

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: P484958

Luminaire Tested: **IFLD-S-SA6B-830-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484958
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-830-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

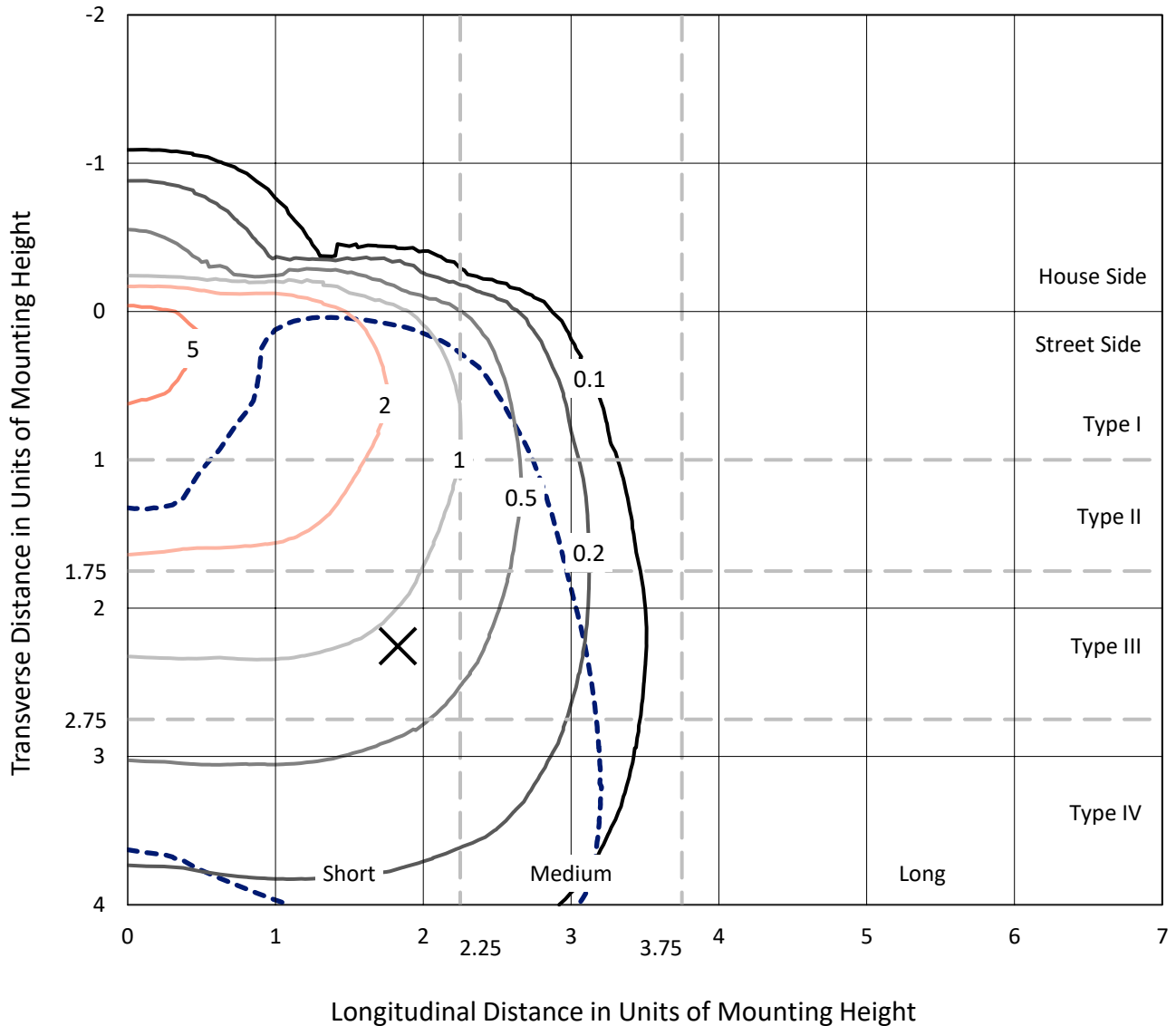
Lumens per Lamp: N/A
Luminaire Lumens: 21911.5 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 244.9
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

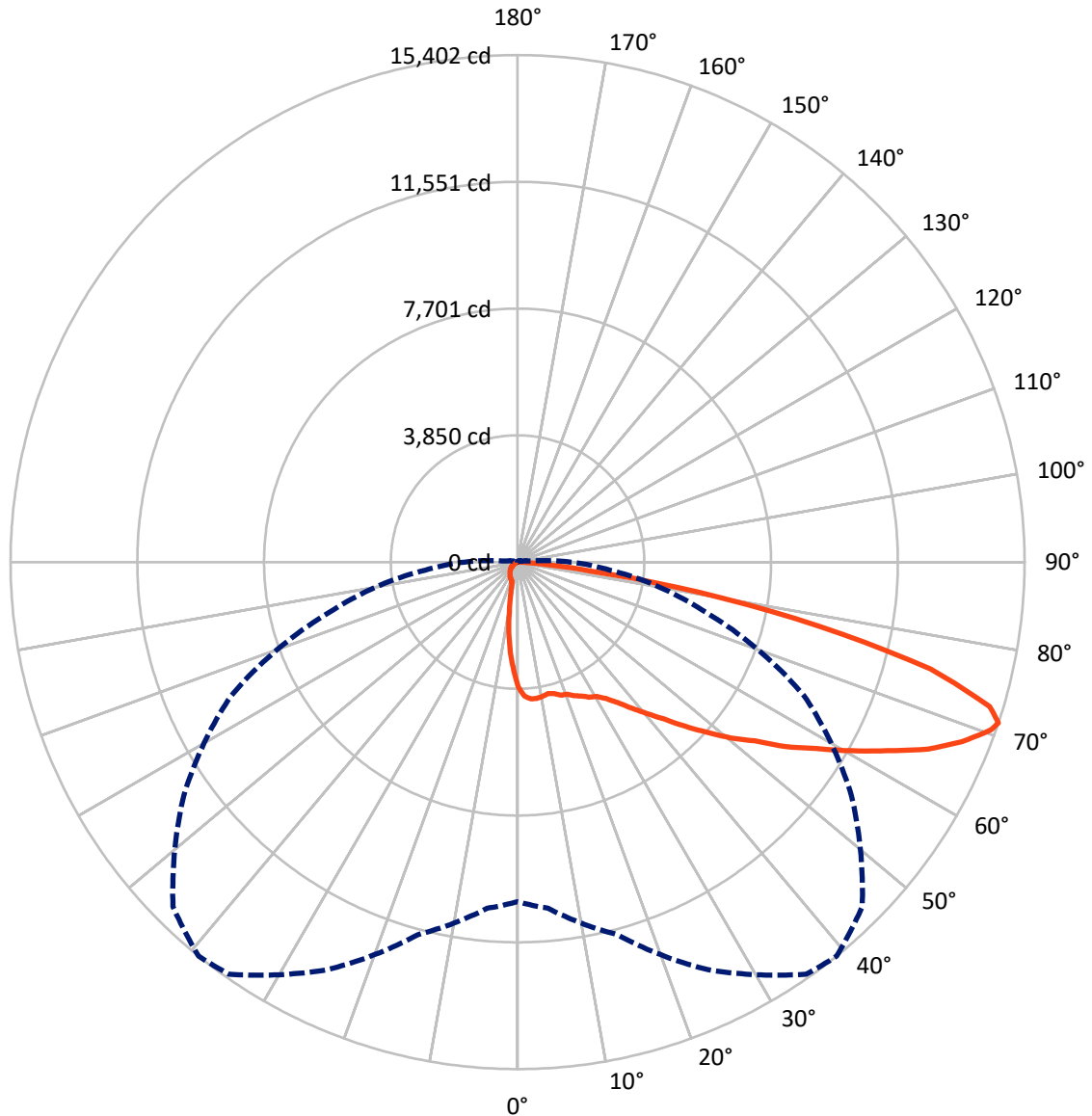
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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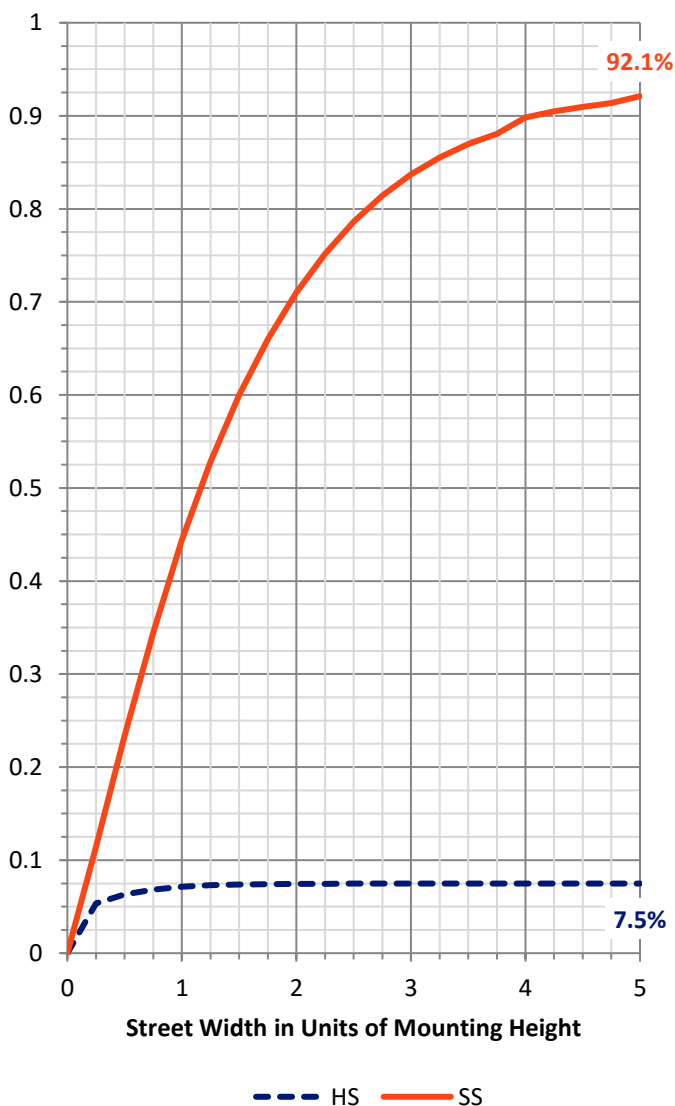
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1649.6 | 0.0 | 1649.6 |
| | % Fixture | 7.5 | 0.0 | 7.5 |
| Street Side | Lumens | 20261.9 | 0.0 | 20261.9 |
| | % Fixture | 92.5 | 0.0 | 92.5 |
| Total | Lumens | 21911.5 | 0.0 | 21911.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 318.9 | 1.5 |
| 10°-20° | 784.8 | 3.6 |
| 20°-30° | 1259.9 | 5.8 |
| 30°-40° | 1928.6 | 8.8 |
| 40°-50° | 3095.8 | 14.1 |
| 50°-60° | 4547.2 | 20.8 |
| 60°-70° | 5727.0 | 26.1 |
| 70°-80° | 3822.1 | 17.4 |
| 80°-90° | 427.1 | 1.9 |
| 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° | 21911.5 | 100.0 |
| 0°-180° | 21911.5 | 100.0 |

Coefficient of Utilization



