

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: P381118

Luminaire Tested: **USSL-PA2A-730-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-PA2A-730-U-T2U
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 720mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14384 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B3 - U0 - G3

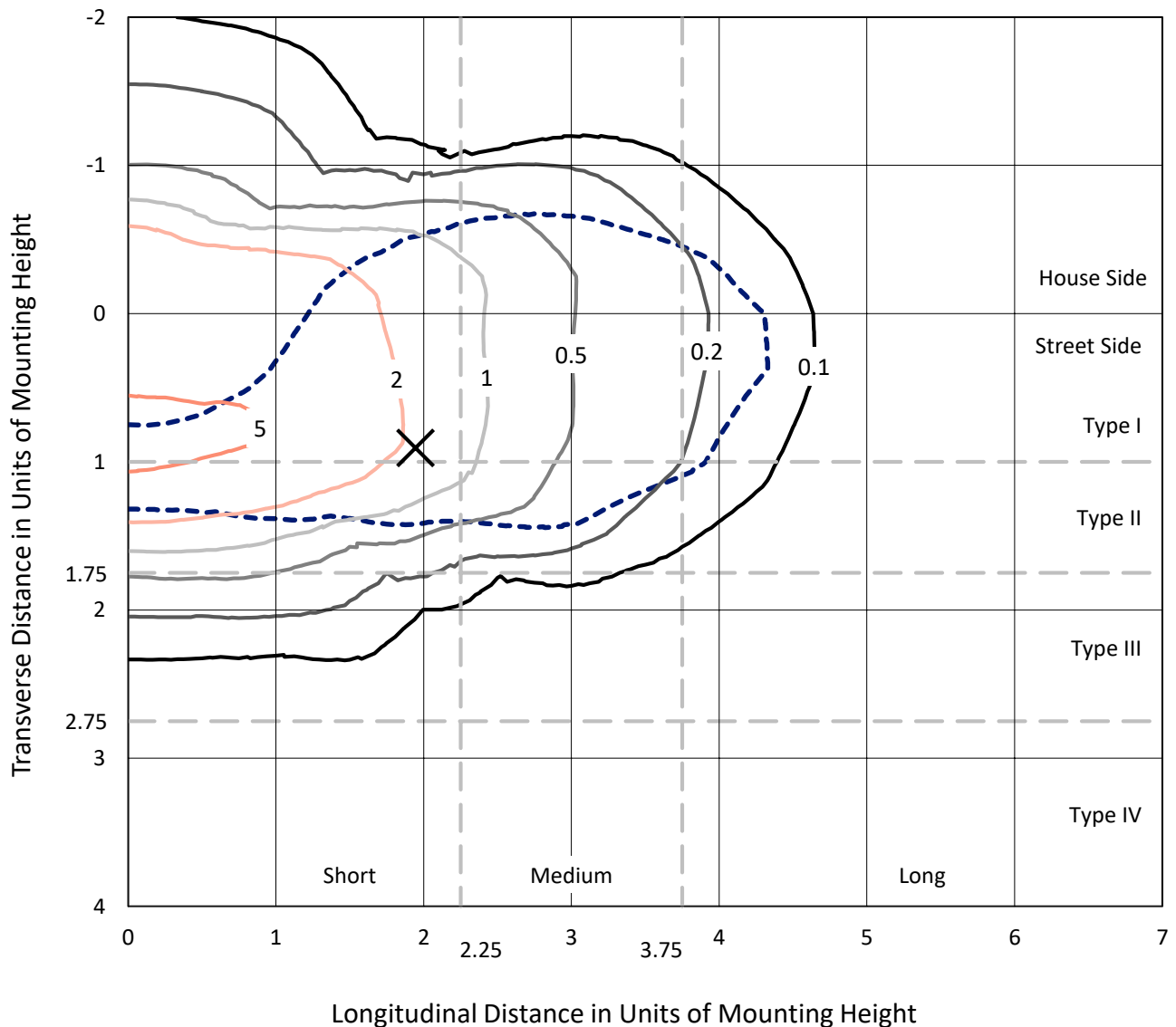
Input Watts (W): 112
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

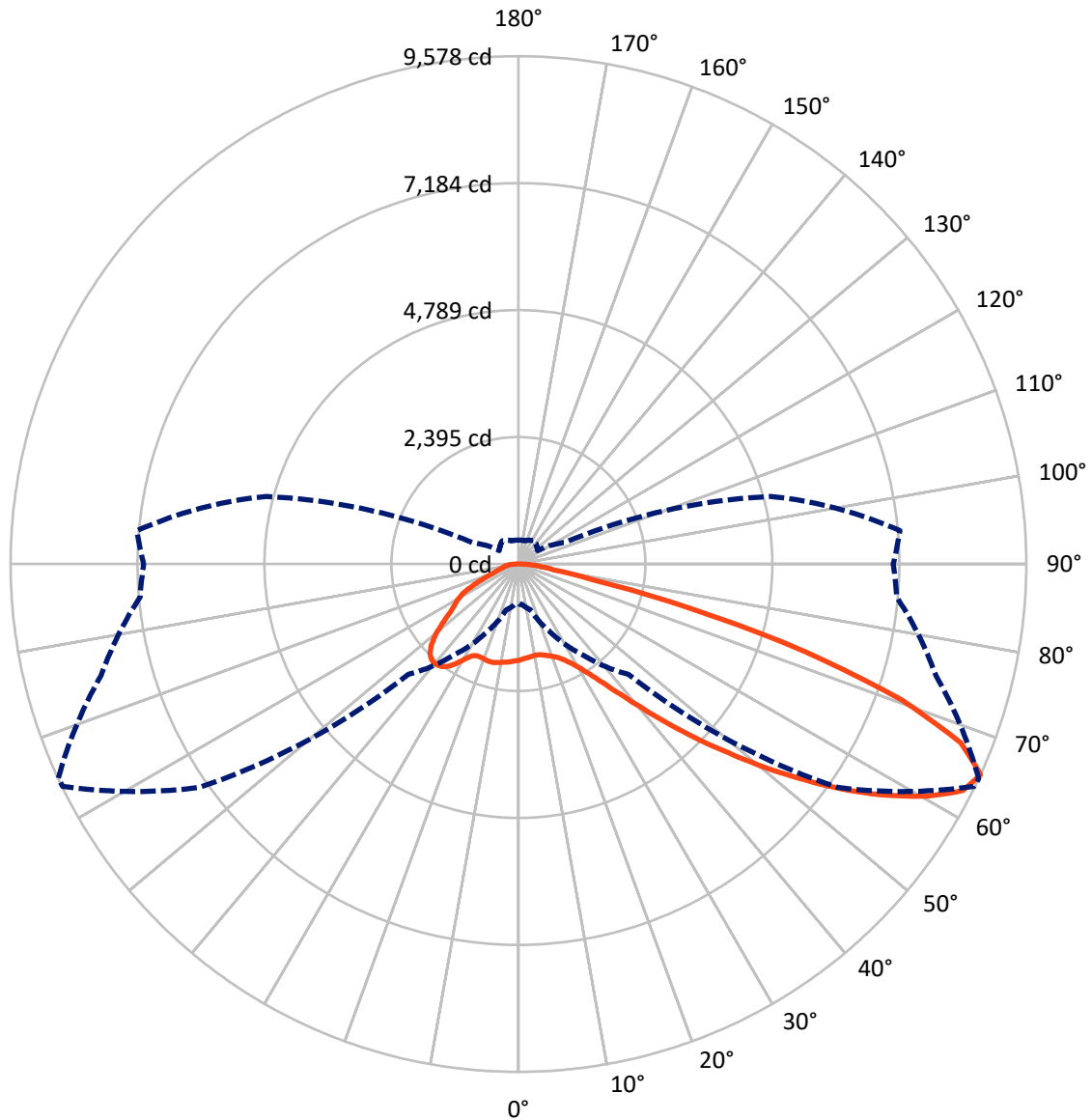
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4158.6 | 0.0 | 4158.6 |
| | % Fixture | 28.9 | 0.0 | 28.9 |
| Street Side | Lumens | 10225.4 | 0.0 | 10225.4 |
| | % Fixture | 71.1 | 0.0 | 71.1 |
| Total | Lumens | 14384.0 | 0.0 | 14384.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 173.2 | 1.2 |
| 10°-20° | 517.0 | 3.6 |
| 20°-30° | 918.3 | 6.4 |
| 30°-40° | 1553.6 | 10.8 |
| 40°-50° | 2704.5 | 18.8 |
| 50°-60° | 3495.0 | 24.3 |
| 60°-70° | 3058.4 | 21.3 |
| 70°-80° | 1663.5 | 11.6 |
| 80°-90° | 300.6 | 2.1 |
| 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° | 14384.0 | 100.0 |
| 0°-180° | 14384.0 | 100.0 |



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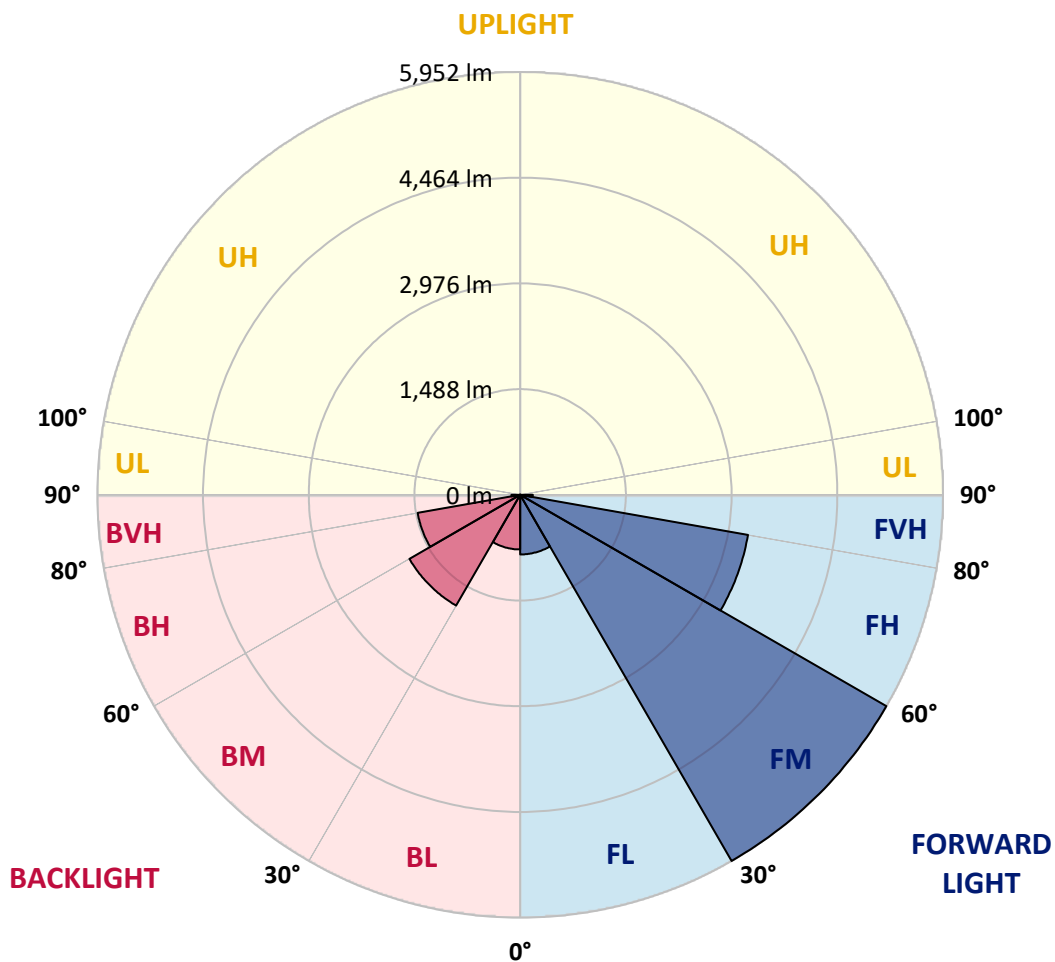
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 839.3 | 5.8 | | | |
