

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: P479901

Luminaire Tested: **IFLD-L-SA7E-830-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479901
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-830-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

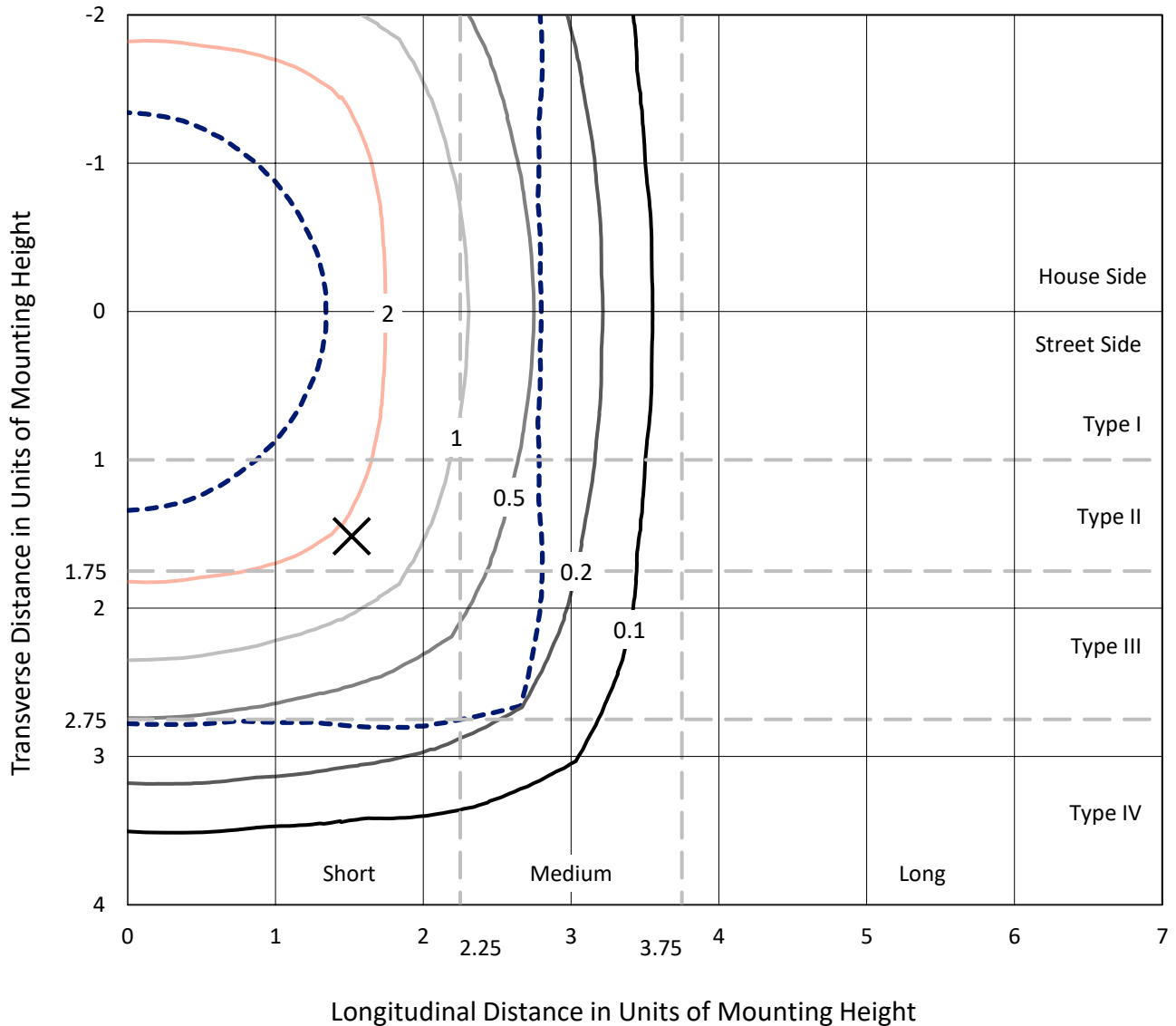
Lumens per Lamp: N/A
Luminaire Lumens: 46031.1 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

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

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Iso-Footcandle Lines of Horizontal Illumination

