

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: P479823

Luminaire Tested: **IFLD-L-SA7E-760-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479823
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-760-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (112) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

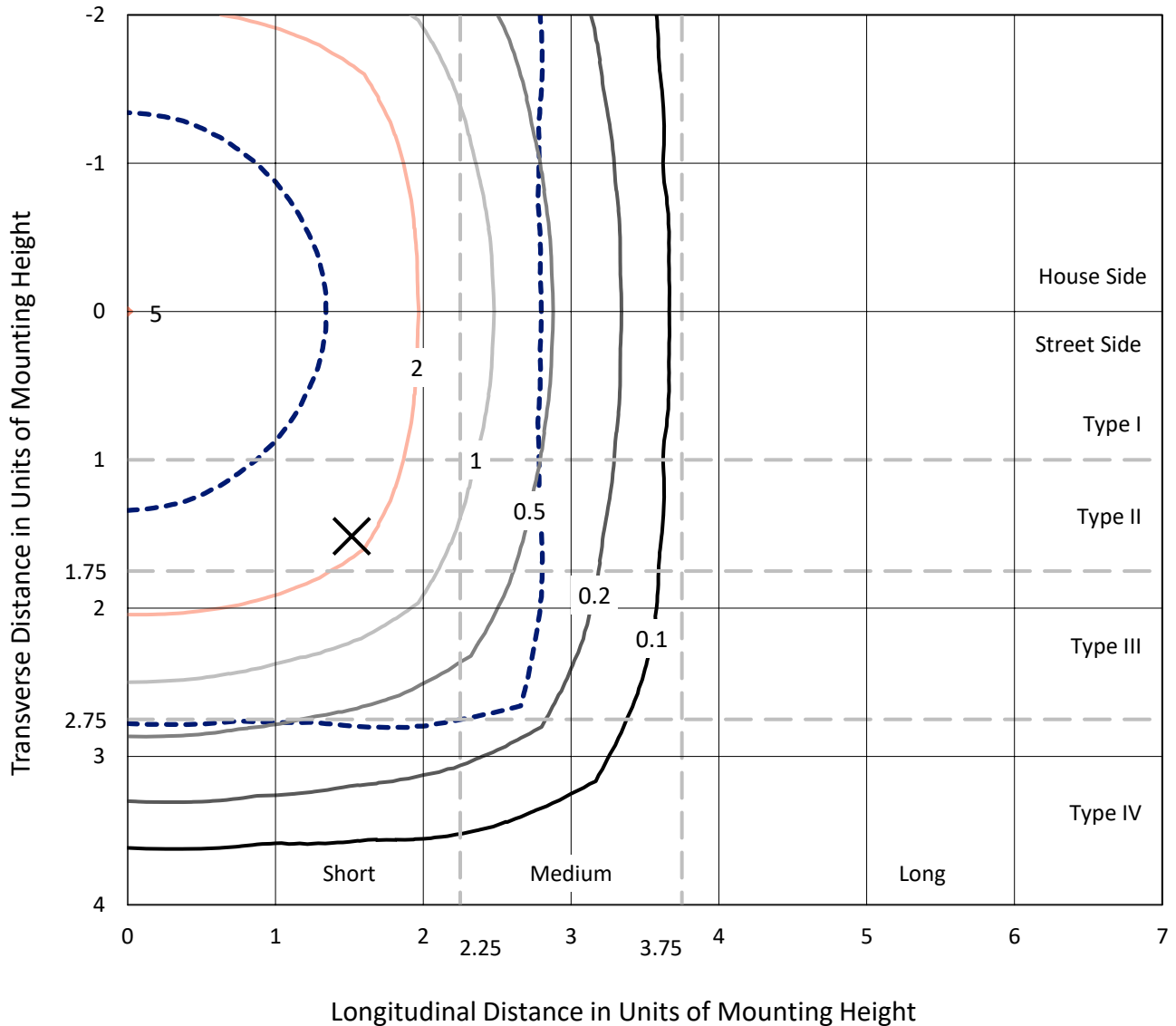
Lumens per Lamp: N/A
Luminaire Lumens: 59256.6 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 532.7
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

REPORT NUMBER: P479823
 CATALOG NUMBER: IFLD-L-SA7E-760-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

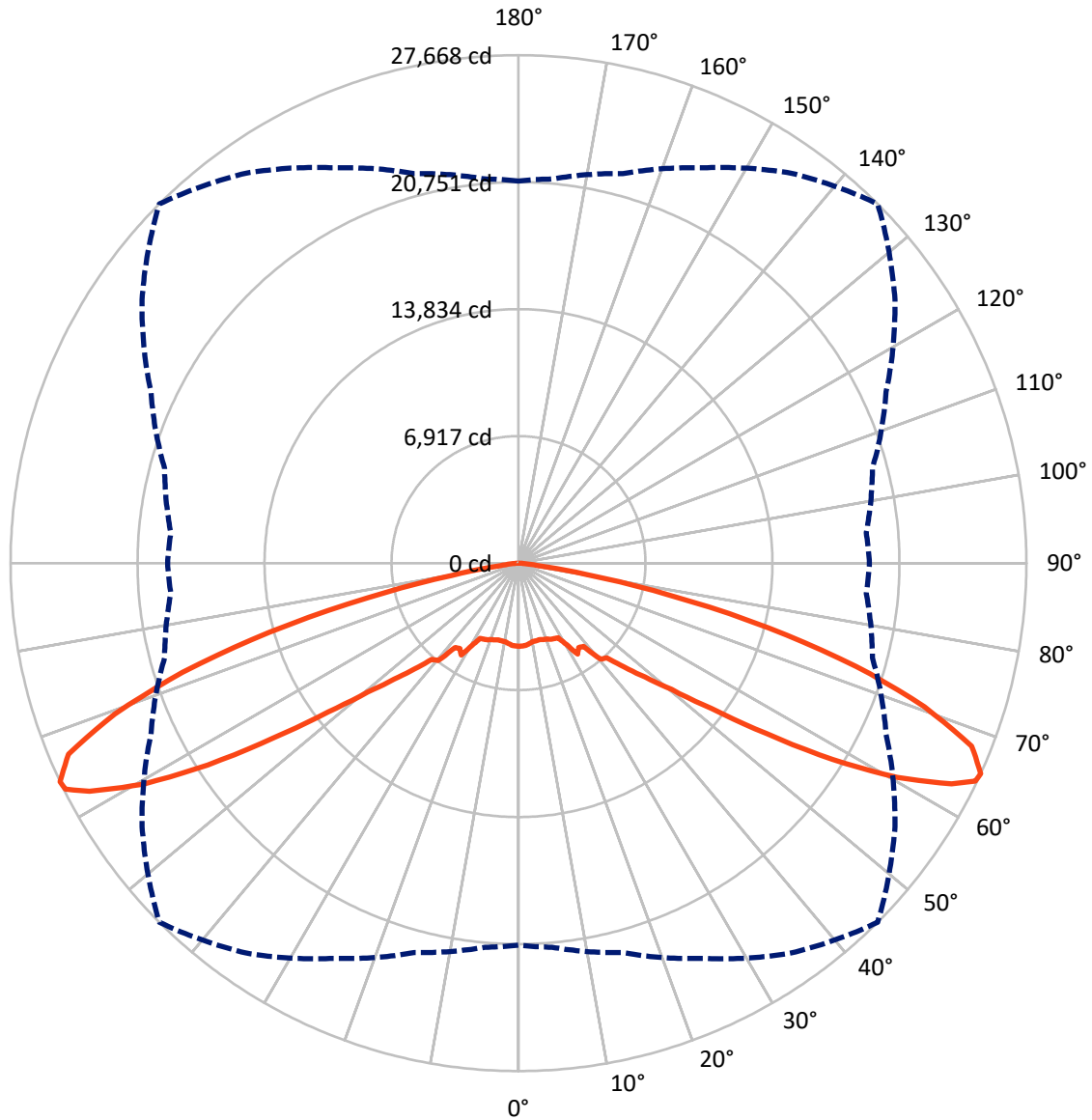
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - N/A

REPORT NUMBER: P479823
CATALOG NUMBER: IFLD-L-SA7E-760-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P479823

CATALOG NUMBER: IFLD-L-SA7E-760-U-5WQ

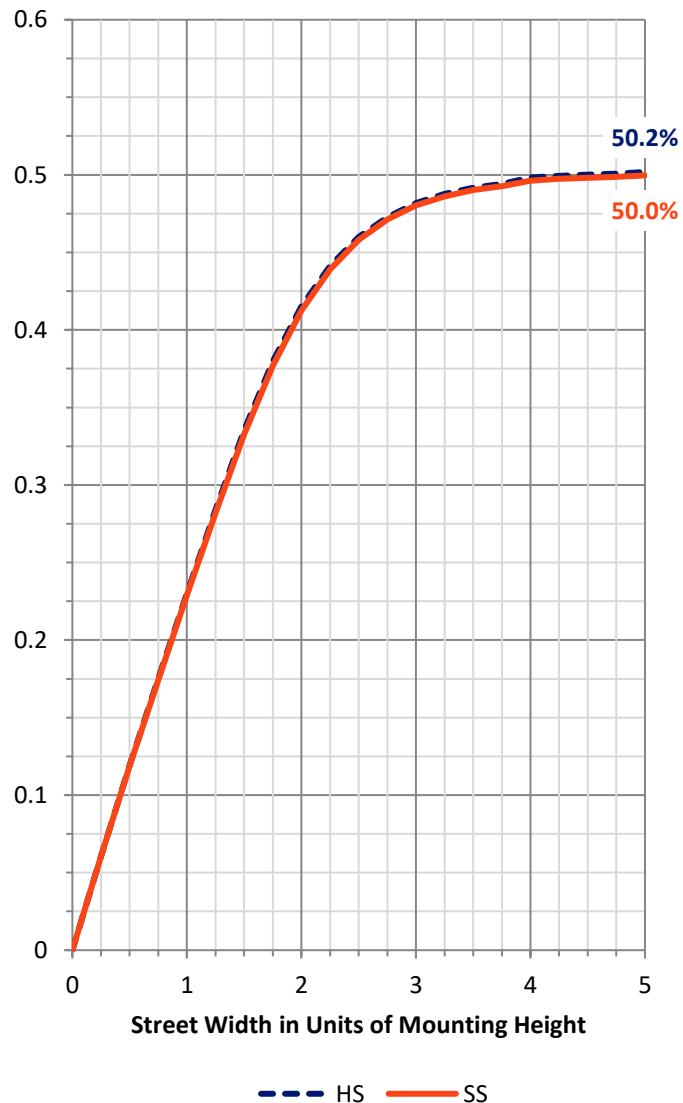
