

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: P484027

Luminaire Tested: **IFLD-M-SA4B-740-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484027
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-740-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

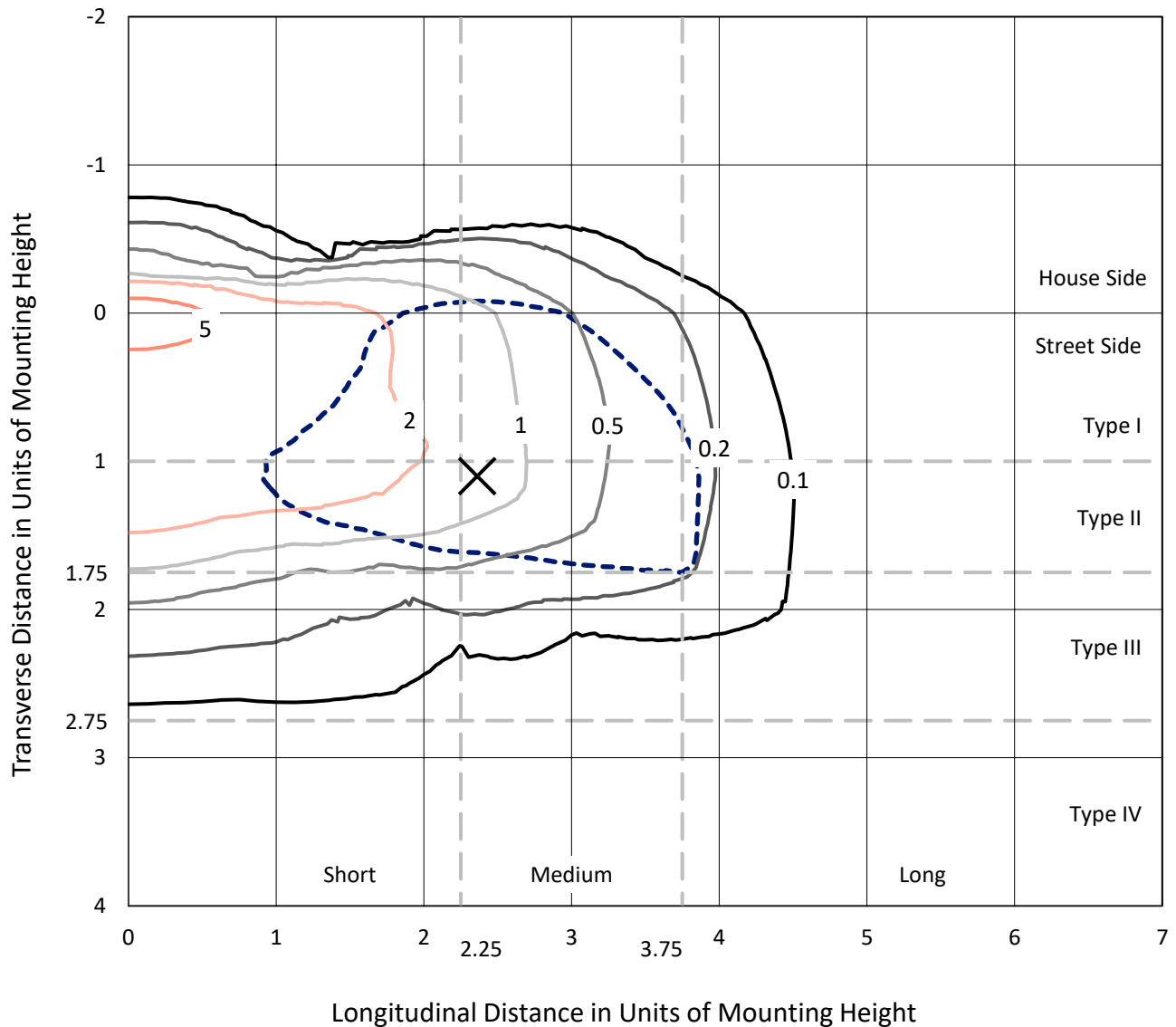
Lumens per Lamp: N/A
Luminaire Lumens: 18798.1 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 166.1
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

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Iso-Footcandle Lines of Horizontal Illumination

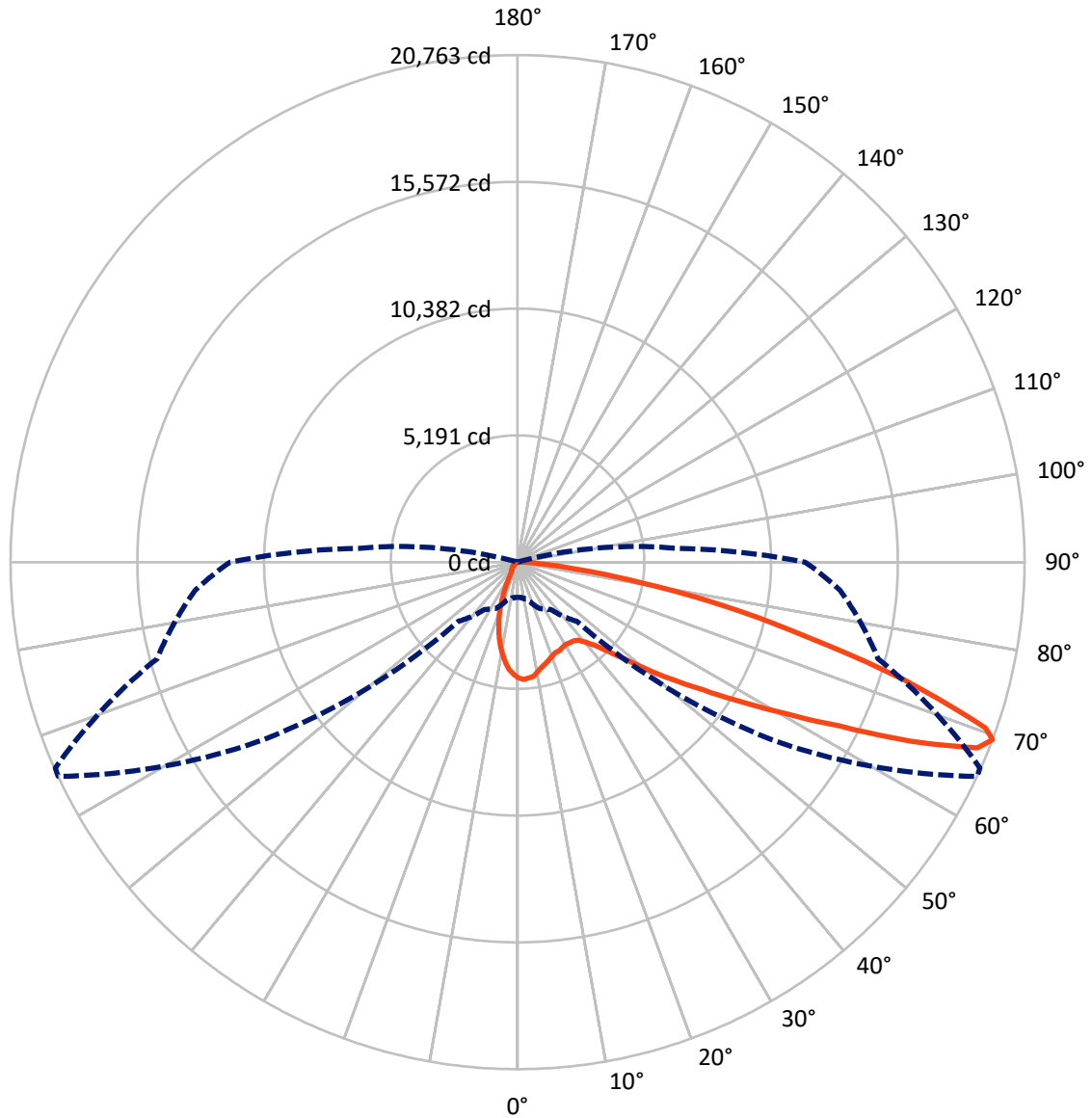
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Medium - N/A

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CATALOG NUMBER: IFLD-M-SA4B-740-U-SL2-HSS

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 | 2280.3 | 0.0 | 2280.3 |
| | % Fixture | 12.1 | 0.0 | 12.1 |
| Street Side | Lumens | 16517.7 | 0.0 | 16517.7 |
| | % Fixture | 87.9 | 0.0 | 87.9 |
| Total | Lumens | 18798.1 | 0.0 | 18798.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 387.8 | 2.1 |
| 10°-20° | 848.6 | 4.5 |
| 20°-30° | 1181.4 | 6.3 |
| 30°-40° | 1674.2 | 8.9 |
| 40°-50° | 2638.5 | 14.0 |
| 50°-60° | 4281.3 | 22.8 |
| 60°-70° | 4781.4 | 25.4 |
| 70°-80° | 2692.4 | 14.3 |
| 80°-90° | 312.4 | 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° | 18798.1 | 100.0 |
