

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: P482956

Luminaire Tested: **IFLD-S-SA3D-827-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482956
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-827-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

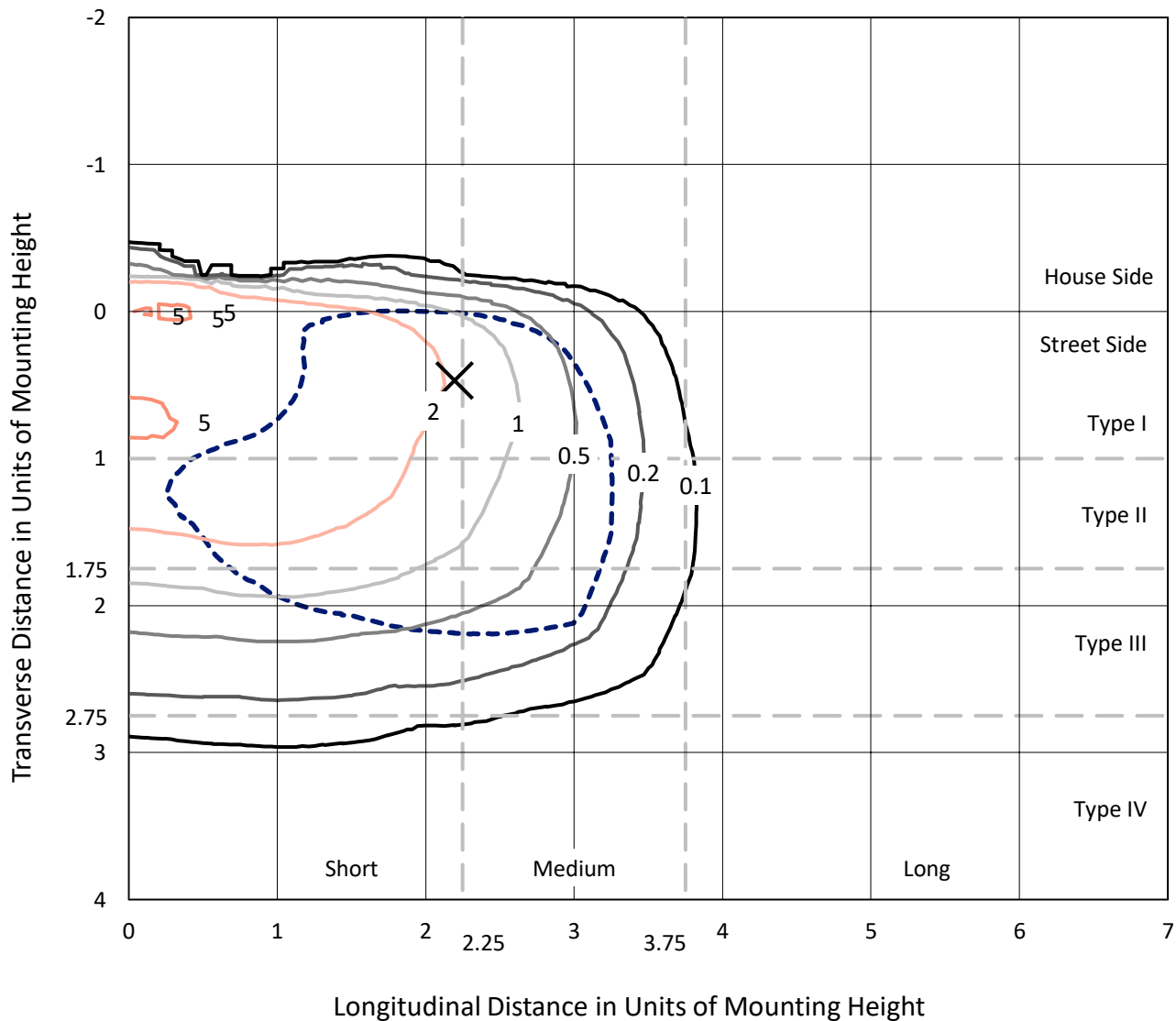
Lumens per Lamp: N/A
Luminaire Lumens: 12281.2 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (A_{in}): 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

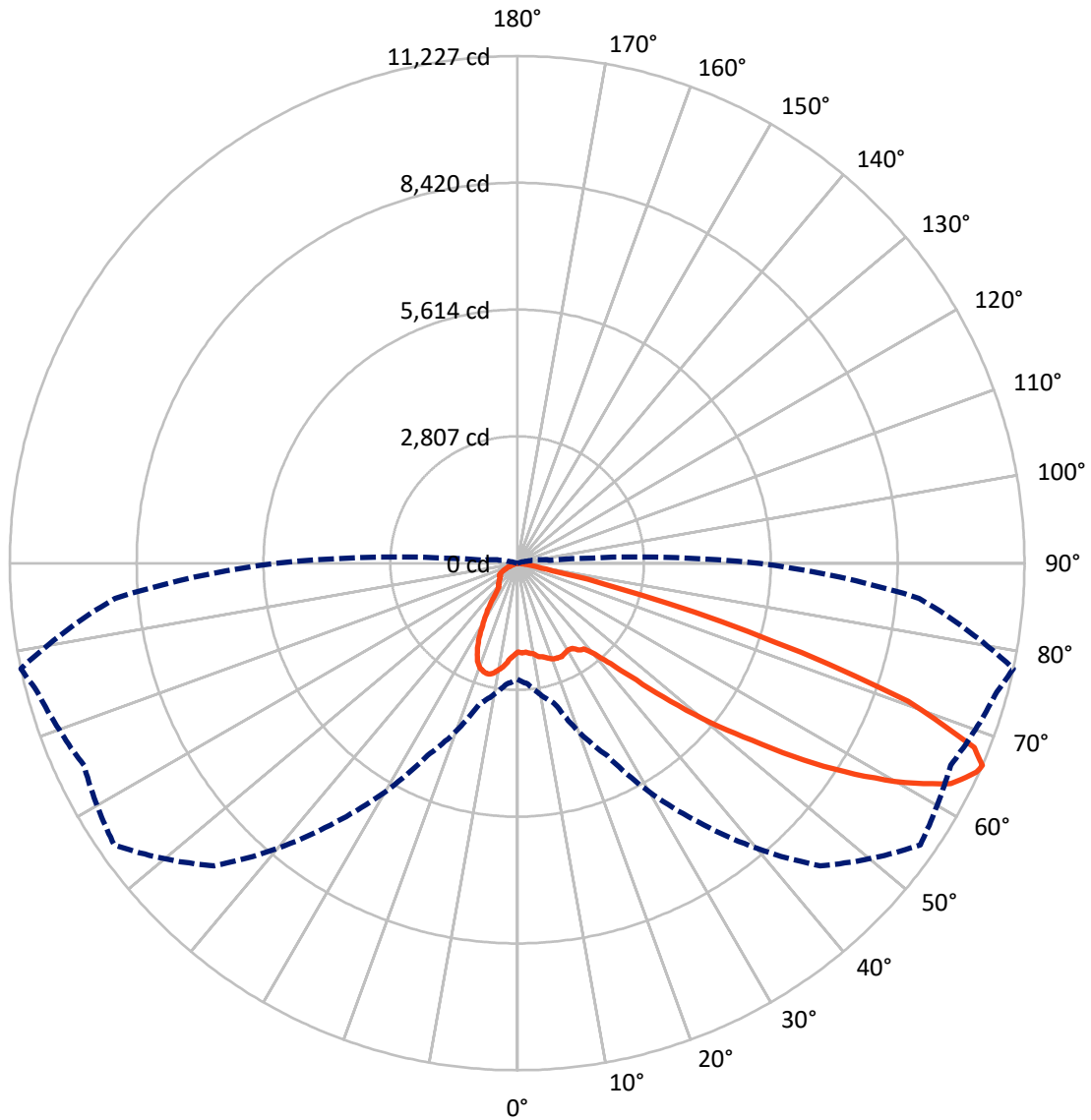
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 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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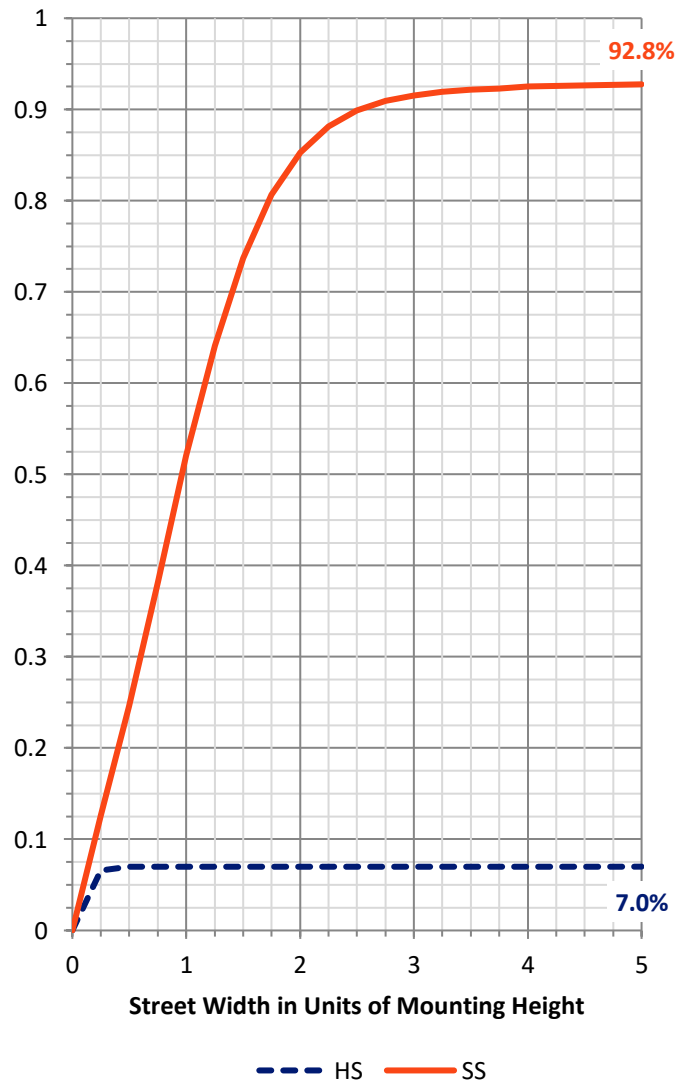
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 863.4 | 0.0 | 863.4 |
| | % Fixture | 7.0 | 0.0 | 7.0 |
| Street Side | Lumens | 11417.8 | 0.0 | 11417.8 |
| | % Fixture | 93.0 | 0.0 | 93.0 |
| Total | Lumens | 12281.2 | 0.0 | 12281.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 180.0 | 1.5 |
| 10°-20° | 406.2 | 3.3 |
| 20°-30° | 580.6 | 4.7 |
| 30°-40° | 993.9 | 8.1 |
| 40°-50° | 1793.8 | 14.6 |
| 50°-60° | 3067.7 | 25.0 |
| 60°-70° | 3775.8 | 30.7 |
| 70°-80° | 1427.5 | 11.6 |
| 80°-90° | 55.8 | 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° | 12281.2 | 100.0 |
| 0°-180° | 12281.2 | 100.0 |

Coefficient of Utilization

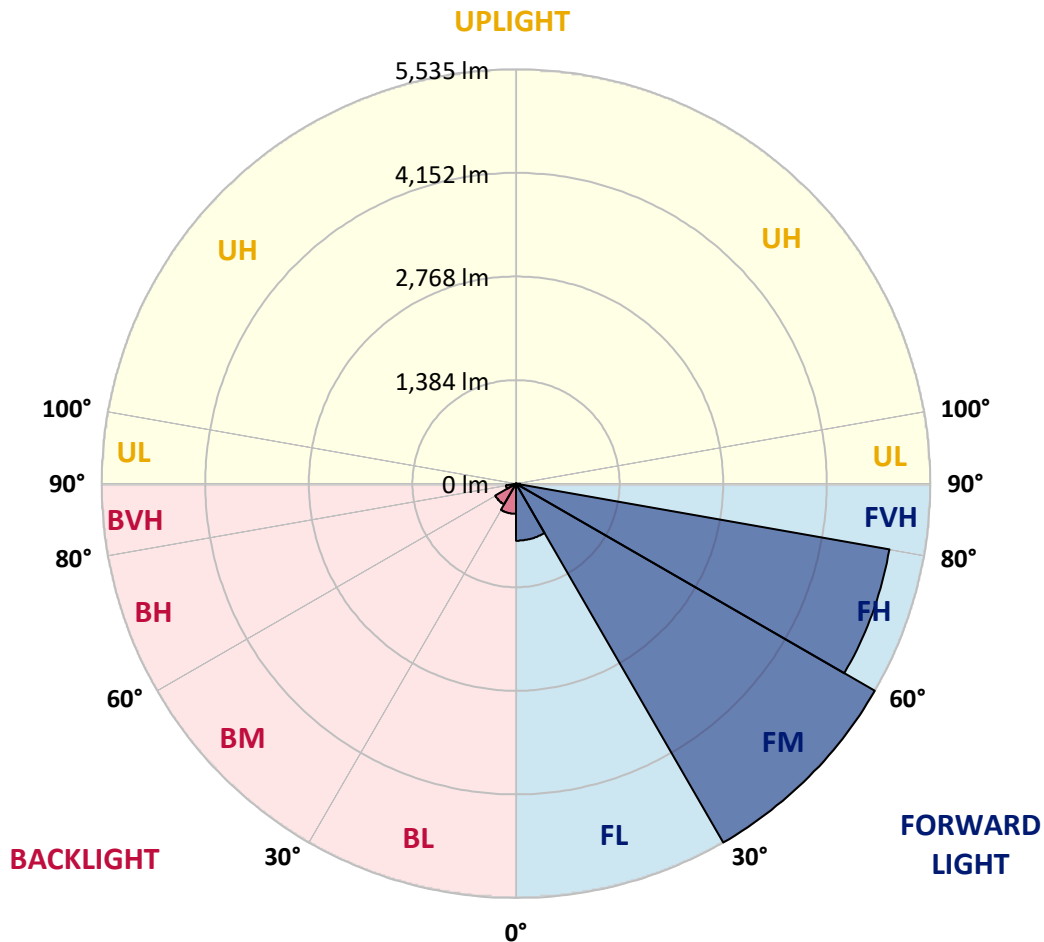


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 762.4 | 6.2 | | | |
