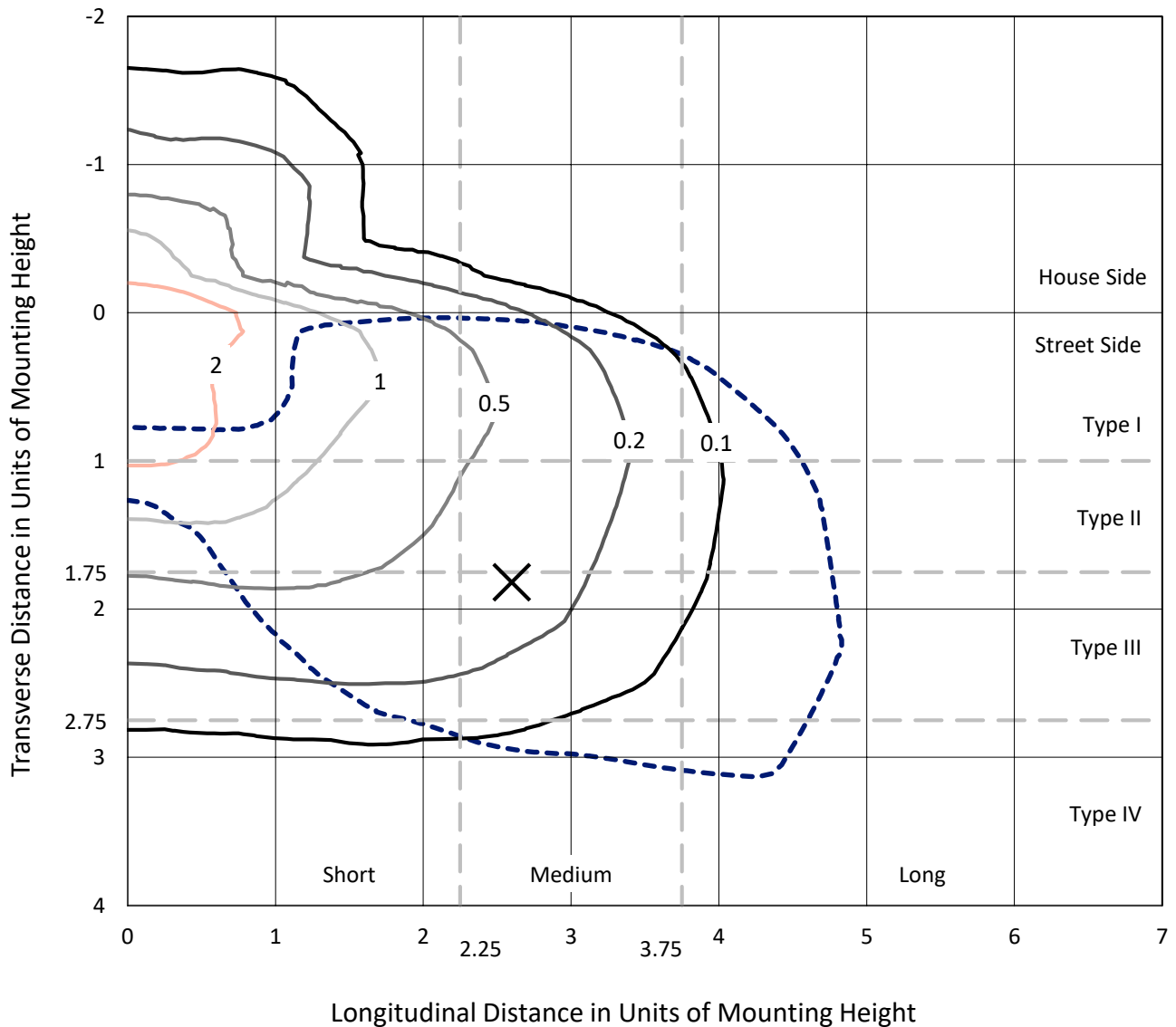
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

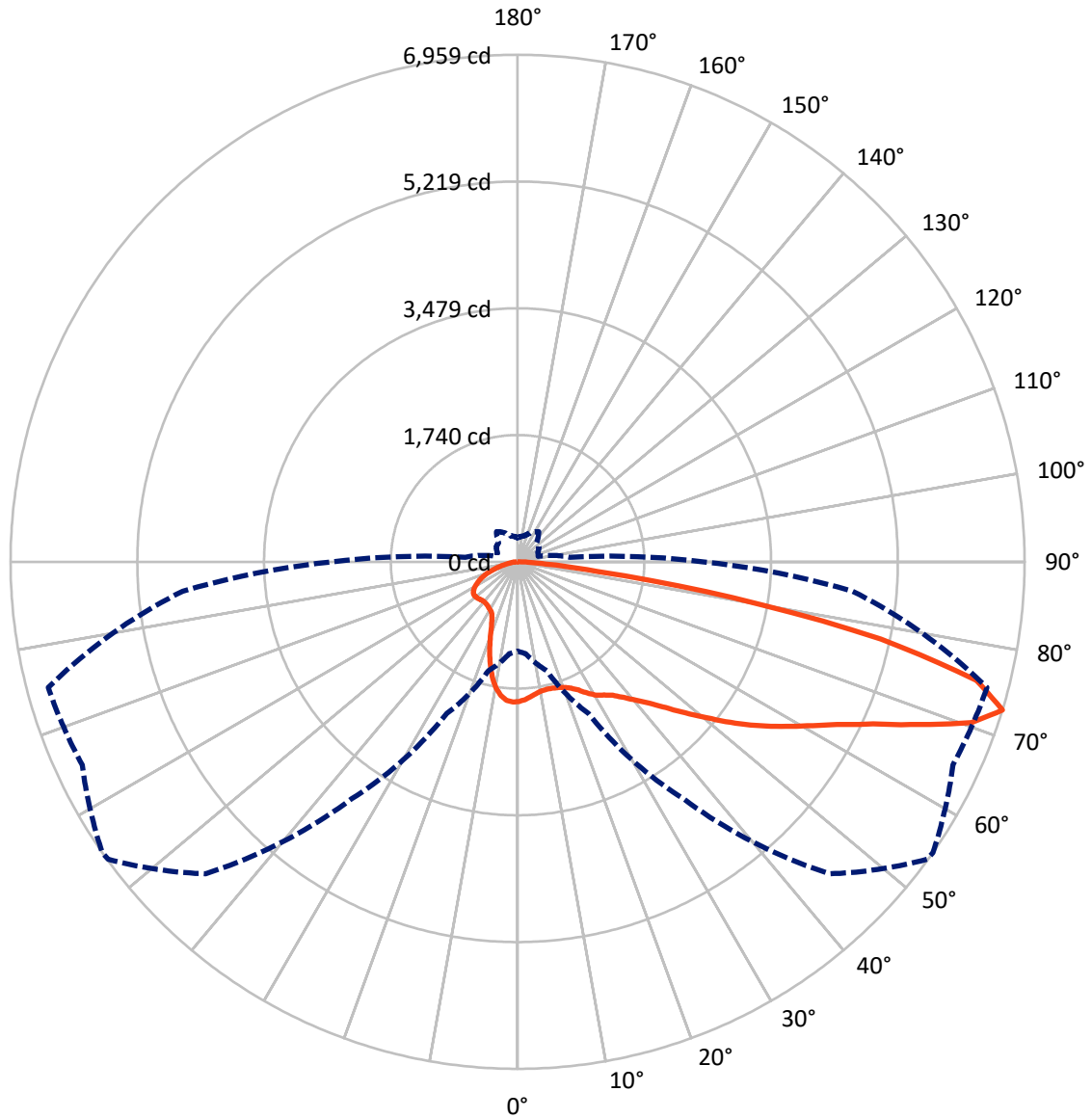
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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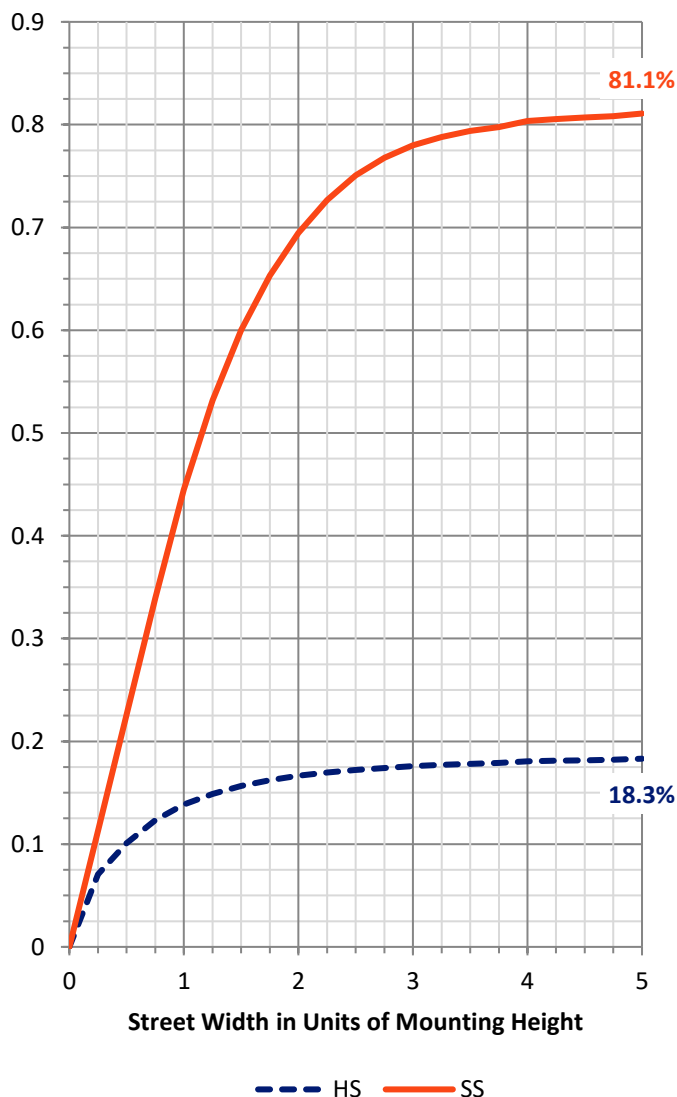
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2021.9 | 0.0 | 2021.9 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 8856.1 | 0.0 | 8856.1 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 10878.0 | 0.0 | 10878.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 173.6 | 1.6 |
| 10°-20° | 462.2 | 4.2 |
| 20°-30° | 762.1 | 7.0 |
| 30°-40° | 1127.3 | 10.4 |
| 40°-50° | 1573.5 | 14.5 |
| 50°-60° | 2048.8 | 18.8 |
| 60°-70° | 2517.9 | 23.1 |
| 70°-80° | 1973.7 | 18.1 |
| 80°-90° | 238.8 | 2.2 |
| 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° | 10878.0 | 100.0 |
| 0°-180° | 10878.0 | 100.0 |

Coefficient of Utilization

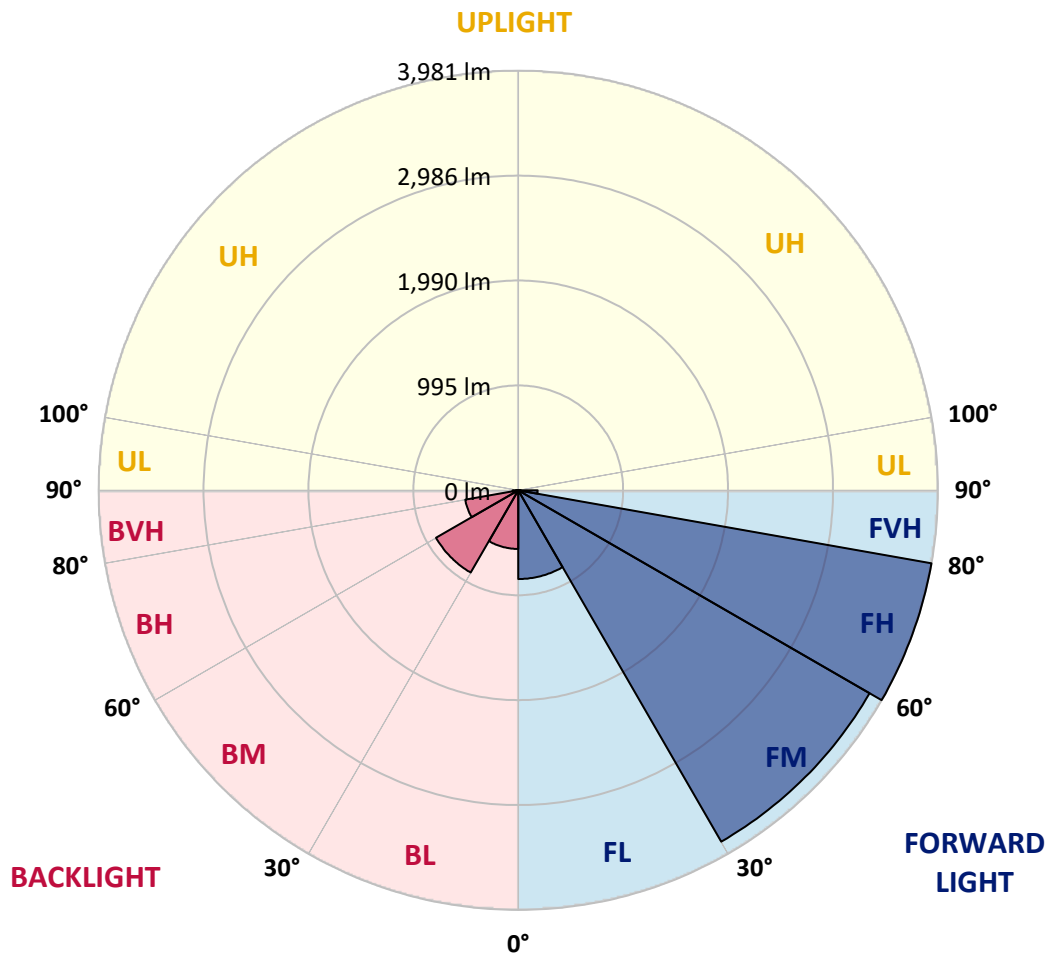


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 841.6 | 7.7 | | | |
| FM (30°-60°) | 3848.8 | 35.4 | | | |
| FH (60°-80°) | 3981.0 | 36.6 | | | G2/5000 |
| FVH (80°-90°) | 184.7 | 1.7 | | | G2/225 |
| BL (0°-30°) | 556.3 | 5.1 | B2/1000 | | |
| BM (30°-60°) | 900.8 | 8.3 | B1/1000 | | |
