

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: P322439

Luminaire Tested: **GAN-SA5B-722-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-722-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15301 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 210
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

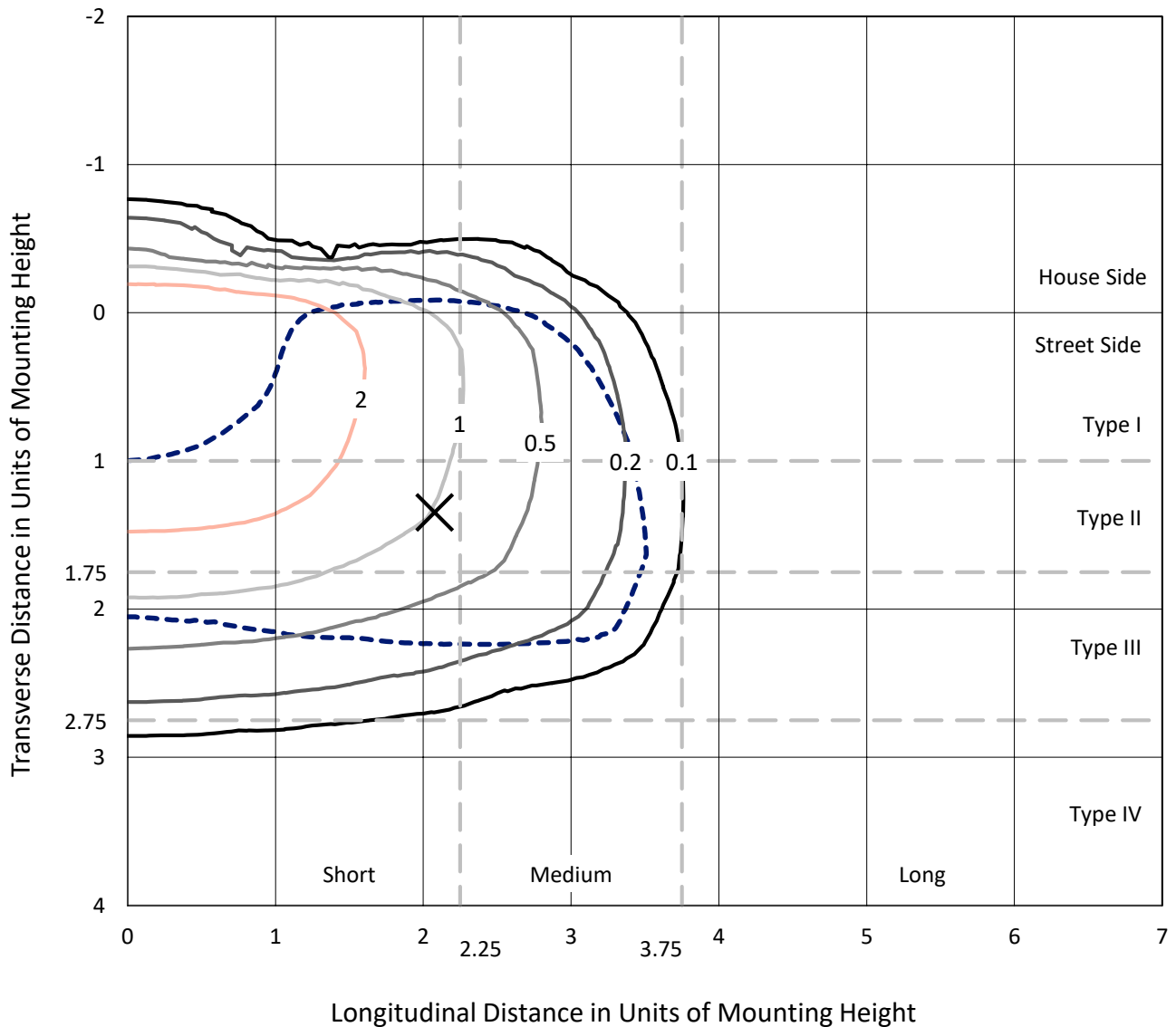




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Iso-Footcandle Lines of Horizontal Illumination

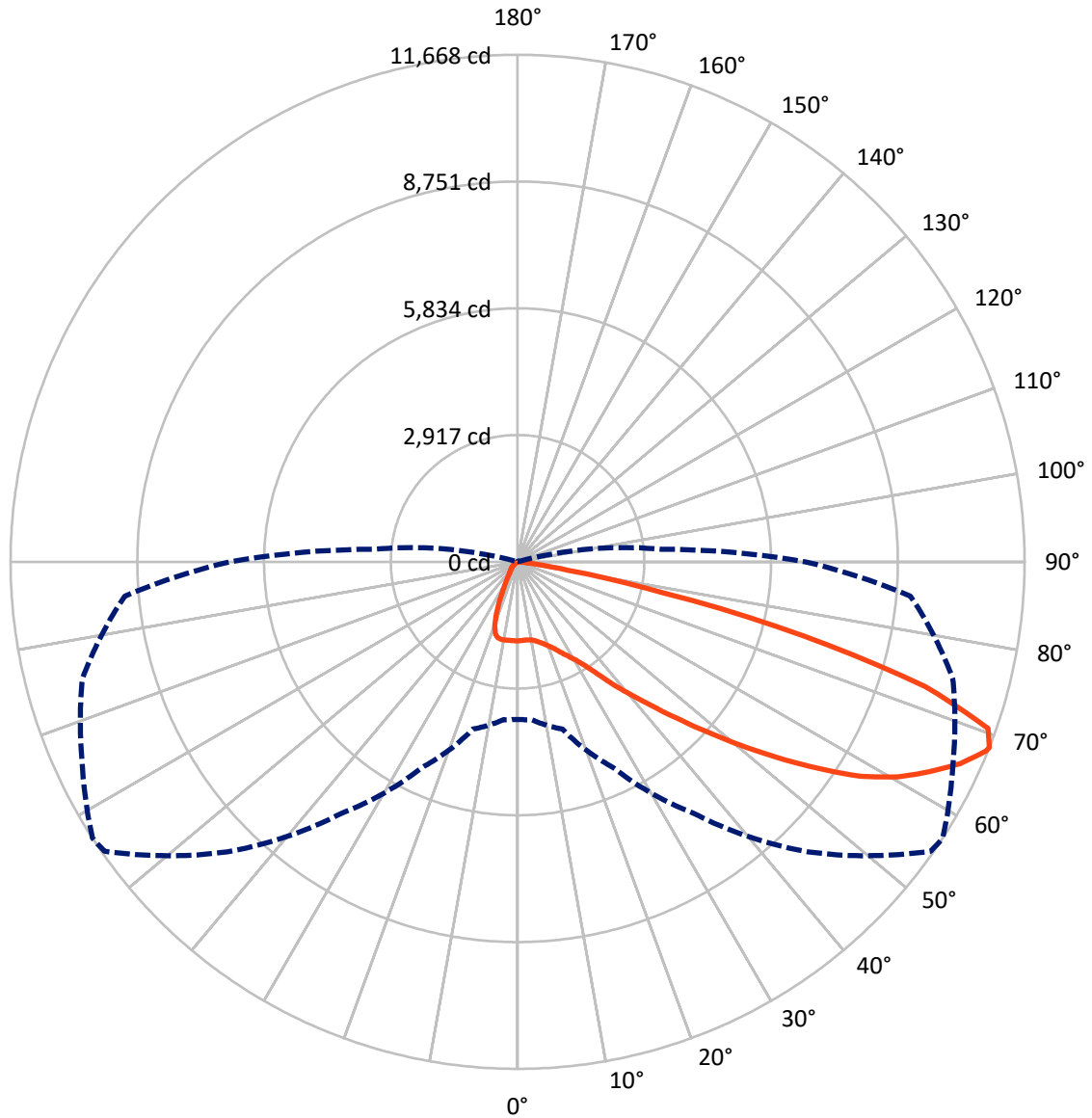
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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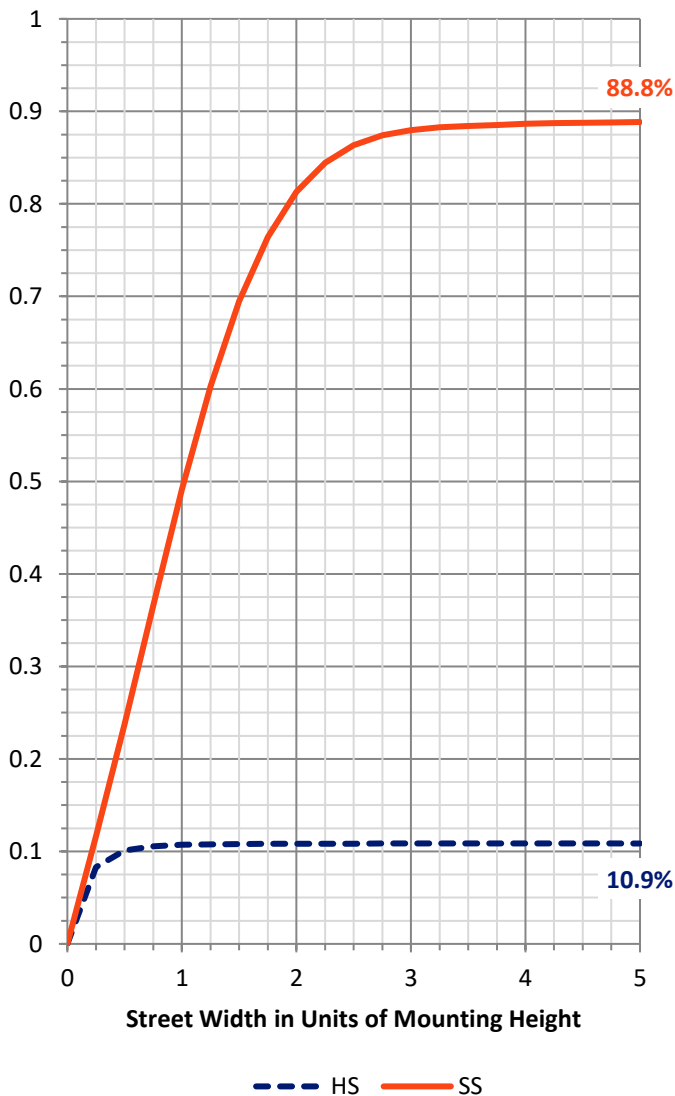
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1677.8 | 0.0 | 1677.8 |
| | % Fixture | 11.0 | 0.0 | 11.0 |
| Street Side | Lumens | 13623.2 | 0.0 | 13623.2 |
| | % Fixture | 89.0 | 0.0 | 89.0 |
| Total | Lumens | 15301.0 | 0.0 | 15301.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 170.2 | 1.1 |
| 10°-20° | 471.5 | 3.1 |
| 20°-30° | 813.4 | 5.3 |
| 30°-40° | 1403.9 | 9.2 |
| 40°-50° | 2401.4 | 15.7 |
| 50°-60° | 3842.0 | 25.1 |
| 60°-70° | 4439.0 | 29.0 |
| 70°-80° | 1696.2 | 11.1 |
| 80°-90° | 63.6 | 0.4 |
| 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° | 15301.0 | 100.0 |
| 0°-180° | 15301.0 | 100.0 |

Coefficient of Utilization