| FM (30°-60°) | 5535.4 | 45.1 | | | |
| FH (60°-80°) | 5066.5 | 41.3 | | | G3/7500 |
| FVH (80°-90°) | 53.5 | 0.4 | | | G1/100 |
| BL (0°-30°) | 404.4 | 3.3 | B1/500 | | |
| BM (30°-60°) | 320.0 | 2.6 | B1/1000 | | |
| BH (60°-80°) | 136.8 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 78° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| 0° | 1967.1 | 1967.1 | 1967.1 | 1967.1 | 1967.1 | 1967.1 | 1967.1 | 1967.1 | 1967.1 | 1967.1 | 1967.1 |
| 2.5° | 1809.3 | 1792.6 | 1809.3 | 1833.4 | 1846.4 | 1857.6 | 1896.5 | 1929.9 | 1965.2 | 1989.3 | 1981.9 |
| 5° | 1677.6 | 1709.1 | 1712.8 | 1720.2 | 1740.7 | 1807.5 | 1829.7 | 1887.3 | 1974.5 | 1981.9 | 2015.3 |
| 7.5° | 1573.6 | 1564.4 | 1588.5 | 1636.7 | 1688.7 | 1727.7 | 1792.6 | 1892.8 | 1983.8 | 2015.3 | 2080.3 |
| 10° | 1423.3 | 1441.9 | 1467.9 | 1516.1 | 1579.2 | 1675.7 | 1790.8 | 1902.1 | 2032.0 | 2043.1 | 2163.8 |
| 12.5° | 1341.7 | 1323.1 | 1364.0 | 1414.1 | 1521.7 | 1610.8 | 1751.8 | 1885.4 | 2061.7 | 2122.9 | 2262.1 |
| 15° | 1274.9 | 1284.2 | 1323.1 | 1356.5 | 1445.6 | 1558.8 | 1724.0 | 1926.2 | 2111.8 | 2154.5 | 2366.0 |
| 17.5° | 1247.0 | 1241.5 | 1271.2 | 1304.6 | 1414.1 | 1542.1 | 1712.8 | 1928.1 | 2156.3 | 2212.0 | 2436.6 |
| 20° | 1260.0 | 1271.2 | 1261.9 | 1293.4 | 1362.1 | 1492.0 | 1729.5 | 1963.3 | 2189.7 | 2265.8 | 2512.6 |
| 22.5° | 1464.2 | 1449.3 | 1375.1 | 1315.7 | 1319.4 | 1471.6 | 1716.5 | 1985.6 | 2219.4 | 2280.7 | 2564.6 |
