

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: P483951

Luminaire Tested: **IFLD-M-SA4D-730-U-SL2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483951
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-730-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

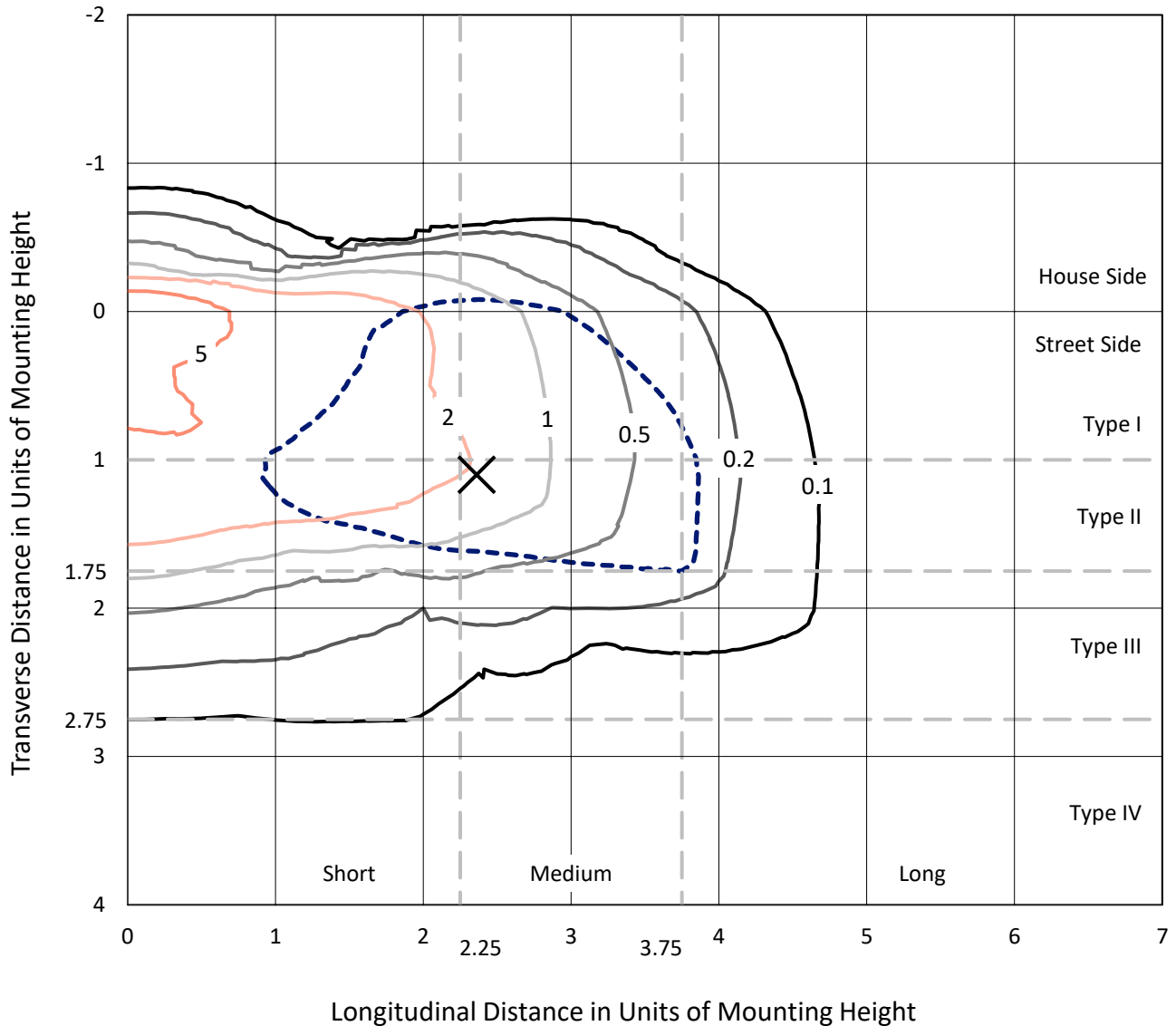
Lumens per Lamp: N/A
Luminaire Lumens: 23446.4 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.7
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

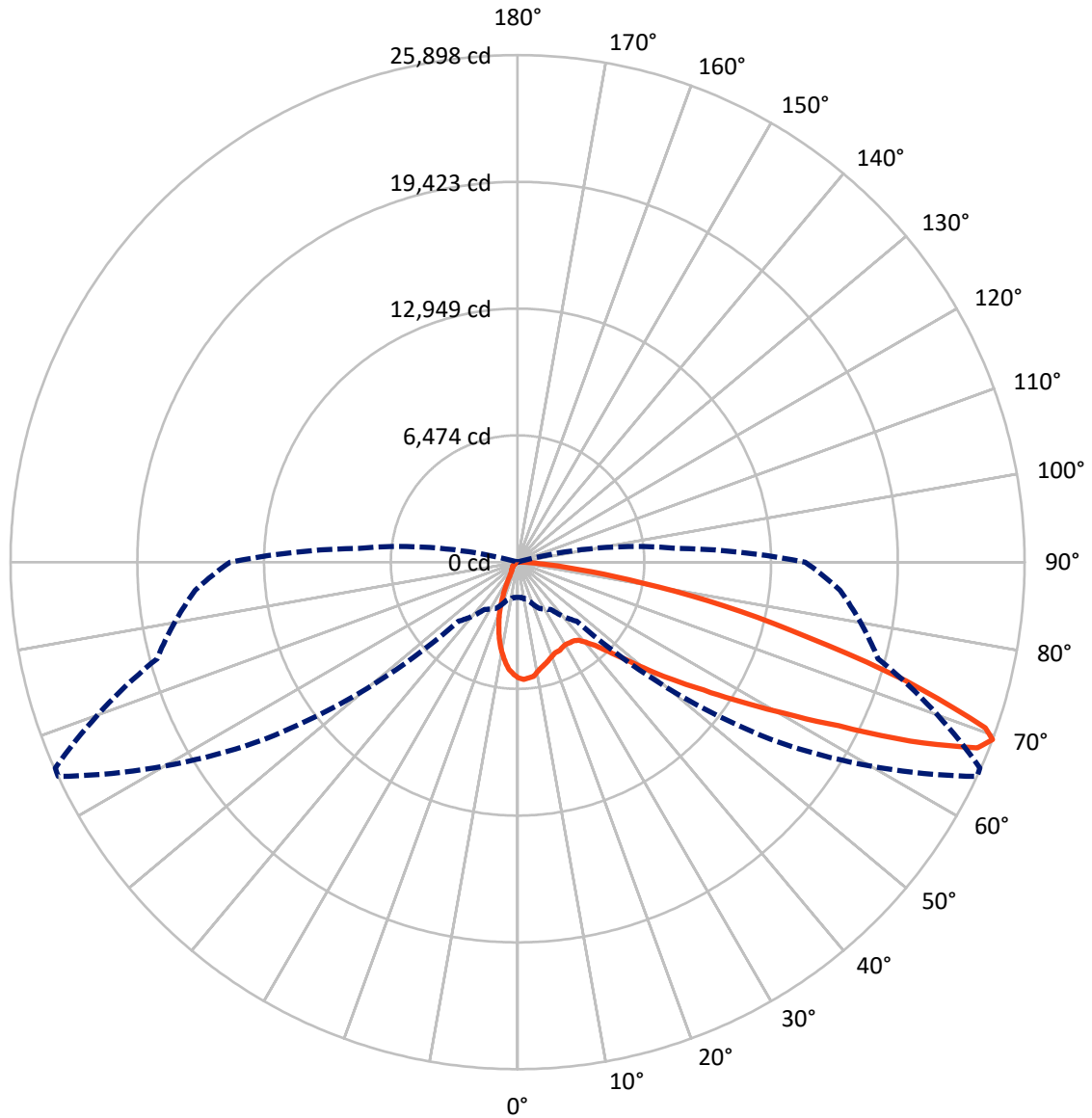
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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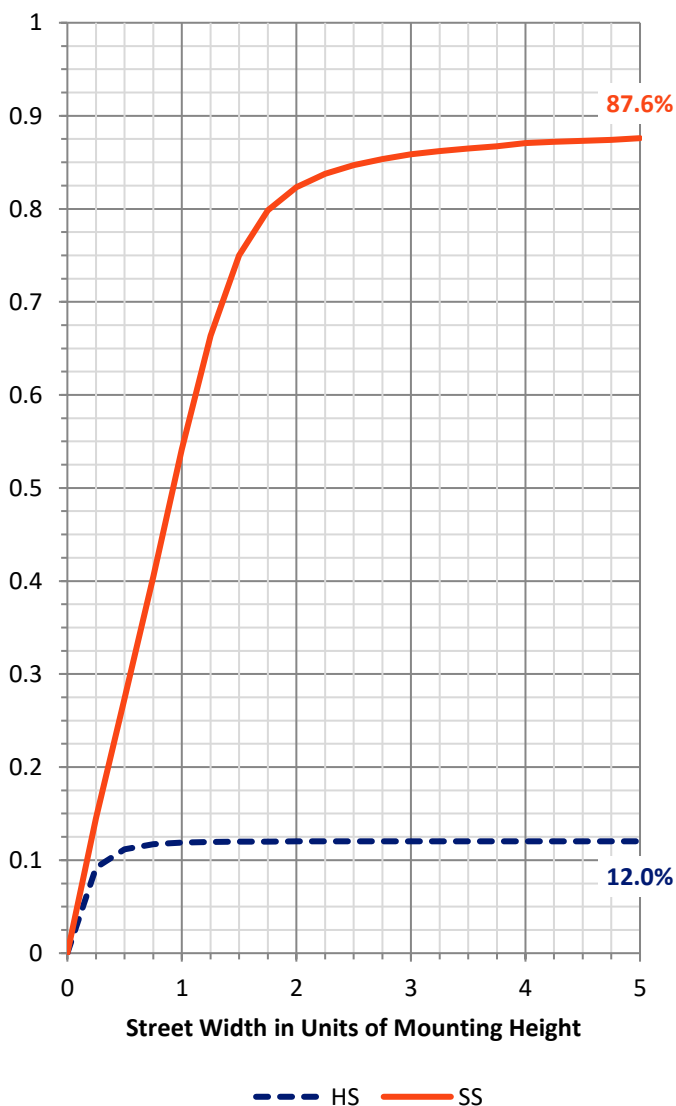
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2844.2 | 0.0 | 2844.2 |
| | % Fixture | 12.1 | 0.0 | 12.1 |
| Street Side | Lumens | 20602.2 | 0.0 | 20602.2 |
| | % Fixture | 87.9 | 0.0 | 87.9 |
| Total | Lumens | 23446.4 | 0.0 | 23446.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 483.7 | 2.1 |
| 10°-20° | 1058.4 | 4.5 |
| 20°-30° | 1473.6 | 6.3 |
| 30°-40° | 2088.2 | 8.9 |
| 40°-50° | 3290.9 | 14.0 |
| 50°-60° | 5340.0 | 22.8 |
| 60°-70° | 5963.7 | 25.4 |
| 70°-80° | 3358.2 | 14.3 |
| 80°-90° | 389.7 | 1.7 |
| 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° | 23446.4 | 100.0 |
| 0°-180° | 23446.4 | 100.0 |

Coefficient of Utilization



