

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: P480515

Luminaire Tested: **IFLD-S-SA6E-740-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480515
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-740-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

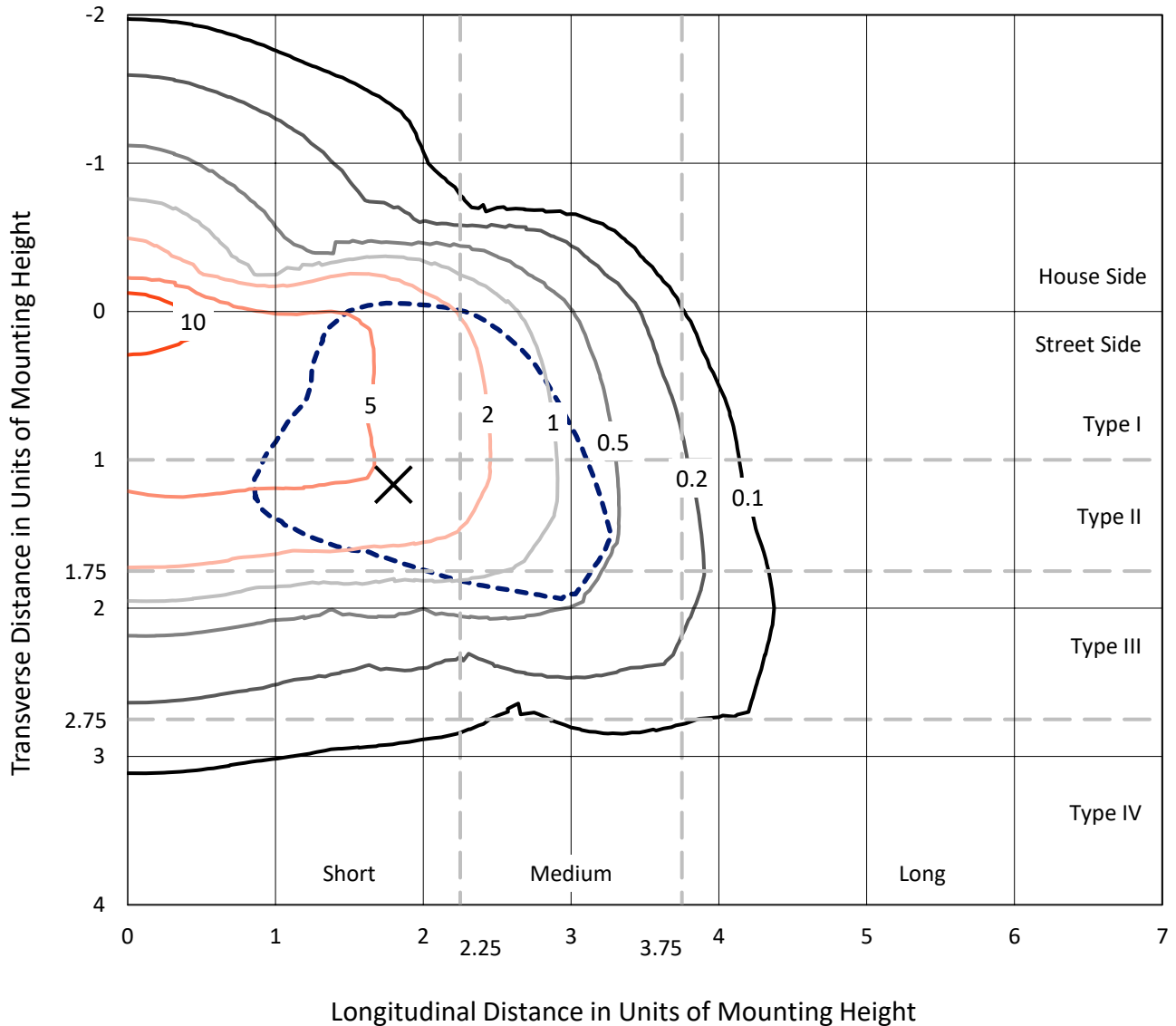
Lumens per Lamp: N/A
Luminaire Lumens: 52210.6 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 464.2
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

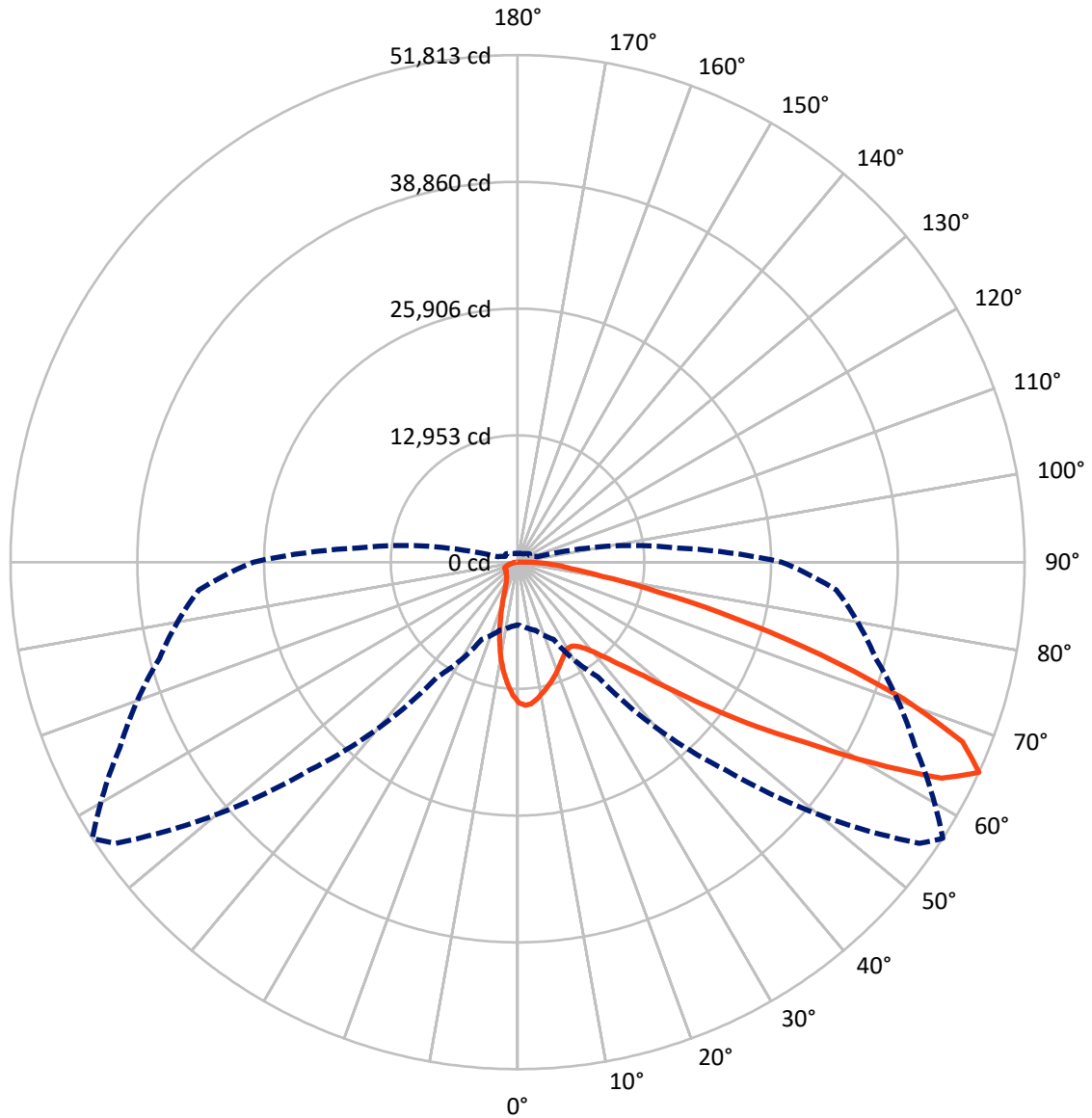
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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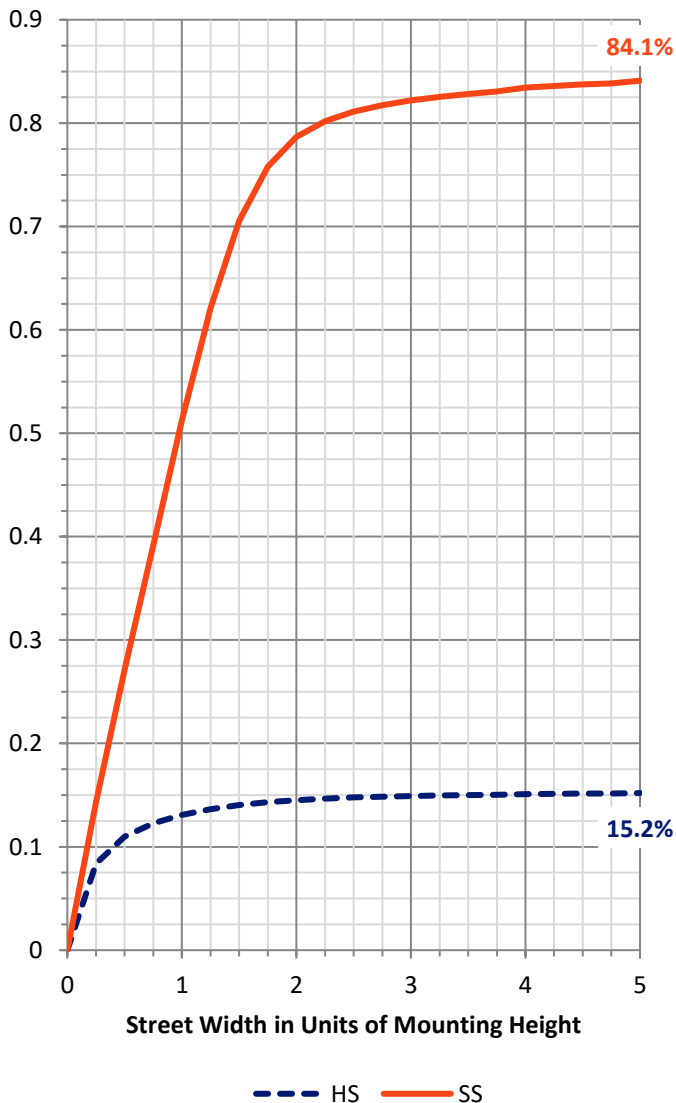
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8007.0 | 0.0 | 8007.0 |
| | % Fixture | 15.3 | 0.0 | 15.3 |
| Street Side | Lumens | 44203.6 | 0.0 | 44203.6 |
| | % Fixture | 84.7 | 0.0 | 84.7 |
| Total | Lumens | 52210.6 | 0.0 | 52210.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1202.3 | 2.3 |
| 10°-20° | 2587.6 | 5.0 |
| 20°-30° | 3345.5 | 6.4 |
| 30°-40° | 4501.9 | 8.6 |
| 40°-50° | 7178.5 | 13.7 |
| 50°-60° | 12678.9 | 24.3 |
| 60°-70° | 13948.5 | 26.7 |
| 70°-80° | 5834.9 | 11.2 |
| 80°-90° | 932.5 | 1.8 |
| 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° | 52210.6 | 100.0 |
| 0°-180° | 52210.6 | 100.0 |



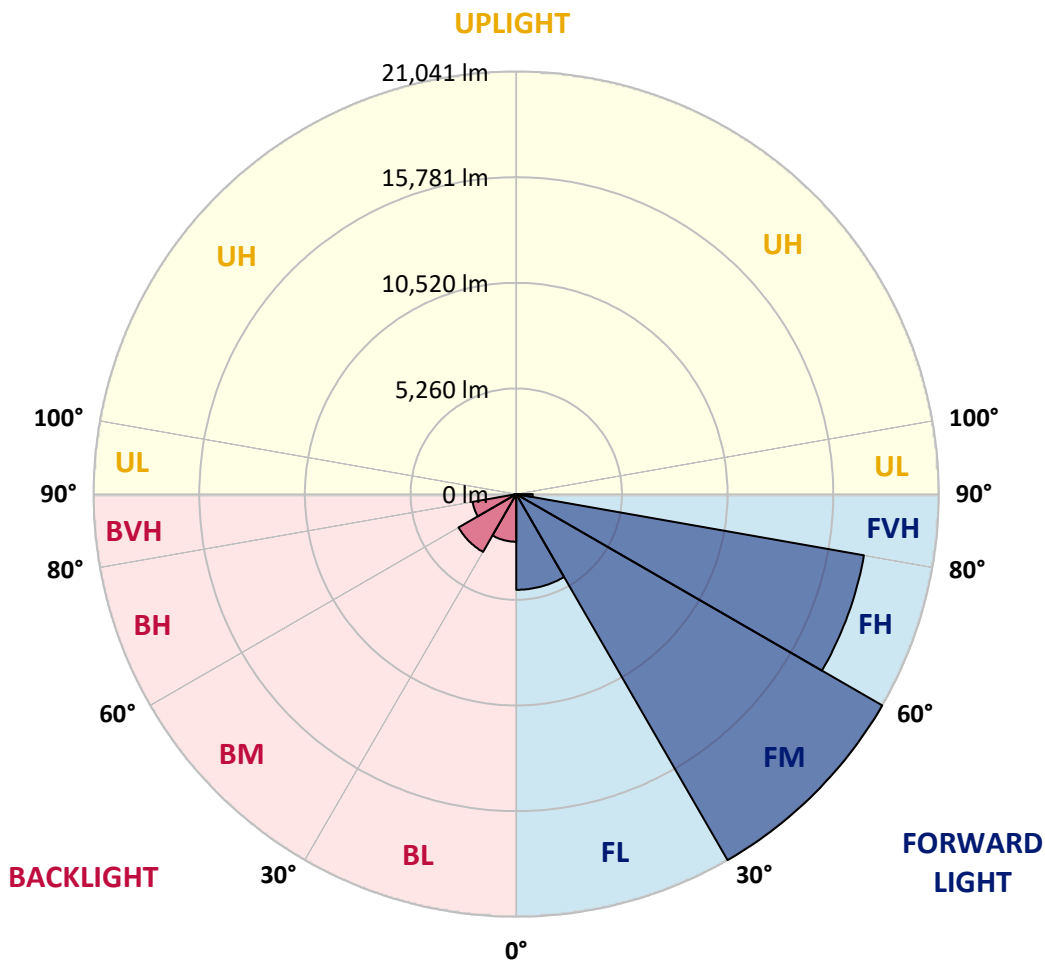
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4764.0 | 9.1 | | | |