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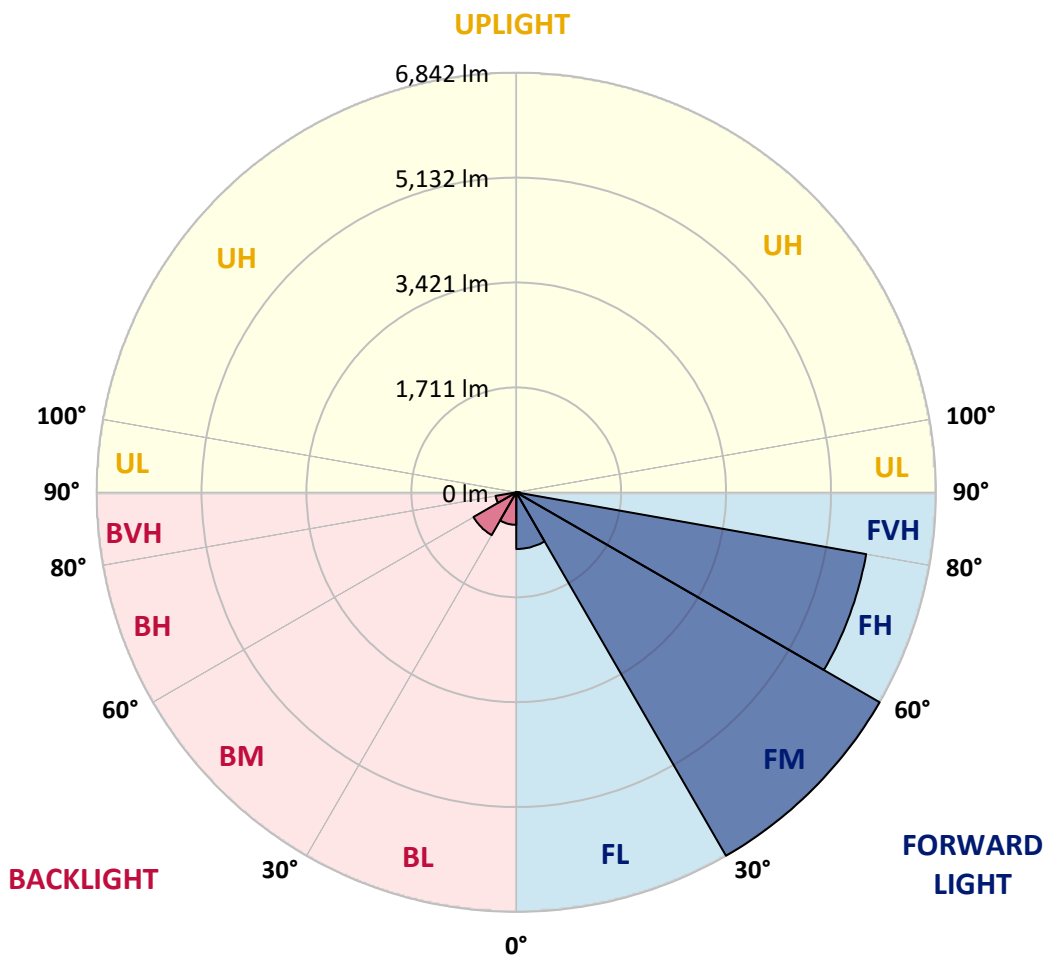
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 924.8 | 6.0 | | | |
| FM (30°-60°) | 6842.5 | 44.7 | | | |
| FH (60°-80°) | 5793.5 | 37.9 | | | G3/7500 |
| FVH (80°-90°) | 62.4 | 0.4 | | | G1/100 |
| BL (0°-30°) | 530.3 | 3.5 | B2/1000 | | |
| BM (30°-60°) | 804.7 | 5.3 | B1/1000 | | |
| BH (60°-80°) | 341.7 | 2.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| 0° | 1818.2 | 1818.2 | 1818.2 | 1818.2 | 1818.2 | 1818.2 | 1818.2 | 1818.2 | 1818.2 | 1818.2 | 1818.2 |
| 2.5° | 1775.5 | 1783.4 | 1789.2 | 1792.8 | 1797.2 | 1806.6 | 1809.5 | 1813.8 | 1816.0 | 1816.0 | 1821.1 |
| 5° | 1705.3 | 1714.0 | 1726.3 | 1736.4 | 1756.7 | 1782.7 | 1801.5 | 1808.8 | 1821.8 | 1833.4 | 1839.9 |
| 7.5° | 1640.2 | 1650.3 | 1664.8 | 1688.7 | 1723.4 | 1765.3 | 1804.4 | 1814.5 | 1839.9 | 1864.5 | 1876.8 |
| 10° | 1598.2 | 1606.2 | 1625.0 | 1659.0 | 1704.6 | 1763.2 | 1818.2 | 1830.5 | 1873.9 | 1915.1 | 1938.3 |
| 12.5° | 1583.7 | 1591.0 | 1610.5 | 1648.9 | 1705.3 | 1774.0 | 1850.0 | 1868.1 | 1931.8 | 1991.8 | 2024.4 |
| 15° | 1604.7 | 1606.2 | 1627.2 | 1663.3 | 1719.0 | 1800.8 | 1902.8 | 1924.5 | 2004.8 | 2083.0 | 2123.5 |
| 17.5° | 1685.8 | 1679.2 | 1690.1 | 1706.0 | 1750.2 | 1836.2 | 1958.5 | 1991.1 | 2098.2 | 2190.0 | 2228.4 |