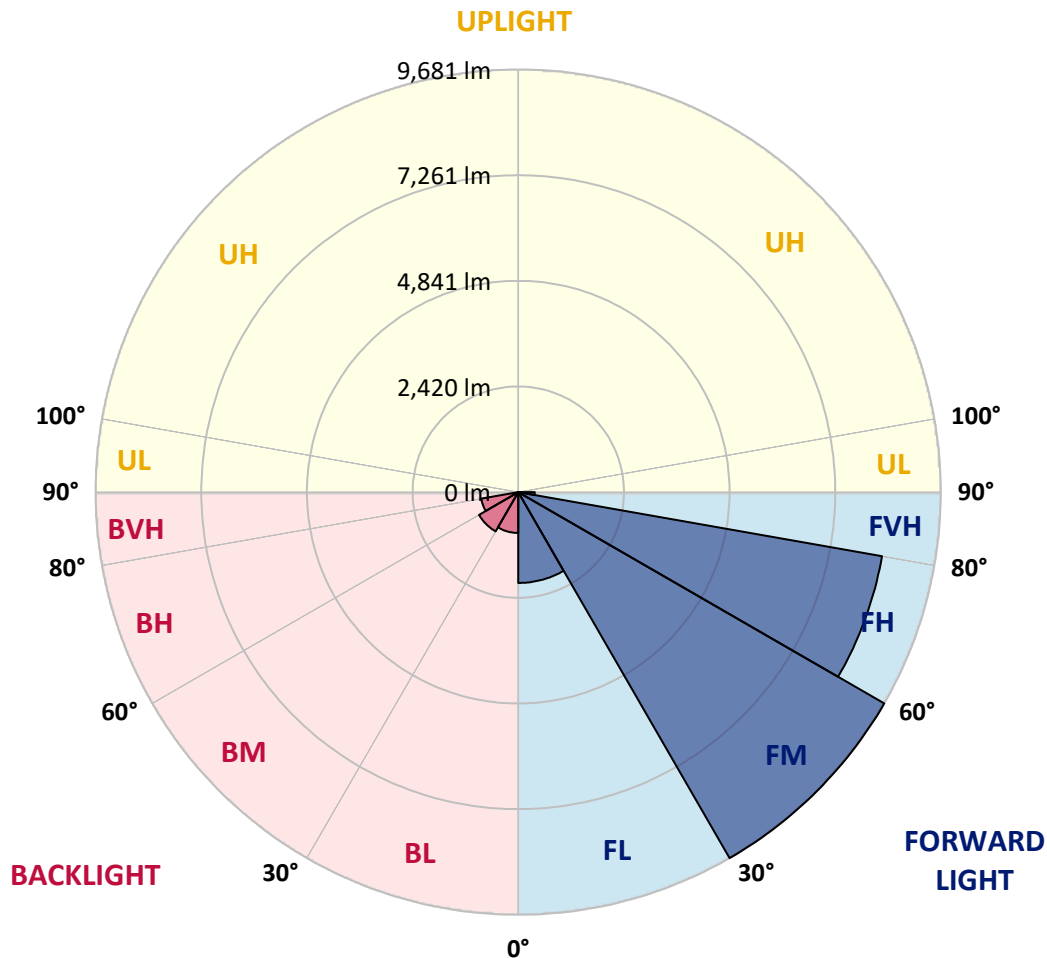
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2080.6 | 8.9 | | | |
| FM (30°-60°) | 9681.2 | 41.3 | | | |
| FH (60°-80°) | 8461.4 | 36.1 | | | G4/12000 |
| FVH (80°-90°) | 378.9 | 1.6 | | | G3/500 |
| BL (0°-30°) | 935.1 | 4.0 | B2/1000 | | |
| BM (30°-60°) | 1037.8 | 4.4 | B2/2500 | | |
| BH (60°-80°) | 860.5 | 3.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 10.8 | 0.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5911.4 | 5911.4 | 5911.4 | 5911.4 | 5911.4 | 5911.4 | 5911.4 | 5911.4 | 5911.4 | 5911.4 | 5911.4 |
| 2.5° | 5693.1 | 5737.4 | 5750.1 | 5794.4 | 5816.5 | 5911.4 | 5965.2 | 5996.8 | 5981.0 | 6015.8 | 6018.9 |
| 5° | 5288.3 | 5263.0 | 5329.4 | 5376.9 | 5478.1 | 5642.5 | 5810.2 | 5939.9 | 5999.9 | 6056.9 | 6047.4 |
| 7.5° | 4855.0 | 4842.3 | 4908.8 | 5016.3 | 5108.0 | 5307.3 | 5576.1 | 5895.6 | 5882.9 | 6022.1 | 6063.2 |
| 10° | 4557.7 | 4570.3 | 4592.5 | 4700.0 | 4836.0 | 5038.4 | 5373.7 | 5671.0 | 5737.4 | 6031.6 | 6113.8 |
| 12.5° | 4285.7 | 4307.8 | 4348.9 | 4459.6 | 4617.8 | 4826.5 | 5152.3 | 5500.2 | 5601.4 | 5977.8 | 6142.3 |
| 15° | 4197.1 | 4146.5 | 4228.7 | 4311.0 | 4475.4 | 4662.1 | 4937.2 | 5370.5 | 5414.8 | 5914.5 | 6189.7 |
| 17.5° | 4124.4 | 4092.7 | 4130.7 | 4197.1 | 4371.1 | 4522.9 | 4782.2 | 5231.4 | 5313.6 | 5889.2 | 6183.4 |