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 29628.3 | 0.0 | 29628.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 29628.3 | 0.0 | 29628.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 59256.6 | 0.0 | 59256.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 425.2 | 0.7 |
| 10°-20° | 1248.9 | 2.1 |
| 20°-30° | 2161.7 | 3.6 |
| 30°-40° | 3594.5 | 6.1 |
| 40°-50° | 6485.1 | 10.9 |
| 50°-60° | 14446.7 | 24.4 |
| 60°-70° | 21530.2 | 36.3 |
| 70°-80° | 8922.4 | 15.1 |
| 80°-90° | 441.9 | 0.7 |
| 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° | 59256.6 | 100.0 |
| 0°-180° | 59256.6 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P479823

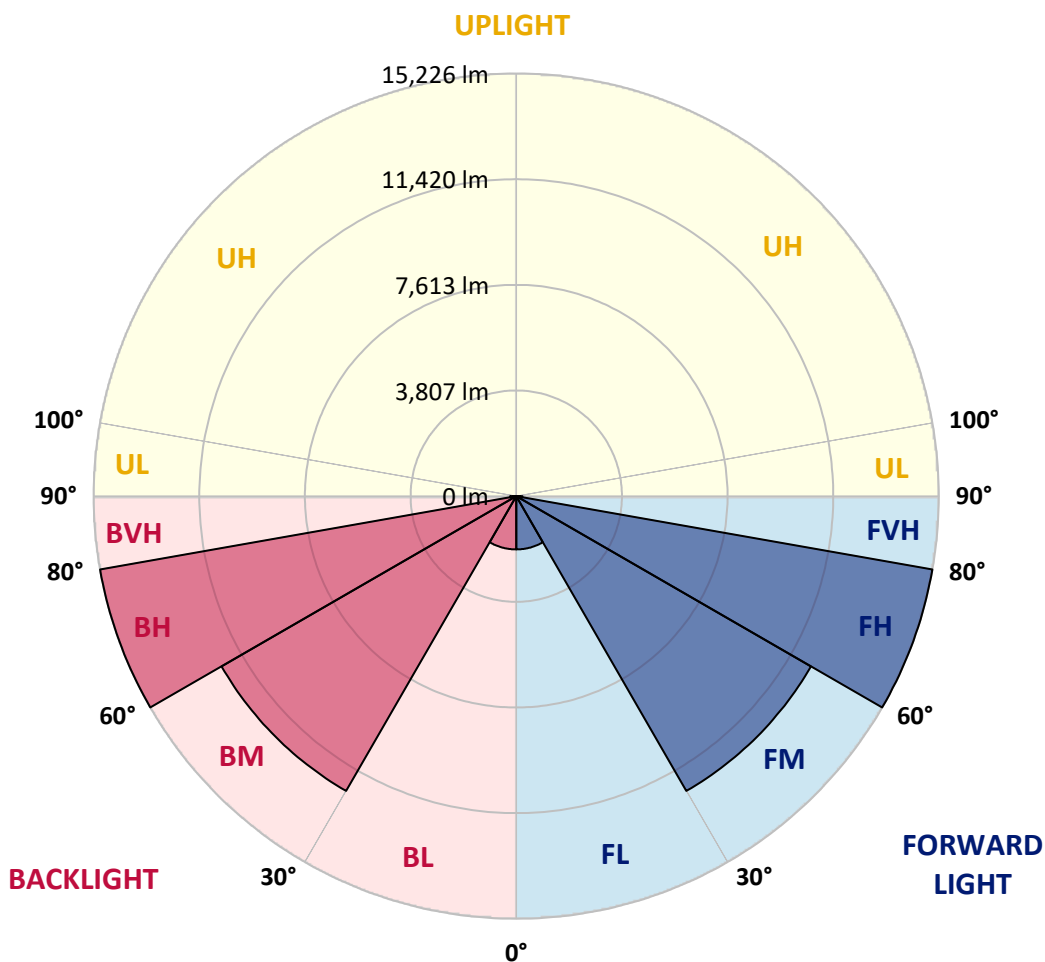
CATALOG NUMBER: IFLD-L-SA7E-760-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1917.9 | 3.2 | | | |
| FM (30°-60°) | 12263.2 | 20.7 | | | |
| FH (60°-80°) | 15226.3 | 25.7 | | | G5 |
| FVH (80°-90°) | 221.0 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1917.9 | 3.2 | B3/2500 | | |
| BM (30°-60°) | 12263.2 | 20.7 | B5 | | |
| BH (60°-80°) | 15226.3 | 25.7 | B5 | | G5 |
| BVH (80°-90°) | 221.0 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type V Short





