

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: P480383

Luminaire Tested: **IFLD-S-SA3E-727-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480383
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-727-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

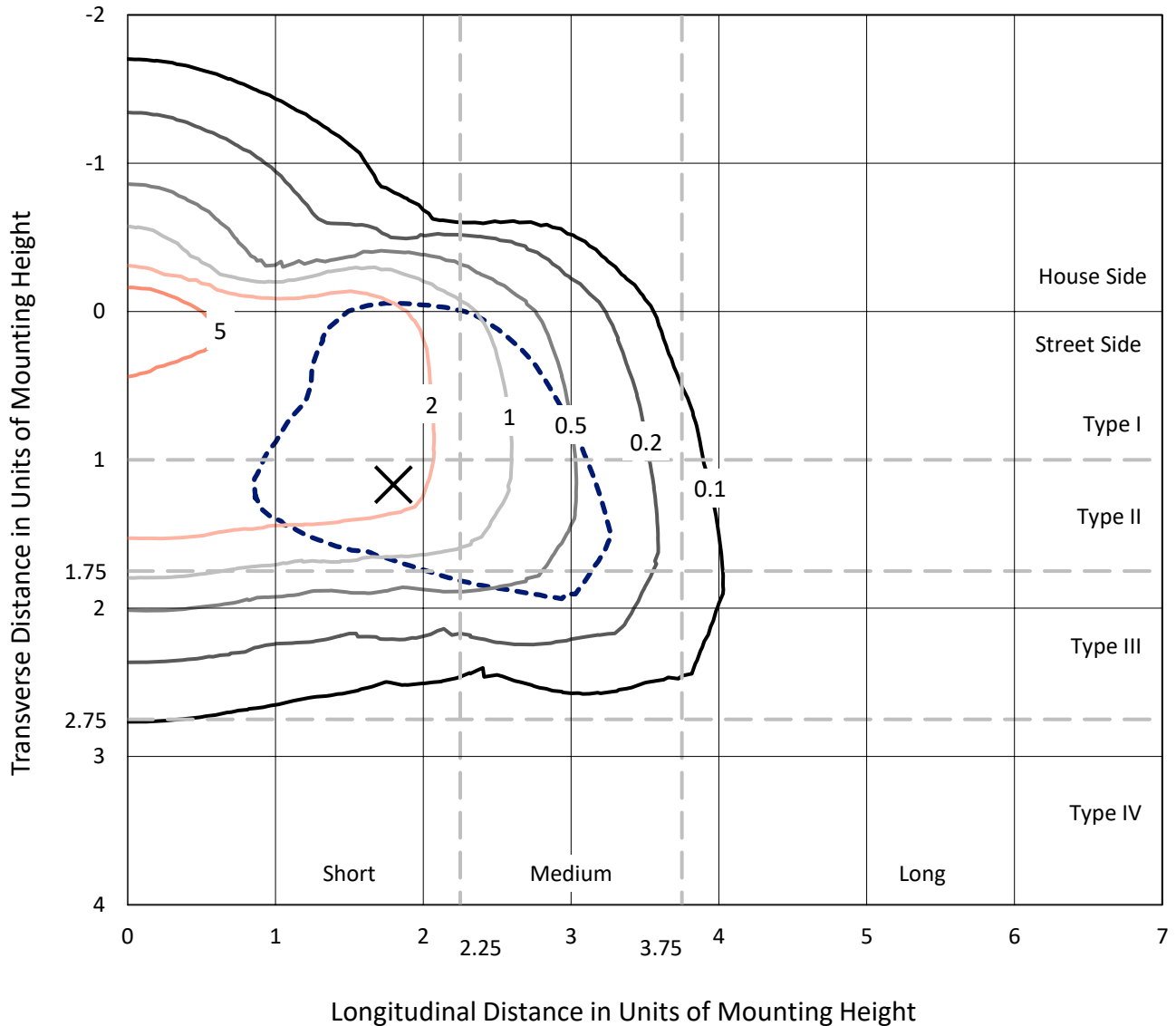
Lumens per Lamp: N/A
Luminaire Lumens: 22258.4 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 232.1
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

REPORT NUMBER: P480383
 CATALOG NUMBER: IFLD-S-SA3E-727-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

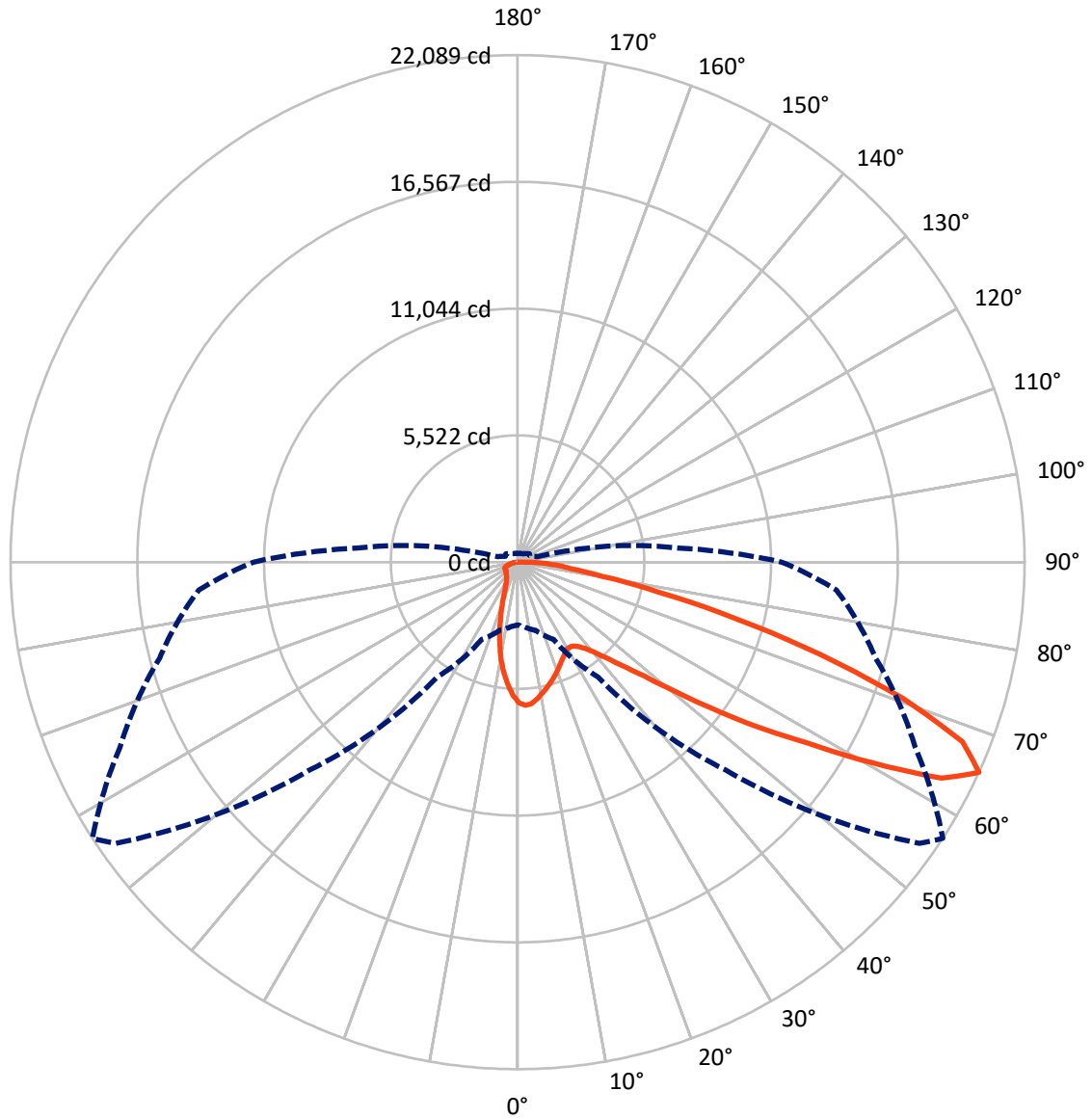
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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 | 3413.5 | 0.0 | 3413.5 |
| | % Fixture | 15.3 | 0.0 | 15.3 |
| Street Side | Lumens | 18844.8 | 0.0 | 18844.8 |
| | % Fixture | 84.7 | 0.0 | 84.7 |
| Total | Lumens | 22258.4 | 0.0 | 22258.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 512.6 | 2.3 |
| 10°-20° | 1103.1 | 5.0 |
| 20°-30° | 1426.2 | 6.4 |
| 30°-40° | 1919.2 | 8.6 |
| 40°-50° | 3060.3 | 13.7 |
| 50°-60° | 5405.3 | 24.3 |
| 60°-70° | 5946.5 | 26.7 |
| 70°-80° | 2487.5 | 11.2 |
| 80°-90° | 397.6 | 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° | 22258.4 | 100.0 |
| 0°-180° | 22258.4 | 100.0 |



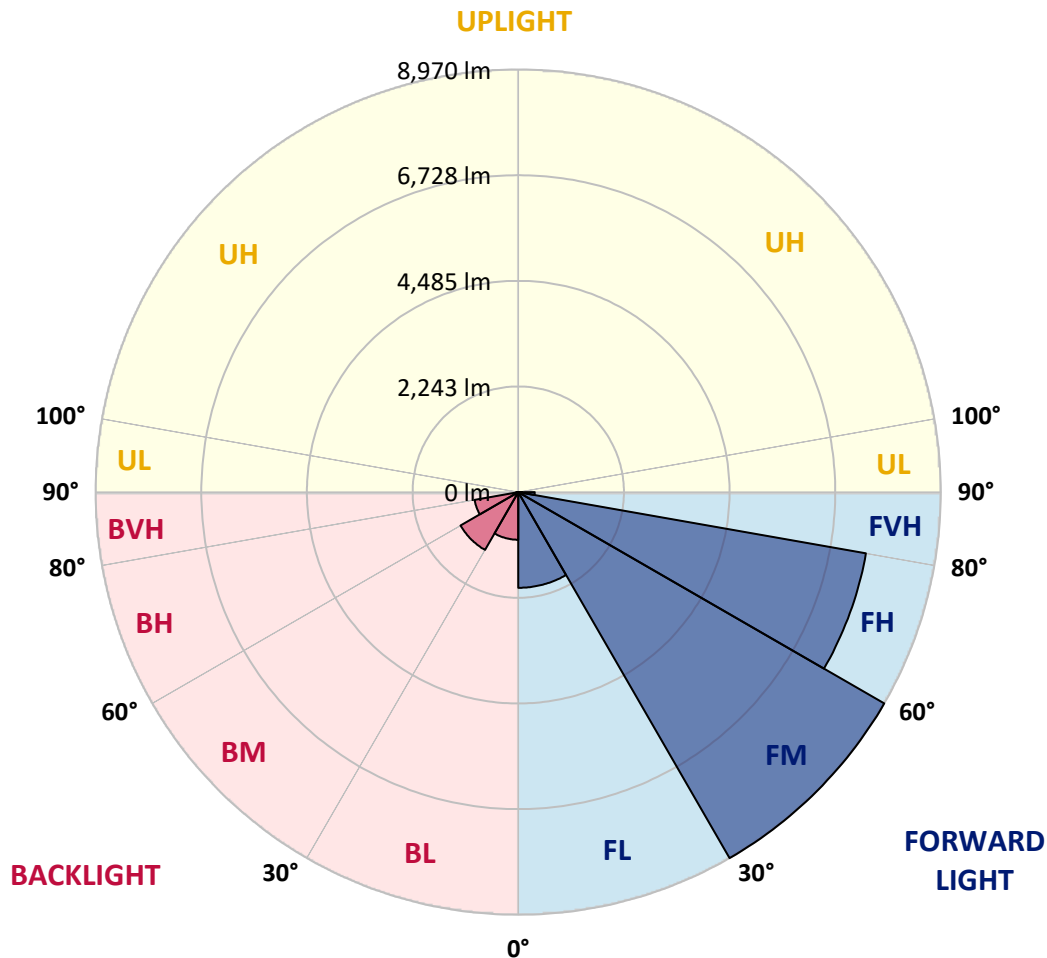