| FM | (30°-60°) | 5952.5 | 41.4 | | | |
| FH | (60°-80°) | 3256.7 | 22.6 | | | G2/5000 |
| FVH | (80°-90°) | 176.9 | 1.2 | | | G2/225 |
| BL | (0°-30°) | 769.2 | 5.3 | B2/1000 | | |
| BM | (30°-60°) | 1800.6 | 12.5 | B2/2500 | | |
| BH | (60°-80°) | 1465.1 | 10.2 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 123.7 | 0.9 | | | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1817.6 | 1817.6 | 1817.6 | 1817.6 | 1817.6 | 1817.6 | 1817.6 | 1817.6 | 1817.6 | 1817.6 | 1817.6 |
| 2.5° | 1785.4 | 1783.5 | 1779.7 | 1783.5 | 1785.4 | 1789.2 | 1787.3 | 1791.1 | 1789.2 | 1794.8 | 1804.3 |
| 5° | 1739.9 | 1736.1 | 1734.3 | 1743.7 | 1749.4 | 1758.9 | 1762.7 | 1775.9 | 1774.0 | 1783.5 | 1798.6 |
| 7.5° | 1688.8 | 1688.8 | 1686.9 | 1698.3 | 1705.9 | 1722.9 | 1736.1 | 1758.9 | 1760.8 | 1777.8 | 1794.8 |
| 10° | 1649.1 | 1650.9 | 1649.1 | 1658.5 | 1669.9 | 1690.7 | 1713.4 | 1745.6 | 1747.5 | 1772.1 | 1789.2 |
| 12.5° | 1633.9 | 1633.9 | 1633.9 | 1647.2 | 1662.3 | 1690.7 | 1717.2 | 1751.3 | 1755.1 | 1781.6 | 1796.7 |
| 15° | 1654.7 | 1656.6 | 1652.8 | 1666.1 | 1683.1 | 1717.2 | 1741.8 | 1777.8 | 1781.6 | 1806.2 | 1815.7 |
| 17.5° | 1728.6 | 1736.1 | 1726.7 | 1734.3 | 1730.5 | 1757.0 | 1779.7 | 1815.7 | 1817.6 | 1838.4 | 1842.2 |
| 20° | 1874.4 | 1881.9 | 1866.8 | 1857.3 | 1823.2 | 1821.3 | 1830.8 | 1859.2 | 1859.2 | 1872.5 | 1863.0 |