| 0°-180° | 18798.1 | 100.0 |



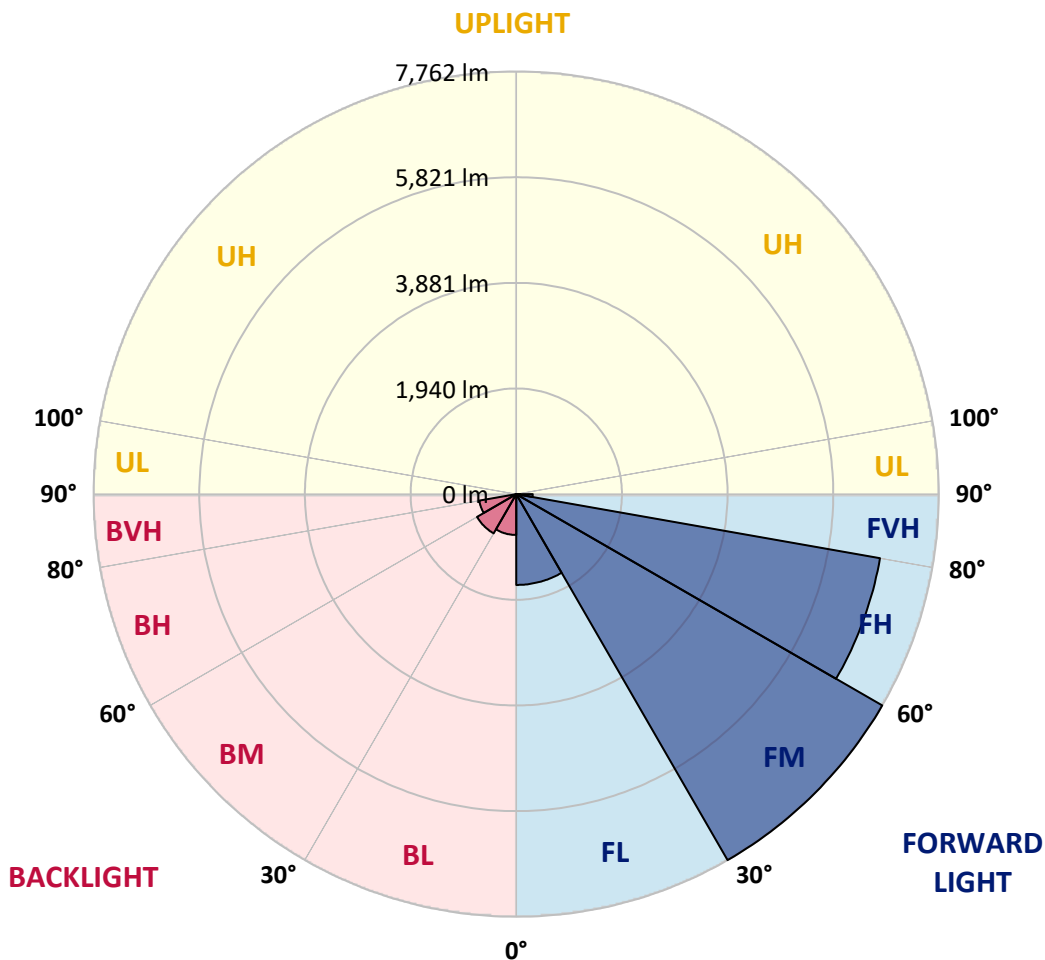
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 CATALOG NUMBER: IFLD-M-SA4B-740-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1668.1 | 8.9 | | | |
| FM (30°-60°) | 7761.9 | 41.3 | | | |
| FH (60°-80°) | 6783.9 | 36.1 | | | G3/7500 |
| FVH (80°-90°) | 303.8 | 1.6 | | | G3/500 |
| BL (0°-30°) | 749.7 | 4.0 | B2/1000 | | |
| BM (30°-60°) | 832.1 | 4.4 | B1/1000 | | |
| BH (60°-80°) | 689.9 | 3.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 8.6 | 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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 4739.4 | 4739.4 | 4739.4 | 4739.4 | 4739.4 | 4739.4 | 4739.4 | 4739.4 | 4739.4 | 4739.4 | 4739.4 |
| 2.5° | 4564.5 | 4600.0 | 4610.1 | 4645.6 | 4663.4 | 4739.4 | 4782.5 | 4807.9 | 4795.2 | 4823.1 | 4825.6 |
| 5° | 4239.9 | 4219.6 | 4272.8 | 4310.9 | 4392.0 | 4523.9 | 4658.3 | 4762.2 | 4810.4 | 4856.1 | 4848.5 |
| 7.5° | 3892.5 | 3882.3 | 3935.6 | 4021.8 | 4095.3 | 4255.1 | 4470.6 | 4726.7 | 4716.6 | 4828.2 | 4861.1 |
| 10° | 3654.1 | 3664.2 | 3682.0 | 3768.2 | 3877.3 | 4039.5 | 4308.3 | 4546.7 | 4600.0 | 4835.8 | 4901.7 |
| 12.5° | 3436.0 | 3453.8 | 3486.7 | 3575.5 | 3702.3 | 3869.6 | 4130.8 | 4409.8 | 4490.9 | 4792.7 | 4924.5 |
| 15° | 3365.0 | 3324.4 | 3390.4 | 3456.3 | 3588.2 | 3737.8 | 3958.4 | 4305.8 | 4341.3 | 4742.0 | 4962.6 |
