

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: P478609

Luminaire Tested: **IFLD-M-SA4E-750-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478609
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-750-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

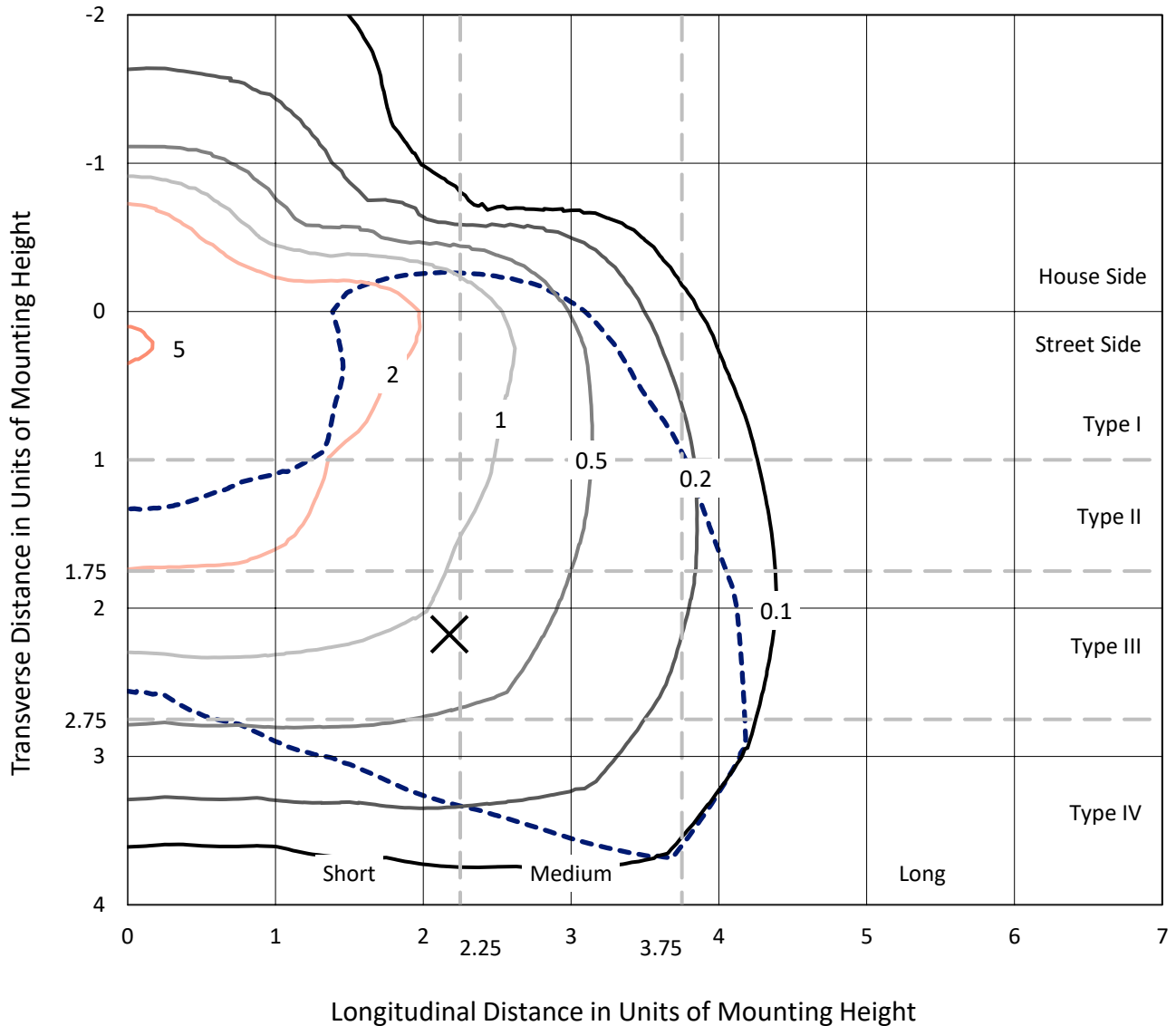
Lumens per Lamp: N/A
Luminaire Lumens: 37432.9 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 314.8
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

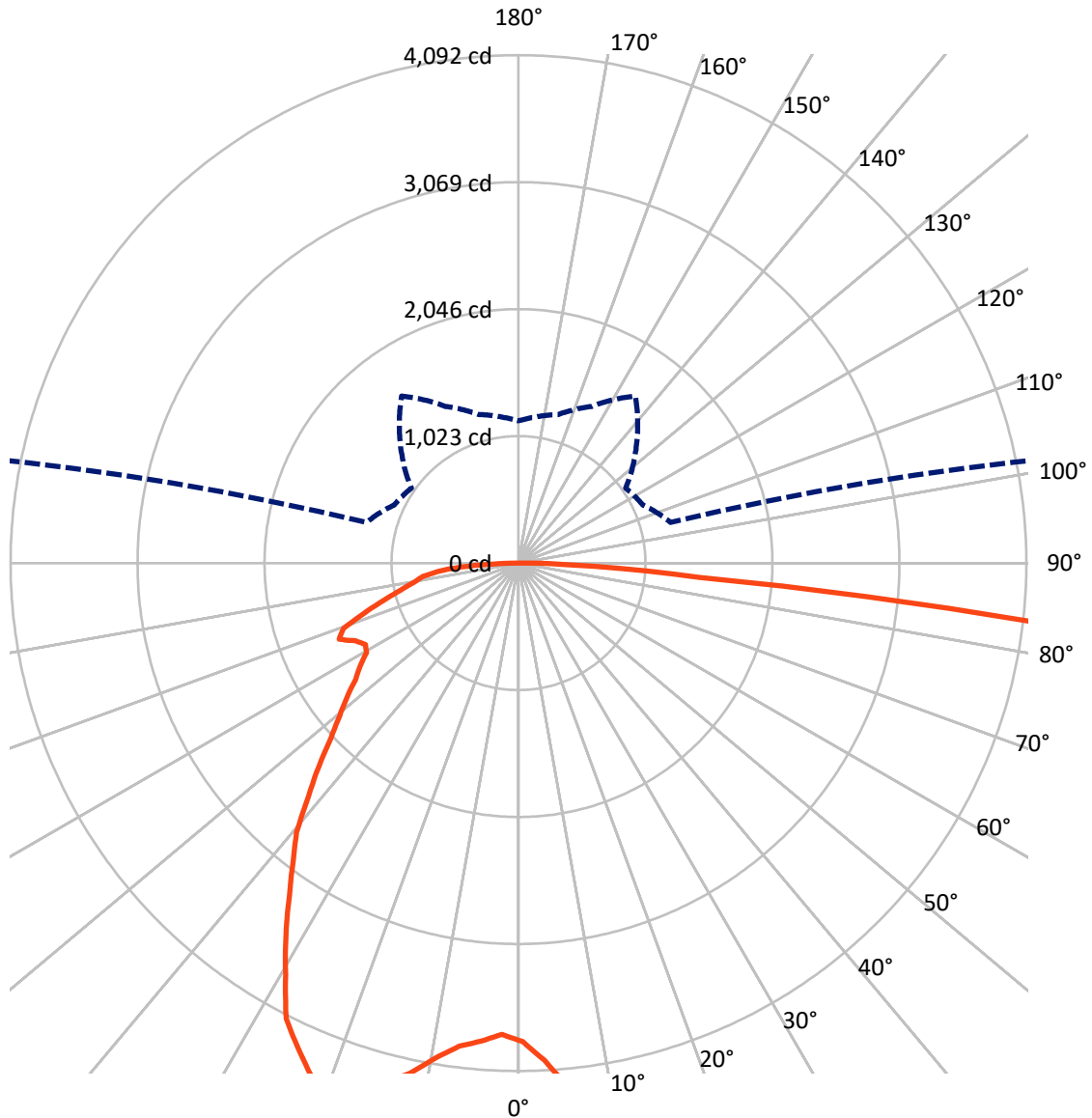
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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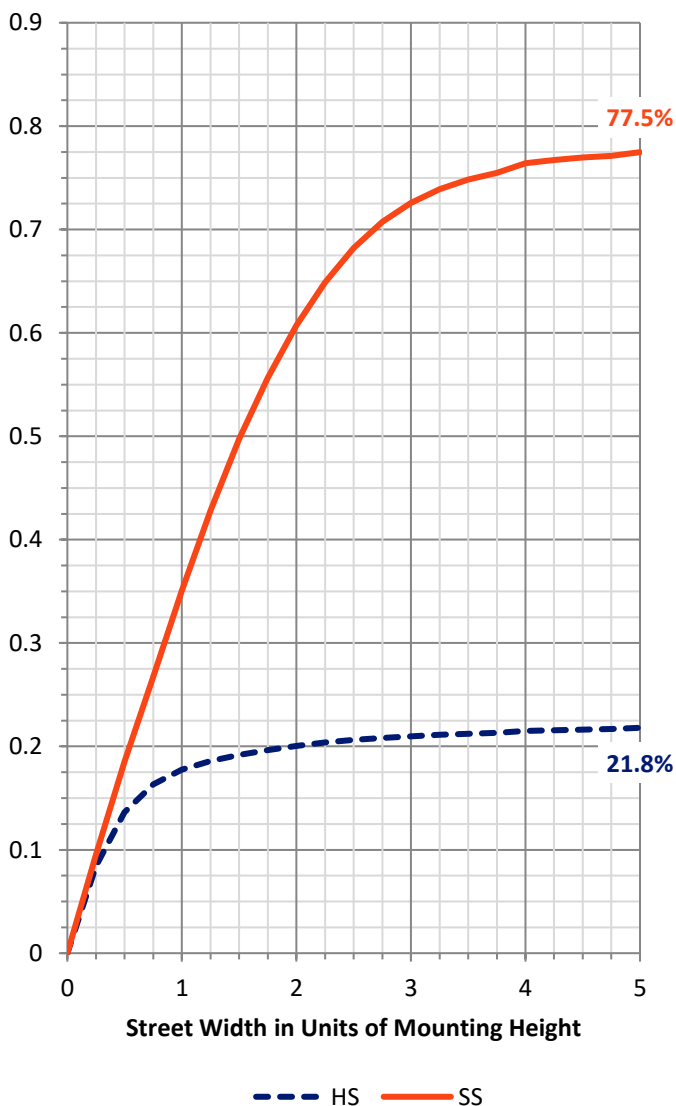
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8332.8 | 0.0 | 8332.8 |
| | % Fixture | 22.3 | 0.0 | 22.3 |
| Street Side | Lumens | 29100.1 | 0.0 | 29100.1 |
| | % Fixture | 77.7 | 0.0 | 77.7 |
| Total | Lumens | 37432.9 | 0.0 | 37432.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 394.5 | 1.1 |
| 10°-20° | 1312.4 | 3.5 |
| 20°-30° | 2216.3 | 5.9 |
| 30°-40° | 3067.0 | 8.2 |
| 40°-50° | 4387.0 | 11.7 |
| 50°-60° | 7075.8 | 18.9 |
| 60°-70° | 10435.8 | 27.9 |
| 70°-80° | 7578.2 | 20.2 |
| 80°-90° | 966.0 | 2.6 |
| 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° | 37432.9 | 100.0 |
| 0°-180° | 37432.9 | 100.0 |

Coefficient of Utilization



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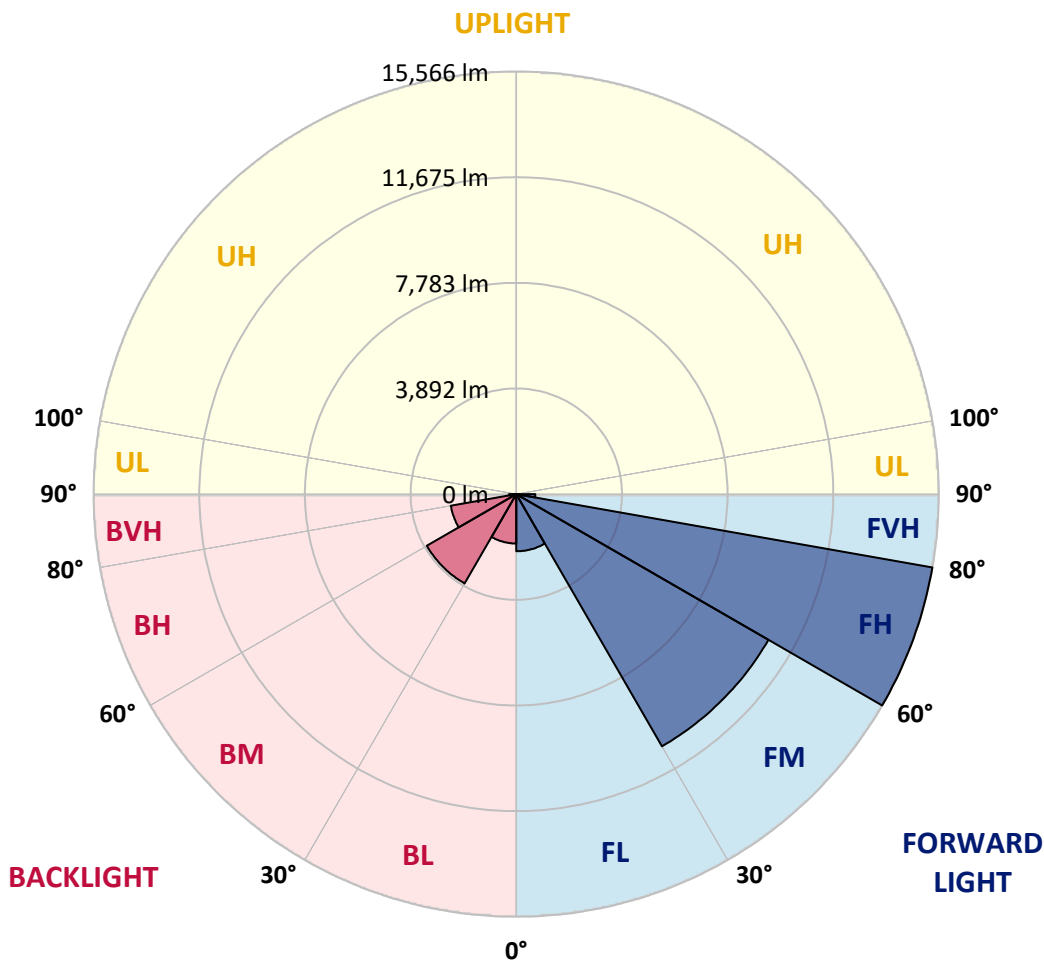