| 22.5° | 2099.7 | 2107.2 | 2080.7 | 2044.8 | 1963.3 | 1923.6 | 1902.8 | 1916.0 | 1914.1 | 1919.8 | 1895.2 |
| 25° | 2398.8 | 2396.9 | 2364.7 | 2298.5 | 2167.8 | 2071.3 | 2020.1 | 1999.3 | 1999.3 | 1988.0 | 1957.7 |
| 27.5° | 2769.9 | 2741.5 | 2684.7 | 2605.2 | 2423.4 | 2289.0 | 2179.2 | 2126.2 | 2116.7 | 2082.6 | 2025.8 |
| 30° | 3165.6 | 3144.8 | 3063.3 | 2947.9 | 2737.7 | 2565.4 | 2383.7 | 2277.6 | 2271.9 | 2198.1 | 2112.9 |
| 32.5° | 3631.3 | 3597.2 | 3506.4 | 3368.2 | 3116.4 | 2874.0 | 2646.8 | 2485.9 | 2476.4 | 2359.0 | 2241.7 |
| 35° | 4229.6 | 4201.2 | 4025.1 | 3886.9 | 3563.2 | 3245.1 | 2976.2 | 2762.3 | 2754.7 | 2610.8 | 2461.3 |
| 37.5° | 4947.2 | 4873.3 | 4702.9 | 4443.5 | 4102.8 | 3726.0 | 3385.2 | 3116.4 | 3106.9 | 2947.9 | 2758.5 |
| 40° | 5587.1 | 5520.8 | 5369.4 | 5130.8 | 4765.4 | 4347.0 | 3885.0 | 3559.4 | 3549.9 | 3356.8 | 3118.2 |
| 42.5° | 6060.4 | 6015.0 | 5916.5 | 5778.3 | 5517.0 | 5263.3 | 4523.1 | 4095.2 | 4078.1 | 3828.2 | 3531.0 |
| 45° | 6334.9 | 6299.0 | 6242.2 | 6276.3 | 6272.5 | 6225.1 | 5284.2 | 4733.2 | 4678.3 | 4354.6 | 3991.1 |
| 47.5° | 6268.7 | 6236.5 | 6259.2 | 6524.3 | 6889.7 | 7164.2 | 6170.2 | 5386.4 | 5312.6 | 4890.4 | 4481.4 |
| 50° | 5789.7 | 5802.9 | 5922.2 | 6429.6 | 7249.4 | 7859.0 | 7152.8 | 6130.5 | 6032.0 | 5430.0 | 4947.2 |
