

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: P480358

Luminaire Tested: **IFLD-S-SA6D-722-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480358
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-722-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

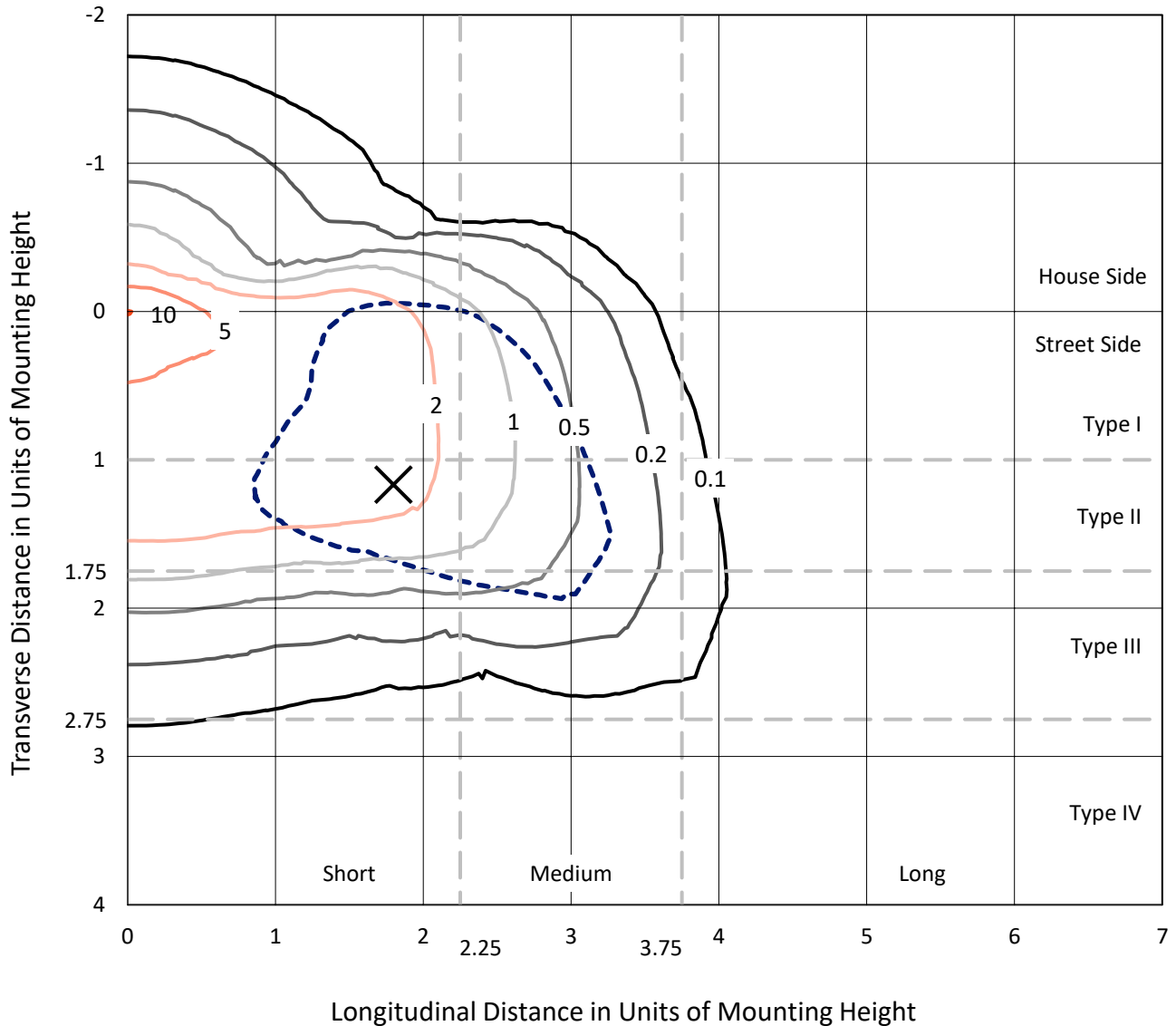
Lumens per Lamp: N/A
Luminaire Lumens: 33231.6 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

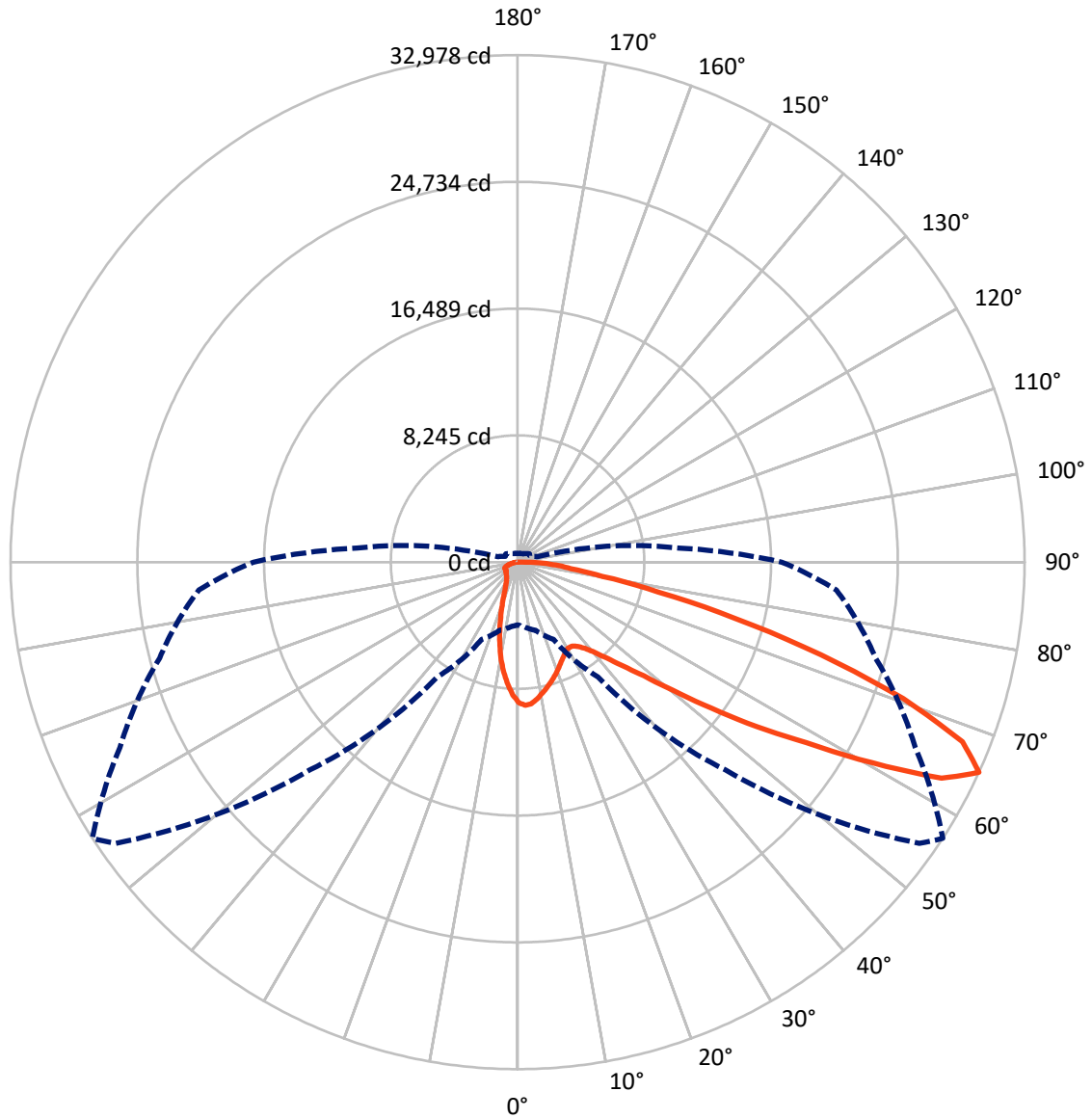
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.2 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 | 5096.4 | 0.0 | 5096.4 |
| | % Fixture | 15.3 | 0.0 | 15.3 |
| Street Side | Lumens | 28135.2 | 0.0 | 28135.2 |
| | % Fixture | 84.7 | 0.0 | 84.7 |
| Total | Lumens | 33231.6 | 0.0 | 33231.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 765.2 | 2.3 |
| 10°-20° | 1647.0 | 5.0 |
| 20°-30° | 2129.4 | 6.4 |
| 30°-40° | 2865.4 | 8.6 |
| 40°-50° | 4569.0 | 13.7 |
| 50°-60° | 8070.1 | 24.3 |
| 60°-70° | 8878.1 | 26.7 |
| 70°-80° | 3713.9 | 11.2 |
| 80°-90° | 593.5 | 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° | 33231.6 | 100.0 |
| 0°-180° | 33231.6 | 100.0 |

Coefficient of Utilization



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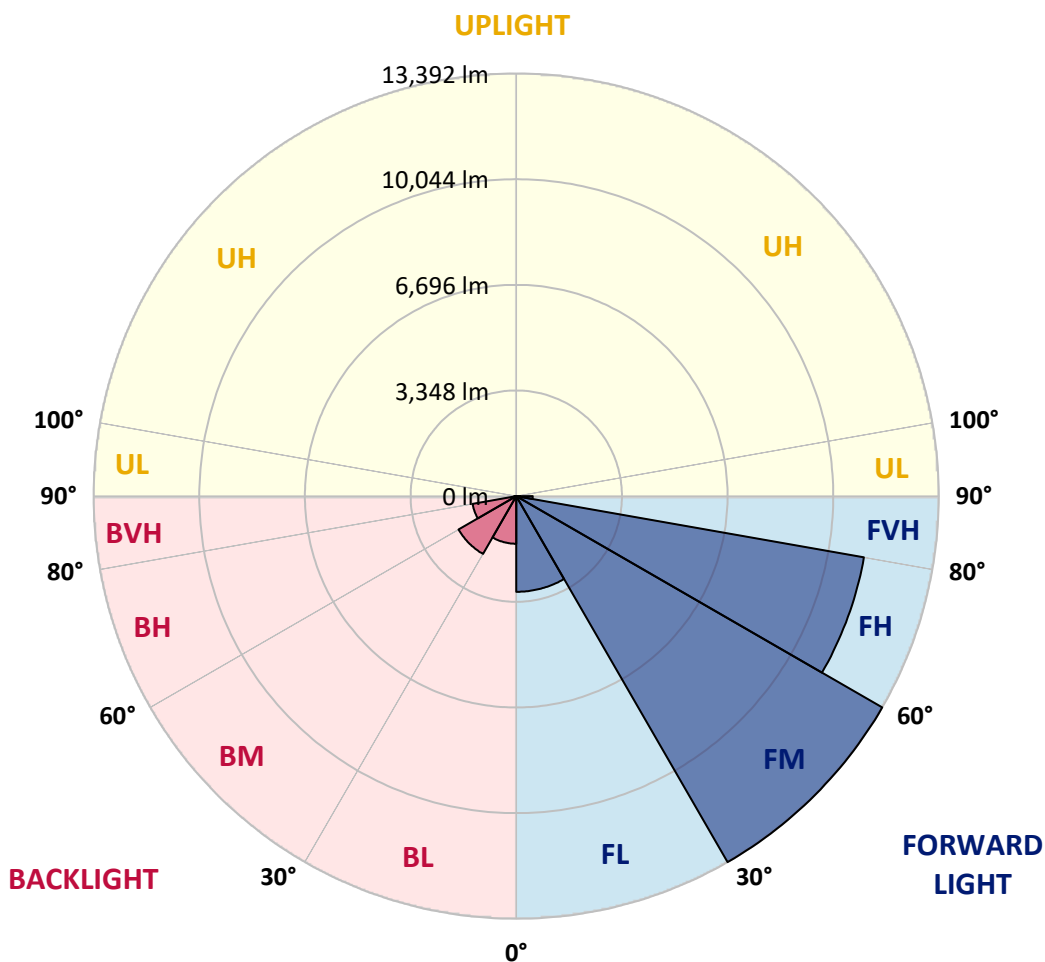
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3032.3 | 9.1 | | | |