| 20° | 1888.3 | 1888.3 | 1863.7 | 1820.3 | 1821.1 | 1891.2 | 2033.8 | 2070.7 | 2201.6 | 2308.0 | 2342.7 |
| 22.5° | 2234.9 | 2228.4 | 2179.2 | 2072.8 | 1975.2 | 1986.0 | 2125.7 | 2173.4 | 2326.1 | 2439.7 | 2451.2 |
| 25° | 2651.6 | 2643.7 | 2567.7 | 2417.9 | 2248.6 | 2139.4 | 2250.1 | 2305.1 | 2474.4 | 2574.9 | 2551.1 |
| 27.5° | 3093.0 | 3086.5 | 3011.2 | 2825.3 | 2584.4 | 2383.9 | 2398.4 | 2450.5 | 2625.6 | 2724.7 | 2648.7 |
| 30° | 3520.6 | 3522.7 | 3448.2 | 3257.2 | 2984.4 | 2695.8 | 2586.5 | 2616.9 | 2772.5 | 2873.0 | 2764.5 |
| 32.5° | 3927.2 | 3930.1 | 3865.7 | 3652.2 | 3397.6 | 3058.2 | 2847.0 | 2839.0 | 2943.2 | 3042.3 | 2917.9 |
| 35° | 4289.6 | 4296.9 | 4252.7 | 4087.1 | 3817.2 | 3462.0 | 3184.9 | 3166.0 | 3185.6 | 3297.7 | 3153.0 |
| 37.5° | 4639.1 | 4643.4 | 4610.2 | 4470.5 | 4244.8 | 3905.5 | 3611.7 | 3585.0 | 3543.0 | 3629.1 | 3463.4 |
| 40° | 5021.8 | 5011.0 | 4972.6 | 4846.0 | 4652.1 | 4395.3 | 4070.4 | 4024.1 | 3951.0 | 4027.7 | 3871.5 |
| 42.5° | 5377.8 | 5365.5 | 5372.0 | 5228.8 | 5065.2 | 4898.8 | 4605.1 | 4525.5 | 4482.8 | 4571.1 | 4372.1 |
| 45° | 5822.7 | 5816.2 | 5837.9 | 5713.5 | 5581.1 | 5460.3 | 5217.9 | 5131.1 | 5112.3 | 5215.7 | 4977.7 |
| 47.5° | 6261.9 | 6277.8 | 6345.1 | 6292.3 | 6238.8 | 6132.4 | 5866.9 | 5827.8 | 5839.4 | 5964.6 | 5616.6 |