| 52.5° | 4916.9 | 4949.1 | 5238.7 | 5948.7 | 7209.6 | 8309.6 | 8040.8 | 6899.1 | 6768.5 | 5956.3 | 5371.3 |
| 55° | 3905.9 | 3987.3 | 4362.1 | 5108.1 | 6690.9 | 8341.8 | 8711.0 | 7671.6 | 7527.7 | 6450.4 | 5740.5 |
| 57.5° | 2889.2 | 3010.3 | 3443.9 | 4129.3 | 5696.9 | 7832.5 | 9046.1 | 8410.0 | 8235.8 | 6940.8 | 6130.5 |
| 60° | 1832.7 | 1906.5 | 2406.4 | 3214.8 | 4360.2 | 6586.8 | 9002.6 | 9038.6 | 8887.1 | 7429.3 | 6537.5 |
| 62.5° | 1170.1 | 1206.0 | 1457.8 | 2292.8 | 3048.2 | 4877.1 | 8527.4 | 9513.8 | 9411.5 | 7874.2 | 6923.8 |
| 65° | 751.6 | 766.8 | 895.5 | 1410.5 | 2075.0 | 2944.1 | 7344.1 | 9564.9 | 9578.1 | 8152.5 | 7162.3 |
| 67.5° | 611.5 | 619.1 | 666.4 | 870.9 | 1467.3 | 1626.3 | 5115.7 | 8837.9 | 8998.8 | 8080.6 | 7080.9 |
| 70° | 556.6 | 566.1 | 615.3 | 694.8 | 1136.0 | 1122.7 | 2476.4 | 7395.2 | 7658.4 | 7665.9 | 6719.3 |
| 72.5° | 469.5 | 482.8 | 549.1 | 657.0 | 878.5 | 886.1 | 1048.9 | 5267.1 | 5655.3 | 6851.8 | 6175.9 |
| 75° | 391.9 | 399.5 | 456.3 | 579.3 | 744.1 | 708.1 | 736.5 | 2792.6 | 3353.0 | 5494.3 | 5598.5 |
| 77.5° | 318.1 | 325.6 | 367.3 | 462.0 | 660.8 | 550.9 | 579.3 | 1156.8 | 1429.4 | 3729.8 | 4576.1 |
| 80° | 227.2 | 234.8 | 282.1 | 359.7 | 499.8 | 496.0 | 429.8 | 638.0 | 692.9 | 2016.4 | 2972.5 |
| 82.5° | 162.8 | 168.5 | 213.9 | 257.5 | 346.5 | 497.9 | 323.8 | 433.6 | 454.4 | 893.6 | 1198.5 |