CATALOG NUMBER: IFLD-M-SA4E-750-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2103.8 | 5.6 | | | |
| FM (30°-60°) | 10727.0 | 28.7 | | | |
| FH (60°-80°) | 15566.3 | 41.6 | | | G5 |
| FVH (80°-90°) | 703.1 | 1.9 | | | G4/750 |
| BL (0°-30°) | 1819.4 | 4.9 | B3/2500 | | |
| BM (30°-60°) | 3802.8 | 10.2 | B3/5000 | | |
| BH (60°-80°) | 2447.6 | 6.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 262.9 | 0.7 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3854.9 | 3854.9 | 3854.9 | 3854.9 | 3854.9 | 3854.9 | 3854.9 | 3854.9 | 3854.9 | 3854.9 | 3854.9 |
| 2.5° | 4060.8 | 4085.0 | 4060.8 | 4056.7 | 4016.4 | 3988.1 | 4012.3 | 3976.0 | 3935.6 | 3919.5 | 3883.2 |
| 5° | 4432.1 | 4436.2 | 4391.8 | 4395.8 | 4311.0 | 4222.2 | 4238.4 | 4129.4 | 4012.3 | 3967.9 | 3895.3 |
| 7.5° | 4811.6 | 4767.2 | 4702.6 | 4682.4 | 4549.2 | 4452.3 | 4440.2 | 4343.3 | 4161.7 | 4060.8 | 3959.9 |
| 10° | 5057.8 | 5073.9 | 4969.0 | 4880.2 | 4767.2 | 4650.1 | 4646.1 | 4464.4 | 4359.5 | 4210.1 | 4081.0 |
| 12.5° | 5275.8 | 5279.8 | 5191.0 | 5049.7 | 4908.5 | 4763.1 | 4783.3 | 4702.6 | 4525.0 | 4383.7 | 4254.5 |
| 15° | 5445.3 | 5421.1 | 5324.2 | 5195.0 | 5045.7 | 4932.7 | 4920.6 | 4851.9 | 4702.6 | 4585.5 | 4371.6 |
| 17.5° | 5493.8 | 5481.6 | 5384.8 | 5247.5 | 5102.2 | 5017.4 | 5049.7 | 4936.7 | 4876.2 | 4771.2 | 4565.3 |
| 20° | 5400.9 | 5372.7 | 5356.5 | 5203.1 | 5098.2 | 5090.1 | 5061.8 | 5086.1 | 4985.1 | 4888.3 | 4738.9 |