| 50° | 6628.0 | 6646.8 | 6831.3 | 6892.1 | 6969.5 | 6907.3 | 6641.0 | 6617.2 | 6662.7 | 6775.6 | 6303.9 |
| 52.5° | 6892.8 | 6931.2 | 7160.5 | 7440.5 | 7722.7 | 7764.6 | 7499.1 | 7477.4 | 7538.9 | 7556.3 | 6834.9 |
| 55° | 7076.6 | 7110.6 | 7370.3 | 7882.6 | 8457.0 | 8637.9 | 8472.9 | 8389.0 | 8377.4 | 8206.0 | 7393.5 |
| 57.5° | 7109.1 | 7105.5 | 7478.8 | 8168.3 | 9032.9 | 9499.6 | 9395.4 | 9312.9 | 9075.6 | 8806.5 | 8033.8 |
| 60° | 6925.4 | 6946.3 | 7379.7 | 8267.5 | 9394.7 | 10151.5 | 10159.4 | 10052.3 | 9682.6 | 9390.3 | 8654.5 |
| 62.5° | 6359.6 | 6445.0 | 6882.7 | 8007.7 | 9390.3 | 10414.1 | 10719.4 | 10637.7 | 10195.6 | 9868.6 | 9284.0 |
| 65° | 5442.2 | 5472.6 | 5890.0 | 7117.8 | 8755.8 | 10304.1 | 11223.7 | 11193.3 | 10657.9 | 10333.1 | 9607.4 |
| 67.5° | 3974.2 | 3908.4 | 4346.8 | 5605.0 | 7413.0 | 9663.1 | 11585.4 | 11623.8 | 11014.6 | 10428.6 | 9263.0 |
| 68° | 3626.9 | 3646.5 | 3987.9 | 5230.9 | 7061.4 | 9436.6 | 11609.3 | 11667.9 | 11050.1 | 10366.3 | 9074.9 |
| 70° | 2161.8 | 2199.4 | 2504.0 | 3601.6 | 5372.0 | 8155.3 | 11351.8 | 11485.6 | 10838.8 | 9724.6 | 7849.3 |
| 72.5° | 552.0 | 596.9 | 884.8 | 1612.0 | 3068.4 | 5746.1 | 9582.8 | 9809.2 | 9410.6 | 7889.1 | 5298.9 |
| 75° | 227.2 | 238.8 | 316.2 | 531.1 | 1143.1 | 2588.7 | 6316.2 | 6800.9 | 6523.8 | 4723.0 | 2394.8 |
| 77.5° | 157.0 | 165.0 | 203.3 | 294.5 | 494.9 | 877.6 | 3096.6 | 3446.8 | 3105.3 | 1612.0 | 522.4 |
