

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: P483695

Luminaire Tested: **IFLD-S-SA3B-760-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483695
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-760-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

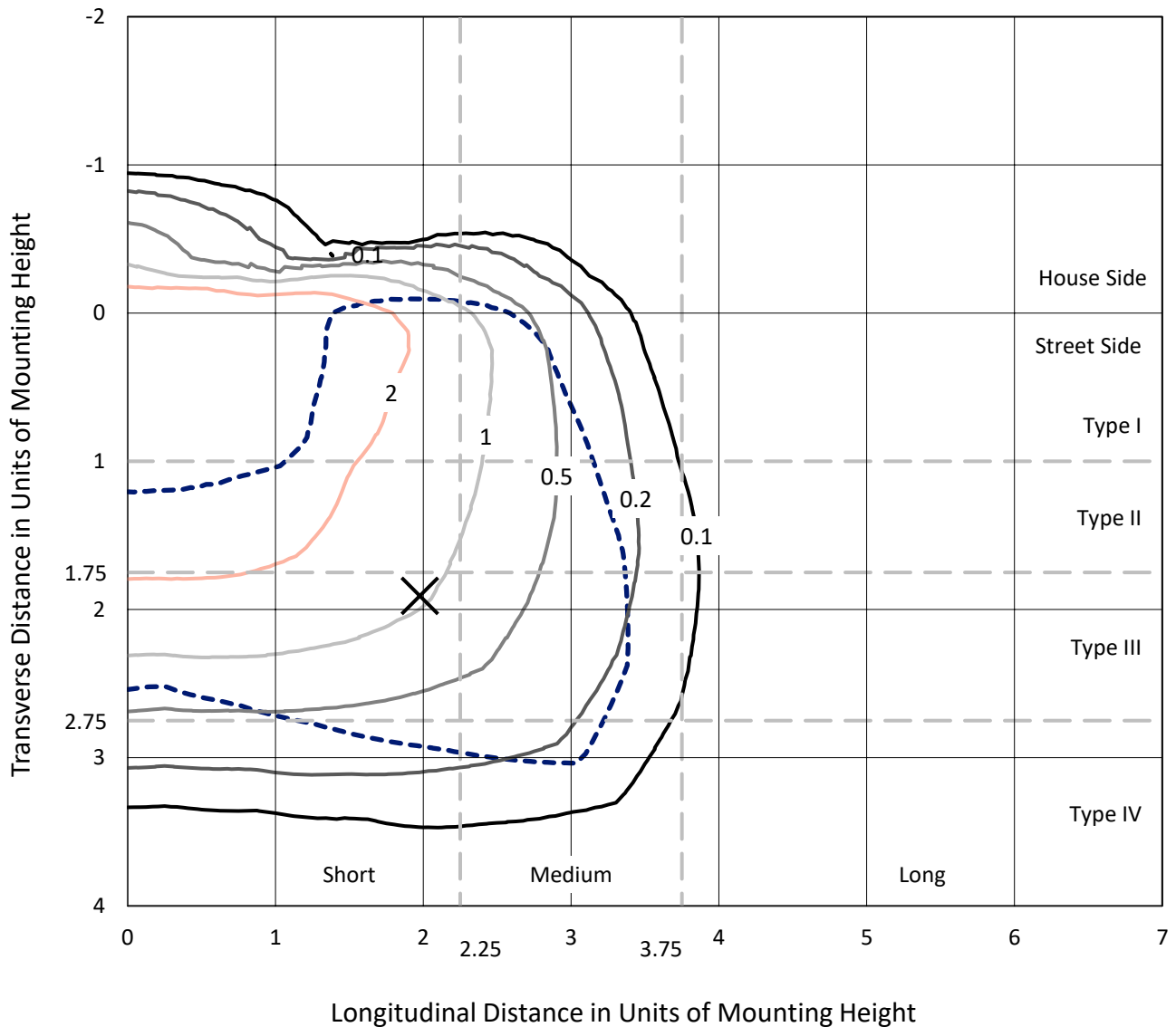
Lumens per Lamp: N/A
Luminaire Lumens: 12842.4 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 122.4
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

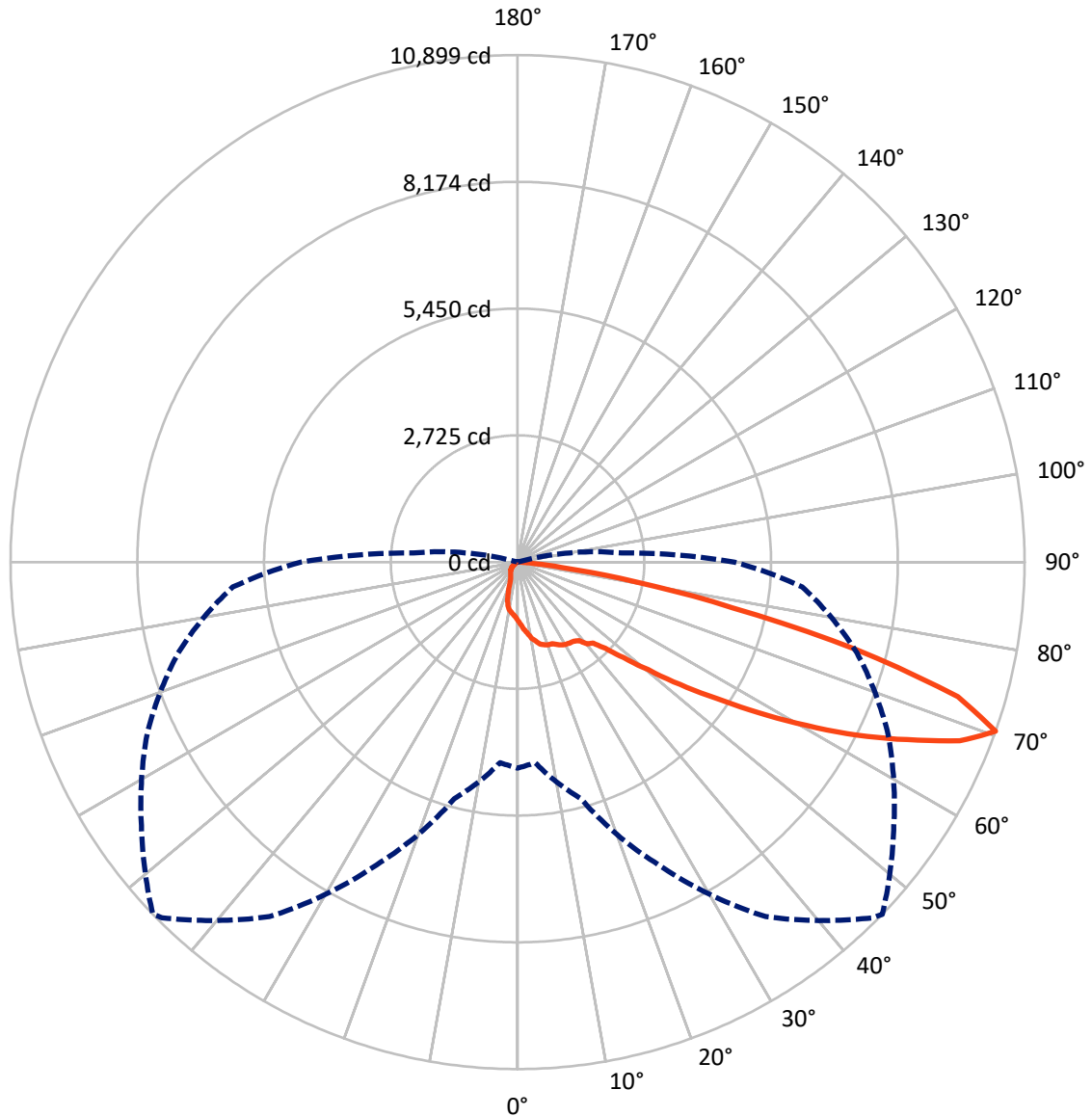
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 fc
 Type 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 | 1277.8 | 0.0 | 1277.8 |
| | % Fixture | 10.0 | 0.0 | 10.0 |
| Street Side | Lumens | 11564.6 | 0.0 | 11564.6 |
| | % Fixture | 90.0 | 0.0 | 90.0 |
| Total | Lumens | 12842.4 | 0.0 | 12842.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 125.7 | 1.0 |
| 10°-20° | 379.6 | 3.0 |
| 20°-30° | 608.1 | 4.7 |
| 30°-40° | 868.0 | 6.8 |
| 40°-50° | 1498.7 | 11.7 |
| 50°-60° | 2869.5 | 22.3 |
| 60°-70° | 4249.2 | 33.1 |
| 70°-80° | 2104.6 | 16.4 |
| 80°-90° | 139.1 | 1.1 |
| 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° | 12842.4 | 100.0 |
| 0°-180° | 12842.4 | 100.0 |

Coefficient of Utilization



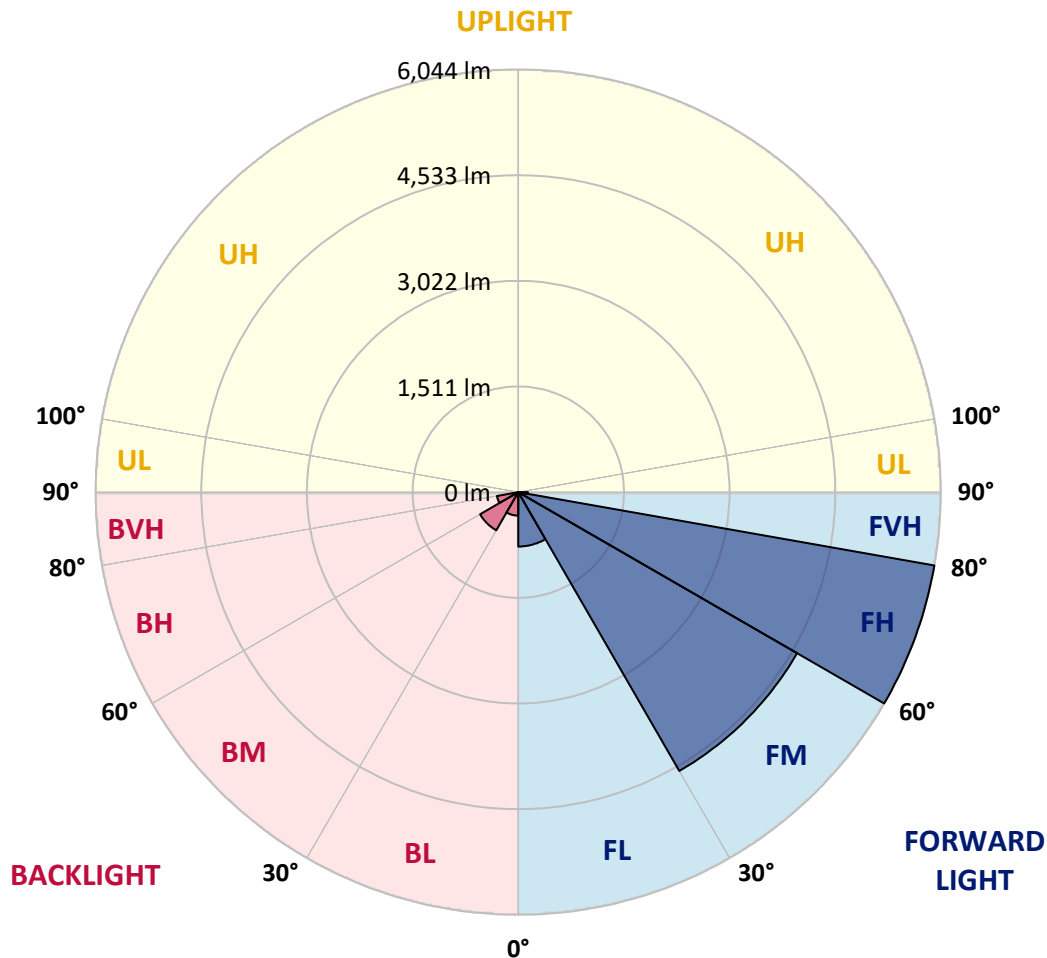
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 777.7 | 6.1 | | | |
| FM (30°-60°) | 4605.3 | 35.9 | | | |
| FH (60°-80°) | 6044.3 | 47.1 | | | G3/7500 |
| FVH (80°-90°) | 137.3 | 1.1 | | | G2/225 |