| 25° | 1996.7 | 1917.0 | 1733.2 | 1505.0 | 1354.7 | 1415.9 | 1701.7 | 1978.2 | 2213.9 | 2290.0 | 2596.1 |
| 27.5° | 2533.1 | 2464.4 | 2284.4 | 1929.9 | 1497.6 | 1393.6 | 1649.7 | 1983.8 | 2186.0 | 2256.5 | 2544.2 |
| 30° | 3099.0 | 3136.2 | 2868.9 | 2447.7 | 1872.4 | 1516.1 | 1616.3 | 1954.1 | 2167.5 | 2226.9 | 2555.3 |
| 32.5° | 3679.9 | 3665.0 | 3503.6 | 3047.1 | 2408.7 | 1787.1 | 1670.1 | 1983.8 | 2191.6 | 2249.1 | 2620.3 |
| 35° | 4134.5 | 4082.6 | 3919.3 | 3507.3 | 2852.2 | 2195.3 | 1855.7 | 2124.8 | 2297.4 | 2366.0 | 2713.1 |
| 37.5° | 4359.1 | 4381.3 | 4286.7 | 3928.5 | 3338.4 | 2573.9 | 2087.7 | 2124.8 | 2330.8 | 2410.6 | 2863.4 |
| 40° | 4533.5 | 4600.3 | 4565.1 | 4450.0 | 3820.9 | 3000.7 | 2343.8 | 2256.5 | 2499.6 | 2650.0 | 3145.4 |
| 42.5° | 4743.2 | 4711.7 | 4919.5 | 4813.7 | 4451.9 | 3538.8 | 2792.9 | 2570.2 | 2898.6 | 3043.4 | 3568.5 |
| 45° | 4854.6 | 4975.2 | 5132.9 | 5268.4 | 5036.4 | 4210.6 | 3379.3 | 3125.0 | 3509.2 | 3692.9 | 4197.6 |
| 47.5° | 5140.3 | 5188.6 | 5444.7 | 5615.4 | 5511.5 | 4978.9 | 4270.0 | 3936.0 | 4277.4 | 4566.9 | 4917.6 |
| 50° | 5307.3 | 5242.4 | 5600.5 | 5860.3 | 5919.7 | 5615.4 | 5068.0 | 4808.2 | 5190.4 | 5559.7 | 5591.3 |
| 52.5° | 5160.7 | 5346.3 | 5704.5 | 6170.3 | 6335.4 | 6183.2 | 6005.1 | 5891.9 | 6161.0 | 6502.4 | 6350.3 |
| 55° | 4646.7 | 4772.9 | 5645.1 | 6509.8 | 7042.4 | 6971.9 | 7137.1 | 7062.9 | 7333.8 | 7695.7 | 7237.3 |
| 57.5° | 4232.9 | 4390.6 | 5157.0 | 6686.1 | 7701.2 | 7909.1 | 8116.9 | 8070.5 | 8397.1 | 8814.6 | 7988.9 |
