

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: P482833

Luminaire Tested: **IFLD-S-SA2C-740-U-T3R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482833
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-740-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

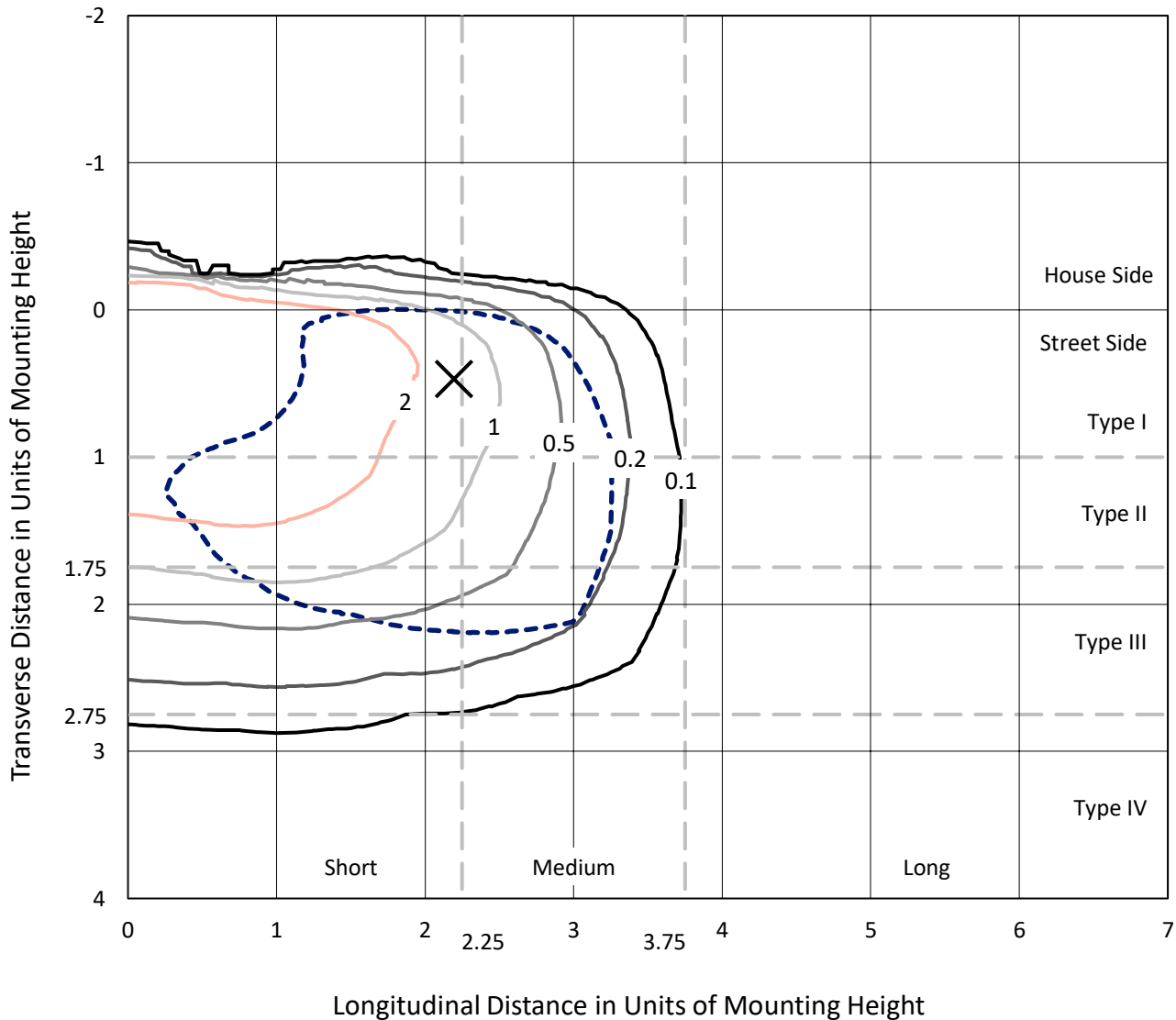
Lumens per Lamp: N/A
Luminaire Lumens: 10188.4 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2
Input Voltage (V): 120
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

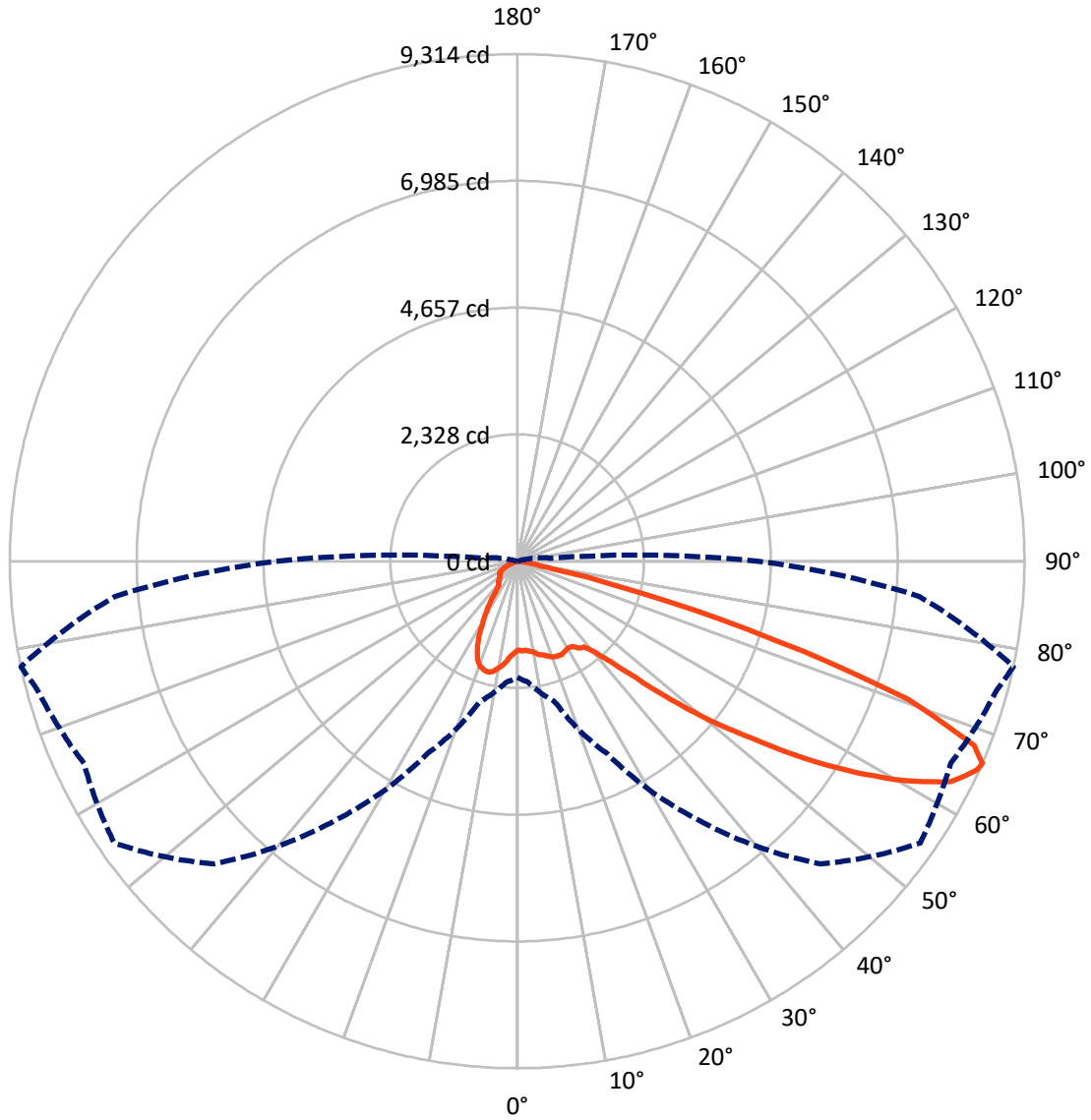
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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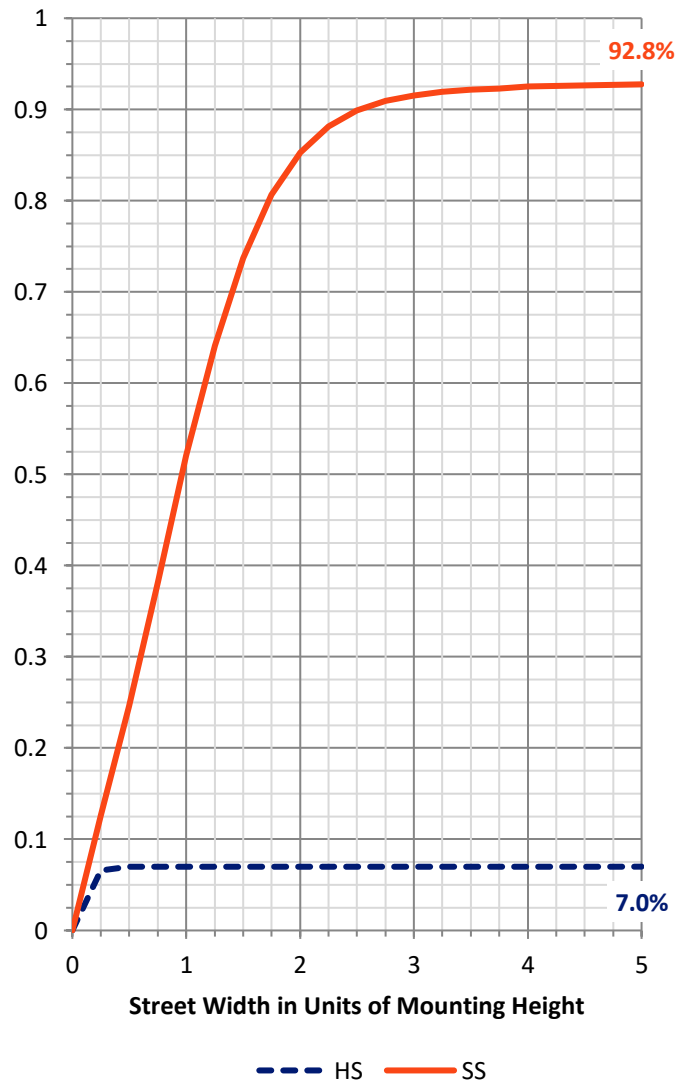
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 716.3 | 0.0 | 716.3 |
| | % Fixture | 7.0 | 0.0 | 7.0 |
| Street Side | Lumens | 9472.2 | 0.0 | 9472.2 |
| | % Fixture | 93.0 | 0.0 | 93.0 |
| Total | Lumens | 10188.4 | 0.0 | 10188.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 149.3 | 1.5 |
| 10°-20° | 337.0 | 3.3 |
| 20°-30° | 481.7 | 4.7 |
| 30°-40° | 824.5 | 8.1 |
| 40°-50° | 1488.2 | 14.6 |
| 50°-60° | 2544.9 | 25.0 |
| 60°-70° | 3132.4 | 30.7 |
| 70°-80° | 1184.2 | 11.6 |
| 80°-90° | 46.3 | 0.5 |
| 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° | 10188.4 | 100.0 |
| 0°-180° | 10188.4 | 100.0 |

Coefficient of Utilization

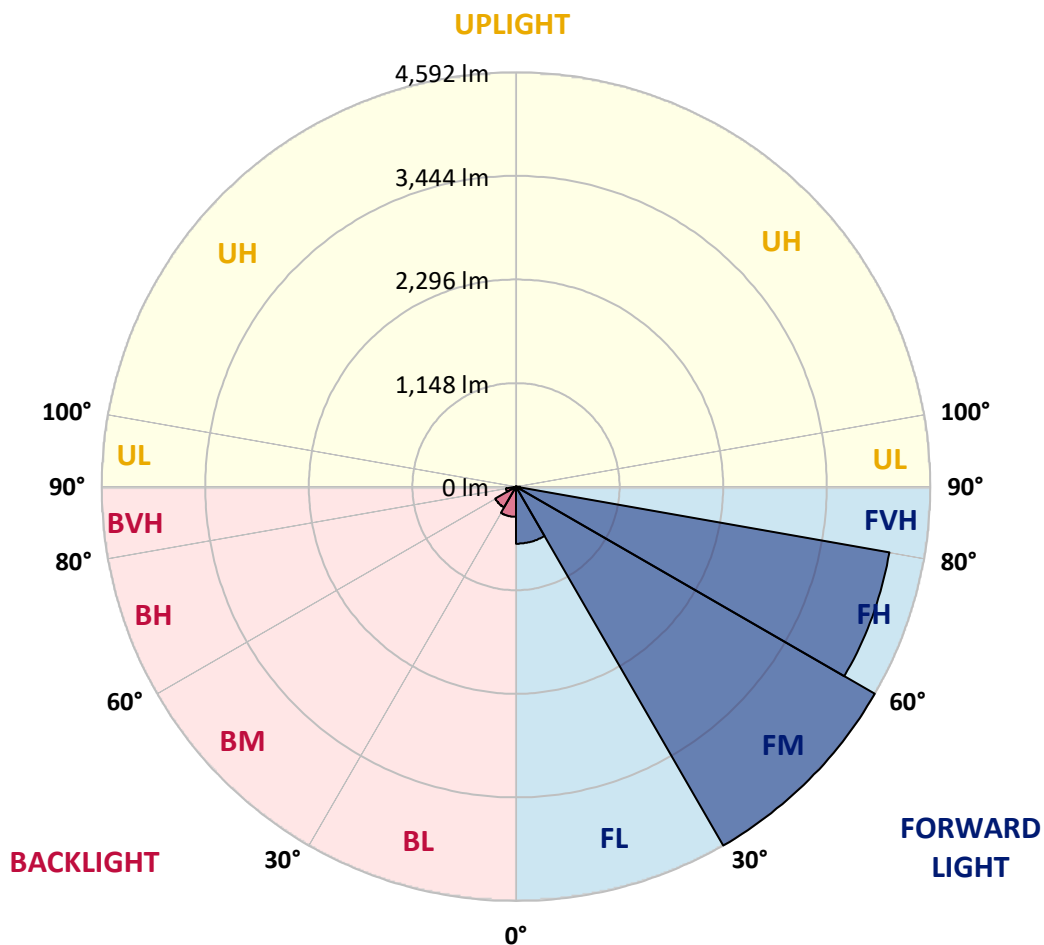


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 632.5 | 6.2 | | | |