| 85° | 109.8 | 109.8 | 147.7 | 170.4 | 223.4 | 314.3 | 261.3 | 293.5 | 306.7 | 424.1 | 323.8 |
| 87.5° | 47.3 | 47.3 | 79.5 | 87.1 | 117.4 | 145.8 | 195.0 | 147.7 | 151.5 | 229.1 | 132.5 |
| 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° | 1817.6 | 1817.6 | 1817.6 | 1817.6 | 1817.6 | 1817.6 | 1817.6 | 1817.6 | 1817.6 | 1817.6 | 1817.6 |
| 2.5° | 1810.0 | 1811.9 | 1815.7 | 1827.0 | 1834.6 | 1846.0 | 1851.6 | 1859.2 | 1859.2 | 1855.4 | 1857.3 |
| 5° | 1806.2 | 1811.9 | 1825.1 | 1846.0 | 1859.2 | 1880.0 | 1895.2 | 1906.5 | 1910.3 | 1906.5 | 1908.4 |
| 7.5° | 1804.3 | 1813.8 | 1836.5 | 1866.8 | 1885.7 | 1912.2 | 1933.0 | 1946.3 | 1955.8 | 1952.0 | 1953.9 |
| 10° | 1798.6 | 1813.8 | 1842.2 | 1880.0 | 1908.4 | 1934.9 | 1953.9 | 1959.6 | 1965.2 | 1961.4 | 1959.6 |
| 12.5° | 1806.2 | 1823.2 | 1853.5 | 1899.0 | 1931.2 | 1952.0 | 1957.7 | 1948.2 | 1934.9 | 1927.4 | 1925.5 |
| 15° | 1821.3 | 1838.4 | 1868.7 | 1916.0 | 1944.4 | 1952.0 | 1938.7 | 1908.4 | 1878.1 | 1861.1 | 1859.2 |
| 17.5° | 1842.2 | 1853.5 | 1878.1 | 1919.8 | 1942.5 | 1933.0 | 1906.5 | 1870.6 | 1847.8 | 1834.6 | 1836.5 |
| 20° | 1855.4 | 1855.4 | 1874.4 | 1906.5 | 1925.5 | 1917.9 | 1885.7 | 1846.0 | 1810.0 | 1792.9 | 1787.3 |
| 22.5° | 1874.4 | 1864.9 | 1866.8 | 1895.2 | 1921.7 | 1910.3 | 1842.2 | 1772.1 | 1721.0 | 1702.1 | 1700.2 |