| BL (0°-30°) | 335.7 | 2.6 | B1/500 | | |
| BM (30°-60°) | 630.9 | 4.9 | B1/1000 | | |
| BH (60°-80°) | 309.5 | 2.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.8 | 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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|
| 0° | 1260.7 | 1260.7 | 1260.7 | 1260.7 | 1260.7 | 1260.7 | 1260.7 | 1260.7 | 1260.7 | 1260.7 | 1260.7 |
| 2.5° | 1406.8 | 1397.5 | 1382.7 | 1377.2 | 1362.4 | 1355.0 | 1343.9 | 1338.4 | 1318.0 | 1297.7 | 1284.8 |
| 5° | 1578.7 | 1556.5 | 1563.9 | 1541.7 | 1493.6 | 1454.8 | 1453.0 | 1410.5 | 1364.2 | 1327.3 | 1277.4 |
| 7.5° | 1752.4 | 1734.0 | 1706.2 | 1674.8 | 1621.2 | 1563.9 | 1547.3 | 1506.6 | 1441.9 | 1377.2 | 1310.6 |
| 10° | 1883.7 | 1870.8 | 1846.7 | 1802.4 | 1728.4 | 1663.7 | 1665.6 | 1597.2 | 1528.8 | 1454.8 | 1364.2 |
| 12.5° | 1965.0 | 1970.6 | 1935.5 | 1891.1 | 1826.4 | 1745.1 | 1743.2 | 1697.0 | 1619.3 | 1541.7 | 1434.5 |
| 15° | 2046.4 | 2066.7 | 2013.1 | 1961.3 | 1878.1 | 1819.0 | 1830.1 | 1774.6 | 1698.8 | 1610.1 | 1491.8 |
| 17.5° | 2059.3 | 2064.9 | 2053.8 | 1978.0 | 1917.0 | 1867.1 | 1868.9 | 1831.9 | 1774.6 | 1678.5 | 1576.8 |
| 20° | 2037.1 | 2033.4 | 2020.5 | 1965.0 | 1924.4 | 1894.8 | 1896.6 | 1887.4 | 1856.0 | 1778.3 | 1639.7 |
| 22.5° | 1972.4 | 1972.4 | 1955.8 | 1918.8 | 1900.3 | 1928.1 | 1905.9 | 1941.0 | 1907.7 | 1861.5 | 1746.9 |
| 25° | 1920.7 | 1941.0 | 1931.8 | 1907.7 | 1915.1 | 1952.1 | 1963.2 | 1996.5 | 1990.9 | 1933.6 | 1820.8 |
| 27.5° | 1976.1 | 1952.1 | 1957.6 | 1929.9 | 1957.6 | 2013.1 | 2018.6 | 2042.7 | 2040.8 | 1994.6 | 1887.4 |
