

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: P480398

Luminaire Tested: **IFLD-S-SA6E-727-U-SL3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P480398
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-727-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

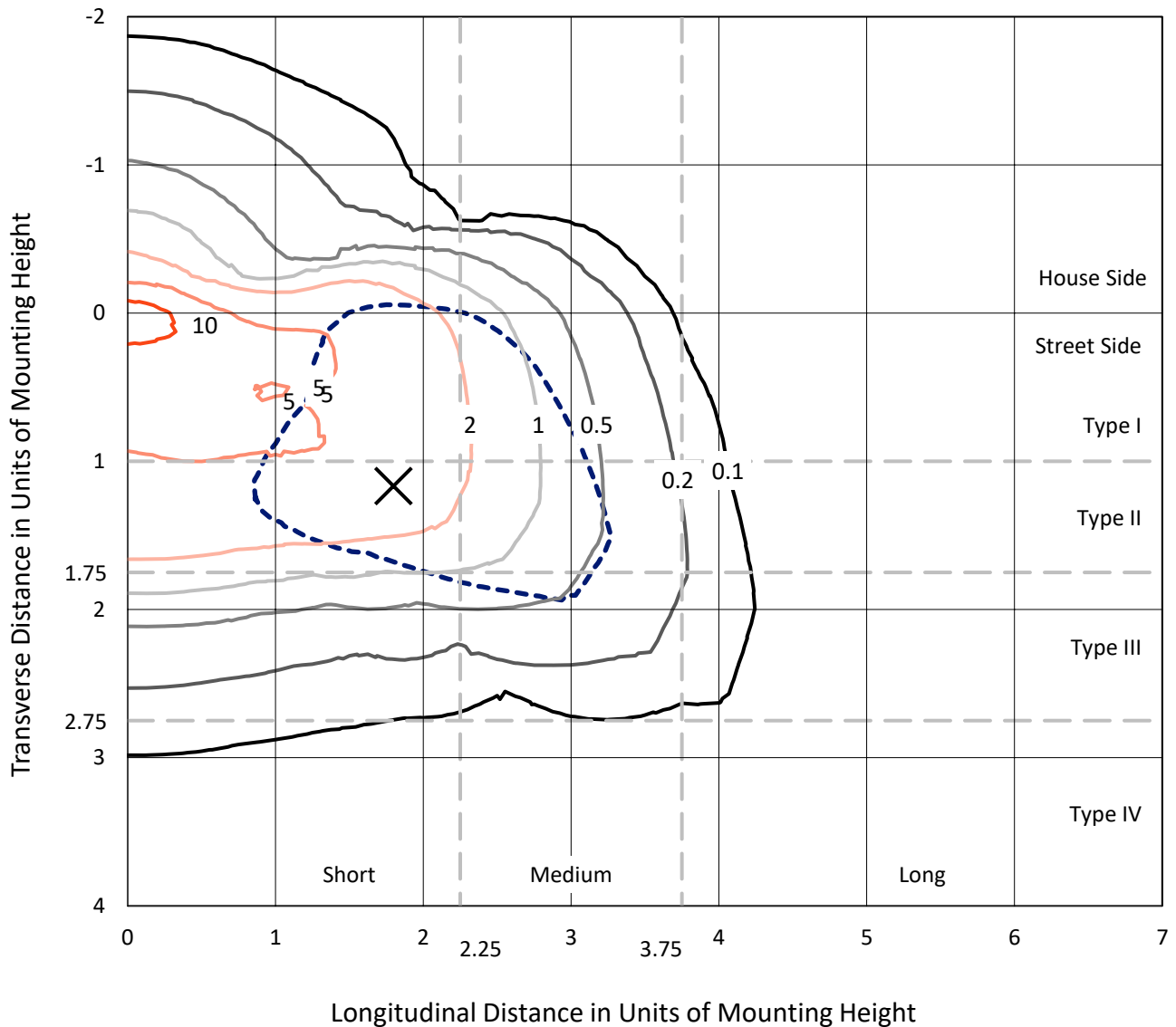
Lumens per Lamp: N/A
Luminaire Lumens: 43663.7 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

REPORT NUMBER: P480398
 CATALOG NUMBER: IFLD-S-SA6E-727-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

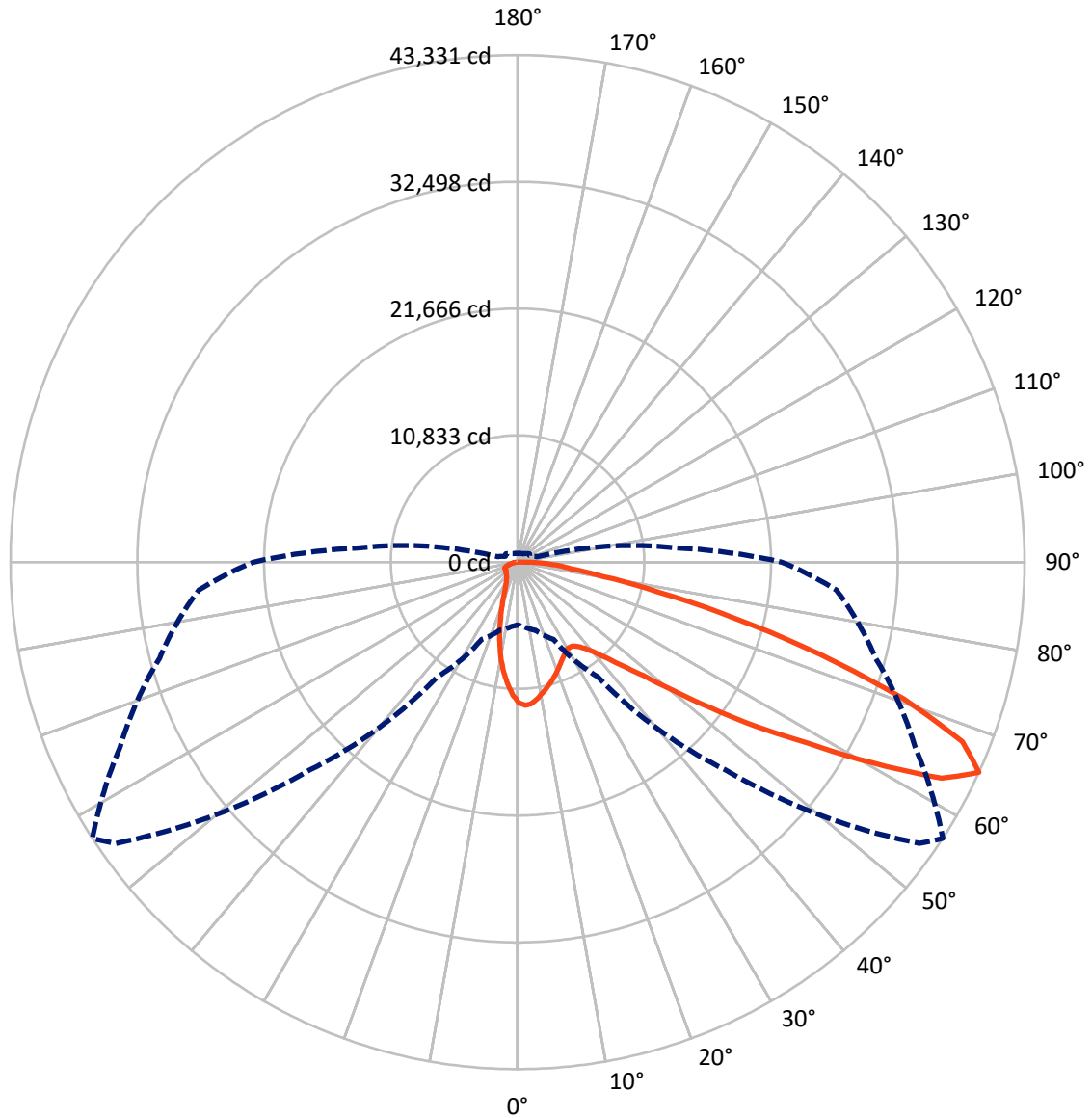
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.3 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 | 6696.3 | 0.0 | 6696.3 |
| | % Fixture | 15.3 | 0.0 | 15.3 |
| Street Side | Lumens | 36967.5 | 0.0 | 36967.5 |
| | % Fixture | 84.7 | 0.0 | 84.7 |
| Total | Lumens | 43663.7 | 0.0 | 43663.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1005.5 | 2.3 |
| 10°-20° | 2164.0 | 5.0 |
| 20°-30° | 2797.8 | 6.4 |
| 30°-40° | 3764.9 | 8.6 |
| 40°-50° | 6003.4 | 13.7 |
| 50°-60° | 10603.4 | 24.3 |
| 60°-70° | 11665.2 | 26.7 |
| 70°-80° | 4879.7 | 11.2 |
| 80°-90° | 779.9 | 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° | 43663.7 | 100.0 |
| 0°-180° | 43663.7 | 100.0 |

Coefficient of Utilization



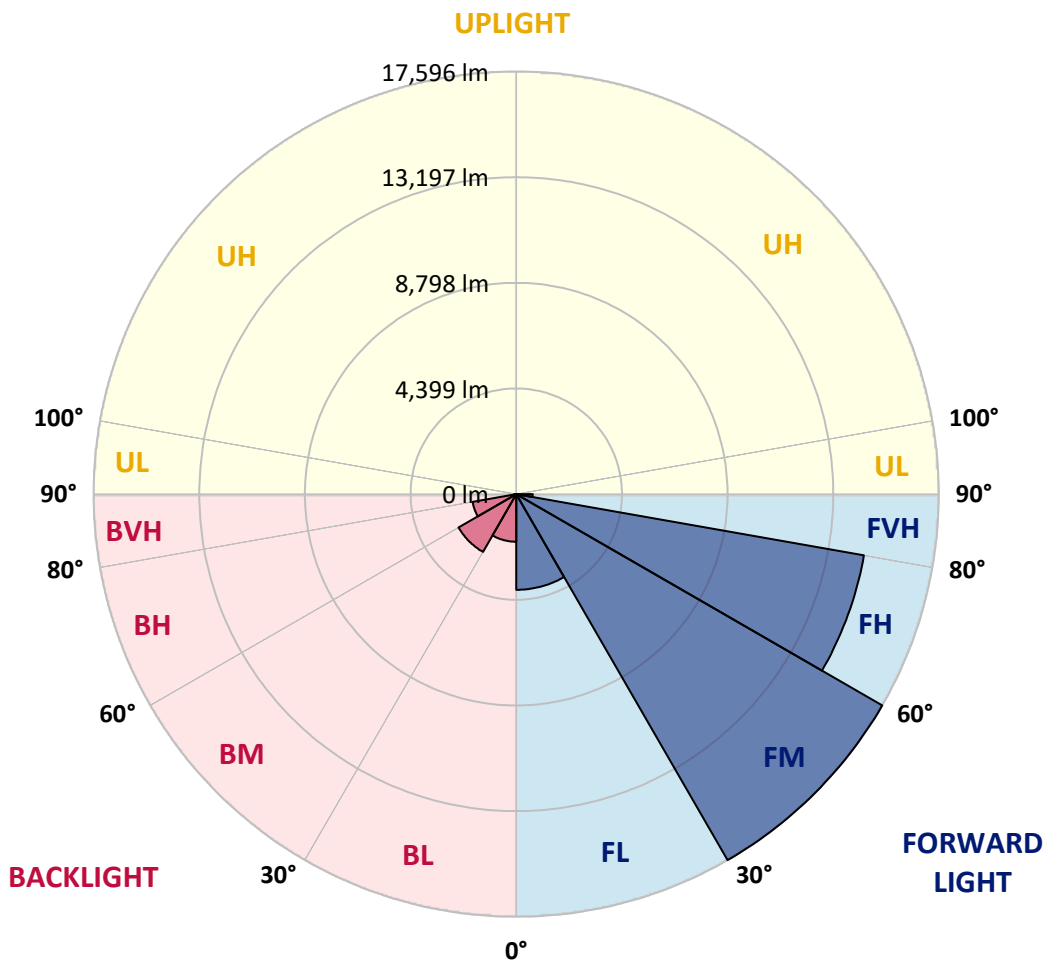
