

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: P484453

Luminaire Tested: **IFLD-S-SA6D-750-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484453
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-750-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

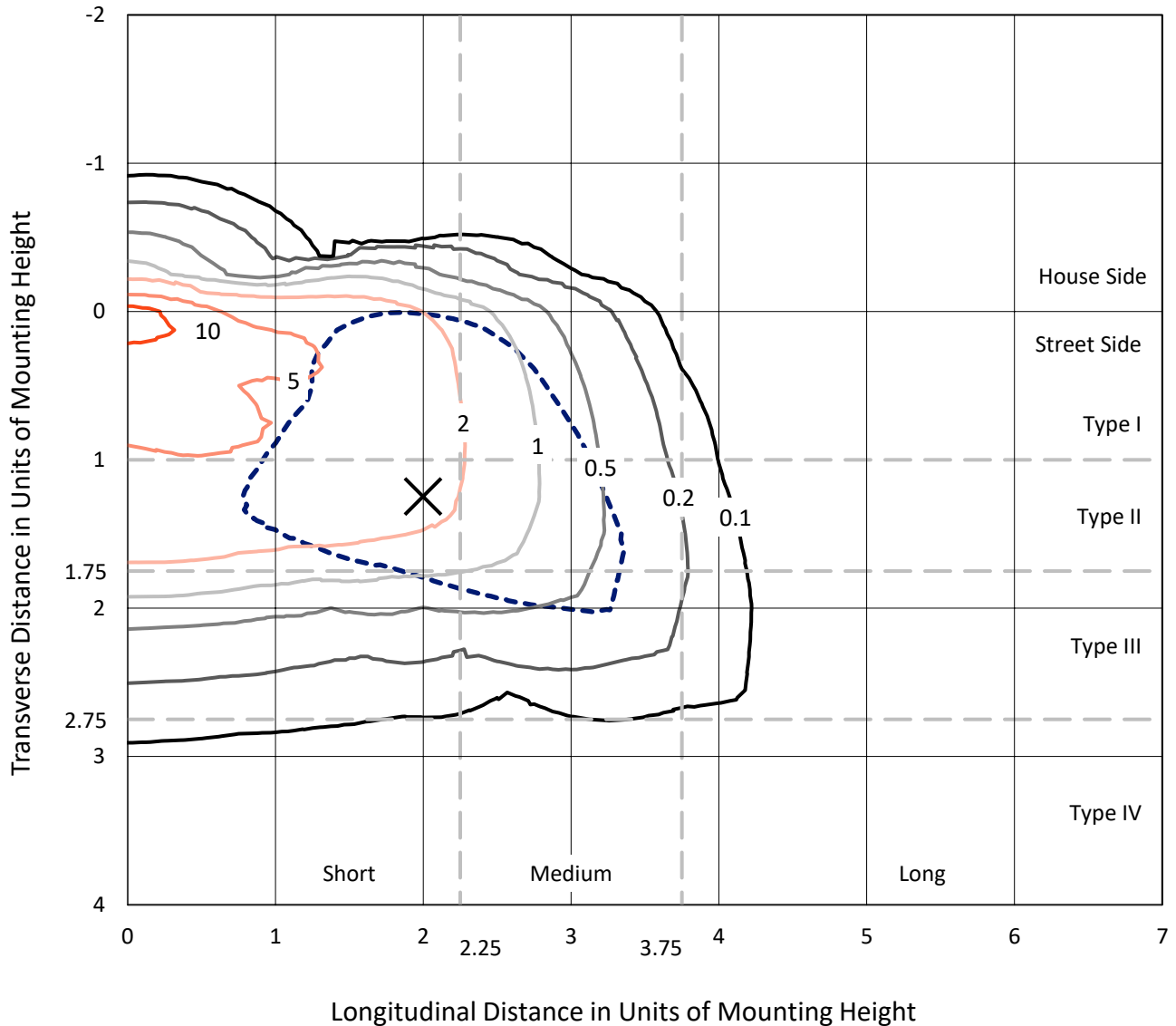
Lumens per Lamp: N/A
Luminaire Lumens: 39112.6 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2
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

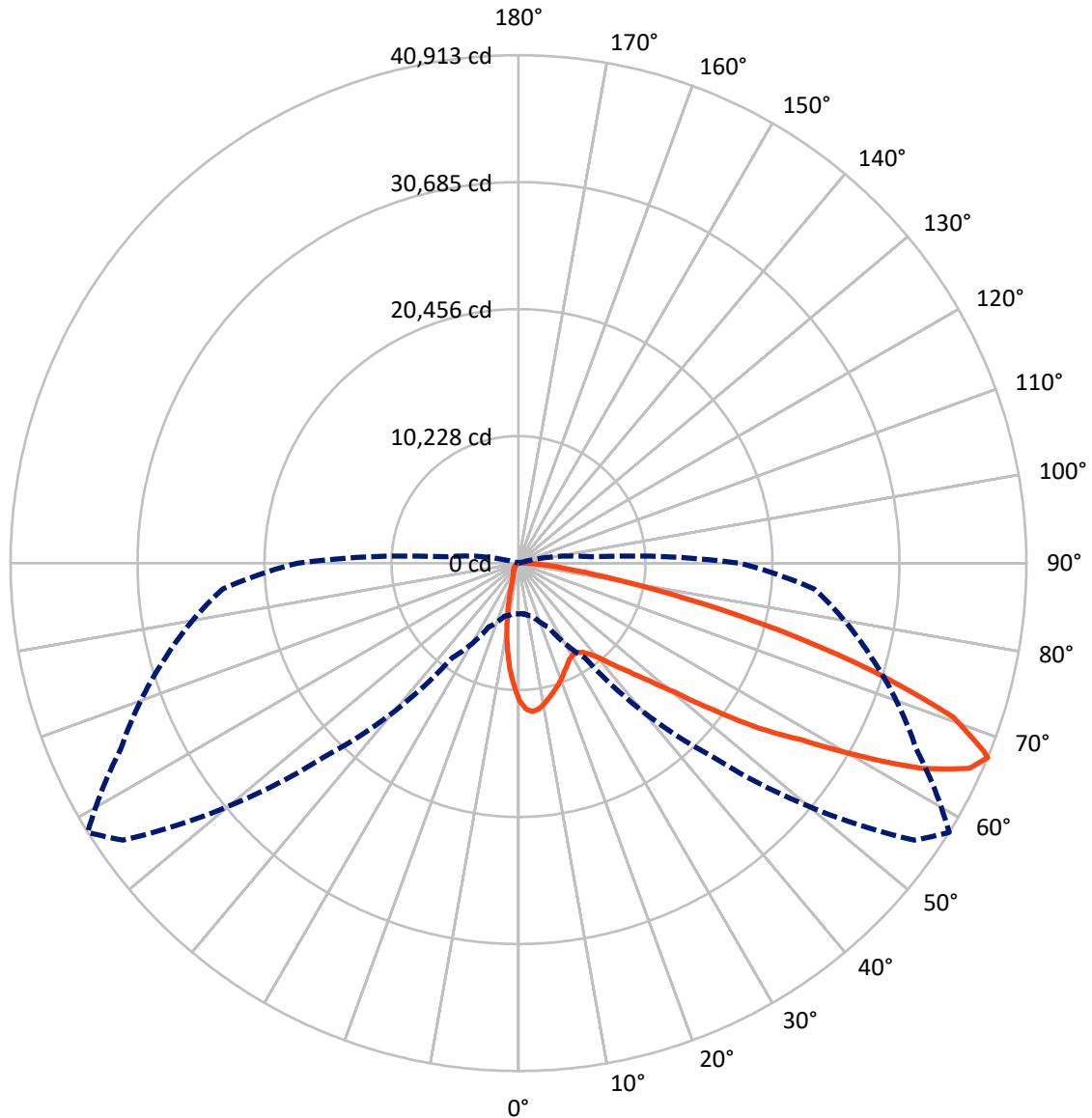
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3232.9 | 0.0 | 3232.9 |
| | % Fixture | 8.3 | 0.0 | 8.3 |
| Street Side | Lumens | 35879.7 | 0.0 | 35879.7 |
| | % Fixture | 91.7 | 0.0 | 91.7 |
| Total | Lumens | 39112.6 | 0.0 | 39112.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 879.2 | 2.2 |
| 10°-20° | 1823.7 | 4.7 |
| 20°-30° | 2419.7 | 6.2 |
| 30°-40° | 3352.9 | 8.6 |
| 40°-50° | 5470.9 | 14.0 |
| 50°-60° | 9616.1 | 24.6 |
| 60°-70° | 10650.6 | 27.2 |
| 70°-80° | 4413.6 | 11.3 |
| 80°-90° | 485.9 | 1.2 |
| 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° | 39112.6 | 100.0 |
| 0°-180° | 39112.6 | 100.0 |



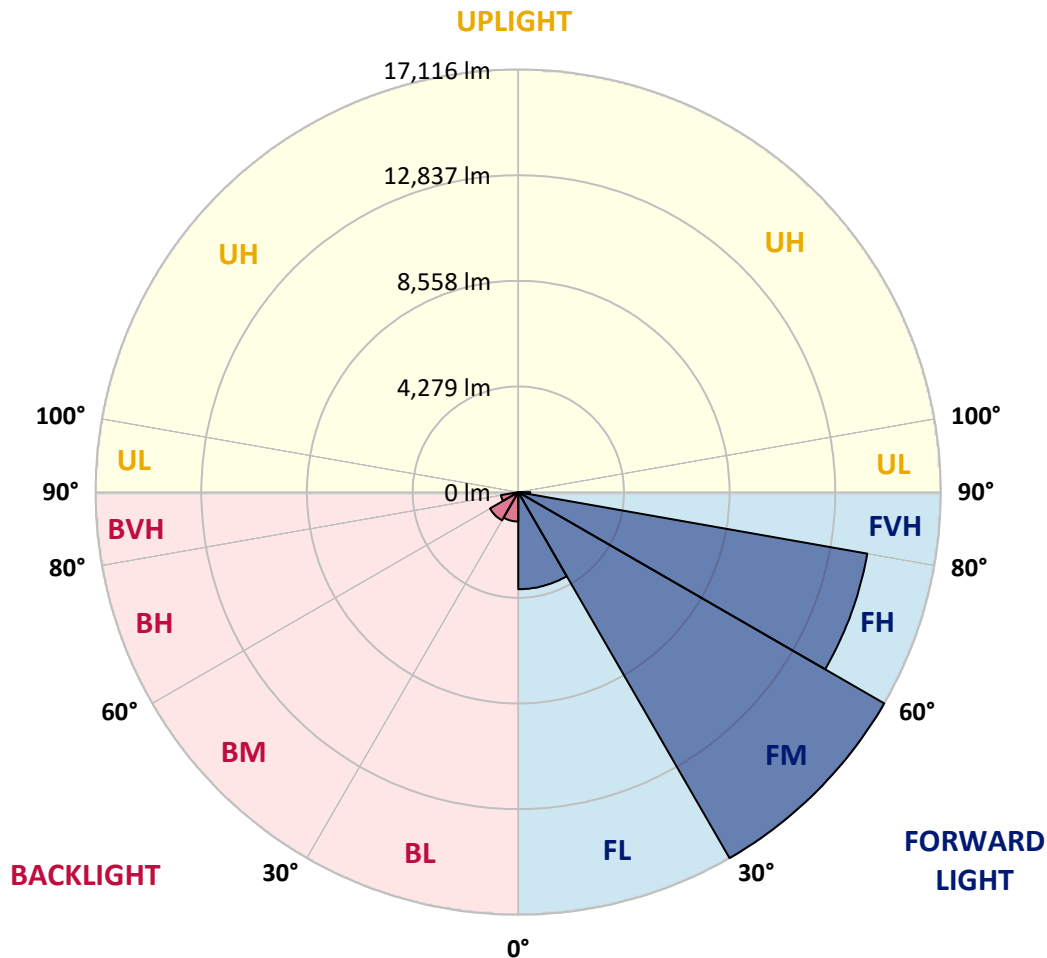
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3931.9 | 10.1 | | | |
| FM | (30°-60°) | 17116.5 | 43.8 | | | |
| FH | (60°-80°) | 14353.4 | 36.7 | | | G5 |