| FM (30°-60°) | 4592.1 | 45.1 | | | |
| FH (60°-80°) | 4203.1 | 41.3 | | | G2/5000 |
| FVH (80°-90°) | 44.4 | 0.4 | | | G1/100 |
| BL (0°-30°) | 335.5 | 3.3 | B1/500 | | |
| BM (30°-60°) | 265.5 | 2.6 | B1/1000 | | |
| BH (60°-80°) | 113.5 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.9 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 78° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1631.9 | 1631.9 | 1631.9 | 1631.9 | 1631.9 | 1631.9 | 1631.9 | 1631.9 | 1631.9 | 1631.9 | 1631.9 |
| 2.5° | 1501.0 | 1487.1 | 1501.0 | 1521.0 | 1531.8 | 1541.0 | 1573.4 | 1601.1 | 1630.3 | 1650.3 | 1644.2 |
| 5° | 1391.7 | 1417.9 | 1420.9 | 1427.1 | 1444.0 | 1499.5 | 1517.9 | 1565.7 | 1638.0 | 1644.2 | 1671.9 |
| 7.5° | 1305.5 | 1297.8 | 1317.8 | 1357.8 | 1400.9 | 1433.3 | 1487.1 | 1570.3 | 1645.7 | 1671.9 | 1725.8 |
| 10° | 1180.8 | 1196.2 | 1217.7 | 1257.8 | 1310.1 | 1390.2 | 1485.6 | 1578.0 | 1685.7 | 1695.0 | 1795.0 |
| 12.5° | 1113.0 | 1097.7 | 1131.5 | 1173.1 | 1262.4 | 1336.3 | 1453.3 | 1564.1 | 1710.4 | 1761.2 | 1876.6 |
| 15° | 1057.6 | 1065.3 | 1097.7 | 1125.4 | 1199.3 | 1293.2 | 1430.2 | 1598.0 | 1751.9 | 1787.3 | 1962.8 |
| 17.5° | 1034.5 | 1029.9 | 1054.5 | 1082.3 | 1173.1 | 1279.3 | 1420.9 | 1599.5 | 1788.9 | 1835.1 | 2021.3 |
| 20° | 1045.3 | 1054.5 | 1046.9 | 1073.0 | 1130.0 | 1237.7 | 1434.8 | 1628.8 | 1816.6 | 1879.7 | 2084.5 |
| 22.5° | 1214.7 | 1202.3 | 1140.8 | 1091.5 | 1094.6 | 1220.8 | 1424.0 | 1647.3 | 1841.2 | 1892.0 | 2127.6 |