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 CATALOG NUMBER: IFLD-S-SA3E-727-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2031.0 | 9.1 | | | |
| FM (30°-60°) | 8970.1 | 40.3 | | | |
| FH (60°-80°) | 7492.8 | 33.7 | | | G3/7500 |
| FVH (80°-90°) | 350.9 | 1.6 | | | G3/500 |
| BL (0°-30°) | 1010.9 | 4.5 | B3/2500 | | |
| BM (30°-60°) | 1414.8 | 6.4 | B2/2500 | | |
| BH (60°-80°) | 941.2 | 4.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 46.6 | 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-G3

Type III Short





REPORT NUMBER: P480383

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6120.7 | 6120.7 | 6120.7 | 6120.7 | 6120.7 | 6120.7 | 6120.7 | 6120.7 | 6120.7 | 6120.7 | 6120.7 |
| 2.5° | 6286.0 | 6296.0 | 6296.0 | 6316.1 | 6248.5 | 6281.0 | 6276.0 | 6246.0 | 6256.0 | 6203.4 | 6150.8 |
| 5° | 6108.2 | 6100.7 | 6140.8 | 6145.8 | 6198.4 | 6213.4 | 6225.9 | 6205.9 | 6210.9 | 6095.7 | 6045.6 |
| 7.5° | 5652.4 | 5649.9 | 5717.5 | 5775.1 | 5885.3 | 5988.0 | 6055.6 | 6035.6 | 6063.1 | 5990.5 | 5872.8 |
| 10° | 5111.5 | 5169.1 | 5239.2 | 5296.8 | 5499.6 | 5629.9 | 5805.2 | 5822.7 | 5927.9 | 5910.4 | 5697.5 |
| 12.5° | 4705.8 | 4730.8 | 4783.4 | 4948.7 | 5134.0 | 5349.4 | 5599.8 | 5622.4 | 5725.0 | 5775.1 | 5589.8 |
| 15° | 4372.7 | 4395.2 | 4462.8 | 4585.5 | 4793.4 | 5048.9 | 5366.9 | 5424.5 | 5629.9 | 5647.4 | 5449.6 |