| FM (30°-60°) | 13392.3 | 40.3 | | | |
| FH (60°-80°) | 11186.8 | 33.7 | | | G4/12000 |
| FVH (80°-90°) | 523.9 | 1.6 | | | G4/750 |
| BL (0°-30°) | 1509.3 | 4.5 | B3/2500 | | |
| BM (30°-60°) | 2112.2 | 6.4 | B2/2500 | | |
| BH (60°-80°) | 1405.2 | 4.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 69.6 | 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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9138.2 | 9138.2 | 9138.2 | 9138.2 | 9138.2 | 9138.2 | 9138.2 | 9138.2 | 9138.2 | 9138.2 | 9138.2 |
| 2.5° | 9385.0 | 9400.0 | 9400.0 | 9429.9 | 9328.9 | 9377.5 | 9370.1 | 9325.2 | 9340.1 | 9261.6 | 9183.1 |
| 5° | 9119.5 | 9108.3 | 9168.1 | 9175.6 | 9254.1 | 9276.6 | 9295.3 | 9265.4 | 9272.8 | 9100.8 | 9026.1 |
| 7.5° | 8439.0 | 8435.3 | 8536.2 | 8622.2 | 8786.8 | 8940.1 | 9041.0 | 9011.1 | 9052.2 | 8943.8 | 8768.1 |
| 10° | 7631.4 | 7717.4 | 7822.1 | 7908.1 | 8210.9 | 8405.4 | 8667.1 | 8693.3 | 8850.3 | 8824.2 | 8506.3 |
| 12.5° | 7025.7 | 7063.1 | 7141.6 | 7388.4 | 7665.0 | 7986.6 | 8360.5 | 8394.2 | 8547.5 | 8622.2 | 8345.6 |
| 15° | 6528.4 | 6562.0 | 6663.0 | 6846.2 | 7156.5 | 7537.9 | 8012.8 | 8098.8 | 8405.4 | 8431.6 | 8136.2 |
| 17.5° | 6165.7 | 6191.9 | 6259.2 | 6442.4 | 6696.6 | 7186.5 | 7635.1 | 7788.4 | 8192.3 | 8319.4 | 7919.3 |
| 20° | 6023.6 | 5967.5 | 6004.9 | 6120.8 | 6375.1 | 6752.7 | 7332.3 | 7466.9 | 7982.9 | 8233.4 | 7713.7 |