| 30° | 2013.1 | 2035.3 | 1992.8 | 1931.8 | 1961.3 | 2055.6 | 2051.9 | 2083.3 | 2098.1 | 2042.7 | 1950.2 |
| 32.5° | 2131.4 | 2112.9 | 2077.8 | 1996.5 | 2000.2 | 2053.8 | 2070.4 | 2111.1 | 2120.3 | 2087.0 | 2011.2 |
| 35° | 2373.6 | 2345.8 | 2192.4 | 2070.4 | 2051.9 | 2077.8 | 2088.9 | 2168.4 | 2185.0 | 2148.0 | 2075.9 |
| 37.5° | 2747.0 | 2684.1 | 2499.3 | 2229.4 | 2146.2 | 2140.6 | 2140.6 | 2246.0 | 2308.9 | 2223.8 | 2172.1 |
| 40° | 3281.2 | 3192.5 | 2992.8 | 2523.3 | 2270.0 | 2292.2 | 2314.4 | 2371.7 | 2364.3 | 2308.9 | 2297.8 |
| 42.5° | 3961.5 | 3893.1 | 3676.8 | 3016.9 | 2506.7 | 2395.7 | 2377.3 | 2454.9 | 2571.4 | 2549.2 | 2541.8 |
| 45° | 4529.0 | 4532.7 | 4394.1 | 3693.4 | 2915.2 | 2634.2 | 2647.2 | 2706.3 | 2902.3 | 2885.6 | 2883.8 |
| 47.5° | 4943.1 | 4891.3 | 4871.0 | 4346.0 | 3510.4 | 3087.1 | 3068.6 | 3109.3 | 3364.4 | 3469.8 | 3517.8 |
| 50° | 5320.2 | 5285.1 | 5237.0 | 4980.1 | 4225.8 | 3654.6 | 3636.1 | 3639.8 | 4029.9 | 4177.8 | 4296.1 |
| 52.5° | 5787.9 | 5832.2 | 5673.3 | 5516.1 | 5152.0 | 4392.2 | 4371.9 | 4299.8 | 4784.1 | 4987.4 | 5127.9 |
| 55° | 6364.6 | 6281.4 | 6102.1 | 6183.5 | 6037.4 | 5188.9 | 5152.0 | 5066.9 | 5643.7 | 5728.7 | 5876.6 |
| 57.5° | 6492.2 | 6429.3 | 6614.2 | 6902.6 | 7043.1 | 6124.3 | 6109.5 | 5956.1 | 6366.5 | 6288.8 | 6706.6 |
| 60° | 6810.1 | 6826.8 | 7083.7 | 7656.8 | 7900.8 | 7203.9 | 7131.8 | 6861.9 | 7067.1 | 7081.9 | 7527.4 |
| 62.5° | 7137.3 | 7098.5 | 7673.4 | 8224.3 | 8599.6 | 8226.1 | 8202.1 | 7666.0 | 7898.9 | 7710.4 | 8300.1 |