| FM (30°-60°) | 21040.8 | 40.3 | | | |
| FH (60°-80°) | 17575.6 | 33.7 | | | G5 |
| FVH (80°-90°) | 823.1 | 1.6 | | | G5 |
| BL (0°-30°) | 2371.3 | 4.5 | B3/2500 | | |
| BM (30°-60°) | 3318.5 | 6.4 | B3/5000 | | |
| BH (60°-80°) | 2207.8 | 4.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 109.4 | 0.2 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 14357.2 | 14357.2 | 14357.2 | 14357.2 | 14357.2 | 14357.2 | 14357.2 | 14357.2 | 14357.2 | 14357.2 | 14357.2 |
| 2.5° | 14744.9 | 14768.4 | 14768.4 | 14815.4 | 14656.8 | 14733.1 | 14721.4 | 14650.9 | 14674.4 | 14551.0 | 14427.7 |
| 5° | 14327.8 | 14310.2 | 14404.2 | 14415.9 | 14539.3 | 14574.5 | 14603.9 | 14556.9 | 14568.7 | 14298.4 | 14180.9 |
| 7.5° | 13258.7 | 13252.8 | 13411.4 | 13546.5 | 13805.0 | 14045.8 | 14204.4 | 14157.4 | 14222.1 | 14051.7 | 13775.6 |
| 10° | 11989.8 | 12124.9 | 12289.4 | 12424.5 | 12900.3 | 13205.8 | 13617.0 | 13658.1 | 13904.8 | 13863.7 | 13364.4 |
| 12.5° | 11038.1 | 11096.9 | 11220.2 | 11607.9 | 12042.6 | 12547.8 | 13135.3 | 13188.2 | 13429.0 | 13546.5 | 13111.8 |
| 15° | 10256.8 | 10309.7 | 10468.3 | 10756.1 | 11243.7 | 11842.9 | 12589.0 | 12724.1 | 13205.8 | 13246.9 | 12782.8 |
| 17.5° | 9687.0 | 9728.1 | 9833.8 | 10121.7 | 10521.2 | 11290.7 | 11995.6 | 12236.5 | 12870.9 | 13070.7 | 12442.1 |
| 20° | 9463.8 | 9375.6 | 9434.4 | 9616.5 | 10016.0 | 10609.3 | 11519.8 | 11731.3 | 12542.0 | 12935.6 | 12119.0 |
