

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: P483502

Luminaire Tested: **IFLD-S-SA3D-727-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483502
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-727-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W
distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

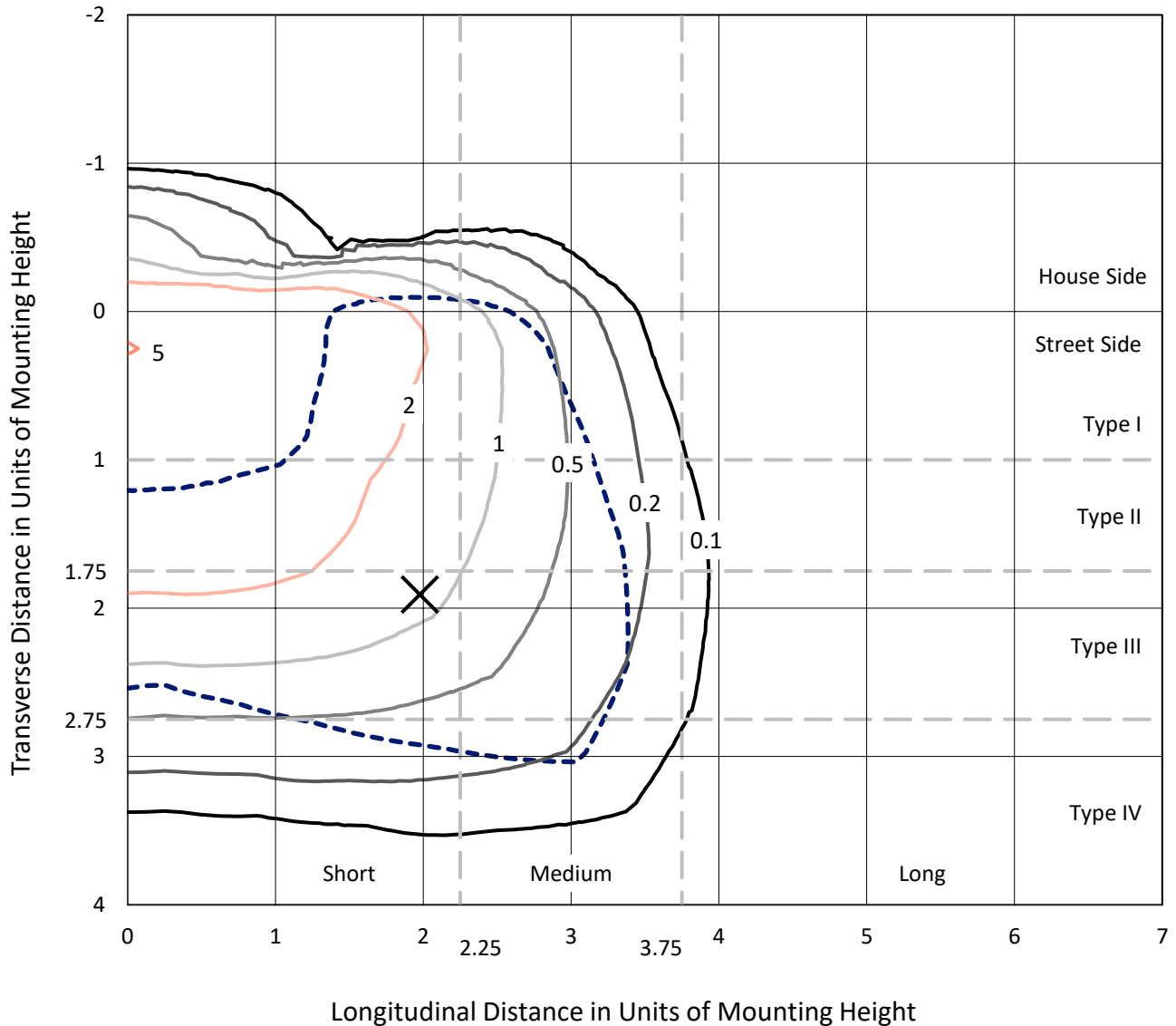
Lumens per Lamp: N/A
Luminaire Lumens: 14381.6 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 184.1
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

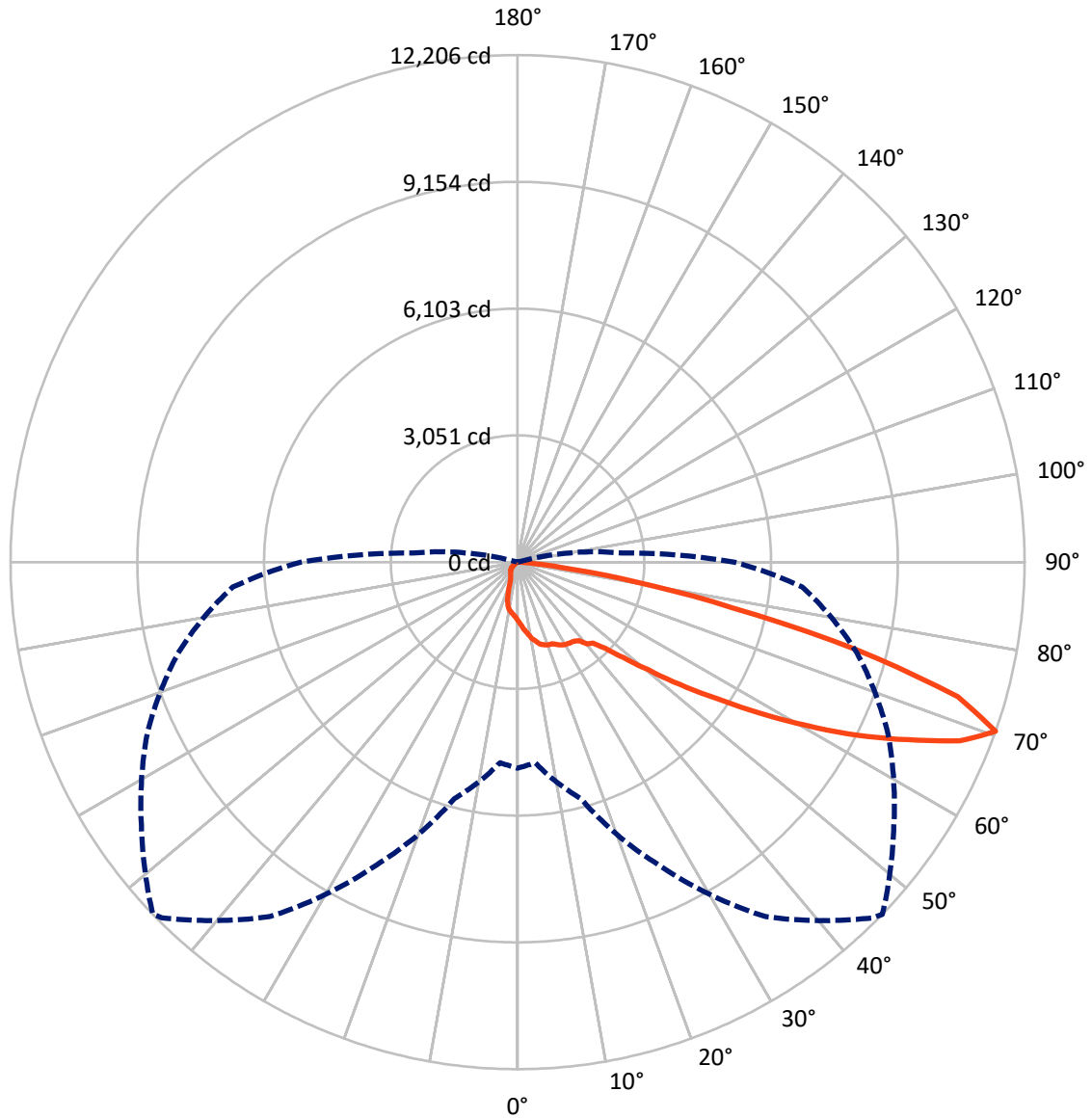
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 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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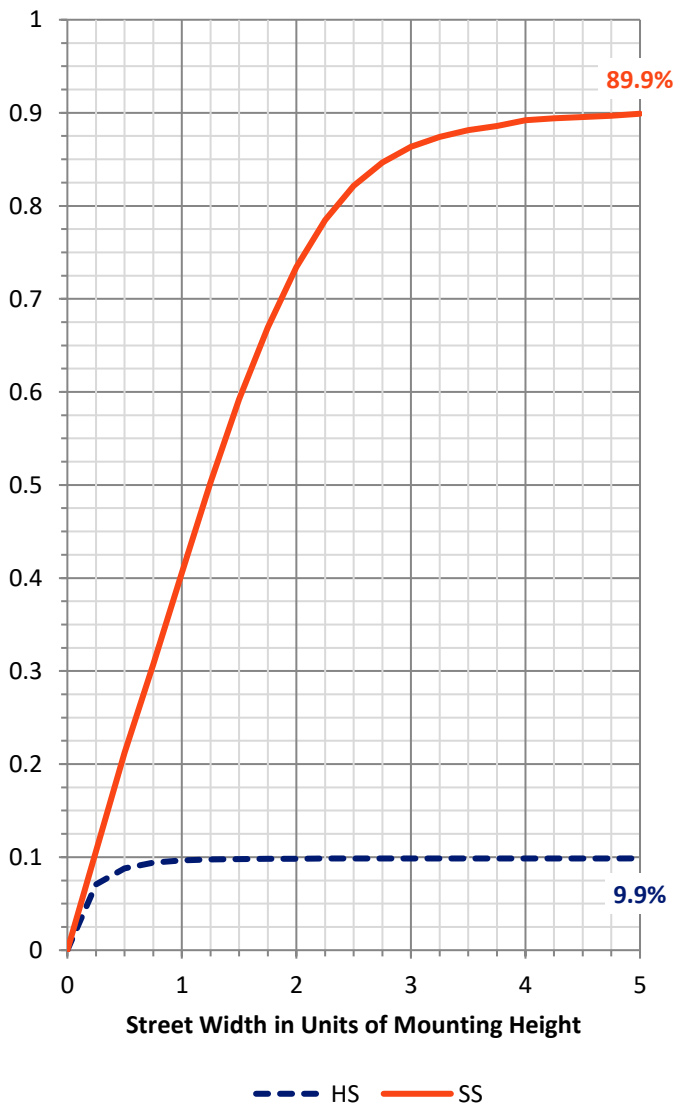
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1431.0 | 0.0 | 1431.0 |
| | % Fixture | 10.0 | 0.0 | 10.0 |
| Street Side | Lumens | 12950.6 | 0.0 | 12950.6 |
| | % Fixture | 90.0 | 0.0 | 90.0 |
| Total | Lumens | 14381.6 | 0.0 | 14381.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 140.8 | 1.0 |
| 10°-20° | 425.1 | 3.0 |
| 20°-30° | 681.0 | 4.7 |
| 30°-40° | 972.0 | 6.8 |
| 40°-50° | 1678.4 | 11.7 |
| 50°-60° | 3213.4 | 22.3 |
| 60°-70° | 4758.5 | 33.1 |
| 70°-80° | 2356.8 | 16.4 |