| 17.5° | 4129.7 | 4147.3 | 4192.4 | 4315.1 | 4485.4 | 4813.4 | 5114.0 | 5216.7 | 5487.1 | 5572.3 | 5304.3 |
| 20° | 4034.6 | 3997.0 | 4022.1 | 4099.7 | 4270.0 | 4522.9 | 4911.1 | 5001.3 | 5346.9 | 5514.7 | 5166.6 |
| 22.5° | 3992.0 | 3959.4 | 3974.5 | 3969.5 | 4104.7 | 4285.0 | 4693.2 | 4788.4 | 5214.1 | 5447.1 | 5043.8 |
| 25° | 4024.6 | 4024.6 | 4009.5 | 3997.0 | 4012.0 | 4129.7 | 4457.8 | 4605.6 | 5036.3 | 5389.5 | 4918.6 |
| 27.5° | 4199.9 | 4132.2 | 4139.8 | 4087.2 | 4072.1 | 4072.1 | 4352.6 | 4440.3 | 4978.7 | 5356.9 | 4815.9 |
| 30° | 4312.6 | 4345.1 | 4347.6 | 4270.0 | 4192.4 | 4052.1 | 4255.0 | 4340.1 | 4931.2 | 5397.0 | 4755.8 |
| 32.5° | 4600.6 | 4585.5 | 4543.0 | 4527.9 | 4412.7 | 4255.0 | 4302.5 | 4360.1 | 4903.6 | 5487.1 | 4773.4 |
| 35° | 4888.6 | 4881.1 | 4883.6 | 4876.1 | 4755.8 | 4522.9 | 4430.3 | 4507.9 | 4953.7 | 5644.9 | 4833.5 |
| 37.5° | 5186.6 | 5206.6 | 5291.8 | 5291.8 | 5164.1 | 4911.1 | 4788.4 | 4765.9 | 5136.5 | 5902.9 | 4976.2 |
| 40° | 5484.6 | 5534.7 | 5642.4 | 5812.7 | 5632.4 | 5397.0 | 5199.1 | 5164.1 | 5356.9 | 6248.5 | 5319.3 |
| 42.5° | 5770.1 | 5852.8 | 6065.6 | 6318.6 | 6258.5 | 6023.1 | 5760.1 | 5720.0 | 5810.2 | 6761.9 | 5797.7 |
| 45° | 6135.8 | 6205.9 | 6541.5 | 6929.7 | 7012.3 | 6804.4 | 6496.4 | 6463.8 | 6458.8 | 7513.2 | 6456.3 |
| 47.5° | 6691.7 | 6766.9 | 7102.5 | 7493.1 | 7748.6 | 7781.2 | 7435.5 | 7400.5 | 7280.3 | 8527.5 | 7420.5 |