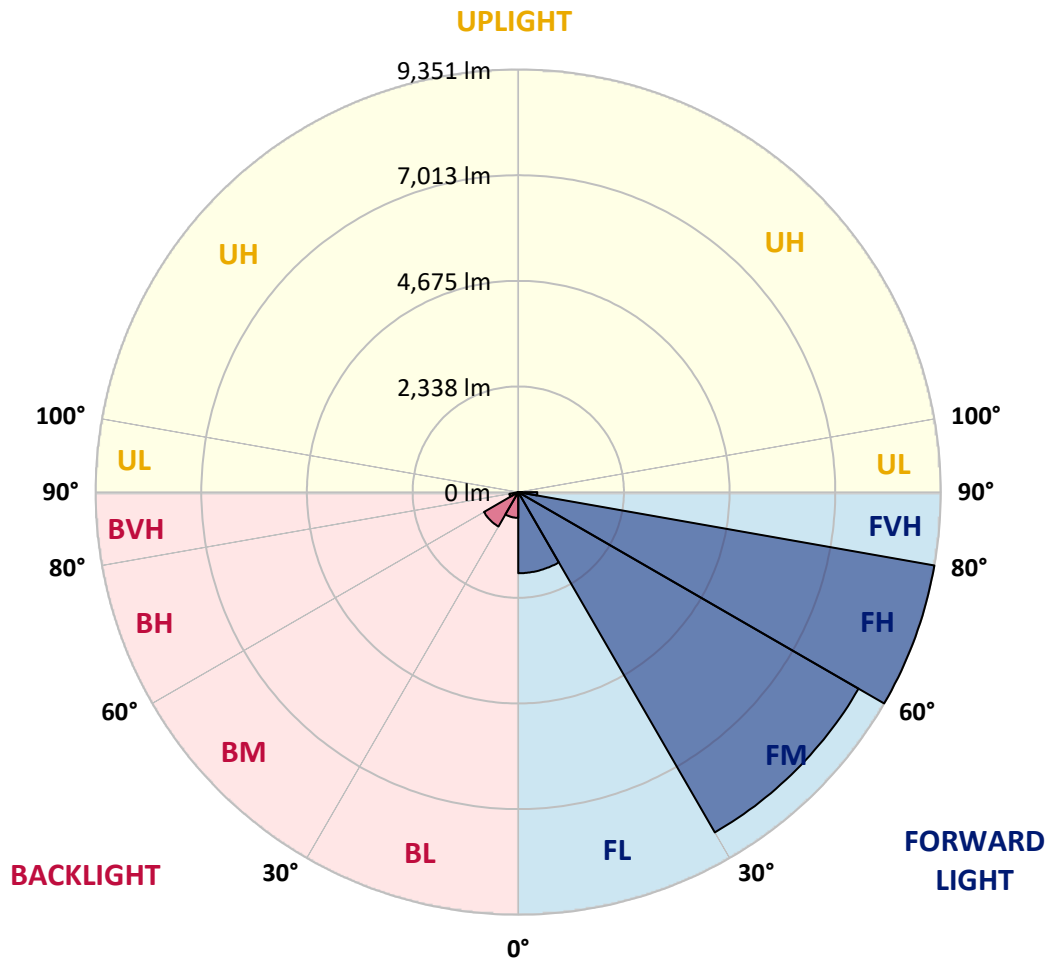
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1794.1 | 8.2 | | | |
| FM (30°-60°) | 8694.8 | 39.7 | | | |
| FH (60°-80°) | 9350.6 | 42.7 | | | G4/12000 |
| FVH (80°-90°) | 422.4 | 1.9 | | | G3/500 |
| BL (0°-30°) | 569.5 | 2.6 | B2/1000 | | |
| BM (30°-60°) | 876.8 | 4.0 | B1/1000 | | |
| BH (60°-80°) | 198.5 | 0.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.7 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 3813.8 | 3813.8 | 3813.8 | 3813.8 | 3813.8 | 3813.8 | 3813.8 | 3813.8 | 3813.8 | 3813.8 | 3813.8 |
| 2.5° | 4109.9 | 4150.1 | 4109.9 | 4092.6 | 4075.4 | 4078.3 | 4032.3 | 4040.9 | 3986.3 | 3914.4 | 3857.0 |
| 5° | 4239.2 | 4293.8 | 4250.7 | 4230.6 | 4227.7 | 4173.1 | 4150.1 | 4095.5 | 4029.4 | 3917.3 | 3848.3 |
| 7.5° | 4227.7 | 4216.2 | 4236.3 | 4219.1 | 4181.7 | 4181.7 | 4155.8 | 4078.3 | 4012.1 | 3885.7 | 3767.9 |
| 10° | 4141.5 | 4176.0 | 4158.7 | 4138.6 | 4147.2 | 4150.1 | 4101.2 | 4046.6 | 4026.5 | 3900.1 | 3707.5 |
| 12.5° | 4132.9 | 4075.4 | 4138.6 | 4141.5 | 4104.1 | 4101.2 | 4095.5 | 4081.1 | 4017.9 | 3902.9 | 3721.9 |
| 15° | 4104.1 | 4081.1 | 4144.4 | 4147.2 | 4155.8 | 4147.2 | 4155.8 | 4144.4 | 4081.1 | 4015.0 | 3785.1 |
| 17.5° | 4127.1 | 4101.2 | 4190.3 | 4233.4 | 4213.3 | 4253.6 | 4239.2 | 4187.5 | 4132.9 | 4055.3 | 3845.5 |