| FVH | (80°-90°) | 477.9 | 1.2 | | | G3/500 |
| BL | (0°-30°) | 1190.7 | 3.0 | B3/2500 | | |
| BM | (30°-60°) | 1323.4 | 3.4 | B2/2500 | | |
| BH | (60°-80°) | 710.8 | 1.8 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 8.0 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11081.1 | 11081.1 | 11081.1 | 11081.1 | 11081.1 | 11081.1 | 11081.1 | 11081.1 | 11081.1 | 11081.1 | 11081.1 |
| 2.5° | 12057.3 | 12098.9 | 12135.2 | 12067.7 | 12124.9 | 12041.8 | 11828.9 | 11782.1 | 11745.8 | 11429.0 | 11247.3 |
| 5° | 12052.2 | 12005.4 | 12041.8 | 12072.9 | 11995.0 | 12057.3 | 12005.4 | 12010.6 | 11870.4 | 11584.8 | 11075.9 |
| 7.5° | 11247.3 | 11226.5 | 11247.3 | 11397.9 | 11569.2 | 11704.2 | 11782.1 | 11860.0 | 11766.6 | 11340.8 | 10847.5 |
| 10° | 10162.0 | 10265.9 | 10323.0 | 10593.0 | 10857.8 | 11107.1 | 11351.1 | 11496.5 | 11470.6 | 11299.2 | 10598.2 |
| 12.5° | 9403.9 | 9372.7 | 9580.5 | 9757.0 | 10021.8 | 10525.5 | 10951.3 | 11086.3 | 11242.1 | 11003.2 | 10271.1 |
| 15° | 8702.9 | 8619.8 | 8744.4 | 9050.8 | 9502.6 | 9902.4 | 10499.6 | 10702.1 | 10899.4 | 10961.7 | 10094.5 |
| 17.5° | 8033.0 | 8074.6 | 8204.4 | 8479.6 | 8905.4 | 9466.2 | 10027.0 | 10317.8 | 10790.3 | 10707.3 | 9829.7 |
| 20° | 7711.1 | 7799.4 | 7846.1 | 7986.3 | 8282.3 | 8843.1 | 9679.1 | 9912.8 | 10416.5 | 10702.1 | 9570.1 |