| 60° | 3974.9 | 4065.9 | 4804.4 | 6641.6 | 8090.9 | 8877.7 | 9347.2 | 9020.6 | 9553.2 | 9872.4 | 8577.1 |
| 62.5° | 3527.7 | 3585.2 | 4290.4 | 6051.5 | 8207.8 | 9562.5 | 10358.6 | 9915.1 | 10377.2 | 10766.9 | 9000.2 |
| 65° | 2828.1 | 2984.0 | 3566.7 | 5168.2 | 7435.9 | 9688.7 | 10989.5 | 10468.1 | 10915.3 | 11171.4 | 9128.3 |
| 66° | 2573.9 | 2687.1 | 3221.5 | 4700.5 | 6996.0 | 9479.0 | 10883.8 | 10583.1 | 10993.3 | 11227.1 | 8931.6 |
| 67.5° | 2135.9 | 2234.3 | 2659.2 | 4034.3 | 6096.0 | 9016.9 | 10958.0 | 10505.2 | 11052.6 | 10909.7 | 8668.0 |
| 70° | 1414.1 | 1477.1 | 1818.6 | 2727.9 | 4245.9 | 7376.5 | 10163.8 | 9896.5 | 9716.5 | 9180.2 | 6777.1 |
| 72.5° | 660.6 | 751.6 | 1135.7 | 1653.4 | 2490.4 | 5160.7 | 8287.6 | 7929.5 | 6814.2 | 5956.8 | 4275.6 |
| 75° | 298.8 | 339.6 | 623.5 | 948.3 | 1117.1 | 2674.1 | 5346.3 | 4828.6 | 3392.2 | 2817.0 | 1872.4 |
| 77.5° | 161.4 | 183.7 | 304.3 | 450.9 | 406.4 | 937.1 | 2646.2 | 2200.9 | 1068.9 | 783.1 | 543.7 |
| 80° | 124.3 | 146.6 | 254.2 | 257.9 | 150.3 | 243.1 | 983.5 | 681.0 | 267.2 | 202.3 | 129.9 |
| 82.5° | 65.0 | 92.8 | 200.4 | 167.0 | 76.1 | 98.4 | 304.3 | 189.3 | 83.5 | 66.8 | 55.7 |
| 85° | 26.0 | 40.8 | 113.2 | 111.3 | 44.5 | 33.4 | 85.4 | 57.5 | 33.4 | 27.8 | 26.0 |
| 87.5° | 1.9 | 1.9 | 61.2 | 42.7 | 27.8 | 9.3 | 13.0 | 13.0 | 16.7 | 14.8 | 18.6 |
| 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° | 1967.1 | 1967.1 | 1967.1 | 1967.1 | 1967.1 | 1967.1 | 1967.1 | 1967.1 | 1967.1 | 1967.1 | 1967.1 |