| 20° | 4132.9 | 4170.2 | 4267.9 | 4285.2 | 4348.4 | 4282.3 | 4279.4 | 4224.8 | 4190.3 | 4107.0 | 3882.8 |
| 22.5° | 4239.2 | 4256.4 | 4377.1 | 4414.5 | 4417.4 | 4408.8 | 4336.9 | 4273.7 | 4259.3 | 4155.8 | 3891.4 |
| 25° | 4400.1 | 4460.5 | 4515.1 | 4538.1 | 4546.7 | 4506.5 | 4431.8 | 4351.3 | 4316.8 | 4250.7 | 3980.5 |
| 27.5° | 4684.7 | 4647.3 | 4696.2 | 4730.7 | 4632.9 | 4647.3 | 4552.5 | 4483.5 | 4434.6 | 4377.1 | 4084.0 |
| 30° | 4937.6 | 4903.1 | 4906.0 | 4900.2 | 4816.9 | 4739.3 | 4713.4 | 4592.7 | 4532.3 | 4555.3 | 4244.9 |
| 32.5° | 5164.6 | 5089.9 | 5153.1 | 5124.4 | 4969.2 | 4946.2 | 4926.1 | 4773.8 | 4785.3 | 4891.6 | 4486.4 |
| 35° | 5374.4 | 5348.6 | 5400.3 | 5348.6 | 5245.1 | 5239.4 | 5219.2 | 5087.0 | 5150.3 | 5302.6 | 4900.2 |
| 37.5° | 5567.0 | 5575.6 | 5638.8 | 5613.0 | 5621.6 | 5627.4 | 5615.9 | 5475.0 | 5656.1 | 5998.1 | 5383.1 |
| 40° | 5745.2 | 5733.7 | 5888.9 | 5969.4 | 5986.6 | 6049.8 | 6049.8 | 6015.3 | 6294.1 | 6679.2 | 6052.7 |
| 42.5° | 5934.9 | 5963.6 | 6164.8 | 6299.9 | 6463.7 | 6518.3 | 6593.0 | 6610.3 | 7041.4 | 7481.1 | 6736.7 |
| 45° | 6245.3 | 6196.4 | 6452.2 | 6771.2 | 6914.9 | 7107.5 | 7222.4 | 7320.2 | 7840.4 | 8443.9 | 7420.7 |
| 47.5° | 6639.0 | 6541.3 | 6765.5 | 7228.2 | 7561.6 | 7719.6 | 7926.6 | 8055.9 | 8564.6 | 9188.3 | 8067.4 |
| 50° | 7075.9 | 6975.3 | 7084.5 | 7722.5 | 8110.5 | 8397.9 | 8662.3 | 8826.2 | 9441.2 | 10021.7 | 8538.7 |