| 22.5° | 5231.4 | 5219.3 | 5211.2 | 5090.1 | 5041.7 | 5078.0 | 5126.4 | 5162.8 | 5146.6 | 5053.8 | 4884.2 |
| 25° | 5057.8 | 5114.3 | 5061.8 | 5005.3 | 5073.9 | 5166.8 | 5154.7 | 5271.7 | 5271.7 | 5243.5 | 5102.2 |
| 27.5° | 5178.9 | 5142.6 | 5102.2 | 5073.9 | 5098.2 | 5243.5 | 5235.4 | 5376.7 | 5429.2 | 5376.7 | 5215.2 |
| 30° | 5481.6 | 5445.3 | 5328.3 | 5203.1 | 5170.8 | 5328.3 | 5368.6 | 5493.8 | 5518.0 | 5388.8 | 5251.6 |
| 32.5° | 6050.8 | 6030.6 | 5844.9 | 5477.6 | 5279.8 | 5368.6 | 5388.8 | 5530.1 | 5509.9 | 5429.2 | 5372.7 |
| 35° | 6894.4 | 6825.8 | 6567.5 | 5945.8 | 5509.9 | 5421.1 | 5368.6 | 5481.6 | 5558.3 | 5518.0 | 5465.5 |
| 37.5° | 7818.8 | 7742.1 | 7423.2 | 6636.1 | 5925.7 | 5562.4 | 5522.0 | 5614.8 | 5703.7 | 5683.5 | 5574.5 |
| 40° | 8702.8 | 8702.8 | 8416.2 | 7499.9 | 6543.3 | 5905.5 | 5913.6 | 5808.6 | 5889.3 | 5853.0 | 5873.2 |
| 42.5° | 9574.7 | 9542.4 | 9425.4 | 8513.1 | 7205.3 | 6478.7 | 6349.5 | 6087.1 | 6232.4 | 6220.3 | 6248.6 |
| 45° | 10458.7 | 10434.5 | 10402.2 | 9457.6 | 8153.8 | 7253.7 | 7185.1 | 6712.8 | 6846.0 | 6789.5 | 6910.6 |
| 47.5° | 11165.1 | 11193.4 | 11193.4 | 10511.2 | 9167.0 | 8287.0 | 8186.1 | 7439.4 | 7693.7 | 7721.9 | 7750.2 |
| 50° | 11766.6 | 11778.7 | 11766.6 | 11516.3 | 10297.3 | 9469.8 | 9263.9 | 8505.0 | 8759.3 | 8981.3 | 9239.7 |
| 52.5° | 12598.1 | 12614.2 | 12557.7 | 12460.8 | 11831.1 | 10713.0 | 10482.9 | 9639.3 | 10160.0 | 10394.1 | 10858.3 |