| 22.5° | 7726.7 | 7726.7 | 7617.6 | 7700.7 | 7970.7 | 8406.9 | 9206.6 | 9466.2 | 10265.9 | 10432.0 | 9336.4 |
| 25° | 7892.8 | 7789.0 | 7794.2 | 7695.5 | 7809.8 | 8048.6 | 8780.8 | 9097.5 | 9959.5 | 10458.0 | 9211.8 |
| 27.5° | 8017.5 | 7996.7 | 7965.5 | 7939.6 | 7794.2 | 7830.5 | 8500.4 | 8760.0 | 9840.1 | 10426.9 | 9019.6 |
| 30° | 8469.2 | 8375.8 | 8344.6 | 8287.5 | 8095.4 | 7918.8 | 8277.1 | 8604.2 | 9746.6 | 10499.6 | 8910.6 |
| 32.5° | 8848.3 | 8863.9 | 8889.8 | 8723.7 | 8557.5 | 8121.3 | 8339.4 | 8599.0 | 9679.1 | 10665.7 | 9019.6 |
| 35° | 9326.0 | 9393.5 | 9403.9 | 9352.0 | 9175.4 | 8744.4 | 8599.0 | 8822.3 | 9793.3 | 10961.7 | 9030.0 |
| 37.5° | 10053.0 | 9980.3 | 10177.6 | 10198.4 | 10073.8 | 9502.6 | 9201.4 | 9289.7 | 10130.9 | 11434.2 | 9424.7 |
| 40° | 10525.5 | 10613.8 | 10982.5 | 11210.9 | 10998.0 | 10478.8 | 10073.8 | 10058.2 | 10619.0 | 12176.8 | 9912.8 |
| 42.5° | 11050.0 | 11247.3 | 11652.3 | 12145.6 | 12119.7 | 11636.7 | 11226.5 | 11159.0 | 11486.2 | 13251.7 | 10686.5 |
| 45° | 11766.6 | 11943.1 | 12509.1 | 13251.7 | 13656.7 | 13246.5 | 12628.5 | 12493.5 | 12540.3 | 14716.0 | 12005.4 |
| 47.5° | 12955.7 | 12908.9 | 13724.2 | 14456.4 | 15121.0 | 14804.3 | 14539.4 | 14144.8 | 14108.4 | 16439.9 | 13828.0 |
| 50° | 14300.6 | 14290.2 | 15017.2 | 15848.0 | 16616.5 | 17234.4 | 16793.0 | 16362.1 | 16372.4 | 18781.8 | 15972.6 |