| 52.5° | 7570.2 | 7478.2 | 7495.5 | 8237.0 | 8808.9 | 9018.7 | 9366.5 | 9610.8 | 10222.9 | 10524.7 | 8705.4 |
| 55° | 8096.1 | 8073.2 | 8018.5 | 8739.9 | 9421.1 | 9892.4 | 10102.2 | 10395.4 | 11024.8 | 10797.7 | 8886.5 |
| 57.5° | 8625.0 | 8553.1 | 8630.7 | 9406.7 | 10404.0 | 10685.6 | 10975.9 | 11151.2 | 11470.3 | 11036.3 | 8817.5 |
| 60° | 9122.2 | 9127.9 | 9237.1 | 10131.0 | 11240.3 | 11639.8 | 11901.4 | 11795.0 | 11927.2 | 11139.7 | 8659.5 |
| 62.5° | 9541.8 | 9530.3 | 9806.2 | 10944.3 | 12346.8 | 12617.0 | 12812.4 | 12338.2 | 12139.9 | 11240.3 | 8383.5 |
| 65° | 9918.3 | 10047.6 | 10481.6 | 11912.9 | 13387.2 | 13697.6 | 13579.8 | 12852.7 | 12346.8 | 10944.3 | 7607.6 |
| 67.5° | 10202.8 | 10395.4 | 11148.4 | 12823.9 | 14341.4 | 14559.8 | 14396.0 | 13243.5 | 12102.5 | 9783.2 | 6196.4 |
| 70° | 10369.5 | 10564.9 | 11625.5 | 13582.7 | 15103.0 | 15261.1 | 14876.0 | 12941.8 | 10677.0 | 7084.5 | 3865.6 |
| 71° | 10317.8 | 10556.3 | 11717.4 | 13663.1 | 15284.1 | 15401.9 | 14804.1 | 12384.2 | 9602.1 | 5932.0 | 2819.4 |
| 72.5° | 9849.3 | 10073.5 | 11335.2 | 13605.7 | 15065.7 | 14993.8 | 14243.7 | 11044.9 | 7558.7 | 3782.2 | 1457.1 |
| 75° | 7236.8 | 7478.2 | 9728.6 | 11769.2 | 13447.6 | 12953.3 | 11527.7 | 7751.3 | 3943.2 | 1158.2 | 425.4 |
| 77.5° | 3604.0 | 3644.3 | 6038.3 | 8544.5 | 9863.7 | 9372.2 | 7725.4 | 4322.5 | 1474.4 | 342.0 | 212.7 |