| 50° | 7388.0 | 7510.7 | 7793.7 | 8249.5 | 8620.1 | 8968.2 | 8870.6 | 8767.9 | 8532.5 | 9707.0 | 8642.7 |
| 52.5° | 7896.4 | 8046.6 | 8429.8 | 9013.3 | 9667.0 | 10220.4 | 10571.0 | 10571.0 | 10030.1 | 11001.8 | 10112.7 |
| 55° | 8031.6 | 8121.7 | 8605.1 | 9449.1 | 10568.5 | 11968.5 | 12702.3 | 12647.2 | 11813.2 | 12364.2 | 11823.2 |
| 57.5° | 7493.1 | 7610.9 | 8196.9 | 9080.9 | 11041.9 | 13603.9 | 14818.5 | 14831.0 | 13761.6 | 13947.0 | 13511.2 |
| 60° | 6010.5 | 6048.1 | 6739.3 | 7921.4 | 10586.1 | 14921.2 | 17708.6 | 17756.1 | 15978.0 | 15356.9 | 14370.2 |
| 62.5° | 4154.8 | 4275.0 | 4795.9 | 5832.7 | 8770.4 | 14773.4 | 20496.0 | 20731.4 | 17753.6 | 16100.7 | 14505.4 |
| 65° | 2734.8 | 2807.4 | 3085.4 | 3716.5 | 6105.7 | 12805.0 | 21362.5 | 22088.8 | 19111.0 | 16143.3 | 13939.5 |
| 67.5° | 1983.5 | 1996.0 | 2078.6 | 2404.2 | 3668.9 | 9208.7 | 19882.4 | 20906.7 | 19619.4 | 15787.7 | 12612.1 |
| 70° | 1602.8 | 1612.8 | 1642.9 | 1850.7 | 2369.2 | 5762.6 | 16215.9 | 17821.3 | 18094.2 | 14102.2 | 10157.8 |
| 72.5° | 1302.3 | 1314.8 | 1352.4 | 1547.7 | 1953.4 | 3205.6 | 11858.3 | 13814.2 | 14718.3 | 10433.3 | 6751.8 |
| 75° | 1024.3 | 1034.3 | 1124.5 | 1317.3 | 1835.7 | 2201.4 | 7866.3 | 9782.2 | 9904.9 | 6098.2 | 3160.5 |
| 77.5° | 701.2 | 718.8 | 829.0 | 1117.0 | 1728.0 | 1925.9 | 4903.6 | 6266.0 | 5622.4 | 2386.7 | 1086.9 |