| 52.5° | 15578.0 | 15780.5 | 16564.6 | 17390.2 | 18709.1 | 19373.8 | 19799.6 | 19628.2 | 18802.6 | 20874.5 | 18267.8 |
| 55° | 16253.0 | 16429.6 | 17208.5 | 18631.2 | 20713.5 | 22421.9 | 23574.7 | 23429.3 | 21835.1 | 23231.9 | 20531.8 |
| 57.5° | 15614.3 | 15733.7 | 16787.9 | 18652.0 | 22115.5 | 25926.9 | 27033.0 | 26851.2 | 24971.5 | 25033.8 | 23268.3 |
| 60° | 12940.1 | 13127.0 | 14695.2 | 16881.3 | 21570.3 | 28627.1 | 31794.6 | 31519.4 | 27827.4 | 27313.4 | 25028.6 |
| 62.5° | 8962.5 | 9087.1 | 10374.9 | 13095.9 | 18984.4 | 29567.0 | 36291.5 | 36442.1 | 30839.2 | 29089.3 | 25553.1 |
| 65° | 5805.4 | 5795.0 | 6532.4 | 8375.8 | 13454.2 | 26721.4 | 38950.1 | 39884.8 | 33747.1 | 29359.3 | 25392.1 |
| 67° | 4102.2 | 4086.6 | 4434.5 | 5680.8 | 9315.6 | 22016.9 | 38903.4 | 40912.9 | 35325.6 | 29437.2 | 23901.8 |
| 67.5° | 3785.4 | 3769.9 | 4102.2 | 5223.8 | 8406.9 | 20474.6 | 38321.8 | 40383.3 | 35881.3 | 29328.1 | 23247.5 |
| 70° | 2939.0 | 2897.5 | 3022.1 | 3598.5 | 4896.7 | 13241.3 | 32796.8 | 37096.3 | 34728.5 | 26607.2 | 18563.7 |
| 72.5° | 2123.8 | 2170.5 | 2367.9 | 2954.6 | 3842.6 | 7124.3 | 24997.4 | 29998.0 | 29006.2 | 20054.0 | 11797.7 |
| 75° | 1479.9 | 1521.4 | 1838.2 | 2409.4 | 3525.8 | 4320.3 | 16902.1 | 21757.2 | 20204.6 | 11070.7 | 5026.5 |
| 77.5° | 773.7 | 825.6 | 1173.5 | 1926.5 | 3203.9 | 3344.1 | 10099.7 | 13796.9 | 10707.3 | 3941.2 | 1386.4 |