| 25° | 1656.5 | 1590.3 | 1437.9 | 1248.5 | 1123.8 | 1174.6 | 1411.7 | 1641.1 | 1836.6 | 1899.7 | 2153.7 |
| 27.5° | 2101.4 | 2044.4 | 1895.1 | 1601.1 | 1242.4 | 1156.2 | 1368.6 | 1645.7 | 1813.5 | 1872.0 | 2110.6 |
| 30° | 2570.9 | 2601.7 | 2380.0 | 2030.6 | 1553.3 | 1257.8 | 1340.9 | 1621.1 | 1798.1 | 1847.4 | 2119.9 |
| 32.5° | 3052.8 | 3040.5 | 2906.6 | 2527.8 | 1998.3 | 1482.5 | 1385.5 | 1645.7 | 1818.1 | 1865.9 | 2173.8 |
| 35° | 3430.0 | 3386.9 | 3251.4 | 2909.6 | 2366.2 | 1821.2 | 1539.5 | 1762.7 | 1905.9 | 1962.8 | 2250.7 |
| 37.5° | 3616.3 | 3634.7 | 3556.2 | 3259.1 | 2769.5 | 2135.3 | 1731.9 | 1762.7 | 1933.6 | 1999.8 | 2375.4 |
| 40° | 3761.0 | 3816.4 | 3787.1 | 3691.7 | 3169.8 | 2489.4 | 1944.4 | 1872.0 | 2073.7 | 2198.4 | 2609.4 |
| 42.5° | 3934.9 | 3908.8 | 4081.2 | 3993.4 | 3693.2 | 2935.8 | 2316.9 | 2132.2 | 2404.7 | 2524.8 | 2960.4 |
| 45° | 4027.3 | 4127.4 | 4258.2 | 4370.6 | 4178.2 | 3493.1 | 2803.4 | 2592.5 | 2911.2 | 3063.6 | 3482.3 |
| 47.5° | 4264.4 | 4304.4 | 4516.9 | 4658.5 | 4572.3 | 4130.4 | 3542.4 | 3265.3 | 3548.5 | 3788.7 | 4079.6 |
| 50° | 4402.9 | 4349.1 | 4646.2 | 4861.7 | 4911.0 | 4658.5 | 4204.3 | 3988.8 | 4305.9 | 4612.3 | 4638.5 |
| 52.5° | 4281.3 | 4435.3 | 4732.4 | 5118.8 | 5255.8 | 5129.6 | 4981.8 | 4887.9 | 5111.1 | 5394.4 | 5268.1 |
| 55° | 3854.9 | 3959.6 | 4683.1 | 5400.5 | 5842.4 | 5783.9 | 5920.9 | 5859.3 | 6084.1 | 6384.3 | 6004.0 |
| 57.5° | 3511.6 | 3642.4 | 4278.2 | 5546.8 | 6388.9 | 6561.3 | 6733.7 | 6695.2 | 6966.2 | 7312.6 | 6627.5 |