| 65° | 6897.0 | 6956.2 | 7778.8 | 8701.2 | 9505.4 | 9226.2 | 9205.9 | 8440.6 | 8568.1 | 8333.4 | 8614.3 |
| 67.5° | 6043.0 | 5922.8 | 7074.5 | 8483.1 | 9971.2 | 10274.4 | 10252.2 | 9285.4 | 8945.2 | 8329.7 | 7961.8 |
| 70° | 4429.2 | 4325.7 | 5264.7 | 7183.5 | 9303.9 | 10810.4 | 10899.2 | 9873.2 | 8791.8 | 7553.3 | 6142.8 |
| 72.5° | 2170.2 | 2172.1 | 2950.3 | 4871.0 | 7361.0 | 9852.9 | 9897.3 | 9052.5 | 7553.3 | 5567.9 | 3479.0 |
| 75° | 641.5 | 648.8 | 1092.5 | 2388.4 | 4758.2 | 7483.0 | 7532.9 | 6871.1 | 5235.2 | 2876.4 | 1186.8 |
| 77.5° | 234.8 | 234.8 | 362.3 | 896.6 | 2373.6 | 4723.1 | 4719.4 | 4218.4 | 2650.9 | 974.2 | 277.3 |
| 80° | 122.0 | 127.6 | 188.6 | 366.0 | 1027.8 | 2460.4 | 2552.9 | 2064.9 | 1007.5 | 410.4 | 81.3 |
| 82.5° | 49.9 | 55.5 | 103.5 | 188.6 | 493.6 | 863.3 | 944.6 | 809.7 | 438.1 | 286.5 | 37.0 |
| 85° | 14.8 | 16.6 | 49.9 | 105.4 | 194.1 | 216.3 | 240.3 | 271.7 | 275.4 | 221.8 | 16.6 |
| 87.5° | 1.8 | 1.8 | 20.3 | 35.1 | 42.5 | 46.2 | 53.6 | 53.6 | 140.5 | 155.3 | 9.2 |
| 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° | 1260.7 | 1260.7 | 1260.7 | 1260.7 | 1260.7 | 1260.7 | 1260.7 | 1260.7 | 1260.7 | 1260.7 | 1260.7 |
| 2.5° | 1270.0 | 1260.7 | 1245.9 | 1212.7 | 1205.3 | 1181.2 | 1179.4 | 1157.2 | 1164.6 | 1149.8 | 1144.3 |
| 5° | 1260.7 | 1240.4 | 1199.7 | 1173.8 | 1148.0 | 1131.3 | 1120.2 | 1111.0 | 1109.1 | 1101.7 | 1098.1 |
| 7.5° | 1277.4 | 1249.6 | 1186.8 | 1146.1 | 1101.7 | 1087.0 | 1062.9 | 1061.1 | 1048.1 | 1035.2 | 1035.2 |