| 80° | 1661.2 | 1672.7 | 2264.7 | 4426.0 | 5963.6 | 5613.0 | 4328.3 | 2132.5 | 666.8 | 181.1 | 166.7 |
| 82.5° | 1132.4 | 1149.6 | 1365.2 | 1833.6 | 2589.5 | 2184.3 | 1753.2 | 1365.2 | 382.2 | 109.2 | 163.8 |
| 85° | 206.9 | 189.7 | 764.5 | 971.4 | 1000.2 | 678.3 | 606.4 | 1181.2 | 143.7 | 63.2 | 143.7 |
| 87.5° | 0.0 | 2.9 | 106.3 | 396.6 | 356.4 | 158.1 | 206.9 | 287.4 | 14.4 | 20.1 | 25.9 |
| 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° | 3813.8 | 3813.8 | 3813.8 | 3813.8 | 3813.8 | 3813.8 | 3813.8 | 3813.8 | 3813.8 | 3813.8 | 3813.8 |
| 2.5° | 3808.1 | 3776.5 | 3670.1 | 3552.3 | 3446.0 | 3362.6 | 3256.3 | 3207.4 | 3129.8 | 3086.7 | 3083.8 |
| 5° | 3753.5 | 3667.3 | 3483.3 | 3285.0 | 3063.7 | 2879.8 | 2675.7 | 2560.8 | 2428.6 | 2388.3 | 2379.7 |
| 7.5° | 3661.5 | 3537.9 | 3267.8 | 2989.0 | 2649.9 | 2325.1 | 2075.1 | 1807.8 | 1643.9 | 1575.0 | 1549.1 |
| 10° | 3604.0 | 3454.6 | 3086.7 | 2670.0 | 2195.8 | 1738.8 | 1388.2 | 1103.6 | 954.2 | 882.3 | 865.1 |
| 12.5° | 3604.0 | 3443.1 | 2940.1 | 2365.3 | 1735.9 | 1189.8 | 859.3 | 695.5 | 646.7 | 629.4 | 629.4 |
| 15° | 3595.4 | 3420.1 | 2799.3 | 2052.1 | 1284.7 | 799.0 | 640.9 | 606.4 | 600.7 | 597.8 | 594.9 |
| 17.5° | 3638.5 | 3379.9 | 2655.6 | 1715.8 | 908.2 | 629.4 | 589.2 | 583.4 | 577.7 | 577.7 | 571.9 |