| 80°-90° | 155.7 | 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° | 14381.6 | 100.0 |
| 0°-180° | 14381.6 | 100.0 |



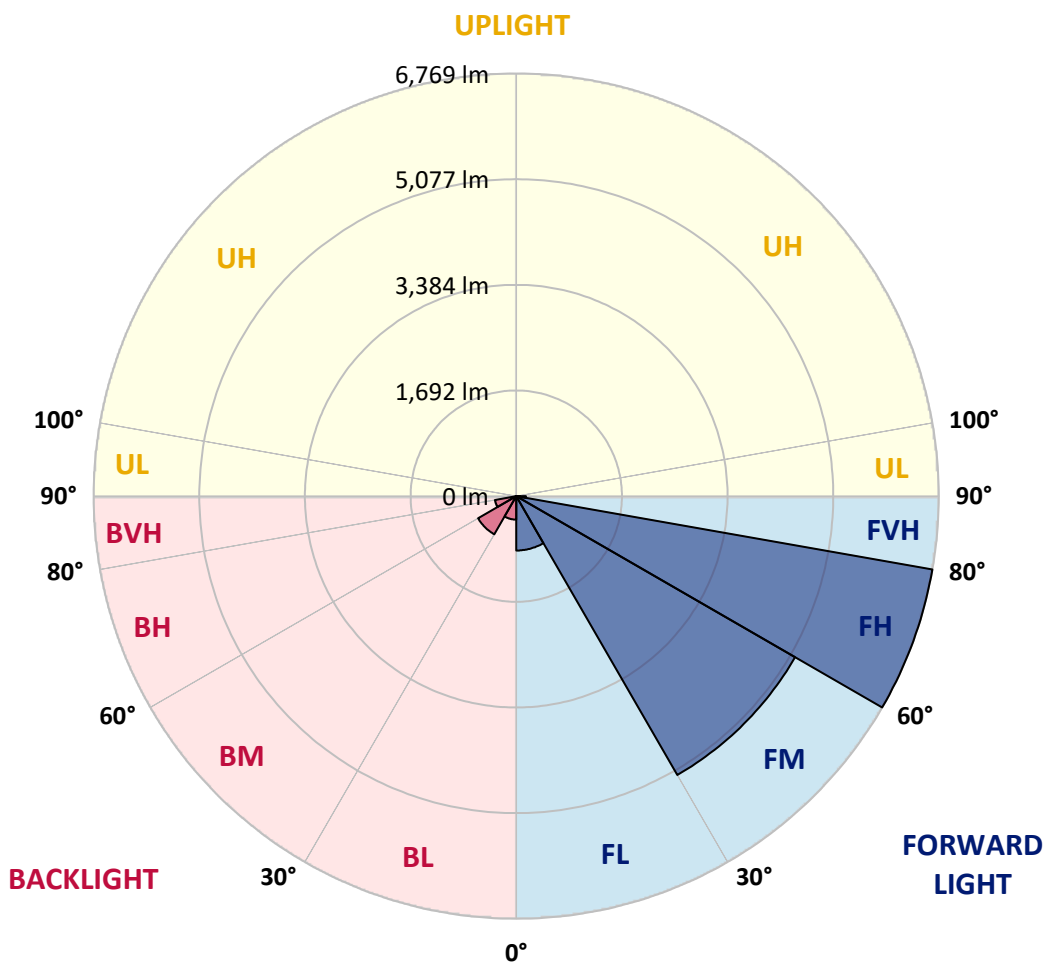
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 870.9 | 6.1 | | | |
| FM (30°-60°) | 5157.2 | 35.9 | | | |
| FH (60°-80°) | 6768.7 | 47.1 | | | G3/7500 |
| FVH (80°-90°) | 153.8 | 1.1 | | | G2/225 |
| BL (0°-30°) | 376.0 | 2.6 | B1/500 | | |
| BM (30°-60°) | 706.5 | 4.9 | B1/1000 | | |
| BH (60°-80°) | 346.6 | 2.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.0 | 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° | 1411.8 | 1411.8 | 1411.8 | 1411.8 | 1411.8 | 1411.8 | 1411.8 | 1411.8 | 1411.8 | 1411.8 | 1411.8 |
| 2.5° | 1575.4 | 1565.0 | 1548.5 | 1542.2 | 1525.7 | 1517.4 | 1505.0 | 1498.8 | 1476.0 | 1453.2 | 1438.7 |
| 5° | 1767.9 | 1743.0 | 1751.3 | 1726.5 | 1672.7 | 1629.2 | 1627.1 | 1579.5 | 1527.8 | 1486.4 | 1430.5 |
| 7.5° | 1962.5 | 1941.8 | 1910.7 | 1875.5 | 1815.5 | 1751.3 | 1732.7 | 1687.2 | 1614.7 | 1542.2 | 1467.7 |
| 10° | 2109.5 | 2095.0 | 2068.1 | 2018.4 | 1935.6 | 1863.1 | 1865.2 | 1788.6 | 1712.0 | 1629.2 | 1527.8 |
| 12.5° | 2200.5 | 2206.8 | 2167.4 | 2117.7 | 2045.3 | 1954.2 | 1952.1 | 1900.4 | 1813.4 | 1726.5 | 1606.4 |
| 15° | 2291.6 | 2314.4 | 2254.4 | 2196.4 | 2103.3 | 2037.0 | 2049.4 | 1987.3 | 1902.4 | 1803.1 | 1670.6 |