| 80° | 112.9 | 119.4 | 145.4 | 196.1 | 284.3 | 313.3 | 1009.3 | 1167.0 | 926.8 | 353.8 | 129.5 |
| 82.5° | 67.3 | 72.4 | 108.5 | 139.6 | 172.9 | 149.8 | 251.1 | 285.1 | 268.4 | 175.8 | 57.9 |
| 85° | 33.3 | 39.1 | 73.1 | 99.8 | 93.3 | 62.9 | 76.7 | 85.4 | 105.6 | 107.1 | 31.1 |
| 87.5° | 2.2 | 4.3 | 42.7 | 60.1 | 26.0 | 14.5 | 22.4 | 27.5 | 37.6 | 52.8 | 13.0 |
| 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° | 1818.2 | 1818.2 | 1818.2 | 1818.2 | 1818.2 | 1818.2 | 1818.2 | 1818.2 | 1818.2 | 1818.2 | 1818.2 |
| 2.5° | 1823.2 | 1824.0 | 1818.9 | 1816.7 | 1818.2 | 1809.5 | 1805.9 | 1807.3 | 1807.3 | 1809.5 | 1805.9 |
| 5° | 1841.3 | 1841.3 | 1832.6 | 1821.1 | 1814.5 | 1797.9 | 1787.1 | 1784.2 | 1782.0 | 1780.5 | 1777.6 |
| 7.5° | 1880.4 | 1876.0 | 1860.8 | 1835.5 | 1813.8 | 1777.6 | 1750.2 | 1735.7 | 1728.4 | 1725.6 | 1723.4 |
| 10° | 1943.3 | 1935.4 | 1910.0 | 1863.0 | 1813.1 | 1748.7 | 1688.7 | 1646.0 | 1610.5 | 1596.0 | 1587.4 |
| 12.5° | 2028.0 | 2016.4 | 1973.7 | 1895.6 | 1808.0 | 1689.4 | 1559.1 | 1434.0 | 1317.5 | 1269.7 | 1245.9 |
| 15° | 2125.7 | 2109.0 | 2041.7 | 1923.1 | 1778.4 | 1555.5 | 1272.6 | 1053.4 | 892.1 | 831.3 | 805.3 |
| 17.5° | 2224.8 | 2203.1 | 2101.1 | 1940.4 | 1689.4 | 1278.4 | 892.8 | 674.3 | 566.5 | 537.6 | 527.4 |