| 20° | 3670.1 | 3356.9 | 2483.2 | 1359.4 | 678.3 | 583.4 | 566.2 | 557.6 | 554.7 | 551.8 | 557.6 |
| 22.5° | 3644.3 | 3322.4 | 2270.5 | 1017.4 | 592.1 | 554.7 | 543.2 | 534.6 | 528.8 | 528.8 | 531.7 |
| 25° | 3693.1 | 3290.8 | 2057.8 | 767.4 | 554.7 | 528.8 | 517.3 | 511.6 | 508.7 | 505.8 | 500.1 |
| 27.5° | 3759.2 | 3305.1 | 1804.9 | 617.9 | 523.1 | 503.0 | 491.5 | 485.7 | 482.8 | 477.1 | 482.8 |
| 30° | 3839.7 | 3302.3 | 1526.1 | 540.3 | 494.3 | 474.2 | 462.7 | 459.8 | 454.1 | 451.2 | 454.1 |
| 32.5° | 3977.7 | 3377.0 | 1238.7 | 500.1 | 462.7 | 445.5 | 434.0 | 431.1 | 428.2 | 425.4 | 422.5 |
| 35° | 4273.7 | 3469.0 | 968.5 | 468.5 | 434.0 | 413.9 | 405.2 | 399.5 | 396.6 | 393.7 | 390.9 |
| 37.5° | 4638.7 | 3673.0 | 738.6 | 439.7 | 405.2 | 385.1 | 376.5 | 373.6 | 362.1 | 359.3 | 356.4 |
| 40° | 5095.7 | 3891.4 | 569.1 | 408.1 | 379.4 | 359.3 | 350.6 | 342.0 | 327.6 | 321.9 | 316.1 |
| 42.5° | 5664.7 | 4104.1 | 468.5 | 379.4 | 350.6 | 336.3 | 321.9 | 307.5 | 296.0 | 284.5 | 278.8 |
| 45° | 6233.8 | 4351.3 | 411.0 | 353.5 | 327.6 | 310.4 | 298.9 | 278.8 | 258.7 | 241.4 | 238.5 |
| 47.5° | 6708.0 | 4440.4 | 376.5 | 324.8 | 304.6 | 290.3 | 273.0 | 247.2 | 218.4 | 201.2 | 198.3 |
| 50° | 7061.5 | 4388.6 | 342.0 | 296.0 | 278.8 | 264.4 | 241.4 | 209.8 | 181.1 | 163.8 | 158.1 |
| 52.5° | 7130.5 | 4161.6 | 310.4 | 273.0 | 252.9 | 235.7 | 209.8 | 175.3 | 143.7 | 126.5 | 123.6 |