| 25° | 1925.5 | 1899.0 | 1881.9 | 1899.0 | 1961.4 | 1868.7 | 1732.4 | 1650.9 | 1603.6 | 1586.6 | 1588.5 |
| 27.5° | 1988.0 | 1952.0 | 1916.0 | 1944.4 | 1993.6 | 1774.0 | 1592.3 | 1499.5 | 1471.1 | 1457.8 | 1463.5 |
| 30° | 2050.4 | 2003.1 | 1955.8 | 2058.0 | 1970.9 | 1626.3 | 1412.4 | 1321.5 | 1296.9 | 1287.4 | 1295.0 |
| 32.5° | 2165.9 | 2088.3 | 2031.5 | 2209.5 | 1900.9 | 1457.8 | 1217.4 | 1134.1 | 1111.4 | 1100.0 | 1096.2 |
| 35° | 2359.0 | 2260.6 | 2203.8 | 2342.0 | 1802.4 | 1270.4 | 1039.4 | 980.7 | 956.1 | 931.5 | 927.7 |
| 37.5° | 2637.4 | 2518.1 | 2467.0 | 2417.7 | 1664.2 | 1084.9 | 903.1 | 863.3 | 827.4 | 789.5 | 787.6 |
| 40° | 2970.6 | 2815.3 | 2777.5 | 2451.8 | 1473.0 | 910.7 | 808.4 | 770.6 | 725.1 | 689.2 | 691.1 |
| 42.5° | 3354.9 | 3156.1 | 3074.7 | 2442.3 | 1236.3 | 817.9 | 740.3 | 698.6 | 658.9 | 626.7 | 624.8 |
| 45° | 3765.8 | 3540.4 | 3353.0 | 2376.1 | 1001.5 | 753.5 | 698.6 | 649.4 | 609.6 | 573.7 | 569.9 |
| 47.5° | 4220.1 | 3968.3 | 3610.5 | 2247.3 | 827.4 | 708.1 | 674.0 | 604.0 | 568.0 | 545.3 | 545.3 |
| 50° | 4678.3 | 4377.3 | 3847.2 | 2052.3 | 725.1 | 674.0 | 638.0 | 579.3 | 550.9 | 532.0 | 532.0 |
| 52.5° | 5070.2 | 4803.3 | 4042.2 | 1819.5 | 660.8 | 645.6 | 613.4 | 568.0 | 537.7 | 520.7 | 518.8 |
| 55° | 5450.8 | 5199.0 | 4216.4 | 1588.5 | 607.7 | 607.7 | 607.7 | 558.5 | 524.4 | 509.3 | 507.4 |