| 22.5° | 9363.9 | 9287.5 | 9322.8 | 9311.0 | 9628.2 | 10051.2 | 11008.7 | 11232.0 | 12230.6 | 12776.9 | 11831.2 |
| 25° | 9440.3 | 9440.3 | 9405.0 | 9375.6 | 9410.9 | 9687.0 | 10456.5 | 10803.1 | 11813.5 | 12641.8 | 11537.4 |
| 27.5° | 9851.5 | 9692.9 | 9710.5 | 9587.1 | 9551.9 | 9551.9 | 10209.8 | 10415.4 | 11678.4 | 12565.5 | 11296.6 |
| 30° | 10115.8 | 10192.2 | 10198.1 | 10016.0 | 9833.8 | 9504.9 | 9980.7 | 10180.4 | 11566.8 | 12659.5 | 11155.6 |
| 32.5° | 10791.4 | 10756.1 | 10656.3 | 10621.0 | 10350.8 | 9980.7 | 10092.3 | 10227.4 | 11502.2 | 12870.9 | 11196.7 |
| 35° | 11466.9 | 11449.3 | 11455.2 | 11437.6 | 11155.6 | 10609.3 | 10391.9 | 10574.0 | 11619.7 | 13241.0 | 11337.7 |
| 37.5° | 12166.0 | 12213.0 | 12412.7 | 12412.7 | 12113.1 | 11519.8 | 11232.0 | 11179.1 | 12048.5 | 13846.1 | 11672.5 |
| 40° | 12865.1 | 12982.6 | 13235.2 | 13634.6 | 13211.7 | 12659.5 | 12195.4 | 12113.1 | 12565.5 | 14656.8 | 12477.3 |
| 42.5° | 13534.8 | 13728.6 | 14227.9 | 14821.3 | 14680.3 | 14128.1 | 13511.3 | 13417.3 | 13628.7 | 15861.0 | 13599.4 |
| 45° | 14392.4 | 14556.9 | 15344.1 | 16254.6 | 16448.5 | 15960.9 | 15238.3 | 15162.0 | 15150.2 | 17623.4 | 15144.4 |
| 47.5° | 15696.6 | 15872.8 | 16660.0 | 17576.4 | 18175.6 | 18251.9 | 17441.3 | 17359.0 | 17077.0 | 20002.5 | 17406.0 |
| 50° | 17329.7 | 17617.5 | 18281.3 | 19350.5 | 20219.9 | 21036.4 | 20807.3 | 20566.5 | 20014.3 | 22769.4 | 20272.8 |