| 17.5° | 2306.1 | 2312.3 | 2299.9 | 2215.0 | 2146.7 | 2090.8 | 2092.9 | 2051.5 | 1987.3 | 1879.7 | 1765.8 |
| 20° | 2281.3 | 2277.1 | 2262.7 | 2200.5 | 2155.0 | 2121.9 | 2124.0 | 2113.6 | 2078.4 | 1991.5 | 1836.2 |
| 22.5° | 2208.8 | 2208.8 | 2190.2 | 2148.8 | 2128.1 | 2159.1 | 2134.3 | 2173.6 | 2136.4 | 2084.6 | 1956.3 |
| 25° | 2150.9 | 2173.6 | 2163.3 | 2136.4 | 2144.7 | 2186.1 | 2198.5 | 2235.7 | 2229.5 | 2165.4 | 2039.1 |
| 27.5° | 2213.0 | 2186.1 | 2192.3 | 2161.2 | 2192.3 | 2254.4 | 2260.6 | 2287.5 | 2285.4 | 2233.7 | 2113.6 |
| 30° | 2254.4 | 2279.2 | 2231.6 | 2163.3 | 2196.4 | 2302.0 | 2297.8 | 2333.0 | 2349.6 | 2287.5 | 2184.0 |
| 32.5° | 2386.9 | 2366.2 | 2326.8 | 2235.7 | 2239.9 | 2299.9 | 2318.5 | 2364.1 | 2374.4 | 2337.2 | 2252.3 |
| 35° | 2658.0 | 2627.0 | 2455.2 | 2318.5 | 2297.8 | 2326.8 | 2339.2 | 2428.3 | 2446.9 | 2405.5 | 2324.8 |
| 37.5° | 3076.2 | 3005.8 | 2798.8 | 2496.6 | 2403.4 | 2397.2 | 2397.2 | 2515.2 | 2585.6 | 2490.4 | 2432.4 |
| 40° | 3674.5 | 3575.1 | 3351.5 | 2825.7 | 2542.1 | 2567.0 | 2591.8 | 2656.0 | 2647.7 | 2585.6 | 2573.2 |
| 42.5° | 4436.3 | 4359.7 | 4117.5 | 3378.5 | 2807.1 | 2682.9 | 2662.2 | 2749.1 | 2879.6 | 2854.7 | 2846.4 |
| 45° | 5071.8 | 5076.0 | 4920.7 | 4136.1 | 3264.6 | 2949.9 | 2964.4 | 3030.7 | 3250.1 | 3231.5 | 3229.4 |