| 17.5° | 3306.7 | 3281.3 | 3311.8 | 3365.0 | 3504.5 | 3626.2 | 3834.1 | 4194.2 | 4260.2 | 4721.7 | 4957.5 |
| 20° | 3324.4 | 3301.6 | 3314.3 | 3354.9 | 3418.3 | 3532.4 | 3725.1 | 4087.7 | 4158.7 | 4627.9 | 4949.9 |
| 22.5° | 3375.2 | 3392.9 | 3370.1 | 3380.2 | 3400.5 | 3458.8 | 3666.8 | 4011.7 | 4072.5 | 4610.1 | 4993.0 |
| 25° | 3603.4 | 3573.0 | 3542.5 | 3529.8 | 3410.7 | 3436.0 | 3649.0 | 4006.6 | 4049.7 | 4546.7 | 4957.5 |
| 27.5° | 3841.8 | 3816.4 | 3803.7 | 3730.2 | 3567.9 | 3491.8 | 3651.6 | 3935.6 | 3993.9 | 4521.3 | 4914.4 |
| 30° | 4130.8 | 4163.8 | 4113.1 | 4024.3 | 3798.6 | 3611.0 | 3679.5 | 3900.1 | 3981.2 | 4425.0 | 4886.5 |
| 32.5° | 4435.1 | 4452.9 | 4478.2 | 4412.3 | 4120.7 | 3791.0 | 3763.1 | 3933.0 | 3938.1 | 4425.0 | 4823.1 |
| 35° | 4780.0 | 4754.6 | 4820.6 | 4825.6 | 4569.5 | 4110.5 | 3922.9 | 3955.9 | 4009.1 | 4404.7 | 4800.3 |
| 37.5° | 5076.7 | 5119.8 | 5195.9 | 5317.6 | 5053.9 | 4561.9 | 4171.4 | 4062.4 | 4085.2 | 4498.5 | 4818.0 |
| 40° | 5401.3 | 5444.4 | 5616.8 | 5738.5 | 5588.9 | 5069.1 | 4549.2 | 4310.9 | 4328.6 | 4638.0 | 4909.3 |
| 42.5° | 5758.8 | 5842.5 | 6047.9 | 6260.9 | 6220.3 | 5713.2 | 5036.1 | 4676.0 | 4668.4 | 4985.4 | 5097.0 |
| 45° | 6243.2 | 6354.7 | 6577.9 | 6823.9 | 6859.4 | 6451.1 | 5685.3 | 5221.2 | 5246.6 | 5439.3 | 5485.0 |