REPORT NUMBER: P479823
 CATALOG NUMBER: IFLD-L-SA7E-760-U-5WQ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4530.5 | 4530.5 | 4530.5 | 4530.5 | 4530.5 | 4530.5 | 4530.5 | 4530.5 | 4530.5 | 4530.5 | 4530.5 |
| 2.5° | 4478.1 | 4491.2 | 4484.7 | 4484.7 | 4504.3 | 4517.4 | 4524.0 | 4589.4 | 4563.3 | 4582.9 | 4563.3 |
| 5° | 4491.2 | 4491.2 | 4504.3 | 4491.2 | 4504.3 | 4491.2 | 4504.3 | 4484.7 | 4504.3 | 4517.4 | 4537.1 |
| 7.5° | 4465.1 | 4452.0 | 4432.3 | 4432.3 | 4425.8 | 4412.7 | 4393.0 | 4445.4 | 4419.2 | 4438.9 | 4471.6 |
| 10° | 4471.6 | 4452.0 | 4386.5 | 4399.6 | 4340.7 | 4340.7 | 4353.8 | 4353.8 | 4412.7 | 4478.1 | 4497.8 |
| 12.5° | 4471.6 | 4432.3 | 4412.7 | 4327.6 | 4327.6 | 4334.1 | 4366.9 | 4379.9 | 4419.2 | 4445.4 | 4510.9 |
| 15° | 4471.6 | 4452.0 | 4419.2 | 4307.9 | 4334.1 | 4321.0 | 4353.8 | 4353.8 | 4438.9 | 4484.7 | 4517.4 |
| 17.5° | 4497.8 | 4510.9 | 4452.0 | 4347.2 | 4353.8 | 4379.9 | 4360.3 | 4379.9 | 4484.7 | 4517.4 | 4563.3 |
| 20° | 4504.3 | 4452.0 | 4432.3 | 4366.9 | 4425.8 | 4412.7 | 4406.1 | 4445.4 | 4478.1 | 4537.1 | 4589.4 |