| 20° | 2324.6 | 2292.8 | 2152.4 | 1927.4 | 1488.2 | 921.7 | 588.9 | 492.7 | 461.6 | 452.9 | 450.0 |
| 22.5° | 2419.4 | 2370.2 | 2198.7 | 1876.8 | 1178.6 | 618.6 | 465.9 | 435.5 | 425.4 | 420.4 | 418.9 |
| 25° | 2501.9 | 2433.1 | 2239.2 | 1720.5 | 834.2 | 467.4 | 419.6 | 409.5 | 396.5 | 387.1 | 387.8 |
| 27.5° | 2579.3 | 2496.1 | 2263.8 | 1462.9 | 556.4 | 399.4 | 388.5 | 374.8 | 350.9 | 337.2 | 337.2 |
| 30° | 2672.6 | 2580.0 | 2281.9 | 1125.8 | 409.5 | 353.1 | 344.4 | 323.4 | 290.8 | 272.8 | 272.8 |
| 32.5° | 2813.0 | 2707.3 | 2270.4 | 790.1 | 339.3 | 310.4 | 290.1 | 261.2 | 225.7 | 208.4 | 207.6 |
| 35° | 3027.9 | 2904.1 | 2187.9 | 518.0 | 299.5 | 269.9 | 237.3 | 201.9 | 170.7 | 156.3 | 155.6 |
| 37.5° | 3317.3 | 3167.5 | 2002.7 | 370.4 | 268.4 | 232.2 | 193.2 | 154.1 | 131.0 | 121.5 | 120.8 |
| 40° | 3692.8 | 3473.5 | 1737.9 | 300.3 | 239.5 | 196.1 | 149.0 | 119.4 | 103.5 | 96.2 | 96.9 |
| 42.5° | 4143.5 | 3801.3 | 1420.2 | 259.0 | 211.3 | 161.3 | 116.5 | 94.1 | 83.9 | 78.9 | 77.4 |
| 45° | 4644.2 | 4124.7 | 1087.4 | 230.8 | 183.0 | 130.2 | 91.2 | 74.5 | 66.6 | 63.7 | 63.7 |
| 47.5° | 5194.7 | 4439.4 | 795.9 | 206.2 | 152.7 | 100.6 | 73.1 | 60.8 | 54.3 | 52.1 | 51.4 |
| 50° | 5694.7 | 4657.9 | 573.7 | 180.2 | 125.2 | 79.6 | 59.3 | 50.6 | 46.3 | 43.4 | 43.4 |
| 52.5° | 6111.4 | 4726.6 | 422.5 | 151.9 | 101.3 | 63.7 | 49.2 | 43.4 | 39.1 | 36.9 | 36.9 |