| 47.5° | 6917.7 | 6912.6 | 7130.7 | 7404.6 | 7610.0 | 7216.9 | 6461.2 | 5954.1 | 5951.5 | 6156.9 | 6060.6 |
| 50° | 7569.4 | 7571.9 | 7630.2 | 7947.2 | 8479.7 | 8279.4 | 7422.3 | 6927.8 | 6899.9 | 7001.4 | 6846.7 |
| 52.5° | 7871.2 | 7835.7 | 7792.5 | 8175.4 | 9149.2 | 9618.3 | 8639.5 | 8030.9 | 8008.1 | 7947.2 | 7906.7 |
| 55° | 7554.2 | 7566.9 | 7564.3 | 7962.4 | 9501.7 | 11030.8 | 10201.6 | 9245.6 | 9207.5 | 9017.3 | 9073.1 |
| 57.5° | 6537.3 | 6496.7 | 6585.5 | 7206.8 | 9098.5 | 11994.4 | 12435.6 | 10777.2 | 10678.3 | 10046.9 | 9920.1 |
| 60° | 4866.2 | 4878.9 | 4952.4 | 5685.3 | 8096.8 | 12197.2 | 14573.3 | 12575.1 | 12149.1 | 10772.1 | 10597.1 |
| 62.5° | 3398.0 | 3372.6 | 3400.5 | 3811.3 | 5789.3 | 11385.8 | 16018.7 | 14760.9 | 14350.1 | 11596.3 | 11494.8 |
| 65° | 2431.8 | 2398.9 | 2510.5 | 2761.5 | 3476.6 | 8705.4 | 16224.1 | 17672.1 | 17304.4 | 12912.3 | 12668.9 |
| 67.5° | 1749.7 | 1744.6 | 1874.0 | 2330.4 | 2469.9 | 5013.3 | 14702.6 | 20309.3 | 20086.1 | 14474.4 | 13384.0 |
| 69° | 1447.9 | 1450.5 | 1574.7 | 2087.0 | 2358.3 | 3423.3 | 12651.2 | 20763.2 | 20722.6 | 15280.8 | 13249.6 |
| 70° | 1262.8 | 1273.0 | 1417.5 | 1942.4 | 2312.7 | 2814.7 | 10906.5 | 20316.9 | 20276.3 | 15438.0 | 12805.8 |
| 72.5° | 778.5 | 786.1 | 976.3 | 1557.0 | 2198.5 | 2297.4 | 6522.1 | 16622.2 | 16761.7 | 14717.8 | 11033.3 |
| 75° | 372.8 | 375.3 | 512.2 | 1125.9 | 2119.9 | 2178.3 | 3494.3 | 12265.7 | 12559.9 | 11882.8 | 8621.8 |