| 55° | 13623.4 | 13502.3 | 13397.3 | 13470.0 | 13304.5 | 12081.4 | 11843.3 | 10809.9 | 11593.0 | 11903.8 | 12832.2 |
| 57.5° | 13813.1 | 13918.0 | 14184.5 | 14761.7 | 14999.8 | 13413.5 | 13276.2 | 12246.9 | 13211.6 | 13482.1 | 15032.1 |
| 60° | 14483.2 | 14309.6 | 14963.5 | 16214.8 | 16481.3 | 15149.2 | 15007.9 | 13821.2 | 14822.2 | 15104.8 | 17062.5 |
| 62.5° | 14923.1 | 14915.1 | 15883.8 | 17369.3 | 17974.8 | 16949.5 | 16662.9 | 15867.7 | 16562.0 | 16836.5 | 19274.5 |
| 65° | 14794.0 | 14911.0 | 16630.6 | 18047.4 | 19222.1 | 18996.0 | 18830.5 | 17627.6 | 18543.9 | 18519.7 | 20715.6 |
| 67.5° | 13615.3 | 13946.3 | 16158.3 | 18535.9 | 21078.9 | 21490.6 | 21438.1 | 20102.0 | 20154.5 | 19641.9 | 21357.4 |
| 70° | 11980.5 | 11867.5 | 14160.2 | 18027.3 | 22007.3 | 24449.4 | 24437.3 | 21942.7 | 21603.6 | 19888.1 | 19516.7 |
| 72° | 9203.3 | 9078.2 | 10963.3 | 15480.2 | 21518.9 | 25632.1 | 25995.4 | 23218.3 | 21587.5 | 18866.9 | 16122.0 |
| 72.5° | 8355.7 | 8246.7 | 10123.7 | 14572.0 | 20978.0 | 25938.9 | 25769.4 | 23266.7 | 21418.0 | 18386.5 | 15060.4 |
| 75° | 3846.8 | 3721.7 | 5057.8 | 8920.8 | 16364.2 | 22984.1 | 23561.4 | 21773.2 | 18705.4 | 14636.5 | 9021.7 |
| 77.5° | 1146.4 | 1110.1 | 1626.7 | 3600.6 | 9510.1 | 16933.3 | 17155.4 | 16428.8 | 13058.3 | 8016.6 | 3346.3 |
| 80° | 637.8 | 641.8 | 839.6 | 1348.2 | 4181.9 | 9788.6 | 10587.9 | 10147.9 | 6406.0 | 2648.0 | 1114.1 |
| 82.5° | 355.2 | 375.4 | 524.8 | 799.2 | 1921.4 | 4492.7 | 4835.8 | 4662.2 | 2317.0 | 1243.3 | 609.5 |