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 CATALOG NUMBER: IFLD-S-SA6E-727-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3984.2 | 9.1 | | | |
| FM (30°-60°) | 17596.4 | 40.3 | | | |
| FH (60°-80°) | 14698.5 | 33.7 | | | G5 |
| FVH (80°-90°) | 688.4 | 1.6 | | | G4/750 |
| BL (0°-30°) | 1983.1 | 4.5 | B3/2500 | | |
| BM (30°-60°) | 2775.3 | 6.4 | B3/5000 | | |
| BH (60°-80°) | 1846.4 | 4.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 91.5 | 0.2 | | | G1/100 |
| 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° | 12006.9 | 12006.9 | 12006.9 | 12006.9 | 12006.9 | 12006.9 | 12006.9 | 12006.9 | 12006.9 | 12006.9 | 12006.9 |
| 2.5° | 12331.2 | 12350.8 | 12350.8 | 12390.1 | 12257.5 | 12321.3 | 12311.5 | 12252.5 | 12272.2 | 12169.0 | 12065.9 |
| 5° | 11982.3 | 11967.6 | 12046.2 | 12056.0 | 12159.2 | 12188.7 | 12213.2 | 12173.9 | 12183.8 | 11957.8 | 11859.5 |
| 7.5° | 11088.2 | 11083.3 | 11215.9 | 11328.9 | 11545.1 | 11746.5 | 11879.2 | 11839.9 | 11893.9 | 11751.4 | 11520.5 |
| 10° | 10027.0 | 10140.0 | 10277.6 | 10390.6 | 10788.5 | 11044.0 | 11387.9 | 11422.3 | 11628.6 | 11594.2 | 11176.6 |
| 12.5° | 9231.2 | 9280.3 | 9383.5 | 9707.7 | 10071.3 | 10493.8 | 10985.0 | 11029.3 | 11230.7 | 11328.9 | 10965.4 |
| 15° | 8577.8 | 8622.0 | 8754.6 | 8995.4 | 9403.1 | 9904.2 | 10528.2 | 10641.1 | 11044.0 | 11078.4 | 10690.3 |
| 17.5° | 8101.2 | 8135.6 | 8224.0 | 8464.8 | 8798.8 | 9442.4 | 10032.0 | 10233.4 | 10764.0 | 10931.0 | 10405.3 |