| 77.5° | 197.8 | 197.8 | 246.0 | 598.5 | 1716.7 | 2048.9 | 2074.3 | 8652.2 | 8895.6 | 7513.6 | 4901.7 |
| 80° | 98.9 | 101.4 | 149.6 | 311.9 | 1065.0 | 2008.4 | 1620.4 | 5160.4 | 5292.2 | 3065.8 | 1526.6 |
| 82.5° | 38.0 | 40.6 | 71.0 | 187.6 | 552.8 | 1696.5 | 1422.6 | 2538.3 | 2505.4 | 717.6 | 372.8 |
| 85° | 5.1 | 5.1 | 25.4 | 111.6 | 235.8 | 748.1 | 1174.1 | 1060.0 | 1024.5 | 157.2 | 180.0 |
| 87.5° | 0.0 | 0.0 | 5.1 | 33.0 | 71.0 | 218.1 | 453.9 | 291.6 | 324.6 | 43.1 | 88.8 |
| 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° | 4739.4 | 4739.4 | 4739.4 | 4739.4 | 4739.4 | 4739.4 | 4739.4 | 4739.4 | 4739.4 | 4739.4 | 4739.4 |
| 2.5° | 4813.0 | 4759.7 | 4678.6 | 4600.0 | 4516.3 | 4414.8 | 4303.3 | 4262.7 | 4191.7 | 4186.6 | 4227.2 |
| 5° | 4807.9 | 4721.7 | 4579.7 | 4412.3 | 4173.9 | 3993.9 | 3798.6 | 3656.6 | 3547.6 | 3476.6 | 3494.3 |
| 7.5° | 4833.3 | 4729.3 | 4483.3 | 4123.2 | 3816.4 | 3458.8 | 3157.1 | 2949.1 | 2759.0 | 2665.1 | 2655.0 |
| 10° | 4792.7 | 4653.2 | 4293.1 | 3788.5 | 3337.1 | 2837.6 | 2396.3 | 2117.4 | 1833.4 | 1729.4 | 1734.5 |
| 12.5° | 4815.5 | 4620.2 | 4087.7 | 3443.6 | 2822.4 | 2173.2 | 1645.7 | 1265.4 | 999.1 | 912.9 | 902.7 |
| 15° | 4830.7 | 4549.2 | 3889.9 | 3030.3 | 2251.8 | 1480.9 | 953.5 | 717.6 | 634.0 | 618.7 | 616.2 |
| 17.5° | 4772.4 | 4463.0 | 3611.0 | 2622.0 | 1668.6 | 900.2 | 634.0 | 585.8 | 570.6 | 560.4 | 555.3 |