| 60° | 3297.6 | 3373.0 | 3985.7 | 5509.8 | 6712.2 | 7364.9 | 7754.4 | 7483.5 | 7925.3 | 8190.1 | 7115.5 |
| 62.5° | 2926.6 | 2974.3 | 3559.3 | 5020.3 | 6809.2 | 7933.0 | 8593.4 | 8225.5 | 8608.8 | 8932.1 | 7466.5 |
| 65° | 2346.2 | 2475.5 | 2958.9 | 4287.5 | 6168.7 | 8037.7 | 9116.8 | 8684.3 | 9055.3 | 9267.7 | 7572.7 |
| 66° | 2135.3 | 2229.2 | 2672.6 | 3899.5 | 5803.9 | 7863.7 | 9029.1 | 8779.7 | 9119.9 | 9313.9 | 7409.6 |
| 67.5° | 1772.0 | 1853.5 | 2206.1 | 3346.8 | 5057.2 | 7480.4 | 9090.7 | 8715.0 | 9169.2 | 9050.7 | 7190.9 |
| 70° | 1173.1 | 1225.4 | 1508.7 | 2263.0 | 3522.3 | 6119.5 | 8431.8 | 8210.1 | 8060.8 | 7615.8 | 5622.2 |
| 72.5° | 548.1 | 623.5 | 942.2 | 1371.7 | 2066.0 | 4281.3 | 6875.4 | 6578.2 | 5653.0 | 4941.8 | 3547.0 |
| 75° | 247.9 | 281.7 | 517.3 | 786.7 | 926.8 | 2218.4 | 4435.3 | 4005.7 | 2814.2 | 2336.9 | 1553.3 |
| 77.5° | 133.9 | 152.4 | 252.5 | 374.1 | 337.1 | 777.4 | 2195.3 | 1825.8 | 886.7 | 649.7 | 451.1 |
| 80° | 103.1 | 121.6 | 210.9 | 214.0 | 124.7 | 201.7 | 815.9 | 565.0 | 221.7 | 167.8 | 107.8 |
| 82.5° | 53.9 | 77.0 | 166.3 | 138.6 | 63.1 | 81.6 | 252.5 | 157.0 | 69.3 | 55.4 | 46.2 |
| 85° | 21.6 | 33.9 | 93.9 | 92.4 | 36.9 | 27.7 | 70.8 | 47.7 | 27.7 | 23.1 | 21.6 |
| 87.5° | 1.5 | 1.5 | 50.8 | 35.4 | 23.1 | 7.7 | 10.8 | 10.8 | 13.9 | 12.3 | 15.4 |
| 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° | 1631.9 | 1631.9 | 1631.9 | 1631.9 | 1631.9 | 1631.9 | 1631.9 | 1631.9 | 1631.9 | 1631.9 | 1631.9 |