| 20° | 7914.5 | 7840.8 | 7890.0 | 8042.3 | 8376.3 | 8872.5 | 9634.0 | 9810.9 | 10488.8 | 10818.0 | 10135.1 |
| 22.5° | 7831.0 | 7767.2 | 7796.6 | 7786.8 | 8052.1 | 8405.8 | 9206.6 | 9393.3 | 10228.5 | 10685.4 | 9894.4 |
| 25° | 7894.9 | 7894.9 | 7865.4 | 7840.8 | 7870.3 | 8101.2 | 8744.8 | 9034.7 | 9879.7 | 10572.4 | 9648.8 |
| 27.5° | 8238.8 | 8106.1 | 8120.9 | 8017.7 | 7988.2 | 7988.2 | 8538.5 | 8710.4 | 9766.7 | 10508.5 | 9447.3 |
| 30° | 8459.9 | 8523.7 | 8528.6 | 8376.3 | 8224.0 | 7948.9 | 8346.9 | 8513.9 | 9673.3 | 10587.1 | 9329.4 |
| 32.5° | 9024.8 | 8995.4 | 8911.8 | 8882.4 | 8656.4 | 8346.9 | 8440.2 | 8553.2 | 9619.3 | 10764.0 | 9363.8 |
| 35° | 9589.8 | 9575.1 | 9580.0 | 9565.2 | 9329.4 | 8872.5 | 8690.8 | 8843.1 | 9717.5 | 11073.5 | 9481.7 |
| 37.5° | 10174.4 | 10213.7 | 10380.8 | 10380.8 | 10130.2 | 9634.0 | 9393.3 | 9349.1 | 10076.2 | 11579.5 | 9761.8 |
| 40° | 10759.1 | 10857.3 | 11068.6 | 11402.6 | 11048.9 | 10587.1 | 10199.0 | 10130.2 | 10508.5 | 12257.5 | 10434.8 |
| 42.5° | 11319.1 | 11481.2 | 11898.8 | 12395.0 | 12277.1 | 11815.3 | 11299.5 | 11220.9 | 11397.7 | 13264.6 | 11373.2 |
| 45° | 12036.4 | 12173.9 | 12832.3 | 13593.7 | 13755.9 | 13348.1 | 12743.8 | 12680.0 | 12670.1 | 14738.4 | 12665.2 |
| 47.5° | 13127.0 | 13274.4 | 13932.7 | 14699.1 | 15200.2 | 15264.1 | 14586.1 | 14517.4 | 14281.5 | 16728.1 | 14556.7 |
| 50° | 14492.8 | 14733.5 | 15288.7 | 16182.8 | 16909.9 | 17592.8 | 17401.2 | 17199.7 | 16737.9 | 19042.0 | 16954.1 |