| 20° | 4769.9 | 4412.3 | 3370.1 | 2203.6 | 1113.2 | 613.7 | 547.7 | 530.0 | 507.2 | 499.6 | 499.6 |
| 22.5° | 4726.7 | 4305.8 | 3081.0 | 1744.6 | 710.0 | 527.4 | 491.9 | 464.1 | 438.7 | 428.6 | 426.0 |
| 25° | 4714.1 | 4181.5 | 2809.7 | 1311.0 | 540.1 | 471.7 | 436.2 | 395.6 | 365.2 | 349.9 | 342.3 |
| 27.5° | 4678.6 | 4075.0 | 2535.8 | 923.0 | 471.7 | 420.9 | 375.3 | 332.2 | 296.7 | 273.9 | 271.3 |
| 30° | 4551.8 | 3963.5 | 2231.5 | 639.0 | 428.6 | 372.8 | 322.0 | 271.3 | 235.8 | 220.6 | 215.5 |
| 32.5° | 4498.5 | 3859.5 | 1899.3 | 491.9 | 390.5 | 329.7 | 271.3 | 225.7 | 197.8 | 182.6 | 180.0 |
| 35° | 4435.1 | 3707.4 | 1577.3 | 428.6 | 355.0 | 286.5 | 228.2 | 190.2 | 167.4 | 154.7 | 154.7 |
| 37.5° | 4442.7 | 3585.6 | 1275.5 | 388.0 | 317.0 | 246.0 | 195.3 | 162.3 | 142.0 | 129.3 | 129.3 |
| 40° | 4419.9 | 3489.3 | 991.5 | 352.5 | 281.5 | 210.5 | 164.8 | 136.9 | 119.2 | 106.5 | 104.0 |
| 42.5° | 4523.9 | 3463.9 | 748.1 | 322.0 | 246.0 | 180.0 | 142.0 | 116.6 | 98.9 | 83.7 | 83.7 |
| 45° | 4698.9 | 3504.5 | 583.2 | 294.2 | 210.5 | 154.7 | 121.7 | 96.4 | 78.6 | 68.5 | 65.9 |
| 47.5° | 5165.4 | 3664.2 | 456.4 | 271.3 | 180.0 | 134.4 | 101.4 | 78.6 | 63.4 | 53.3 | 50.7 |
| 50° | 5842.5 | 4021.8 | 388.0 | 238.4 | 152.1 | 114.1 | 83.7 | 60.9 | 50.7 | 40.6 | 38.0 |
| 52.5° | 6806.1 | 4622.8 | 352.5 | 210.5 | 126.8 | 93.8 | 65.9 | 48.2 | 38.0 | 30.4 | 27.9 |