| BH (60°-80°) | 510.6 | 4.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 54.2 | 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-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1918.6 | 1918.6 | 1918.6 | 1918.6 | 1918.6 | 1918.6 | 1918.6 | 1918.6 | 1918.6 | 1918.6 | 1918.6 |
| 2.5° | 1856.2 | 1851.8 | 1857.3 | 1865.0 | 1873.5 | 1884.8 | 1891.5 | 1894.4 | 1905.8 | 1910.2 | 1919.7 |
| 5° | 1770.2 | 1768.0 | 1777.2 | 1790.4 | 1809.2 | 1835.6 | 1856.9 | 1861.0 | 1891.1 | 1912.4 | 1931.9 |
| 7.5° | 1707.7 | 1707.7 | 1718.4 | 1734.2 | 1755.1 | 1790.8 | 1820.9 | 1826.4 | 1877.5 | 1923.4 | 1959.4 |
| 10° | 1658.1 | 1660.0 | 1672.5 | 1691.2 | 1715.8 | 1753.7 | 1793.7 | 1800.0 | 1873.8 | 1949.1 | 2006.5 |
| 12.5° | 1625.1 | 1629.5 | 1640.9 | 1657.8 | 1688.3 | 1734.2 | 1784.9 | 1793.4 | 1881.5 | 1985.9 | 2063.0 |
| 15° | 1646.0 | 1653.4 | 1654.5 | 1661.5 | 1678.4 | 1728.3 | 1790.0 | 1798.9 | 1898.1 | 2023.4 | 2127.3 |
| 17.5° | 1737.9 | 1740.4 | 1729.1 | 1714.4 | 1706.3 | 1738.2 | 1805.5 | 1814.7 | 1917.9 | 2060.5 | 2189.1 |
| 20° | 1877.5 | 1876.0 | 1851.4 | 1811.7 | 1770.6 | 1775.7 | 1830.8 | 1840.4 | 1944.7 | 2093.2 | 2250.8 |
| 22.5° | 2053.9 | 2048.7 | 2010.9 | 1937.8 | 1867.6 | 1838.2 | 1875.3 | 1883.4 | 1985.1 | 2139.8 | 2316.9 |