| 52.5° | 15490.1 | 15784.9 | 16536.5 | 17681.2 | 18963.4 | 20049.2 | 20737.0 | 20737.0 | 19675.8 | 21582.0 | 19837.9 |
| 55° | 15755.4 | 15932.2 | 16880.4 | 18536.0 | 20732.1 | 23478.3 | 24917.8 | 24809.7 | 23173.7 | 24254.5 | 23193.4 |
| 57.5° | 14699.1 | 14930.0 | 16079.6 | 17813.8 | 21660.6 | 26686.4 | 29069.1 | 29093.7 | 26995.9 | 27359.4 | 26504.6 |
| 60° | 11790.7 | 11864.4 | 13220.4 | 15539.2 | 20766.4 | 29270.5 | 34738.5 | 34831.8 | 31343.7 | 30125.3 | 28189.7 |
| 62.5° | 8150.4 | 8386.2 | 9408.0 | 11441.9 | 17204.7 | 28980.7 | 40206.4 | 40668.2 | 34826.9 | 31584.5 | 28455.0 |
| 65° | 5364.8 | 5507.3 | 6052.6 | 7290.6 | 11977.4 | 25119.2 | 41906.3 | 43331.0 | 37489.6 | 31668.0 | 27344.7 |
| 67.5° | 3890.9 | 3915.5 | 4077.6 | 4716.3 | 7197.3 | 18064.4 | 39002.8 | 41012.1 | 38486.9 | 30970.3 | 24740.9 |
| 70° | 3144.2 | 3163.8 | 3222.8 | 3630.6 | 4647.5 | 11304.4 | 31810.4 | 34959.6 | 35495.0 | 27664.0 | 19926.4 |
| 72.5° | 2554.7 | 2579.2 | 2652.9 | 3036.1 | 3832.0 | 6288.4 | 23262.2 | 27099.1 | 28872.6 | 20466.8 | 13244.9 |
| 75° | 2009.3 | 2029.0 | 2205.9 | 2584.1 | 3601.1 | 4318.4 | 15431.1 | 19189.4 | 19430.2 | 11962.7 | 6200.0 |
| 77.5° | 1375.6 | 1410.0 | 1626.1 | 2191.1 | 3389.8 | 3778.0 | 9619.3 | 12291.8 | 11029.3 | 4681.9 | 2132.2 |
| 80° | 874.5 | 923.6 | 1051.3 | 1660.5 | 2996.8 | 3606.0 | 5983.8 | 7339.7 | 4829.3 | 1601.6 | 1026.8 |