| 80° | 445.8 | 470.8 | 535.9 | 846.5 | 1527.7 | 1838.2 | 3050.4 | 3741.6 | 2461.8 | 816.4 | 523.4 |
| 82.5° | 263.0 | 288.0 | 353.1 | 548.5 | 1199.6 | 1705.5 | 2148.8 | 2341.6 | 1154.5 | 418.2 | 315.6 |
| 85° | 145.3 | 162.8 | 212.9 | 330.6 | 703.7 | 1515.2 | 1720.5 | 1680.4 | 661.2 | 222.9 | 197.8 |
| 87.5° | 47.6 | 55.1 | 77.6 | 132.7 | 290.5 | 713.8 | 1031.8 | 969.2 | 343.1 | 102.7 | 77.6 |
| 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° | 6120.7 | 6120.7 | 6120.7 | 6120.7 | 6120.7 | 6120.7 | 6120.7 | 6120.7 | 6120.7 | 6120.7 | 6120.7 |
| 2.5° | 6115.7 | 6108.2 | 5995.5 | 5910.4 | 5765.1 | 5644.9 | 5597.3 | 5532.2 | 5529.7 | 5482.1 | 5469.6 |
| 5° | 5968.0 | 5890.3 | 5717.5 | 5552.2 | 5294.3 | 5121.5 | 4963.7 | 4853.5 | 4808.4 | 4710.8 | 4688.2 |
| 7.5° | 5777.6 | 5675.0 | 5409.5 | 5098.9 | 4795.9 | 4525.4 | 4280.0 | 4034.6 | 3896.8 | 3849.3 | 3796.7 |
| 10° | 5579.8 | 5399.5 | 5006.3 | 4658.2 | 4234.9 | 3819.2 | 3433.5 | 3087.9 | 2900.1 | 2767.4 | 2709.8 |
| 12.5° | 5422.0 | 5181.6 | 4680.7 | 4159.8 | 3601.3 | 3045.3 | 2597.1 | 2233.9 | 2021.0 | 1920.9 | 1875.8 |
| 15° | 5244.2 | 4926.1 | 4325.1 | 3666.4 | 2970.2 | 2339.1 | 1900.8 | 1615.3 | 1530.2 | 1482.6 | 1475.1 |
| 17.5° | 5056.4 | 4688.2 | 3939.4 | 3180.6 | 2354.1 | 1760.6 | 1477.6 | 1362.4 | 1324.8 | 1304.8 | 1294.8 |
| 20° | 4881.1 | 4475.4 | 3543.7 | 2639.6 | 1843.2 | 1412.5 | 1279.7 | 1219.6 | 1217.1 | 1227.2 | 1224.6 |