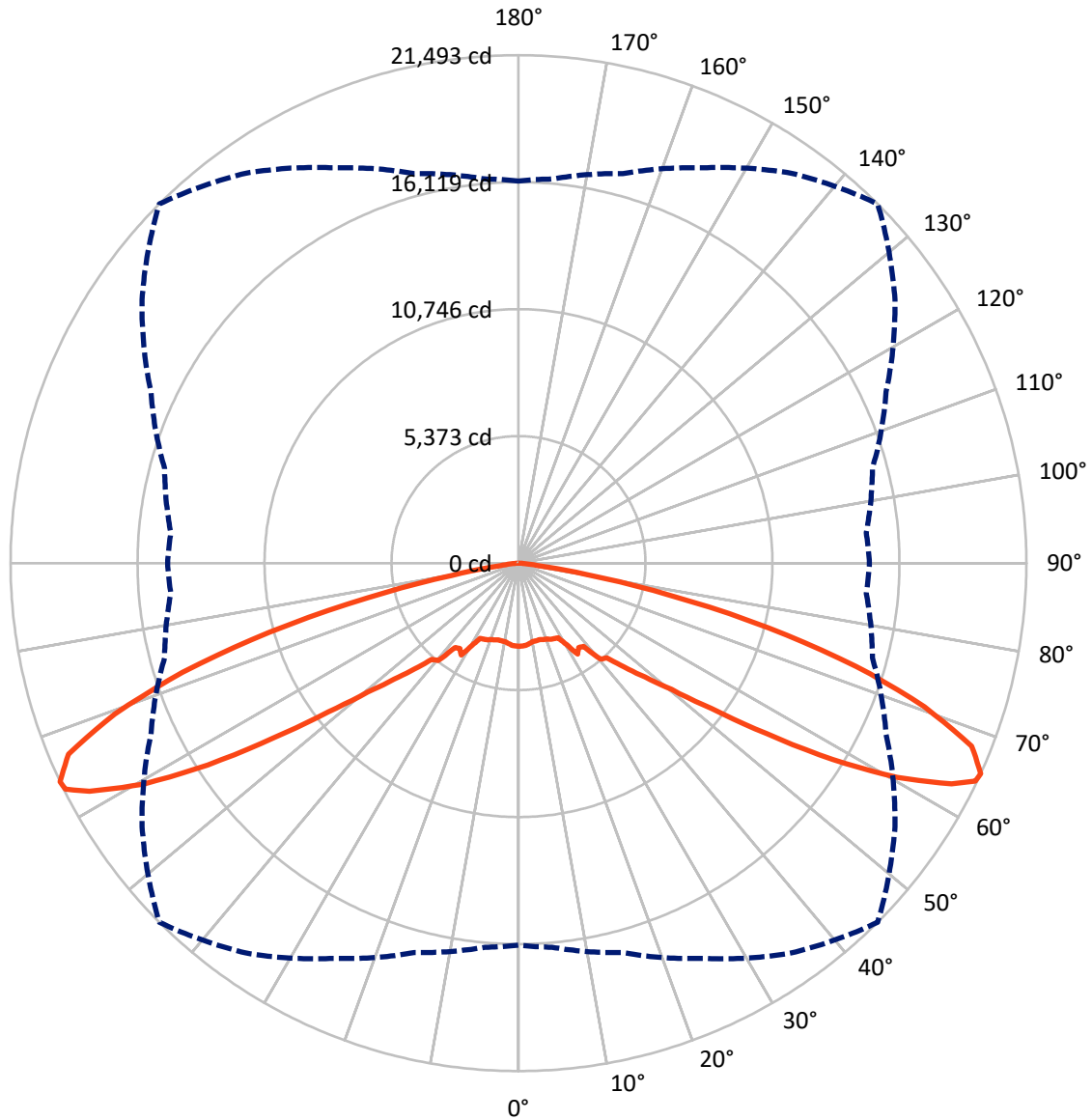
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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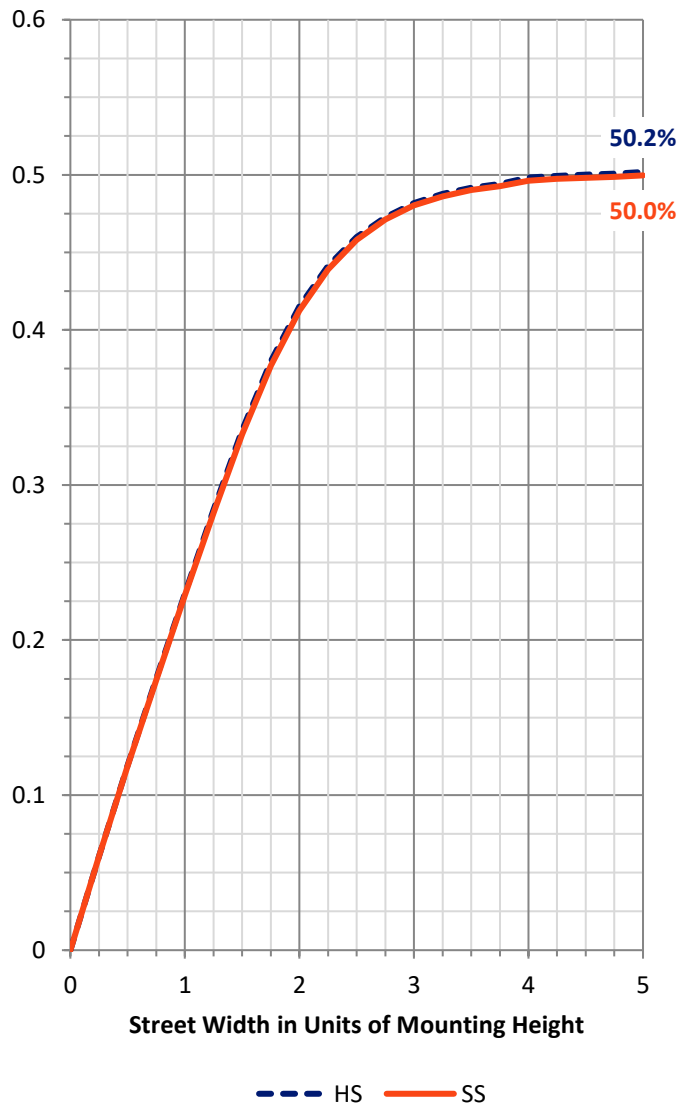
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 23015.6 | 0.0 | 23015.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 23015.6 | 0.0 | 23015.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 46031.1 | 0.0 | 46031.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 330.3 | 0.7 |
| 10°-20° | 970.1 | 2.1 |
| 20°-30° | 1679.3 | 3.6 |
| 30°-40° | 2792.3 | 6.1 |
| 40°-50° | 5037.7 | 10.9 |
| 50°-60° | 11222.3 | 24.4 |
| 60°-70° | 16724.9 | 36.3 |
| 70°-80° | 6931.0 | 15.1 |
| 80°-90° | 343.3 | 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° | 46031.1 | 100.0 |
| 0°-180° | 46031.1 | 100.0 |