| 47.5° | 5535.5 | 5477.6 | 5454.8 | 4866.9 | 3931.2 | 3457.1 | 3436.4 | 3482.0 | 3767.6 | 3885.6 | 3939.5 |
| 50° | 5957.8 | 5918.5 | 5864.7 | 5576.9 | 4732.3 | 4092.6 | 4071.9 | 4076.1 | 4512.9 | 4678.5 | 4811.0 |
| 52.5° | 6481.6 | 6531.3 | 6353.2 | 6177.3 | 5769.5 | 4918.6 | 4895.9 | 4815.1 | 5357.5 | 5585.2 | 5742.5 |
| 55° | 7127.5 | 7034.3 | 6833.5 | 6924.6 | 6761.0 | 5810.9 | 5769.5 | 5674.2 | 6320.1 | 6415.3 | 6580.9 |
| 57.5° | 7270.3 | 7199.9 | 7406.9 | 7729.9 | 7887.2 | 6858.3 | 6841.8 | 6670.0 | 7129.5 | 7042.6 | 7510.4 |
| 60° | 7626.4 | 7645.0 | 7932.7 | 8574.5 | 8847.7 | 8067.3 | 7986.6 | 7684.3 | 7914.1 | 7930.7 | 8429.6 |
| 62.5° | 7992.8 | 7949.3 | 8593.1 | 9210.0 | 9630.2 | 9212.1 | 9185.2 | 8584.8 | 8845.7 | 8634.5 | 9294.9 |
| 65° | 7723.7 | 7789.9 | 8711.1 | 9744.1 | 10644.6 | 10332.0 | 10309.2 | 9452.2 | 9595.1 | 9332.1 | 9646.8 |
| 67.5° | 6767.3 | 6632.7 | 7922.4 | 9499.8 | 11166.3 | 11505.8 | 11480.9 | 10398.3 | 10017.4 | 9328.0 | 8916.1 |
| 70° | 4960.0 | 4844.1 | 5895.7 | 8044.5 | 10419.0 | 12106.1 | 12205.5 | 11056.6 | 9845.5 | 8458.6 | 6879.0 |
| 72.5° | 2430.3 | 2432.4 | 3303.9 | 5454.8 | 8243.3 | 11033.8 | 11083.5 | 10137.4 | 8458.6 | 6235.2 | 3896.0 |
| 75° | 718.3 | 726.6 | 1223.4 | 2674.6 | 5328.5 | 8379.9 | 8435.8 | 7694.7 | 5862.6 | 3221.1 | 1329.0 |