| 55° | 6478.2 | 4698.4 | 314.0 | 125.2 | 81.8 | 52.1 | 42.0 | 36.9 | 33.3 | 31.1 | 31.1 |
| 57.5° | 6829.9 | 4607.3 | 234.4 | 102.0 | 65.8 | 42.0 | 35.5 | 31.1 | 27.5 | 26.0 | 26.0 |
| 60° | 7117.1 | 4455.3 | 174.4 | 82.5 | 52.8 | 34.0 | 29.7 | 25.3 | 22.4 | 20.3 | 20.3 |
| 62.5° | 7350.1 | 4287.5 | 128.1 | 68.0 | 42.0 | 26.8 | 23.2 | 21.0 | 16.6 | 14.5 | 14.5 |
| 65° | 7351.5 | 4008.9 | 96.2 | 56.4 | 32.6 | 21.0 | 17.4 | 16.6 | 10.9 | 8.7 | 8.0 |
| 67.5° | 6819.7 | 3456.2 | 73.8 | 48.5 | 25.3 | 15.9 | 13.0 | 13.7 | 5.8 | 3.6 | 2.9 |
| 68° | 6626.6 | 3315.8 | 69.5 | 47.8 | 23.9 | 15.2 | 12.3 | 13.7 | 5.1 | 2.9 | 2.2 |
| 70° | 5586.9 | 2637.9 | 55.7 | 46.3 | 21.0 | 11.6 | 10.1 | 13.7 | 4.3 | 2.2 | 1.4 |
| 72.5° | 3573.4 | 1530.9 | 41.2 | 36.9 | 15.9 | 8.7 | 6.5 | 12.3 | 4.3 | 1.4 | 0.7 |
| 75° | 1520.8 | 474.6 | 28.2 | 26.0 | 9.4 | 6.5 | 4.3 | 8.0 | 2.9 | 0.7 | 0.0 |
| 77.5° | 320.5 | 107.1 | 16.6 | 15.9 | 6.5 | 4.3 | 2.9 | 2.2 | 0.7 | 0.0 | 0.0 |
| 80° | 82.5 | 31.1 | 8.7 | 8.0 | 3.6 | 2.2 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 26.0 | 12.3 | 5.1 | 3.6 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 13.0 | 7.2 | 2.9 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 7.2 | 2.2 | 0.7 | 0.0 | 0.0 | 0.0 | 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)