| 22.5° | 4491.2 | 4510.9 | 4432.3 | 4425.8 | 4478.1 | 4504.3 | 4517.4 | 4471.6 | 4510.9 | 4550.2 | 4596.0 |
| 25° | 4602.5 | 4530.5 | 4510.9 | 4497.8 | 4524.0 | 4550.2 | 4537.1 | 4576.4 | 4576.4 | 4622.2 | 4681.1 |
| 27.5° | 4903.7 | 4910.3 | 4871.0 | 4713.8 | 4661.5 | 4602.5 | 4628.7 | 4733.5 | 4857.9 | 4956.1 | 4975.7 |
| 30° | 5041.2 | 5067.4 | 5172.1 | 5145.9 | 5126.3 | 5145.9 | 5139.4 | 5165.6 | 5178.7 | 5185.2 | 5165.6 |
| 32.5° | 5165.6 | 5152.5 | 5106.7 | 5224.5 | 5610.8 | 5905.4 | 5623.9 | 5237.6 | 5152.5 | 5126.3 | 5152.5 |
| 35° | 5617.3 | 5617.3 | 5519.1 | 5368.5 | 5571.5 | 5643.5 | 5512.6 | 5329.3 | 5434.0 | 5650.1 | 5663.2 |
| 37.5° | 6200.0 | 6114.9 | 6154.2 | 6134.5 | 5911.9 | 5754.8 | 5984.0 | 6101.8 | 6121.4 | 6114.9 | 6180.4 |
| 40° | 6547.0 | 6488.1 | 6429.2 | 6533.9 | 6736.9 | 6880.9 | 6677.9 | 6396.4 | 6468.4 | 6612.5 | 6553.5 |
| 42.5° | 7339.2 | 7188.6 | 7201.7 | 7097.0 | 7090.4 | 7044.6 | 6998.7 | 7018.4 | 7123.1 | 7286.8 | 7313.0 |
| 45° | 8151.0 | 8223.0 | 8177.2 | 7980.8 | 8072.5 | 8072.5 | 7941.5 | 8039.7 | 8092.1 | 8282.0 | 8308.1 |