| 55° | 7081.6 | 3785.1 | 284.5 | 252.9 | 229.9 | 204.1 | 175.3 | 140.8 | 112.1 | 94.8 | 92.0 |
| 57.5° | 6981.0 | 3339.6 | 255.8 | 227.0 | 201.2 | 175.3 | 143.7 | 115.0 | 83.3 | 66.1 | 66.1 |
| 60° | 6639.0 | 2733.2 | 227.0 | 198.3 | 172.4 | 149.4 | 117.8 | 83.3 | 57.5 | 43.1 | 40.2 |
| 62.5° | 6161.9 | 2100.9 | 198.3 | 169.6 | 149.4 | 123.6 | 92.0 | 60.4 | 34.5 | 23.0 | 23.0 |
| 65° | 5291.1 | 1471.5 | 166.7 | 140.8 | 123.6 | 100.6 | 69.0 | 37.4 | 20.1 | 8.6 | 8.6 |
| 67.5° | 4020.8 | 911.1 | 138.0 | 117.8 | 106.3 | 80.5 | 48.9 | 23.0 | 8.6 | 2.9 | 0.0 |
| 70° | 2307.8 | 474.2 | 109.2 | 94.8 | 83.3 | 60.4 | 34.5 | 11.5 | 5.7 | 0.0 | 0.0 |
| 71° | 1612.3 | 350.6 | 97.7 | 83.3 | 74.7 | 54.6 | 28.7 | 8.6 | 2.9 | 0.0 | 0.0 |
| 72.5° | 807.6 | 232.8 | 83.3 | 69.0 | 60.4 | 43.1 | 23.0 | 8.6 | 2.9 | 0.0 | 0.0 |
| 75° | 287.4 | 149.4 | 57.5 | 46.0 | 43.1 | 31.6 | 14.4 | 5.7 | 2.9 | 0.0 | 0.0 |
| 77.5° | 198.3 | 120.7 | 40.2 | 28.7 | 28.7 | 20.1 | 8.6 | 2.9 | 2.9 | 0.0 | 0.0 |
| 80° | 181.1 | 66.1 | 25.9 | 17.2 | 14.4 | 11.5 | 5.7 | 2.9 | 0.0 | 0.0 | 0.0 |
| 82.5° | 181.1 | 48.9 | 14.4 | 11.5 | 8.6 | 5.7 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 126.5 | 25.9 | 8.6 | 8.6 | 5.7 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 20.1 | 8.6 | 5.7 | 2.9 | 2.9 | 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)