| 22.5° | 5960.0 | 5911.4 | 5933.9 | 5926.4 | 6128.3 | 6397.5 | 7007.0 | 7149.1 | 7784.7 | 8132.4 | 7530.4 |
| 25° | 6008.6 | 6008.6 | 5986.2 | 5967.5 | 5990.0 | 6165.7 | 6655.5 | 6876.1 | 7519.2 | 8046.4 | 7343.5 |
| 27.5° | 6270.4 | 6169.4 | 6180.6 | 6102.1 | 6079.7 | 6079.7 | 6498.5 | 6629.3 | 7433.2 | 7997.8 | 7190.2 |
| 30° | 6438.6 | 6487.2 | 6491.0 | 6375.1 | 6259.2 | 6049.8 | 6352.6 | 6479.8 | 7362.2 | 8057.6 | 7100.5 |
| 32.5° | 6868.6 | 6846.2 | 6782.6 | 6760.2 | 6588.2 | 6352.6 | 6423.7 | 6509.7 | 7321.1 | 8192.3 | 7126.6 |
| 35° | 7298.6 | 7287.4 | 7291.1 | 7279.9 | 7100.5 | 6752.7 | 6614.4 | 6730.3 | 7395.8 | 8427.8 | 7216.4 |
| 37.5° | 7743.6 | 7773.5 | 7900.6 | 7900.6 | 7709.9 | 7332.3 | 7149.1 | 7115.4 | 7668.8 | 8812.9 | 7429.5 |
| 40° | 8188.5 | 8263.3 | 8424.1 | 8678.3 | 8409.1 | 8057.6 | 7762.3 | 7709.9 | 7997.8 | 9328.9 | 7941.7 |
| 42.5° | 8614.8 | 8738.2 | 9056.0 | 9433.6 | 9343.9 | 8992.4 | 8599.8 | 8540.0 | 8674.6 | 10095.4 | 8655.9 |
| 45° | 9160.7 | 9265.4 | 9766.4 | 10345.9 | 10469.3 | 10159.0 | 9699.1 | 9650.5 | 9643.0 | 11217.1 | 9639.3 |
| 47.5° | 9990.7 | 10102.9 | 10603.9 | 11187.2 | 11568.6 | 11617.2 | 11101.2 | 11048.9 | 10869.4 | 12731.5 | 11078.8 |
| 50° | 11030.2 | 11213.4 | 11635.9 | 12316.4 | 12869.8 | 13389.5 | 13243.7 | 13090.4 | 12738.9 | 14492.5 | 12903.5 |