| 77.5° | 262.9 | 262.9 | 405.7 | 1004.0 | 2658.0 | 5289.2 | 5285.0 | 4724.0 | 2968.6 | 1091.0 | 310.5 |
| 80° | 136.6 | 142.8 | 211.2 | 409.9 | 1151.0 | 2755.3 | 2858.8 | 2312.3 | 1128.2 | 459.6 | 91.1 |
| 82.5° | 55.9 | 62.1 | 115.9 | 211.2 | 552.7 | 966.8 | 1057.8 | 906.7 | 490.6 | 320.9 | 41.4 |
| 85° | 16.6 | 18.6 | 55.9 | 118.0 | 217.4 | 242.2 | 269.1 | 304.3 | 308.4 | 248.4 | 18.6 |
| 87.5° | 2.1 | 2.1 | 22.8 | 39.3 | 47.6 | 51.8 | 60.0 | 60.0 | 157.3 | 173.9 | 10.4 |
| 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° | 1411.8 | 1411.8 | 1411.8 | 1411.8 | 1411.8 | 1411.8 | 1411.8 | 1411.8 | 1411.8 | 1411.8 | 1411.8 |
| 2.5° | 1422.2 | 1411.8 | 1395.3 | 1358.0 | 1349.7 | 1322.8 | 1320.7 | 1295.9 | 1304.2 | 1287.6 | 1281.4 |
| 5° | 1411.8 | 1389.1 | 1343.5 | 1314.5 | 1285.6 | 1266.9 | 1254.5 | 1244.1 | 1242.1 | 1233.8 | 1229.7 |
| 7.5° | 1430.5 | 1399.4 | 1329.0 | 1283.5 | 1233.8 | 1217.2 | 1190.3 | 1188.3 | 1173.8 | 1159.3 | 1159.3 |
| 10° | 1492.6 | 1436.7 | 1360.1 | 1283.5 | 1219.3 | 1165.5 | 1103.4 | 1057.8 | 1041.3 | 1004.0 | 1008.2 |
| 12.5° | 1542.2 | 1492.6 | 1380.8 | 1302.1 | 1204.8 | 1082.7 | 946.0 | 840.5 | 790.8 | 743.2 | 761.8 |
| 15° | 1612.6 | 1540.2 | 1420.1 | 1306.3 | 1148.9 | 937.8 | 714.2 | 596.2 | 550.7 | 540.3 | 538.2 |
| 17.5° | 1689.2 | 1612.6 | 1469.8 | 1295.9 | 1035.1 | 724.5 | 525.8 | 457.5 | 465.8 | 478.2 | 476.1 |