| 25° | 2267.7 | 2256.3 | 2206.3 | 2108.2 | 2005.0 | 1929.3 | 1942.2 | 1949.9 | 2043.9 | 2192.0 | 2377.5 |
| 27.5° | 2493.3 | 2481.9 | 2418.3 | 2299.7 | 2162.2 | 2044.3 | 2034.4 | 2041.0 | 2110.8 | 2230.6 | 2422.4 |
| 30° | 2729.2 | 2717.0 | 2659.0 | 2526.0 | 2329.0 | 2163.3 | 2120.4 | 2122.9 | 2157.8 | 2251.5 | 2459.1 |
| 32.5° | 2966.1 | 2954.8 | 2889.7 | 2735.4 | 2510.2 | 2291.2 | 2182.4 | 2179.1 | 2186.1 | 2273.2 | 2500.6 |
| 35° | 3206.4 | 3210.8 | 3134.8 | 2963.9 | 2710.8 | 2433.4 | 2255.9 | 2249.0 | 2233.5 | 2317.7 | 2559.4 |
| 37.5° | 3463.6 | 3460.7 | 3362.2 | 3183.7 | 2920.6 | 2587.7 | 2361.4 | 2360.3 | 2307.0 | 2401.8 | 2651.6 |
| 40° | 3635.6 | 3637.4 | 3577.5 | 3408.5 | 3132.6 | 2758.6 | 2496.6 | 2494.0 | 2424.2 | 2527.8 | 2772.5 |
| 42.5° | 3702.8 | 3714.9 | 3730.4 | 3623.1 | 3354.5 | 2956.6 | 2657.9 | 2654.2 | 2587.7 | 2708.6 | 2914.7 |
| 45° | 3707.6 | 3731.8 | 3827.4 | 3813.8 | 3579.4 | 3183.3 | 2864.0 | 2853.7 | 2806.0 | 2948.9 | 3084.5 |
| 47.5° | 3666.4 | 3691.4 | 3850.1 | 3927.3 | 3780.3 | 3422.5 | 3105.0 | 3096.9 | 3055.8 | 3249.4 | 3268.2 |
| 50° | 3576.4 | 3600.3 | 3803.1 | 3982.8 | 3945.7 | 3652.5 | 3382.8 | 3361.5 | 3339.4 | 3596.6 | 3478.3 |
| 52.5° | 3407.8 | 3453.7 | 3740.3 | 3996.0 | 4044.5 | 3856.8 | 3674.9 | 3660.9 | 3673.1 | 3962.9 | 3688.9 |