| 52.5° | 11789.2 | 12013.6 | 12585.6 | 13456.8 | 14432.7 | 15259.1 | 15782.5 | 15782.5 | 14974.9 | 16425.6 | 15098.3 |
| 55° | 11991.1 | 12125.7 | 12847.4 | 14107.4 | 15778.8 | 17868.9 | 18964.5 | 18882.2 | 17637.1 | 18459.7 | 17652.0 |
| 57.5° | 11187.2 | 11363.0 | 12237.9 | 13557.8 | 16485.5 | 20310.5 | 22123.9 | 22142.6 | 20546.1 | 20822.8 | 20172.2 |
| 60° | 8973.7 | 9029.8 | 10061.8 | 11826.6 | 15805.0 | 22277.2 | 26438.8 | 26509.8 | 23855.1 | 22927.8 | 21454.7 |
| 62.5° | 6203.1 | 6382.6 | 7160.3 | 8708.2 | 13094.1 | 22056.6 | 30600.4 | 30951.8 | 26506.1 | 24038.3 | 21656.6 |
| 65° | 4083.0 | 4191.5 | 4606.5 | 5548.7 | 9115.8 | 19117.8 | 31894.1 | 32978.4 | 28532.7 | 24101.9 | 20811.5 |
| 67.5° | 2961.3 | 2980.0 | 3103.4 | 3589.5 | 5477.7 | 13748.5 | 29684.3 | 31213.6 | 29291.7 | 23571.0 | 18829.8 |
| 70° | 2393.0 | 2407.9 | 2452.8 | 2763.2 | 3537.1 | 8603.5 | 24210.3 | 26607.1 | 27014.6 | 21054.6 | 15165.6 |
| 72.5° | 1944.3 | 1963.0 | 2019.1 | 2310.7 | 2916.5 | 4786.0 | 17704.4 | 20624.6 | 21974.4 | 15576.9 | 10080.5 |
| 75° | 1529.3 | 1544.2 | 1678.8 | 1966.7 | 2740.7 | 3286.6 | 11744.3 | 14604.7 | 14787.9 | 9104.6 | 4718.7 |
| 77.5° | 1046.9 | 1073.1 | 1237.6 | 1667.6 | 2579.9 | 2875.3 | 7321.1 | 9355.1 | 8394.2 | 3563.3 | 1622.7 |
| 80° | 665.6 | 702.9 | 800.2 | 1263.8 | 2280.8 | 2744.5 | 4554.2 | 5586.1 | 3675.5 | 1218.9 | 781.5 |