| 82.5° | 515.8 | 565.0 | 692.7 | 1075.9 | 2353.2 | 3345.6 | 4215.2 | 4593.5 | 2264.8 | 820.4 | 619.0 |
| 85° | 284.9 | 319.3 | 417.6 | 648.5 | 1380.5 | 2972.2 | 3375.1 | 3296.5 | 1297.0 | 437.2 | 388.1 |
| 87.5° | 93.3 | 108.1 | 152.3 | 260.4 | 569.9 | 1400.2 | 2024.1 | 1901.3 | 673.1 | 201.4 | 152.3 |
| 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° | 12006.9 | 12006.9 | 12006.9 | 12006.9 | 12006.9 | 12006.9 | 12006.9 | 12006.9 | 12006.9 | 12006.9 | 12006.9 |
| 2.5° | 11997.1 | 11982.3 | 11761.3 | 11594.2 | 11309.3 | 11073.5 | 10980.1 | 10852.4 | 10847.5 | 10754.1 | 10729.6 |
| 5° | 11707.2 | 11554.9 | 11215.9 | 10891.7 | 10385.7 | 10046.7 | 9737.2 | 9521.0 | 9432.6 | 9241.0 | 9196.8 |
| 7.5° | 11333.9 | 11132.4 | 10611.7 | 10002.5 | 9408.0 | 8877.4 | 8396.0 | 7914.5 | 7644.3 | 7551.0 | 7447.8 |
| 10° | 10945.7 | 10592.0 | 9820.7 | 9137.8 | 8307.6 | 7492.0 | 6735.5 | 6057.5 | 5689.0 | 5428.7 | 5315.7 |
| 12.5° | 10636.2 | 10164.6 | 9182.0 | 8160.2 | 7064.6 | 5974.0 | 5094.6 | 4382.2 | 3964.6 | 3768.1 | 3679.7 |
| 15° | 10287.4 | 9663.5 | 8484.4 | 7192.4 | 5826.6 | 4588.6 | 3728.8 | 3168.8 | 3001.7 | 2908.4 | 2893.6 |
| 17.5° | 9919.0 | 9196.8 | 7727.8 | 6239.3 | 4618.0 | 3453.7 | 2898.6 | 2672.6 | 2598.9 | 2559.6 | 2539.9 |
| 20° | 9575.1 | 8779.2 | 6951.6 | 5178.1 | 3615.8 | 2770.8 | 2510.4 | 2392.5 | 2387.6 | 2407.3 | 2402.4 |