| 22.5° | 4633.1 | 4197.4 | 3153.0 | 2138.8 | 1472.6 | 1229.7 | 1144.5 | 1129.5 | 1144.5 | 1157.0 | 1162.0 |
| 25° | 4492.9 | 3969.5 | 2717.3 | 1698.0 | 1217.1 | 1091.9 | 1064.4 | 1059.4 | 1081.9 | 1096.9 | 1094.4 |
| 27.5° | 4347.6 | 3734.1 | 2311.6 | 1359.9 | 1066.9 | 994.2 | 989.2 | 994.2 | 1016.8 | 1039.3 | 1036.8 |
| 30° | 4234.9 | 3546.2 | 1930.9 | 1137.0 | 951.7 | 924.1 | 919.1 | 924.1 | 936.6 | 939.1 | 939.1 |
| 32.5° | 4142.3 | 3323.3 | 1607.8 | 986.7 | 881.5 | 859.0 | 864.0 | 861.5 | 864.0 | 866.5 | 869.0 |
| 35° | 4087.2 | 3190.6 | 1342.4 | 894.1 | 823.9 | 806.4 | 803.9 | 796.4 | 798.9 | 801.4 | 798.9 |
| 37.5° | 4204.9 | 3125.5 | 1132.0 | 829.0 | 783.9 | 768.8 | 763.8 | 758.8 | 751.3 | 751.3 | 751.3 |
| 40° | 4382.7 | 3090.4 | 1004.3 | 786.4 | 753.8 | 736.3 | 721.3 | 716.3 | 716.3 | 718.8 | 721.3 |
| 42.5° | 4735.8 | 3148.0 | 916.6 | 753.8 | 716.3 | 696.2 | 681.2 | 683.7 | 691.2 | 698.7 | 693.7 |
| 45° | 5246.7 | 3323.3 | 876.5 | 728.8 | 693.7 | 666.2 | 656.2 | 653.6 | 661.2 | 673.7 | 683.7 |
| 47.5° | 5915.4 | 3596.3 | 861.5 | 706.2 | 678.7 | 641.1 | 628.6 | 636.1 | 646.1 | 663.7 | 656.2 |
| 50° | 7009.8 | 4209.9 | 874.0 | 686.2 | 656.2 | 628.6 | 613.6 | 606.1 | 613.6 | 626.1 | 631.1 |
| 52.5° | 8439.8 | 5324.3 | 921.6 | 676.2 | 641.1 | 618.6 | 593.5 | 581.0 | 588.5 | 598.6 | 598.6 |