| 82.5° | 392.6 | 430.0 | 527.2 | 818.9 | 1791.0 | 2546.3 | 3208.1 | 3496.0 | 1723.7 | 624.4 | 471.1 |
| 85° | 216.9 | 243.0 | 317.8 | 493.6 | 1050.7 | 2262.1 | 2568.7 | 2508.9 | 987.1 | 332.8 | 295.4 |
| 87.5° | 71.0 | 82.3 | 115.9 | 198.2 | 433.7 | 1065.6 | 1540.5 | 1447.0 | 512.2 | 153.3 | 115.9 |
| 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° | 9138.2 | 9138.2 | 9138.2 | 9138.2 | 9138.2 | 9138.2 | 9138.2 | 9138.2 | 9138.2 | 9138.2 | 9138.2 |
| 2.5° | 9130.8 | 9119.5 | 8951.3 | 8824.2 | 8607.3 | 8427.8 | 8356.8 | 8259.6 | 8255.8 | 8184.8 | 8166.1 |
| 5° | 8910.2 | 8794.2 | 8536.2 | 8289.5 | 7904.3 | 7646.4 | 7410.8 | 7246.3 | 7179.0 | 7033.1 | 6999.5 |
| 7.5° | 8626.0 | 8472.7 | 8076.3 | 7612.7 | 7160.3 | 6756.5 | 6390.0 | 6023.6 | 5818.0 | 5746.9 | 5668.4 |
| 10° | 8330.6 | 8061.4 | 7474.4 | 6954.6 | 6322.7 | 5702.0 | 5126.2 | 4610.2 | 4329.8 | 4131.6 | 4045.6 |
| 12.5° | 8095.0 | 7736.1 | 6988.3 | 6210.6 | 5376.8 | 4546.7 | 3877.4 | 3335.2 | 3017.4 | 2867.8 | 2800.5 |
| 15° | 7829.6 | 7354.7 | 6457.3 | 5474.0 | 4434.5 | 3492.3 | 2837.9 | 2411.7 | 2284.6 | 2213.5 | 2202.3 |
| 17.5° | 7549.1 | 6999.5 | 5881.5 | 4748.6 | 3514.7 | 2628.6 | 2206.0 | 2034.0 | 1978.0 | 1948.0 | 1933.1 |
| 20° | 7287.4 | 6681.7 | 5290.8 | 3941.0 | 2751.9 | 2108.8 | 1910.7 | 1820.9 | 1817.2 | 1832.1 | 1828.4 |
| 22.5° | 6917.2 | 6266.6 | 4707.5 | 3193.1 | 2198.6 | 1835.9 | 1708.7 | 1686.3 | 1708.7 | 1727.4 | 1734.9 |