| 2.5° | 1671.9 | 1690.4 | 1693.4 | 1744.2 | 1755.0 | 1744.2 | 1772.0 | 1767.3 | 1779.6 | 1770.4 | 1753.5 |
| 5° | 1710.4 | 1736.5 | 1787.3 | 1825.8 | 1825.8 | 1795.0 | 1770.4 | 1738.1 | 1690.4 | 1678.0 | 1668.8 |
| 7.5° | 1776.6 | 1859.7 | 1905.9 | 1881.3 | 1832.0 | 1716.5 | 1556.4 | 1439.4 | 1340.9 | 1303.9 | 1287.0 |
| 10° | 1893.6 | 1939.8 | 1993.6 | 1893.6 | 1688.8 | 1444.0 | 1174.6 | 997.6 | 859.0 | 828.2 | 805.2 |
| 12.5° | 1969.0 | 2042.9 | 2073.7 | 1825.8 | 1424.0 | 1059.2 | 766.7 | 566.5 | 469.5 | 395.6 | 383.3 |
| 15° | 2067.5 | 2152.2 | 2089.1 | 1642.6 | 1122.3 | 694.3 | 397.2 | 247.9 | 201.7 | 189.4 | 189.4 |
| 17.5° | 2135.3 | 2227.6 | 2026.0 | 1414.8 | 795.9 | 369.5 | 197.1 | 170.9 | 167.8 | 169.3 | 166.3 |
| 20° | 2253.8 | 2309.2 | 1930.5 | 1150.0 | 475.7 | 189.4 | 158.6 | 152.4 | 149.3 | 153.9 | 150.9 |
| 22.5° | 2298.5 | 2349.3 | 1775.0 | 832.9 | 214.0 | 126.2 | 118.5 | 113.9 | 117.0 | 115.5 | 113.9 |
| 25° | 2295.4 | 2321.5 | 1519.5 | 477.2 | 63.1 | 49.3 | 44.6 | 44.6 | 41.6 | 43.1 | 41.6 |
| 27.5° | 2318.5 | 2253.8 | 1233.1 | 141.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 2330.8 | 2144.5 | 877.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 2336.9 | 2087.5 | 565.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 2384.7 | 1973.6 | 241.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 2417.0 | 1827.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 2550.9 | 1781.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 2724.9 | 1695.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 2966.6 | 1567.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 3286.8 | 1491.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 3525.4 | 1373.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 3828.7 | 1302.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 4188.9 | 1305.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 4516.9 | 1283.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 4684.7 | 1097.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 4649.3 | 888.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 4526.1 | 697.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 66° | 4441.4 | 617.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 4184.3 | 494.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 3329.9 | 338.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2118.3 | 207.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 976.0 | 95.4 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 306.4 | 58.5 | 12.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 80.1 | 36.9 | 12.3 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 41.6 | 26.2 | 10.8 | 4.6 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 26.2 | 10.8 | 4.6 | 3.1 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 23.1 | 6.2 | 3.1 | 3.1 | 1.5 | 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)