| 52.5° | 18522.2 | 18874.6 | 19773.4 | 21142.2 | 22675.4 | 23973.7 | 24796.1 | 24796.1 | 23527.2 | 25806.5 | 23721.1 |
| 55° | 18839.4 | 19050.9 | 20184.6 | 22164.3 | 24790.2 | 28074.0 | 29795.3 | 29666.0 | 27709.8 | 29002.2 | 27733.3 |
| 57.5° | 17576.4 | 17852.5 | 19227.1 | 21300.8 | 25900.5 | 31910.1 | 34759.2 | 34788.5 | 32280.1 | 32714.9 | 31692.7 |
| 60° | 14098.7 | 14186.8 | 15808.2 | 18580.9 | 24831.3 | 35000.0 | 41538.3 | 41649.9 | 37479.0 | 36022.2 | 33707.6 |
| 62.5° | 9745.7 | 10027.7 | 11249.6 | 13681.6 | 20572.4 | 34653.4 | 48076.6 | 48628.8 | 41644.0 | 37766.9 | 34024.9 |
| 65° | 6414.9 | 6585.3 | 7237.3 | 8717.7 | 14321.9 | 30036.1 | 50109.1 | 51812.7 | 44828.0 | 37866.8 | 32697.2 |
| 67.5° | 4652.6 | 4681.9 | 4875.8 | 5639.5 | 8606.1 | 21600.4 | 46637.3 | 49040.0 | 46020.5 | 37032.6 | 29583.8 |
| 70° | 3759.7 | 3783.2 | 3853.6 | 4341.2 | 5557.2 | 13517.1 | 38037.1 | 41802.6 | 42443.0 | 33079.1 | 23826.8 |
| 72.5° | 3054.7 | 3084.1 | 3172.2 | 3630.4 | 4582.1 | 7519.3 | 27815.6 | 32403.5 | 34524.2 | 24473.0 | 15837.5 |
| 75° | 2402.7 | 2426.2 | 2637.6 | 3090.0 | 4306.0 | 5163.6 | 18451.7 | 22945.6 | 23233.5 | 14304.3 | 7413.6 |
| 77.5° | 1644.8 | 1686.0 | 1944.4 | 2620.0 | 4053.4 | 4517.5 | 11502.2 | 14697.9 | 13188.2 | 5598.4 | 2549.5 |
| 80° | 1045.7 | 1104.4 | 1257.1 | 1985.6 | 3583.4 | 4311.9 | 7155.1 | 8776.4 | 5774.6 | 1915.1 | 1227.8 |