| 47.5° | 9421.1 | 9388.4 | 9408.0 | 9231.3 | 9224.7 | 9270.6 | 9224.7 | 9231.3 | 9394.9 | 9381.9 | 9309.8 |
| 50° | 10907.3 | 10999.0 | 11025.2 | 10940.0 | 10835.3 | 10815.6 | 10743.6 | 10835.3 | 10933.5 | 10940.0 | 10881.1 |
| 52.5° | 12963.1 | 13061.3 | 13061.3 | 13087.5 | 13218.4 | 13152.9 | 13139.8 | 13146.4 | 12956.5 | 12825.6 | 12891.0 |
| 55° | 15555.7 | 15588.4 | 15699.7 | 15928.9 | 16328.2 | 16380.6 | 16131.8 | 16020.5 | 15673.5 | 15464.0 | 15627.7 |
| 57.5° | 18115.6 | 18246.5 | 18554.2 | 19150.0 | 19641.0 | 20177.9 | 19457.7 | 18724.4 | 18043.5 | 17709.6 | 17768.6 |
| 60° | 20243.3 | 20433.2 | 21022.4 | 21853.9 | 23215.7 | 23706.7 | 22489.0 | 21231.9 | 19850.5 | 18829.2 | 19241.6 |
| 62.5° | 21245.0 | 21539.6 | 22037.2 | 23719.8 | 25762.5 | 26469.5 | 24682.2 | 22397.3 | 20302.3 | 19320.2 | 19300.6 |
| 64° | 21251.6 | 21297.4 | 22292.5 | 24106.1 | 26207.7 | 27576.0 | 25212.5 | 22397.3 | 20413.6 | 19202.4 | 19425.0 |
| 65° | 20812.9 | 21002.8 | 21965.2 | 23752.5 | 25926.1 | 27667.6 | 25029.2 | 22089.6 | 19955.3 | 19012.5 | 19117.2 |