| 57.5° | 5829.4 | 5615.5 | 4398.1 | 1437.0 | 560.4 | 575.6 | 596.4 | 547.2 | 513.1 | 499.8 | 497.9 |
| 60° | 6257.3 | 6115.3 | 4608.3 | 1331.0 | 518.8 | 541.5 | 581.2 | 533.9 | 494.1 | 482.8 | 480.9 |
| 62.5° | 6711.7 | 6711.7 | 4799.5 | 1181.4 | 480.9 | 513.1 | 558.5 | 516.9 | 477.1 | 467.6 | 465.7 |
| 65° | 7067.6 | 7221.0 | 4922.6 | 958.0 | 443.0 | 484.7 | 532.0 | 494.1 | 454.4 | 452.5 | 448.7 |
| 67.5° | 7109.3 | 7349.7 | 4844.9 | 723.2 | 409.0 | 454.4 | 505.5 | 469.5 | 431.7 | 431.7 | 426.0 |
| 70° | 6810.2 | 7054.4 | 4602.6 | 541.5 | 384.3 | 424.1 | 471.4 | 439.2 | 403.3 | 407.1 | 397.6 |
| 72.5° | 6310.3 | 6370.9 | 4000.5 | 427.9 | 355.9 | 391.9 | 429.8 | 405.2 | 373.0 | 373.0 | 359.7 |
| 75° | 5651.5 | 5314.5 | 2906.2 | 357.8 | 321.9 | 354.0 | 388.1 | 367.3 | 338.9 | 329.4 | 321.9 |
| 77.5° | 4498.5 | 3850.9 | 1688.8 | 308.6 | 293.5 | 318.1 | 340.8 | 325.6 | 301.0 | 280.2 | 280.2 |
| 80° | 2741.5 | 2256.8 | 746.0 | 267.0 | 259.4 | 278.3 | 293.5 | 276.4 | 255.6 | 234.8 | 229.1 |
| 82.5° | 1043.2 | 870.9 | 361.6 | 229.1 | 227.2 | 238.6 | 249.9 | 232.9 | 217.7 | 208.3 | 179.9 |
| 85° | 285.9 | 263.2 | 248.0 | 191.2 | 187.4 | 185.5 | 198.8 | 191.2 | 170.4 | 140.1 | 125.0 |
| 87.5° | 107.9 | 123.1 | 134.4 | 117.4 | 125.0 | 115.5 | 132.5 | 121.2 | 107.9 | 70.1 | 62.5 |
| 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)