| 25° | 6707.9 | 5926.4 | 4056.9 | 2535.1 | 1817.2 | 1630.2 | 1589.1 | 1581.6 | 1615.3 | 1637.7 | 1634.0 |
| 27.5° | 6491.0 | 5574.9 | 3451.1 | 2030.3 | 1592.8 | 1484.4 | 1476.9 | 1484.4 | 1518.1 | 1551.7 | 1548.0 |
| 30° | 6322.7 | 5294.5 | 2882.8 | 1697.5 | 1420.8 | 1379.7 | 1372.2 | 1379.7 | 1398.4 | 1402.1 | 1402.1 |
| 32.5° | 6184.4 | 4961.7 | 2400.5 | 1473.2 | 1316.1 | 1282.5 | 1290.0 | 1286.2 | 1290.0 | 1293.7 | 1297.4 |
| 35° | 6102.1 | 4763.5 | 2004.1 | 1334.8 | 1230.1 | 1204.0 | 1200.2 | 1189.0 | 1192.8 | 1196.5 | 1192.8 |
| 37.5° | 6277.9 | 4666.3 | 1690.0 | 1237.6 | 1170.3 | 1147.9 | 1140.4 | 1132.9 | 1121.7 | 1121.7 | 1121.7 |
| 40° | 6543.3 | 4614.0 | 1499.4 | 1174.1 | 1125.5 | 1099.3 | 1076.8 | 1069.4 | 1069.4 | 1073.1 | 1076.8 |
| 42.5° | 7070.5 | 4700.0 | 1368.5 | 1125.5 | 1069.4 | 1039.5 | 1017.0 | 1020.8 | 1032.0 | 1043.2 | 1035.7 |
| 45° | 7833.3 | 4961.7 | 1308.7 | 1088.1 | 1035.7 | 994.6 | 979.6 | 975.9 | 987.1 | 1005.8 | 1020.8 |
| 47.5° | 8831.6 | 5369.3 | 1286.2 | 1054.4 | 1013.3 | 957.2 | 938.5 | 949.7 | 964.7 | 990.8 | 979.6 |
| 50° | 10465.6 | 6285.3 | 1304.9 | 1024.5 | 979.6 | 938.5 | 916.1 | 904.8 | 916.1 | 934.8 | 942.2 |
| 52.5° | 12600.6 | 7949.2 | 1376.0 | 1009.5 | 957.2 | 923.5 | 886.2 | 867.5 | 878.7 | 893.6 | 893.6 |
| 55° | 15154.4 | 10222.6 | 1574.1 | 990.8 | 919.8 | 901.1 | 860.0 | 822.6 | 830.1 | 830.1 | 826.3 |