| 20° | 4146.5 | 4118.0 | 4133.9 | 4184.5 | 4263.5 | 4405.9 | 4646.2 | 5098.5 | 5187.1 | 5772.2 | 6173.9 |
| 22.5° | 4209.8 | 4231.9 | 4203.4 | 4216.1 | 4241.4 | 4314.1 | 4573.5 | 5003.6 | 5079.6 | 5750.1 | 6227.7 |
| 25° | 4494.4 | 4456.5 | 4418.5 | 4402.7 | 4254.0 | 4285.7 | 4551.4 | 4997.3 | 5051.1 | 5671.0 | 6183.4 |
| 27.5° | 4791.7 | 4760.1 | 4744.3 | 4652.6 | 4450.1 | 4355.3 | 4554.5 | 4908.8 | 4981.5 | 5639.4 | 6129.6 |
| 30° | 5152.3 | 5193.4 | 5130.2 | 5019.5 | 4738.0 | 4503.9 | 4589.3 | 4864.5 | 4965.7 | 5519.2 | 6094.8 |
| 32.5° | 5531.8 | 5554.0 | 5585.6 | 5503.4 | 5139.6 | 4728.5 | 4693.7 | 4905.6 | 4911.9 | 5519.2 | 6015.8 |
| 35° | 5962.0 | 5930.4 | 6012.6 | 6018.9 | 5699.5 | 5127.0 | 4892.9 | 4934.1 | 5000.5 | 5493.9 | 5987.3 |
| 37.5° | 6332.0 | 6385.8 | 6480.7 | 6632.5 | 6303.6 | 5690.0 | 5202.9 | 5066.9 | 5095.4 | 5610.9 | 6009.4 |
| 40° | 6736.9 | 6790.7 | 7005.7 | 7157.6 | 6970.9 | 6322.6 | 5674.2 | 5376.9 | 5399.0 | 5784.9 | 6123.3 |
| 42.5° | 7182.9 | 7287.2 | 7543.4 | 7809.1 | 7758.5 | 7125.9 | 6281.4 | 5832.3 | 5822.8 | 6218.2 | 6357.3 |
| 45° | 7787.0 | 7926.1 | 8204.5 | 8511.3 | 8555.5 | 8046.3 | 7091.1 | 6512.3 | 6544.0 | 6784.3 | 6841.3 |
| 47.5° | 8628.3 | 8622.0 | 8894.0 | 9235.6 | 9491.7 | 9001.5 | 8059.0 | 7426.4 | 7423.2 | 7679.4 | 7559.2 |
| 50° | 9441.1 | 9444.3 | 9517.0 | 9912.4 | 10576.6 | 10326.7 | 9257.7 | 8640.9 | 8606.1 | 8732.7 | 8539.7 |