| 55° | 10150.3 | 6847.0 | 1054.3 | 663.7 | 616.1 | 603.6 | 576.0 | 551.0 | 556.0 | 556.0 | 553.5 |
| 57.5° | 11658.0 | 7996.5 | 1212.1 | 646.1 | 601.1 | 583.5 | 548.5 | 518.4 | 513.4 | 515.9 | 518.4 |
| 60° | 12334.1 | 8302.1 | 1287.3 | 641.1 | 601.1 | 558.5 | 510.9 | 480.8 | 473.3 | 468.3 | 468.3 |
| 62.5° | 12216.4 | 7773.6 | 1134.5 | 618.6 | 616.1 | 538.4 | 475.8 | 443.3 | 433.3 | 423.2 | 425.7 |
| 65° | 11505.2 | 7019.8 | 894.1 | 588.5 | 618.6 | 525.9 | 440.8 | 408.2 | 390.7 | 378.2 | 375.7 |
| 67.5° | 10205.4 | 5993.0 | 708.7 | 566.0 | 593.5 | 503.4 | 410.7 | 373.2 | 358.1 | 345.6 | 340.6 |
| 70° | 7984.0 | 4698.2 | 616.1 | 535.9 | 533.4 | 448.3 | 375.7 | 343.1 | 320.6 | 305.5 | 305.5 |
| 72.5° | 5176.6 | 2970.2 | 528.4 | 475.8 | 460.8 | 375.7 | 325.6 | 305.5 | 288.0 | 275.5 | 275.5 |
| 75° | 2344.1 | 1379.9 | 425.7 | 398.2 | 375.7 | 300.5 | 275.5 | 265.5 | 250.4 | 237.9 | 237.9 |
| 77.5° | 841.5 | 588.5 | 318.1 | 313.0 | 280.5 | 232.9 | 222.9 | 215.4 | 205.4 | 192.8 | 192.8 |
| 80° | 470.8 | 373.2 | 237.9 | 227.9 | 195.3 | 172.8 | 160.3 | 160.3 | 155.3 | 147.8 | 145.3 |
| 82.5° | 298.0 | 242.9 | 175.3 | 152.8 | 127.7 | 115.2 | 110.2 | 107.7 | 105.2 | 95.2 | 92.7 |
| 85° | 187.8 | 165.3 | 115.2 | 90.2 | 75.1 | 57.6 | 55.1 | 52.6 | 47.6 | 42.6 | 42.6 |
| 87.5° | 85.1 | 95.2 | 45.1 | 27.5 | 20.0 | 12.5 | 7.5 | 2.5 | 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)