| 85° | 185.7 | 193.8 | 274.5 | 427.9 | 1089.9 | 1420.9 | 1461.2 | 1566.2 | 1202.9 | 847.7 | 327.0 |
| 87.5° | 72.7 | 72.7 | 100.9 | 177.6 | 403.7 | 440.0 | 395.6 | 480.4 | 690.3 | 549.0 | 161.5 |
| 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° | 3854.9 | 3854.9 | 3854.9 | 3854.9 | 3854.9 | 3854.9 | 3854.9 | 3854.9 | 3854.9 | 3854.9 | 3854.9 |
| 2.5° | 3915.5 | 3883.2 | 3879.1 | 3826.7 | 3842.8 | 3798.4 | 3802.4 | 3794.4 | 3798.4 | 3790.3 | 3770.1 |
| 5° | 3895.3 | 3871.1 | 3802.4 | 3846.8 | 3806.5 | 3863.0 | 3907.4 | 3891.2 | 3903.3 | 3899.3 | 3903.3 |
| 7.5° | 3923.5 | 3891.2 | 3883.2 | 3858.9 | 3895.3 | 3919.5 | 3955.8 | 4056.7 | 4048.7 | 4060.8 | 4085.0 |
| 10° | 4008.3 | 3972.0 | 3947.8 | 3984.1 | 3963.9 | 4040.6 | 4081.0 | 4133.4 | 4226.3 | 4230.3 | 4181.9 |
| 12.5° | 4173.8 | 4149.6 | 4101.1 | 4109.2 | 4177.8 | 4202.1 | 4226.3 | 4258.6 | 4319.1 | 4307.0 | 4351.4 |
| 15° | 4363.5 | 4311.0 | 4282.8 | 4274.7 | 4290.9 | 4319.1 | 4315.1 | 4347.4 | 4379.7 | 4407.9 | 4395.8 |
| 17.5° | 4500.8 | 4432.1 | 4440.2 | 4480.6 | 4476.5 | 4468.5 | 4416.0 | 4399.8 | 4416.0 | 4432.1 | 4424.1 |
| 20° | 4642.0 | 4650.1 | 4589.6 | 4553.2 | 4537.1 | 4456.4 | 4416.0 | 4367.6 | 4319.1 | 4343.3 | 4379.7 |
| 22.5° | 4819.6 | 4783.3 | 4694.5 | 4585.5 | 4504.8 | 4456.4 | 4331.2 | 4246.5 | 4246.5 | 4270.7 | 4258.6 |
| 25° | 5021.5 | 4944.8 | 4791.4 | 4593.6 | 4492.7 | 4286.8 | 4198.0 | 4185.9 | 4153.6 | 4189.9 | 4206.1 |