| 20° | 1774.1 | 1680.9 | 1507.1 | 1260.7 | 855.0 | 525.8 | 430.6 | 428.5 | 440.9 | 459.6 | 463.7 |
| 22.5° | 1863.1 | 1782.4 | 1552.6 | 1155.1 | 637.6 | 422.3 | 414.0 | 414.0 | 422.3 | 445.1 | 440.9 |
| 25° | 1962.5 | 1854.8 | 1575.4 | 991.6 | 457.5 | 389.2 | 393.3 | 401.6 | 405.7 | 424.4 | 426.4 |
| 27.5° | 2039.1 | 1935.6 | 1581.6 | 794.9 | 372.6 | 360.2 | 370.6 | 380.9 | 387.1 | 401.6 | 407.8 |
| 30° | 2109.5 | 2037.0 | 1548.5 | 592.1 | 341.6 | 335.4 | 339.5 | 354.0 | 366.4 | 378.8 | 378.8 |
| 32.5° | 2198.5 | 2095.0 | 1471.9 | 420.2 | 322.9 | 312.6 | 310.5 | 316.7 | 331.2 | 345.7 | 345.7 |
| 35° | 2289.6 | 2192.3 | 1349.7 | 337.4 | 306.4 | 291.9 | 283.6 | 277.4 | 283.6 | 294.0 | 302.2 |
| 37.5° | 2422.1 | 2339.2 | 1196.5 | 310.5 | 294.0 | 273.3 | 256.7 | 242.2 | 231.9 | 229.8 | 236.0 |
| 40° | 2610.4 | 2504.9 | 999.9 | 291.9 | 279.5 | 254.6 | 229.8 | 204.9 | 182.2 | 167.7 | 169.8 |
| 42.5° | 2896.1 | 2749.1 | 786.6 | 281.5 | 269.1 | 233.9 | 198.7 | 163.5 | 134.6 | 120.1 | 120.1 |
| 45° | 3303.9 | 3072.1 | 577.6 | 271.2 | 256.7 | 209.1 | 163.5 | 122.1 | 93.2 | 84.9 | 86.9 |
| 47.5° | 3918.8 | 3461.3 | 414.0 | 254.6 | 240.1 | 182.2 | 128.3 | 86.9 | 68.3 | 64.2 | 66.2 |
| 50° | 4722.0 | 3922.9 | 322.9 | 236.0 | 219.4 | 153.2 | 95.2 | 64.2 | 53.8 | 51.8 | 53.8 |