| 82.5° | 616.8 | 675.6 | 828.3 | 1286.5 | 2813.9 | 4000.5 | 5040.3 | 5492.6 | 2708.1 | 981.0 | 740.2 |
| 85° | 340.7 | 381.8 | 499.3 | 775.4 | 1650.7 | 3554.0 | 4035.8 | 3941.8 | 1550.9 | 522.8 | 464.1 |
| 87.5° | 111.6 | 129.2 | 182.1 | 311.3 | 681.4 | 1674.2 | 2420.3 | 2273.4 | 804.8 | 240.9 | 182.1 |
| 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° | 14357.2 | 14357.2 | 14357.2 | 14357.2 | 14357.2 | 14357.2 | 14357.2 | 14357.2 | 14357.2 | 14357.2 | 14357.2 |
| 2.5° | 14345.4 | 14327.8 | 14063.5 | 13863.7 | 13523.0 | 13241.0 | 13129.4 | 12976.7 | 12970.8 | 12859.2 | 12829.8 |
| 5° | 13998.8 | 13816.7 | 13411.4 | 13023.7 | 12418.6 | 12013.3 | 11643.2 | 11384.7 | 11279.0 | 11049.9 | 10997.0 |
| 7.5° | 13552.4 | 13311.5 | 12688.8 | 11960.4 | 11249.6 | 10615.1 | 10039.4 | 9463.8 | 9140.7 | 9029.0 | 8905.7 |
| 10° | 13088.3 | 12665.3 | 11743.0 | 10926.5 | 9933.7 | 8958.5 | 8053.9 | 7243.2 | 6802.6 | 6491.3 | 6356.2 |
| 12.5° | 12718.2 | 12154.3 | 10979.4 | 9757.5 | 8447.5 | 7143.3 | 6091.8 | 5240.0 | 4740.7 | 4505.7 | 4400.0 |
| 15° | 12301.1 | 11555.1 | 10145.2 | 8600.2 | 6967.1 | 5486.7 | 4458.7 | 3789.0 | 3589.3 | 3477.7 | 3460.1 |
| 17.5° | 11860.5 | 10997.0 | 9240.5 | 7460.6 | 5522.0 | 4129.7 | 3465.9 | 3195.7 | 3107.6 | 3060.6 | 3037.1 |
| 20° | 11449.3 | 10497.7 | 8312.4 | 6191.7 | 4323.6 | 3313.2 | 3001.8 | 2860.9 | 2855.0 | 2878.5 | 2872.6 |
| 22.5° | 10867.7 | 9845.6 | 7395.9 | 5016.8 | 3454.2 | 2884.4 | 2684.6 | 2649.4 | 2684.6 | 2714.0 | 2725.7 |