| 10° | 1332.8 | 1282.9 | 1214.5 | 1146.1 | 1088.8 | 1040.7 | 985.3 | 944.6 | 929.8 | 896.6 | 900.3 |
| 12.5° | 1377.2 | 1332.8 | 1233.0 | 1162.8 | 1075.9 | 966.8 | 844.8 | 750.5 | 706.2 | 663.6 | 680.3 |
| 15° | 1440.0 | 1375.3 | 1268.1 | 1166.4 | 1026.0 | 837.4 | 637.8 | 532.4 | 491.7 | 482.5 | 480.6 |
| 17.5° | 1508.4 | 1440.0 | 1312.5 | 1157.2 | 924.3 | 647.0 | 469.5 | 408.5 | 415.9 | 427.0 | 425.2 |
| 20° | 1584.2 | 1501.0 | 1345.8 | 1125.8 | 763.5 | 469.5 | 384.5 | 382.7 | 393.7 | 410.4 | 414.1 |
| 22.5° | 1663.7 | 1591.6 | 1386.4 | 1031.5 | 569.4 | 377.1 | 369.7 | 369.7 | 377.1 | 397.4 | 393.7 |
| 25° | 1752.4 | 1656.3 | 1406.8 | 885.5 | 408.5 | 347.5 | 351.2 | 358.6 | 362.3 | 379.0 | 380.8 |
| 27.5° | 1820.8 | 1728.4 | 1412.3 | 709.9 | 332.7 | 321.7 | 330.9 | 340.1 | 345.7 | 358.6 | 364.2 |
| 30° | 1883.7 | 1819.0 | 1382.7 | 528.7 | 305.0 | 299.5 | 303.2 | 316.1 | 327.2 | 338.3 | 338.3 |
| 32.5° | 1963.2 | 1870.8 | 1314.3 | 375.3 | 288.4 | 279.1 | 277.3 | 282.8 | 295.8 | 308.7 | 308.7 |
| 35° | 2044.5 | 1957.6 | 1205.3 | 301.3 | 273.6 | 260.6 | 253.3 | 247.7 | 253.3 | 262.5 | 269.9 |
| 37.5° | 2162.8 | 2088.9 | 1068.5 | 277.3 | 262.5 | 244.0 | 229.2 | 216.3 | 207.0 | 205.2 | 210.7 |
| 40° | 2331.0 | 2236.8 | 892.9 | 260.6 | 249.6 | 227.4 | 205.2 | 183.0 | 162.7 | 149.7 | 151.6 |
| 42.5° | 2586.2 | 2454.9 | 702.5 | 251.4 | 240.3 | 208.9 | 177.5 | 146.0 | 120.2 | 107.2 | 107.2 |
| 45° | 2950.3 | 2743.3 | 515.8 | 242.2 | 229.2 | 186.7 | 146.0 | 109.1 | 83.2 | 75.8 | 77.6 |