| 55° | 3008.4 | 3059.8 | 3578.3 | 3985.0 | 4117.6 | 4028.3 | 3967.0 | 3966.3 | 4029.1 | 4347.3 | 3914.8 |
| 57.5° | 2784.6 | 2821.0 | 3248.3 | 3966.3 | 4204.3 | 4198.8 | 4256.1 | 4263.1 | 4385.5 | 4765.7 | 4151.4 |
| 60° | 2658.3 | 2696.5 | 3081.1 | 3896.8 | 4338.8 | 4419.3 | 4551.2 | 4565.1 | 4747.7 | 5229.1 | 4436.2 |
| 62.5° | 2543.3 | 2585.1 | 2977.5 | 3755.4 | 4497.2 | 4734.5 | 4904.6 | 4917.1 | 5131.3 | 5705.2 | 4711.4 |
| 65° | 2346.7 | 2394.1 | 2825.8 | 3662.4 | 4641.2 | 5145.7 | 5354.0 | 5362.4 | 5571.9 | 6204.2 | 4921.9 |
| 67.5° | 2068.9 | 2112.3 | 2539.6 | 3457.0 | 4747.7 | 5645.0 | 5951.4 | 5956.2 | 6008.7 | 6556.5 | 5029.6 |
| 70° | 1744.5 | 1761.0 | 2131.7 | 3033.0 | 4621.7 | 6112.0 | 6606.1 | 6607.2 | 6407.0 | 6782.1 | 5011.9 |
| 72.5° | 1225.7 | 1264.6 | 1547.6 | 2296.0 | 3971.8 | 6055.0 | 6946.0 | 6958.5 | 6592.2 | 6668.2 | 4611.4 |
| 75° | 751.7 | 792.9 | 970.7 | 1391.4 | 2519.7 | 4762.1 | 6417.7 | 6504.4 | 6245.0 | 5945.5 | 3767.1 |
| 77.5° | 502.6 | 518.1 | 633.4 | 811.3 | 1141.6 | 2739.8 | 4934.0 | 5097.2 | 5187.9 | 4335.9 | 2409.1 |
| 80° | 280.3 | 309.7 | 420.0 | 504.1 | 507.8 | 1088.7 | 2958.4 | 2996.6 | 2886.4 | 1726.5 | 743.3 |
| 82.5° | 148.4 | 164.6 | 280.3 | 296.1 | 277.0 | 364.5 | 1102.6 | 1103.7 | 922.2 | 462.9 | 220.8 |