| 27.5° | 5178.9 | 5110.3 | 4900.4 | 4565.3 | 4286.8 | 4121.3 | 4068.8 | 4052.7 | 4105.2 | 4109.2 | 4173.8 |
| 30° | 5243.5 | 5223.3 | 4916.5 | 4492.7 | 4076.9 | 3810.5 | 3778.2 | 3850.9 | 3907.4 | 3992.2 | 3996.2 |
| 32.5° | 5328.3 | 5336.3 | 4940.7 | 4323.2 | 3802.4 | 3536.0 | 3487.6 | 3576.4 | 3737.8 | 3806.5 | 3858.9 |
| 35° | 5469.5 | 5509.9 | 4920.6 | 4113.2 | 3511.8 | 3257.5 | 3249.4 | 3273.6 | 3431.1 | 3552.2 | 3620.8 |
| 37.5° | 5715.8 | 5707.7 | 4916.5 | 3863.0 | 3281.7 | 3015.3 | 2950.7 | 2958.8 | 3063.7 | 3164.7 | 3152.5 |
| 40° | 6046.8 | 6014.5 | 4904.4 | 3536.0 | 2983.0 | 2809.4 | 2700.5 | 2660.1 | 2652.0 | 2623.8 | 2631.8 |
| 42.5° | 6498.9 | 6434.3 | 4900.4 | 3205.0 | 2712.6 | 2526.9 | 2450.2 | 2345.2 | 2268.5 | 2123.2 | 2131.3 |
| 45° | 7128.6 | 7015.5 | 4795.4 | 2894.2 | 2446.2 | 2292.8 | 2175.7 | 2099.0 | 1933.5 | 1751.9 | 1751.9 |
| 47.5° | 8101.4 | 7734.0 | 4799.5 | 2551.1 | 2187.8 | 2062.7 | 1981.9 | 1848.7 | 1671.1 | 1525.8 | 1509.7 |
| 50° | 9534.3 | 8694.7 | 4662.2 | 2280.7 | 1977.9 | 1893.1 | 1808.4 | 1655.0 | 1485.5 | 1384.5 | 1396.6 |
| 52.5° | 11383.1 | 10127.7 | 4658.2 | 2038.5 | 1812.4 | 1751.9 | 1659.0 | 1521.8 | 1396.6 | 1332.1 | 1307.8 |
| 55° | 13587.0 | 12024.9 | 4803.5 | 1840.7 | 1642.9 | 1610.6 | 1570.2 | 1457.2 | 1336.1 | 1279.6 | 1275.6 |
| 57.5° | 15843.5 | 13877.7 | 5037.6 | 1699.4 | 1497.6 | 1521.8 | 1493.5 | 1404.7 | 1307.8 | 1243.3 | 1235.2 |