| 57.5° | 17405.3 | 11938.8 | 1809.7 | 964.7 | 897.4 | 871.2 | 818.9 | 774.0 | 766.5 | 770.2 | 774.0 |
| 60° | 18414.8 | 12394.9 | 1921.9 | 957.2 | 897.4 | 833.8 | 762.8 | 717.9 | 706.7 | 699.2 | 699.2 |
| 62.5° | 18239.1 | 11606.0 | 1693.8 | 923.5 | 919.8 | 803.9 | 710.4 | 661.8 | 646.9 | 631.9 | 635.6 |
| 65° | 17177.2 | 10480.6 | 1334.8 | 878.7 | 923.5 | 785.2 | 658.1 | 609.5 | 583.3 | 564.6 | 560.9 |
| 67.5° | 15236.6 | 8947.5 | 1058.2 | 845.0 | 886.2 | 751.5 | 613.2 | 557.1 | 534.7 | 516.0 | 508.5 |
| 70° | 11920.1 | 7014.5 | 919.8 | 800.2 | 796.4 | 669.3 | 560.9 | 512.2 | 478.6 | 456.2 | 456.2 |
| 72.5° | 7728.6 | 4434.5 | 788.9 | 710.4 | 688.0 | 560.9 | 486.1 | 456.2 | 430.0 | 411.3 | 411.3 |
| 75° | 3499.7 | 2060.2 | 635.6 | 594.5 | 560.9 | 448.7 | 411.3 | 396.3 | 373.9 | 355.2 | 355.2 |
| 77.5° | 1256.3 | 878.7 | 474.9 | 467.4 | 418.8 | 347.7 | 332.8 | 321.6 | 306.6 | 287.9 | 287.9 |
| 80° | 702.9 | 557.1 | 355.2 | 340.3 | 291.6 | 258.0 | 239.3 | 239.3 | 231.8 | 220.6 | 216.9 |
| 82.5° | 444.9 | 362.7 | 261.7 | 228.1 | 190.7 | 172.0 | 164.5 | 160.8 | 157.0 | 142.1 | 138.3 |
| 85° | 280.4 | 246.8 | 172.0 | 134.6 | 112.2 | 86.0 | 82.3 | 78.5 | 71.0 | 63.6 | 63.6 |
| 87.5° | 127.1 | 142.1 | 67.3 | 41.1 | 29.9 | 18.7 | 11.2 | 3.7 | 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)