| 85° | 115.0 | 128.6 | 192.2 | 180.8 | 141.5 | 161.7 | 363.7 | 383.6 | 313.8 | 189.6 | 72.0 |
| 87.5° | 57.3 | 71.3 | 130.4 | 114.6 | 55.5 | 46.3 | 130.1 | 138.9 | 123.8 | 74.2 | 26.1 |
| 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° | 1918.6 | 1918.6 | 1918.6 | 1918.6 | 1918.6 | 1918.6 | 1918.6 | 1918.6 | 1918.6 | 1918.6 | 1918.6 |
| 2.5° | 1923.4 | 1926.7 | 1930.8 | 1926.4 | 1924.9 | 1919.0 | 1909.1 | 1906.9 | 1901.7 | 1902.1 | 1905.1 |
| 5° | 1940.3 | 1945.8 | 1943.6 | 1926.7 | 1906.5 | 1878.2 | 1848.8 | 1823.9 | 1807.3 | 1806.2 | 1805.1 |
| 7.5° | 1972.7 | 1976.3 | 1959.1 | 1910.9 | 1854.3 | 1788.9 | 1727.2 | 1673.2 | 1640.5 | 1632.4 | 1630.6 |
| 10° | 2023.4 | 2022.6 | 1975.2 | 1878.2 | 1765.4 | 1648.6 | 1549.4 | 1474.4 | 1430.7 | 1417.9 | 1414.6 |
| 12.5° | 2079.9 | 2071.5 | 1980.7 | 1818.7 | 1639.8 | 1477.7 | 1352.1 | 1268.7 | 1223.1 | 1208.4 | 1204.8 |
| 15° | 2138.4 | 2117.4 | 1967.1 | 1729.8 | 1485.5 | 1293.7 | 1161.8 | 1084.6 | 1060.0 | 1051.9 | 1050.4 |
| 17.5° | 2192.7 | 2152.3 | 1928.2 | 1609.3 | 1309.5 | 1110.3 | 1007.5 | 976.6 | 982.5 | 993.1 | 993.5 |
| 20° | 2246.0 | 2175.8 | 1865.7 | 1457.2 | 1123.9 | 959.3 | 924.4 | 947.2 | 975.1 | 996.8 | 999.7 |
| 22.5° | 2298.6 | 2192.4 | 1785.3 | 1281.5 | 957.9 | 874.4 | 899.1 | 940.6 | 972.5 | 996.1 | 1000.1 |