| 60° | 17849.6 | 15347.0 | 4565.3 | 1529.9 | 1368.4 | 1420.9 | 1461.2 | 1384.5 | 1332.1 | 1328.0 | 1299.8 |
| 62.5° | 19363.4 | 15976.7 | 3471.4 | 1400.7 | 1299.8 | 1396.6 | 1505.6 | 1554.1 | 1529.9 | 1562.1 | 1566.2 |
| 65° | 19916.4 | 15597.2 | 2389.6 | 1332.1 | 1247.3 | 1453.2 | 1695.4 | 1679.2 | 1537.9 | 1477.4 | 1509.7 |
| 67.5° | 19141.3 | 14059.3 | 1772.0 | 1251.3 | 1211.0 | 1570.2 | 1804.3 | 1602.5 | 1388.6 | 1380.5 | 1356.3 |
| 70° | 16461.1 | 11915.9 | 1445.1 | 1166.6 | 1150.4 | 1505.6 | 1755.9 | 1485.5 | 1307.8 | 1255.4 | 1231.1 |
| 72° | 13114.8 | 9280.0 | 1267.5 | 1106.0 | 1053.5 | 1344.2 | 1642.9 | 1392.6 | 1239.2 | 1174.6 | 1146.4 |
| 72.5° | 11972.4 | 8601.9 | 1243.3 | 1077.8 | 1033.4 | 1307.8 | 1586.4 | 1364.4 | 1223.1 | 1166.6 | 1122.2 |
| 75° | 6567.5 | 4403.9 | 1093.9 | 989.0 | 871.9 | 1130.2 | 1469.3 | 1279.6 | 1154.5 | 1073.7 | 1065.7 |
| 77.5° | 2442.1 | 1707.5 | 944.6 | 875.9 | 754.8 | 976.8 | 1336.1 | 1215.0 | 1049.5 | 948.6 | 928.4 |
| 80° | 936.5 | 900.2 | 771.0 | 738.7 | 633.7 | 855.7 | 1231.1 | 1089.9 | 892.1 | 791.2 | 758.9 |
| 82.5° | 569.2 | 524.8 | 585.3 | 577.2 | 484.4 | 779.1 | 1158.5 | 1021.2 | 791.2 | 641.8 | 621.6 |
| 85° | 310.8 | 310.8 | 407.7 | 391.5 | 339.1 | 621.6 | 875.9 | 678.1 | 500.5 | 411.7 | 419.8 |
| 87.5° | 137.2 | 161.5 | 218.0 | 205.9 | 185.7 | 351.2 | 427.9 | 359.3 | 250.3 | 169.5 | 181.6 |
| 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)