| 52.5° | 9817.5 | 9773.2 | 9719.5 | 10197.1 | 11411.6 | 11996.7 | 10775.9 | 10016.8 | 9988.3 | 9912.4 | 9861.8 |
| 55° | 9422.2 | 9438.0 | 9434.8 | 9931.4 | 11851.2 | 13758.4 | 12724.2 | 11531.8 | 11484.3 | 11247.1 | 11316.7 |
| 57.5° | 8153.9 | 8103.2 | 8213.9 | 8988.8 | 11348.3 | 14960.3 | 15510.7 | 13442.2 | 13318.8 | 12531.3 | 12373.1 |
| 60° | 6069.5 | 6085.3 | 6177.1 | 7091.1 | 10099.0 | 15213.4 | 18177.0 | 15684.6 | 15153.3 | 13435.8 | 13217.6 |
| 62.5° | 4238.2 | 4206.6 | 4241.4 | 4753.8 | 7220.8 | 14201.2 | 19979.8 | 18411.0 | 17898.6 | 14463.8 | 14337.2 |
| 65° | 3033.2 | 2992.1 | 3131.2 | 3444.4 | 4336.3 | 10858.1 | 20236.0 | 22042.0 | 21583.4 | 16105.3 | 15801.6 |
| 67.5° | 2182.4 | 2176.0 | 2337.4 | 2906.7 | 3080.6 | 6253.0 | 18338.3 | 25331.3 | 25053.0 | 18053.6 | 16693.6 |
| 69° | 1806.0 | 1809.2 | 1964.1 | 2603.0 | 2941.5 | 4269.9 | 15779.5 | 25897.5 | 25846.9 | 19059.4 | 16525.9 |
| 70° | 1575.1 | 1587.8 | 1768.0 | 2422.8 | 2884.5 | 3510.8 | 13603.5 | 25340.8 | 25290.2 | 19255.5 | 15972.4 |
| 72.5° | 971.0 | 980.5 | 1217.7 | 1942.0 | 2742.2 | 2865.6 | 8134.9 | 20732.5 | 20906.5 | 18357.2 | 13761.6 |
| 75° | 464.9 | 468.1 | 638.9 | 1404.3 | 2644.2 | 2716.9 | 4358.4 | 15298.8 | 15665.6 | 14821.2 | 10753.7 |
| 77.5° | 246.7 | 246.7 | 306.8 | 746.4 | 2141.3 | 2555.6 | 2587.2 | 10791.7 | 11095.3 | 9371.6 | 6113.8 |