| 25° | 2342.6 | 2196.4 | 1674.3 | 1094.2 | 842.5 | 842.5 | 886.9 | 926.3 | 957.9 | 981.0 | 985.0 |
| 27.5° | 2358.8 | 2169.2 | 1517.8 | 920.7 | 784.4 | 827.8 | 870.0 | 902.7 | 929.6 | 954.2 | 958.6 |
| 30° | 2365.1 | 2118.9 | 1337.0 | 781.5 | 760.6 | 812.0 | 847.3 | 875.2 | 900.5 | 923.7 | 927.7 |
| 32.5° | 2366.2 | 2058.3 | 1145.2 | 702.5 | 744.0 | 795.5 | 819.0 | 843.6 | 870.8 | 880.0 | 881.4 |
| 35° | 2373.1 | 1986.6 | 943.2 | 662.1 | 728.6 | 780.0 | 798.8 | 816.4 | 772.3 | 775.6 | 778.6 |
| 37.5° | 2393.3 | 1915.7 | 774.1 | 639.3 | 718.7 | 771.9 | 794.4 | 730.4 | 695.9 | 687.8 | 686.7 |
| 40° | 2431.2 | 1840.0 | 648.9 | 620.9 | 715.0 | 776.0 | 766.1 | 681.9 | 622.4 | 577.9 | 571.3 |
| 42.5° | 2483.7 | 1758.5 | 568.8 | 608.8 | 717.6 | 795.5 | 726.7 | 635.3 | 536.4 | 507.8 | 504.1 |
| 45° | 2542.9 | 1672.8 | 525.4 | 600.4 | 726.4 | 810.5 | 718.7 | 573.2 | 496.4 | 474.7 | 472.9 |
| 47.5° | 2600.2 | 1568.1 | 503.0 | 596.7 | 738.5 | 798.4 | 684.5 | 554.1 | 477.3 | 465.9 | 467.0 |
| 50° | 2666.0 | 1473.7 | 489.4 | 592.6 | 749.2 | 790.7 | 645.9 | 544.1 | 469.9 | 483.9 | 498.6 |
| 52.5° | 2721.4 | 1376.0 | 477.3 | 584.6 | 753.2 | 777.1 | 636.0 | 546.0 | 469.9 | 496.7 | 510.7 |
| 55° | 2787.2 | 1302.1 | 463.3 | 567.7 | 745.5 | 738.5 | 629.0 | 557.0 | 475.4 | 458.5 | 460.0 |