| 2.5° | 2015.3 | 2037.6 | 2041.3 | 2102.5 | 2115.5 | 2102.5 | 2135.9 | 2130.4 | 2145.2 | 2134.1 | 2113.7 |
| 5° | 2061.7 | 2093.2 | 2154.5 | 2200.9 | 2200.9 | 2163.8 | 2134.1 | 2095.1 | 2037.6 | 2022.7 | 2011.6 |
| 7.5° | 2141.5 | 2241.7 | 2297.4 | 2267.7 | 2208.3 | 2069.1 | 1876.1 | 1735.1 | 1616.3 | 1571.8 | 1551.4 |
| 10° | 2282.5 | 2338.2 | 2403.2 | 2282.5 | 2035.7 | 1740.7 | 1415.9 | 1202.5 | 1035.5 | 998.4 | 970.5 |
| 12.5° | 2373.5 | 2462.5 | 2499.6 | 2200.9 | 1716.5 | 1276.7 | 924.1 | 682.9 | 566.0 | 476.9 | 462.1 |
| 15° | 2492.2 | 2594.3 | 2518.2 | 1980.0 | 1352.8 | 836.9 | 478.8 | 298.8 | 243.1 | 228.3 | 228.3 |
| 17.5° | 2573.9 | 2685.2 | 2442.1 | 1705.4 | 959.4 | 445.4 | 237.5 | 206.0 | 202.3 | 204.1 | 200.4 |
| 20° | 2716.8 | 2783.6 | 2327.1 | 1386.2 | 573.4 | 228.3 | 191.1 | 183.7 | 180.0 | 185.6 | 181.9 |
| 22.5° | 2770.6 | 2831.8 | 2139.6 | 1003.9 | 257.9 | 152.2 | 142.9 | 137.3 | 141.0 | 139.2 | 137.3 |
| 25° | 2766.9 | 2798.4 | 1831.6 | 575.3 | 76.1 | 59.4 | 53.8 | 53.8 | 50.1 | 52.0 | 50.1 |
| 27.5° | 2794.7 | 2716.8 | 1486.4 | 170.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 2809.6 | 2585.0 | 1057.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 2817.0 | 2516.3 | 681.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 2874.5 | 2379.0 | 291.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 2913.5 | 2202.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 3074.9 | 2147.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 3284.6 | 2043.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 3576.0 | 1889.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 3962.0 | 1798.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 4249.6 | 1655.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 4615.2 | 1569.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 5049.4 | 1573.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 5444.7 | 1547.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 5646.9 | 1323.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 5604.3 | 1070.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 5455.8 | 840.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 66° | 5353.7 | 744.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 5043.8 | 595.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 4013.9 | 408.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2553.5 | 250.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1176.5 | 115.1 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 369.3 | 70.5 | 14.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 96.5 | 44.5 | 14.8 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 50.1 | 31.5 | 13.0 | 5.6 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 31.5 | 13.0 | 5.6 | 3.7 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 27.8 | 7.4 | 3.7 | 3.7 | 1.9 | 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)