| 52.5° | 5564.5 | 4388.7 | 283.6 | 219.4 | 188.4 | 122.1 | 70.4 | 51.8 | 45.5 | 43.5 | 45.5 |
| 55° | 6284.9 | 4688.8 | 246.3 | 194.6 | 151.1 | 91.1 | 55.9 | 45.5 | 39.3 | 33.1 | 33.1 |
| 57.5° | 7013.6 | 4840.0 | 194.6 | 161.5 | 111.8 | 68.3 | 47.6 | 39.3 | 33.1 | 26.9 | 24.8 |
| 60° | 7605.7 | 4947.6 | 138.7 | 120.1 | 78.7 | 53.8 | 41.4 | 35.2 | 26.9 | 20.7 | 18.6 |
| 62.5° | 7994.8 | 4639.2 | 101.4 | 91.1 | 58.0 | 45.5 | 35.2 | 29.0 | 20.7 | 14.5 | 14.5 |
| 65° | 7802.3 | 4212.7 | 78.7 | 64.2 | 43.5 | 35.2 | 29.0 | 20.7 | 14.5 | 8.3 | 6.2 |
| 67.5° | 7001.2 | 3432.3 | 64.2 | 47.6 | 33.1 | 26.9 | 22.8 | 16.6 | 8.3 | 2.1 | 2.1 |
| 70° | 5222.9 | 2515.2 | 51.8 | 35.2 | 26.9 | 20.7 | 16.6 | 10.4 | 4.1 | 2.1 | 0.0 |
| 72.5° | 2856.8 | 1376.6 | 41.4 | 29.0 | 20.7 | 16.6 | 12.4 | 8.3 | 4.1 | 0.0 | 0.0 |
| 75° | 944.0 | 366.4 | 31.1 | 20.7 | 12.4 | 10.4 | 8.3 | 6.2 | 2.1 | 0.0 | 0.0 |
| 77.5° | 227.7 | 95.2 | 24.8 | 18.6 | 10.4 | 6.2 | 4.1 | 2.1 | 2.1 | 0.0 | 0.0 |
| 80° | 70.4 | 39.3 | 18.6 | 12.4 | 8.3 | 6.2 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 29.0 | 18.6 | 8.3 | 8.3 | 6.2 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 14.5 | 10.4 | 6.2 | 4.1 | 4.1 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 10.4 | 4.1 | 2.1 | 2.1 | 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)