| 80° | 358.3 | 384.3 | 586.8 | 1365.7 | 2679.4 | 2939.0 | 5888.5 | 7674.7 | 4283.9 | 882.8 | 477.7 |
| 82.5° | 155.8 | 171.4 | 270.0 | 784.1 | 1900.5 | 2570.4 | 3645.2 | 4024.3 | 1552.6 | 285.6 | 296.0 |
| 85° | 31.2 | 36.3 | 103.9 | 415.4 | 919.1 | 1557.8 | 2560.0 | 2388.6 | 778.9 | 140.2 | 233.7 |
| 87.5° | 0.0 | 0.0 | 26.0 | 119.4 | 249.2 | 462.1 | 1085.3 | 1085.3 | 238.9 | 72.7 | 88.3 |
| 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° | 11081.1 | 11081.1 | 11081.1 | 11081.1 | 11081.1 | 11081.1 | 11081.1 | 11081.1 | 11081.1 | 11081.1 | 11081.1 |
| 2.5° | 11086.3 | 10899.4 | 10489.2 | 10110.1 | 9840.1 | 9533.7 | 9128.7 | 8946.9 | 8879.4 | 8786.0 | 8645.8 |
| 5° | 10795.5 | 10567.1 | 9866.0 | 9159.8 | 8386.1 | 7799.4 | 7176.3 | 6812.8 | 6537.6 | 6366.2 | 6309.1 |
| 7.5° | 10385.3 | 9918.0 | 8972.9 | 7840.9 | 6838.7 | 5966.4 | 5021.3 | 4382.6 | 3972.4 | 3806.2 | 3650.4 |
| 10° | 10058.2 | 9450.6 | 8012.3 | 6605.1 | 5270.5 | 3993.2 | 2928.7 | 2367.9 | 1942.1 | 1781.1 | 1760.3 |
| 12.5° | 9632.4 | 8905.4 | 7113.9 | 5343.2 | 3666.0 | 2378.2 | 1620.1 | 1407.2 | 1287.8 | 1267.0 | 1251.4 |
| 15° | 9279.3 | 8412.1 | 6262.3 | 4138.5 | 2373.0 | 1485.1 | 1261.8 | 1209.9 | 1178.7 | 1168.3 | 1173.5 |
| 17.5° | 9040.4 | 7882.5 | 5390.0 | 3011.7 | 1563.0 | 1215.1 | 1163.2 | 1132.0 | 1116.4 | 1111.2 | 1095.7 |
| 20° | 8567.9 | 7435.9 | 4528.0 | 2108.2 | 1220.3 | 1121.6 | 1080.1 | 1054.1 | 1038.5 | 1033.3 | 1028.1 |