| 47.5° | 3499.3 | 3090.8 | 369.7 | 227.4 | 214.4 | 162.7 | 114.6 | 77.6 | 61.0 | 57.3 | 59.2 |
| 50° | 4216.6 | 3503.0 | 288.4 | 210.7 | 195.9 | 136.8 | 85.0 | 57.3 | 48.1 | 46.2 | 48.1 |
| 52.5° | 4969.0 | 3919.0 | 253.3 | 195.9 | 168.2 | 109.1 | 62.9 | 46.2 | 40.7 | 38.8 | 40.7 |
| 55° | 5612.3 | 4187.0 | 220.0 | 173.8 | 134.9 | 81.3 | 49.9 | 40.7 | 35.1 | 29.6 | 29.6 |
| 57.5° | 6263.0 | 4322.0 | 173.8 | 144.2 | 99.8 | 61.0 | 42.5 | 35.1 | 29.6 | 24.0 | 22.2 |
| 60° | 6791.7 | 4418.1 | 123.9 | 107.2 | 70.2 | 48.1 | 37.0 | 31.4 | 24.0 | 18.5 | 16.6 |
| 62.5° | 7139.2 | 4142.6 | 90.6 | 81.3 | 51.8 | 40.7 | 31.4 | 25.9 | 18.5 | 12.9 | 12.9 |
| 65° | 6967.3 | 3761.8 | 70.2 | 57.3 | 38.8 | 31.4 | 25.9 | 18.5 | 12.9 | 7.4 | 5.5 |
| 67.5° | 6251.9 | 3064.9 | 57.3 | 42.5 | 29.6 | 24.0 | 20.3 | 14.8 | 7.4 | 1.8 | 1.8 |
| 70° | 4663.9 | 2246.0 | 46.2 | 31.4 | 24.0 | 18.5 | 14.8 | 9.2 | 3.7 | 1.8 | 0.0 |
| 72.5° | 2551.0 | 1229.3 | 37.0 | 25.9 | 18.5 | 14.8 | 11.1 | 7.4 | 3.7 | 0.0 | 0.0 |
| 75° | 842.9 | 327.2 | 27.7 | 18.5 | 11.1 | 9.2 | 7.4 | 5.5 | 1.8 | 0.0 | 0.0 |
| 77.5° | 203.3 | 85.0 | 22.2 | 16.6 | 9.2 | 5.5 | 3.7 | 1.8 | 1.8 | 0.0 | 0.0 |
| 80° | 62.9 | 35.1 | 16.6 | 11.1 | 7.4 | 5.5 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 25.9 | 16.6 | 7.4 | 7.4 | 5.5 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 12.9 | 9.2 | 5.5 | 3.7 | 3.7 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 9.2 | 3.7 | 1.8 | 1.8 | 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)