| 22.5° | 9088.7 | 8233.9 | 6185.2 | 4195.5 | 2888.7 | 2412.2 | 2245.2 | 2215.7 | 2245.2 | 2269.7 | 2279.5 |
| 25° | 8813.6 | 7786.8 | 5330.4 | 3330.9 | 2387.6 | 2142.0 | 2087.9 | 2078.1 | 2122.3 | 2151.8 | 2146.9 |
| 27.5° | 8528.6 | 7325.0 | 4534.5 | 2667.7 | 2092.9 | 1950.4 | 1940.6 | 1950.4 | 1994.6 | 2038.8 | 2033.9 |
| 30° | 8307.6 | 6956.5 | 3787.8 | 2230.4 | 1866.9 | 1812.8 | 1803.0 | 1812.8 | 1837.4 | 1842.3 | 1842.3 |
| 32.5° | 8125.8 | 6519.3 | 3154.0 | 1935.6 | 1729.3 | 1685.1 | 1694.9 | 1690.0 | 1694.9 | 1699.8 | 1704.7 |
| 35° | 8017.7 | 6258.9 | 2633.3 | 1753.9 | 1616.3 | 1581.9 | 1577.0 | 1562.3 | 1567.2 | 1572.1 | 1567.2 |
| 37.5° | 8248.6 | 6131.2 | 2220.6 | 1626.1 | 1537.7 | 1508.2 | 1498.4 | 1488.6 | 1473.8 | 1473.8 | 1473.8 |
| 40° | 8597.4 | 6062.4 | 1970.0 | 1542.6 | 1478.8 | 1444.4 | 1414.9 | 1405.1 | 1405.1 | 1410.0 | 1414.9 |
| 42.5° | 9290.1 | 6175.4 | 1798.1 | 1478.8 | 1405.1 | 1365.8 | 1336.3 | 1341.2 | 1355.9 | 1370.7 | 1360.8 |
| 45° | 10292.3 | 6519.3 | 1719.5 | 1429.6 | 1360.8 | 1306.8 | 1287.2 | 1282.2 | 1297.0 | 1321.5 | 1341.2 |
| 47.5° | 11604.1 | 7054.8 | 1690.0 | 1385.4 | 1331.4 | 1257.7 | 1233.1 | 1247.9 | 1267.5 | 1301.9 | 1287.2 |
| 50° | 13751.0 | 8258.4 | 1714.6 | 1346.1 | 1287.2 | 1233.1 | 1203.6 | 1188.9 | 1203.6 | 1228.2 | 1238.0 |
| 52.5° | 16556.2 | 10444.6 | 1807.9 | 1326.5 | 1257.7 | 1213.5 | 1164.3 | 1139.8 | 1154.5 | 1174.2 | 1174.2 |