| 80° | 123.4 | 126.5 | 186.6 | 389.0 | 1328.4 | 2505.0 | 2021.1 | 6436.4 | 6600.9 | 3823.9 | 1904.0 |
| 82.5° | 47.4 | 50.6 | 88.6 | 234.1 | 689.5 | 2116.0 | 1774.4 | 3166.0 | 3124.9 | 895.1 | 464.9 |
| 85° | 6.3 | 6.3 | 31.6 | 139.2 | 294.1 | 933.0 | 1464.4 | 1322.1 | 1277.8 | 196.1 | 224.6 |
| 87.5° | 0.0 | 0.0 | 6.3 | 41.1 | 88.6 | 272.0 | 566.2 | 363.7 | 404.8 | 53.8 | 110.7 |
| 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° | 5911.4 | 5911.4 | 5911.4 | 5911.4 | 5911.4 | 5911.4 | 5911.4 | 5911.4 | 5911.4 | 5911.4 | 5911.4 |
| 2.5° | 6003.1 | 5936.7 | 5835.5 | 5737.4 | 5633.1 | 5506.5 | 5367.4 | 5316.8 | 5228.2 | 5221.9 | 5272.5 |
| 5° | 5996.8 | 5889.2 | 5712.1 | 5503.4 | 5206.1 | 4981.5 | 4738.0 | 4560.8 | 4424.8 | 4336.3 | 4358.4 |
| 7.5° | 6028.4 | 5898.7 | 5591.9 | 5142.8 | 4760.1 | 4314.1 | 3937.8 | 3678.4 | 3441.2 | 3324.2 | 3311.5 |
| 10° | 5977.8 | 5803.8 | 5354.7 | 4725.3 | 4162.3 | 3539.2 | 2988.9 | 2641.0 | 2286.7 | 2157.1 | 2163.4 |
| 12.5° | 6006.3 | 5762.7 | 5098.5 | 4295.2 | 3520.3 | 2710.6 | 2052.7 | 1578.3 | 1246.2 | 1138.6 | 1126.0 |
| 15° | 6025.2 | 5674.2 | 4851.8 | 3779.6 | 2808.6 | 1847.1 | 1189.2 | 895.1 | 790.7 | 771.7 | 768.6 |
| 17.5° | 5952.5 | 5566.6 | 4503.9 | 3270.4 | 2081.2 | 1122.8 | 790.7 | 730.6 | 711.6 | 699.0 | 692.7 |