| 22.5° | 8297.9 | 6869.9 | 3666.0 | 1469.5 | 1085.3 | 1017.8 | 986.6 | 965.8 | 939.9 | 924.3 | 919.1 |
| 25° | 8027.8 | 6454.5 | 2897.5 | 1142.4 | 986.6 | 939.9 | 893.1 | 867.2 | 825.6 | 804.9 | 799.7 |
| 27.5° | 7711.1 | 6044.3 | 2232.8 | 991.8 | 887.9 | 841.2 | 794.5 | 752.9 | 701.0 | 680.2 | 669.9 |
| 30° | 7529.4 | 5644.4 | 1682.4 | 887.9 | 815.2 | 752.9 | 695.8 | 643.9 | 586.8 | 550.4 | 540.0 |
| 32.5° | 7435.9 | 5280.9 | 1261.8 | 810.1 | 737.4 | 669.9 | 597.2 | 534.8 | 482.9 | 451.8 | 446.6 |
| 35° | 7321.6 | 4927.8 | 991.8 | 737.4 | 664.7 | 592.0 | 519.3 | 457.0 | 405.0 | 379.1 | 368.7 |
| 37.5° | 7441.1 | 4720.1 | 825.6 | 680.2 | 607.5 | 524.5 | 446.6 | 384.3 | 342.7 | 316.8 | 311.6 |
| 40° | 7768.2 | 4548.8 | 716.6 | 628.3 | 550.4 | 462.1 | 389.4 | 327.1 | 290.8 | 270.0 | 259.6 |
| 42.5° | 8271.9 | 4548.8 | 649.1 | 576.4 | 498.5 | 405.0 | 332.3 | 285.6 | 249.2 | 228.5 | 223.3 |
| 45° | 9185.8 | 4689.0 | 592.0 | 524.5 | 436.2 | 347.9 | 285.6 | 238.9 | 202.5 | 181.7 | 176.6 |
| 47.5° | 10468.4 | 5010.9 | 545.2 | 477.7 | 389.4 | 306.4 | 249.2 | 202.5 | 166.2 | 145.4 | 140.2 |
| 50° | 12192.4 | 5743.1 | 498.5 | 420.6 | 347.9 | 264.8 | 207.7 | 161.0 | 129.8 | 109.0 | 103.9 |
| 52.5° | 14342.1 | 6781.6 | 451.8 | 389.4 | 296.0 | 223.3 | 166.2 | 129.8 | 98.7 | 83.1 | 77.9 |