| 55° | 7855.9 | 5373.4 | 319.5 | 177.5 | 106.5 | 76.1 | 53.3 | 38.0 | 27.9 | 20.3 | 17.8 |
| 57.5° | 8675.0 | 6022.5 | 291.6 | 147.1 | 86.2 | 60.9 | 40.6 | 27.9 | 20.3 | 12.7 | 10.1 |
| 60° | 9570.1 | 6479.0 | 256.1 | 116.6 | 71.0 | 45.6 | 30.4 | 20.3 | 15.2 | 7.6 | 7.6 |
| 62.5° | 10493.2 | 7014.0 | 210.5 | 91.3 | 55.8 | 35.5 | 22.8 | 15.2 | 10.1 | 2.5 | 2.5 |
| 65° | 11776.3 | 7432.5 | 162.3 | 71.0 | 43.1 | 25.4 | 17.8 | 12.7 | 5.1 | 0.0 | 0.0 |
| 67.5° | 12138.9 | 7227.1 | 119.2 | 55.8 | 30.4 | 17.8 | 12.7 | 7.6 | 2.5 | 0.0 | 0.0 |
| 69° | 11776.3 | 6509.4 | 104.0 | 48.2 | 25.4 | 15.2 | 10.1 | 5.1 | 2.5 | 0.0 | 0.0 |
| 70° | 11114.5 | 5951.5 | 91.3 | 40.6 | 22.8 | 15.2 | 7.6 | 5.1 | 2.5 | 0.0 | 0.0 |
| 72.5° | 9296.3 | 4564.5 | 71.0 | 30.4 | 17.8 | 12.7 | 7.6 | 5.1 | 0.0 | 0.0 | 0.0 |
| 75° | 6818.8 | 2819.8 | 53.3 | 22.8 | 15.2 | 10.1 | 7.6 | 5.1 | 0.0 | 0.0 | 0.0 |
| 77.5° | 3654.1 | 1029.5 | 38.0 | 15.2 | 10.1 | 7.6 | 7.6 | 5.1 | 0.0 | 0.0 | 0.0 |
| 80° | 1001.6 | 304.3 | 27.9 | 10.1 | 7.6 | 5.1 | 5.1 | 2.5 | 0.0 | 0.0 | 0.0 |
| 82.5° | 273.9 | 78.6 | 17.8 | 10.1 | 7.6 | 5.1 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 147.1 | 30.4 | 10.1 | 7.6 | 5.1 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 76.1 | 10.1 | 7.6 | 5.1 | 5.1 | 2.5 | 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)