| 55° | 19911.6 | 13431.6 | 2068.3 | 1301.9 | 1208.6 | 1184.0 | 1129.9 | 1080.8 | 1090.6 | 1090.6 | 1085.7 |
| 57.5° | 22869.1 | 15686.6 | 2377.8 | 1267.5 | 1179.1 | 1144.7 | 1075.9 | 1017.0 | 1007.1 | 1012.0 | 1017.0 |
| 60° | 24195.6 | 16286.0 | 2525.2 | 1257.7 | 1179.1 | 1095.6 | 1002.2 | 943.3 | 928.5 | 918.7 | 918.7 |
| 62.5° | 23964.7 | 15249.4 | 2225.5 | 1213.5 | 1208.6 | 1056.3 | 933.4 | 869.6 | 849.9 | 830.3 | 835.2 |
| 65° | 22569.4 | 13770.6 | 1753.9 | 1154.5 | 1213.5 | 1031.7 | 864.7 | 800.8 | 766.4 | 741.8 | 736.9 |
| 67.5° | 20019.7 | 11756.4 | 1390.3 | 1110.3 | 1164.3 | 987.5 | 805.7 | 732.0 | 702.5 | 678.0 | 668.1 |
| 70° | 15662.0 | 9216.4 | 1208.6 | 1051.3 | 1046.4 | 879.4 | 736.9 | 673.1 | 628.8 | 599.4 | 599.4 |
| 72.5° | 10154.8 | 5826.6 | 1036.6 | 933.4 | 904.0 | 736.9 | 638.7 | 599.4 | 565.0 | 540.4 | 540.4 |
| 75° | 4598.4 | 2707.0 | 835.2 | 781.1 | 736.9 | 589.5 | 540.4 | 520.8 | 491.3 | 466.7 | 466.7 |
| 77.5° | 1650.7 | 1154.5 | 623.9 | 614.1 | 550.2 | 456.9 | 437.2 | 422.5 | 402.9 | 378.3 | 378.3 |
| 80° | 923.6 | 732.0 | 466.7 | 447.1 | 383.2 | 339.0 | 314.4 | 314.4 | 304.6 | 289.9 | 284.9 |
| 82.5° | 584.6 | 476.5 | 343.9 | 299.7 | 250.6 | 226.0 | 216.2 | 211.3 | 206.3 | 186.7 | 181.8 |
| 85° | 368.5 | 324.2 | 226.0 | 176.9 | 147.4 | 113.0 | 108.1 | 103.2 | 93.3 | 83.5 | 83.5 |
| 87.5° | 167.0 | 186.7 | 88.4 | 54.0 | 39.3 | 24.6 | 14.7 | 4.9 | 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)