| 55° | 16616.5 | 8053.8 | 394.6 | 347.9 | 254.4 | 186.9 | 135.0 | 98.7 | 72.7 | 62.3 | 57.1 |
| 57.5° | 18906.5 | 9035.2 | 347.9 | 301.2 | 207.7 | 150.6 | 109.0 | 77.9 | 51.9 | 41.5 | 36.3 |
| 60° | 20121.5 | 9128.7 | 301.2 | 249.2 | 166.2 | 119.4 | 83.1 | 57.1 | 36.3 | 26.0 | 20.8 |
| 62.5° | 20308.5 | 8297.9 | 259.6 | 202.5 | 135.0 | 93.5 | 57.1 | 41.5 | 20.8 | 10.4 | 10.4 |
| 65° | 19347.8 | 6916.6 | 223.3 | 161.0 | 103.9 | 67.5 | 41.5 | 26.0 | 10.4 | 5.2 | 0.0 |
| 67° | 17790.0 | 5795.0 | 192.1 | 135.0 | 83.1 | 51.9 | 31.2 | 15.6 | 5.2 | 0.0 | 0.0 |
| 67.5° | 17187.7 | 5483.4 | 181.7 | 124.6 | 77.9 | 46.7 | 26.0 | 15.6 | 5.2 | 0.0 | 0.0 |
| 70° | 13339.9 | 3915.3 | 135.0 | 88.3 | 57.1 | 36.3 | 20.8 | 10.4 | 0.0 | 0.0 | 0.0 |
| 72.5° | 8173.2 | 2290.0 | 103.9 | 62.3 | 41.5 | 26.0 | 15.6 | 5.2 | 0.0 | 0.0 | 0.0 |
| 75° | 3427.2 | 789.3 | 88.3 | 46.7 | 31.2 | 15.6 | 10.4 | 5.2 | 0.0 | 0.0 | 0.0 |
| 77.5° | 893.1 | 296.0 | 62.3 | 31.2 | 20.8 | 15.6 | 10.4 | 5.2 | 0.0 | 0.0 | 0.0 |
| 80° | 363.5 | 135.0 | 41.5 | 20.8 | 20.8 | 15.6 | 10.4 | 5.2 | 0.0 | 0.0 | 0.0 |
| 82.5° | 238.9 | 62.3 | 26.0 | 20.8 | 15.6 | 10.4 | 5.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 181.7 | 36.3 | 15.6 | 15.6 | 10.4 | 5.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 77.9 | 20.8 | 15.6 | 10.4 | 10.4 | 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)