| 20° | 5949.3 | 5503.4 | 4203.4 | 2748.5 | 1388.5 | 765.4 | 683.2 | 661.0 | 632.6 | 623.1 | 623.1 |
| 22.5° | 5895.6 | 5370.5 | 3842.9 | 2176.0 | 885.6 | 657.9 | 613.6 | 578.8 | 547.2 | 534.5 | 531.4 |
| 25° | 5879.8 | 5215.6 | 3504.4 | 1635.2 | 673.7 | 588.3 | 544.0 | 493.4 | 455.5 | 436.5 | 427.0 |
| 27.5° | 5835.5 | 5082.7 | 3162.9 | 1151.3 | 588.3 | 525.0 | 468.1 | 414.3 | 370.1 | 341.6 | 338.4 |
| 30° | 5677.3 | 4943.6 | 2783.3 | 797.0 | 534.5 | 464.9 | 401.7 | 338.4 | 294.1 | 275.2 | 268.8 |
| 32.5° | 5610.9 | 4813.9 | 2369.0 | 613.6 | 487.1 | 411.2 | 338.4 | 281.5 | 246.7 | 227.7 | 224.6 |
| 35° | 5531.8 | 4624.1 | 1967.3 | 534.5 | 442.8 | 357.4 | 284.7 | 237.2 | 208.7 | 192.9 | 192.9 |
| 37.5° | 5541.3 | 4472.3 | 1590.9 | 483.9 | 395.4 | 306.8 | 243.5 | 202.4 | 177.1 | 161.3 | 161.3 |
| 40° | 5512.9 | 4352.1 | 1236.7 | 439.6 | 351.1 | 262.5 | 205.6 | 170.8 | 148.7 | 132.8 | 129.7 |
| 42.5° | 5642.5 | 4320.5 | 933.0 | 401.7 | 306.8 | 224.6 | 177.1 | 145.5 | 123.4 | 104.4 | 104.4 |
| 45° | 5860.8 | 4371.1 | 727.5 | 366.9 | 262.5 | 192.9 | 151.8 | 120.2 | 98.0 | 85.4 | 82.2 |
| 47.5° | 6442.7 | 4570.3 | 569.3 | 338.4 | 224.6 | 167.6 | 126.5 | 98.0 | 79.1 | 66.4 | 63.3 |
| 50° | 7287.2 | 5016.3 | 483.9 | 297.3 | 189.8 | 142.3 | 104.4 | 75.9 | 63.3 | 50.6 | 47.4 |
| 52.5° | 8489.1 | 5765.9 | 439.6 | 262.5 | 158.1 | 117.0 | 82.2 | 60.1 | 47.4 | 38.0 | 34.8 |