| 25° | 10538.8 | 9311.0 | 6373.8 | 3982.9 | 2855.0 | 2561.3 | 2496.6 | 2484.9 | 2537.8 | 2573.0 | 2567.1 |
| 27.5° | 10198.1 | 8758.8 | 5422.1 | 3189.8 | 2502.5 | 2332.2 | 2320.4 | 2332.2 | 2385.0 | 2437.9 | 2432.0 |
| 30° | 9933.7 | 8318.2 | 4529.2 | 2667.0 | 2232.3 | 2167.7 | 2155.9 | 2167.7 | 2197.0 | 2202.9 | 2202.9 |
| 32.5° | 9716.4 | 7795.4 | 3771.4 | 2314.5 | 2067.8 | 2014.9 | 2026.7 | 2020.8 | 2026.7 | 2032.6 | 2038.4 |
| 35° | 9587.1 | 7484.1 | 3148.7 | 2097.2 | 1932.7 | 1891.6 | 1885.7 | 1868.1 | 1874.0 | 1879.8 | 1874.0 |
| 37.5° | 9863.2 | 7331.3 | 2655.3 | 1944.4 | 1838.7 | 1803.5 | 1791.7 | 1780.0 | 1762.3 | 1762.3 | 1762.3 |
| 40° | 10280.3 | 7249.1 | 2355.7 | 1844.6 | 1768.2 | 1727.1 | 1691.8 | 1680.1 | 1680.1 | 1686.0 | 1691.8 |
| 42.5° | 11108.6 | 7384.2 | 2150.1 | 1768.2 | 1680.1 | 1633.1 | 1597.9 | 1603.7 | 1621.4 | 1639.0 | 1627.2 |
| 45° | 12307.0 | 7795.4 | 2056.1 | 1709.5 | 1627.2 | 1562.6 | 1539.1 | 1533.2 | 1550.9 | 1580.2 | 1603.7 |
| 47.5° | 13875.5 | 8435.7 | 2020.8 | 1656.6 | 1592.0 | 1503.9 | 1474.5 | 1492.1 | 1515.6 | 1556.7 | 1539.1 |
| 50° | 16442.6 | 9875.0 | 2050.2 | 1609.6 | 1539.1 | 1474.5 | 1439.2 | 1421.6 | 1439.2 | 1468.6 | 1480.4 |
| 52.5° | 19796.9 | 12489.1 | 2161.8 | 1586.1 | 1503.9 | 1451.0 | 1392.2 | 1362.9 | 1380.5 | 1404.0 | 1404.0 |