| 67.5° | 18822.6 | 18816.1 | 19706.5 | 21480.7 | 24498.9 | 26626.7 | 23471.0 | 20367.7 | 18822.6 | 17801.3 | 17925.7 |
| 70° | 14279.0 | 14508.2 | 15359.3 | 17539.4 | 21199.2 | 23477.6 | 20524.9 | 17310.3 | 15385.5 | 14567.1 | 14521.3 |
| 72.5° | 8543.8 | 8845.0 | 9931.8 | 12589.9 | 16465.7 | 19235.1 | 16288.9 | 12805.9 | 10488.3 | 9192.0 | 9224.7 |
| 75° | 3895.5 | 4118.1 | 4864.4 | 7031.5 | 10972.8 | 14063.0 | 11038.2 | 7404.7 | 5309.6 | 4484.7 | 4366.9 |
| 77.5° | 1093.3 | 1230.8 | 1643.3 | 3227.7 | 6023.2 | 8432.5 | 6193.5 | 3568.1 | 2317.6 | 1924.8 | 1885.5 |
| 80° | 491.0 | 517.2 | 582.7 | 785.6 | 1911.7 | 3718.7 | 2559.9 | 1309.4 | 870.8 | 720.2 | 687.4 |
| 82.5° | 268.4 | 288.1 | 379.7 | 405.9 | 543.4 | 988.6 | 844.6 | 615.4 | 523.8 | 419.0 | 405.9 |
| 85° | 150.6 | 157.1 | 216.1 | 216.1 | 261.9 | 288.1 | 307.7 | 327.4 | 320.8 | 235.7 | 229.1 |
| 87.5° | 45.8 | 52.4 | 65.5 | 65.5 | 65.5 | 65.5 | 104.8 | 144.0 | 157.1 | 111.3 | 111.3 |
| 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)