| 55° | 9798.5 | 6702.1 | 398.5 | 221.4 | 132.8 | 94.9 | 66.4 | 47.4 | 34.8 | 25.3 | 22.1 |
| 57.5° | 10820.1 | 7511.8 | 363.7 | 183.4 | 107.5 | 75.9 | 50.6 | 34.8 | 25.3 | 15.8 | 12.7 |
| 60° | 11936.6 | 8081.1 | 319.4 | 145.5 | 88.6 | 56.9 | 38.0 | 25.3 | 19.0 | 9.5 | 9.5 |
| 62.5° | 13087.9 | 8748.5 | 262.5 | 113.9 | 69.6 | 44.3 | 28.5 | 19.0 | 12.7 | 3.2 | 3.2 |
| 65° | 14688.3 | 9270.3 | 202.4 | 88.6 | 53.8 | 31.6 | 22.1 | 15.8 | 6.3 | 0.0 | 0.0 |
| 67.5° | 15140.6 | 9014.2 | 148.7 | 69.6 | 38.0 | 22.1 | 15.8 | 9.5 | 3.2 | 0.0 | 0.0 |
| 69° | 14688.3 | 8119.1 | 129.7 | 60.1 | 31.6 | 19.0 | 12.7 | 6.3 | 3.2 | 0.0 | 0.0 |
| 70° | 13862.8 | 7423.2 | 113.9 | 50.6 | 28.5 | 19.0 | 9.5 | 6.3 | 3.2 | 0.0 | 0.0 |
| 72.5° | 11595.0 | 5693.1 | 88.6 | 38.0 | 22.1 | 15.8 | 9.5 | 6.3 | 0.0 | 0.0 | 0.0 |
| 75° | 8504.9 | 3517.1 | 66.4 | 28.5 | 19.0 | 12.7 | 9.5 | 6.3 | 0.0 | 0.0 | 0.0 |
| 77.5° | 4557.7 | 1284.1 | 47.4 | 19.0 | 12.7 | 9.5 | 9.5 | 6.3 | 0.0 | 0.0 | 0.0 |
| 80° | 1249.3 | 379.5 | 34.8 | 12.7 | 9.5 | 6.3 | 6.3 | 3.2 | 0.0 | 0.0 | 0.0 |
| 82.5° | 341.6 | 98.0 | 22.1 | 12.7 | 9.5 | 6.3 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 183.4 | 38.0 | 12.7 | 9.5 | 6.3 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 94.9 | 12.7 | 9.5 | 6.3 | 6.3 | 3.2 | 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)