| 55° | 23809.2 | 16060.8 | 2473.1 | 1556.7 | 1445.1 | 1415.7 | 1351.1 | 1292.4 | 1304.1 | 1304.1 | 1298.3 |
| 57.5° | 27345.6 | 18757.1 | 2843.2 | 1515.6 | 1409.9 | 1368.7 | 1286.5 | 1216.0 | 1204.3 | 1210.1 | 1216.0 |
| 60° | 28931.7 | 19473.8 | 3019.5 | 1503.9 | 1409.9 | 1310.0 | 1198.4 | 1127.9 | 1110.3 | 1098.5 | 1098.5 |
| 62.5° | 28655.6 | 18234.3 | 2661.1 | 1451.0 | 1445.1 | 1263.0 | 1116.1 | 1039.8 | 1016.3 | 992.8 | 998.7 |
| 65° | 26987.3 | 16466.1 | 2097.2 | 1380.5 | 1451.0 | 1233.6 | 1033.9 | 957.5 | 916.4 | 887.0 | 881.2 |
| 67.5° | 23938.4 | 14057.6 | 1662.5 | 1327.6 | 1392.2 | 1180.8 | 963.4 | 875.3 | 840.0 | 810.7 | 798.9 |
| 70° | 18727.8 | 11020.5 | 1445.1 | 1257.1 | 1251.3 | 1051.5 | 881.2 | 804.8 | 751.9 | 716.7 | 716.7 |
| 72.5° | 12142.5 | 6967.1 | 1239.5 | 1116.1 | 1080.9 | 881.2 | 763.7 | 716.7 | 675.6 | 646.2 | 646.2 |
| 75° | 5498.5 | 3236.8 | 998.7 | 934.0 | 881.2 | 704.9 | 646.2 | 622.7 | 587.4 | 558.1 | 558.1 |
| 77.5° | 1973.8 | 1380.5 | 746.1 | 734.3 | 657.9 | 546.3 | 522.8 | 505.2 | 481.7 | 452.3 | 452.3 |
| 80° | 1104.4 | 875.3 | 558.1 | 534.6 | 458.2 | 405.3 | 376.0 | 376.0 | 364.2 | 346.6 | 340.7 |
| 82.5° | 699.1 | 569.8 | 411.2 | 358.3 | 299.6 | 270.2 | 258.5 | 252.6 | 246.7 | 223.2 | 217.4 |
| 85° | 440.6 | 387.7 | 270.2 | 211.5 | 176.2 | 135.1 | 129.2 | 123.4 | 111.6 | 99.9 | 99.9 |
| 87.5° | 199.7 | 223.2 | 105.7 | 64.6 | 47.0 | 29.4 | 17.6 | 5.9 | 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)