| 57.5° | 2872.1 | 1277.9 | 447.9 | 541.2 | 719.8 | 682.3 | 625.7 | 567.7 | 472.1 | 461.5 | 465.1 |
| 60° | 2989.7 | 1303.6 | 441.6 | 506.7 | 679.7 | 638.2 | 626.1 | 562.1 | 449.0 | 430.6 | 431.0 |
| 62.5° | 3101.7 | 1332.2 | 441.3 | 485.0 | 630.5 | 598.9 | 617.6 | 544.1 | 437.2 | 426.6 | 430.6 |
| 65° | 3138.5 | 1303.2 | 423.6 | 460.7 | 575.0 | 551.9 | 602.2 | 525.0 | 428.4 | 412.2 | 411.5 |
| 67.5° | 3089.2 | 1213.2 | 388.0 | 421.4 | 511.4 | 497.1 | 582.0 | 502.3 | 414.4 | 401.2 | 399.0 |
| 70° | 2943.0 | 1012.2 | 343.9 | 369.6 | 439.1 | 435.4 | 550.0 | 475.8 | 395.7 | 384.3 | 374.8 |
| 72.5° | 2549.5 | 721.2 | 289.9 | 307.5 | 357.5 | 369.3 | 505.9 | 441.3 | 369.3 | 344.6 | 329.9 |
| 75° | 2093.9 | 533.9 | 238.1 | 241.8 | 271.5 | 303.5 | 445.3 | 400.9 | 338.0 | 296.1 | 284.7 |
| 77.5° | 1282.3 | 326.6 | 189.6 | 191.1 | 194.7 | 242.1 | 366.7 | 355.7 | 298.3 | 246.9 | 238.8 |
| 80° | 415.2 | 178.2 | 137.0 | 144.0 | 133.0 | 177.5 | 283.6 | 302.8 | 256.1 | 206.5 | 197.7 |
| 82.5° | 158.0 | 104.0 | 92.6 | 97.4 | 92.2 | 119.0 | 206.9 | 242.5 | 209.8 | 169.7 | 138.1 |
| 85° | 76.4 | 58.8 | 54.7 | 61.4 | 56.9 | 61.0 | 132.3 | 178.6 | 159.1 | 110.6 | 102.9 |
| 87.5° | 27.2 | 26.1 | 20.9 | 28.3 | 24.2 | 21.7 | 40.4 | 90.0 | 105.1 | 76.1 | 68.0 |
| 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)