Coefficient of Utilization



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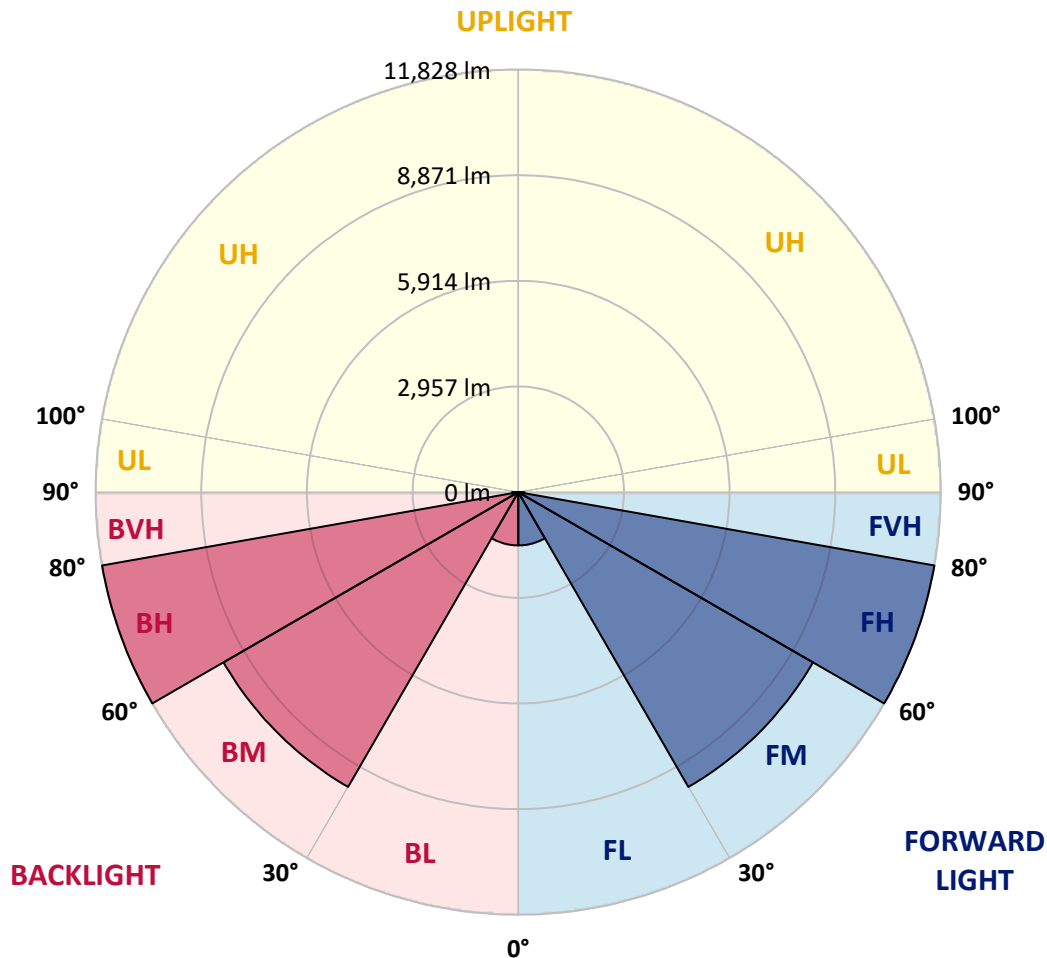
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1489.8 | 3.2 | | | |
| FM (30°-60°) | 9526.2 | 20.7 | | | |
| FH (60°-80°) | 11827.9 | 25.7 | | | G4/12000 |
| FVH (80°-90°) | 171.6 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1489.8 | 3.2 | B3/2500 | | |
| BM (30°-60°) | 9526.2 | 20.7 | B5 | | |
| BH (60°-80°) | 11827.9 | 25.7 | B5 | | G4/12000 |
| BVH (80°-90°) | 171.6 | 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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3519.4 | 3519.4 | 3519.4 | 3519.4 | 3519.4 | 3519.4 | 3519.4 | 3519.4 | 3519.4 | 3519.4 | 3519.4 |
| 2.5° | 3478.7 | 3488.8 | 3483.8 | 3483.8 | 3499.0 | 3509.2 | 3514.3 | 3565.1 | 3544.8 | 3560.0 | 3544.8 |
| 5° | 3488.8 | 3488.8 | 3499.0 | 3488.8 | 3499.0 | 3488.8 | 3499.0 | 3483.8 | 3499.0 | 3509.2 | 3524.4 |
| 7.5° | 3468.5 | 3458.3 | 3443.1 | 3443.1 | 3438.0 | 3427.8 | 3412.6 | 3453.2 | 3432.9 | 3448.2 | 3473.6 |
| 10° | 3473.6 | 3458.3 | 3407.5 | 3417.6 | 3371.9 | 3371.9 | 3382.0 | 3382.0 | 3427.8 | 3478.7 | 3493.9 |
| 12.5° | 3473.6 | 3443.1 | 3427.8 | 3361.7 | 3361.7 | 3366.8 | 3392.2 | 3402.4 | 3432.9 | 3453.2 | 3504.1 |
| 15° | 3473.6 | 3458.3 | 3432.9 | 3346.4 | 3366.8 | 3356.6 | 3382.0 | 3382.0 | 3448.2 | 3483.8 | 3509.2 |
| 17.5° | 3493.9 | 3504.1 | 3458.3 | 3377.0 | 3382.0 | 3402.4 | 3387.1 | 3402.4 | 3483.8 | 3509.2 | 3544.8 |
| 20° | 3499.0 | 3458.3 | 3443.1 | 3392.2 | 3438.0 | 3427.8 | 3422.7 | 3453.2 | 3478.7 | 3524.4 | 3565.1 |
| 22.5° | 3488.8 | 3504.1 | 3443.1 | 3438.0 | 3478.7 | 3499.0 | 3509.2 | 3473.6 | 3504.1 | 3534.6 | 3570.2 |
| 25° | 3575.3 | 3519.4 | 3504.1 | 3493.9 | 3514.3 | 3534.6 | 3524.4 | 3555.0 | 3555.0 | 3590.6 | 3636.3 |
| 27.5° | 3809.3 | 3814.3 | 3783.8 | 3661.8 | 3621.1 | 3575.3 | 3595.6 | 3677.0 | 3773.7 | 3849.9 | 3865.2 |
| 30° | 3916.1 | 3936.4 | 4017.8 | 3997.4 | 3982.2 | 3997.4 | 3992.3 | 4012.7 | 4022.9 | 4027.9 | 4012.7 |
| 32.5° | 4012.7 | 4002.5 | 3966.9 | 4058.5 | 4358.5 | 4587.4 | 4368.7 | 4068.6 | 4002.5 | 3982.2 | 4002.5 |
| 35° | 4363.6 | 4363.6 | 4287.3 | 4170.3 | 4328.0 | 4383.9 | 4282.2 | 4139.8 | 4221.2 | 4389.0 | 4399.2 |
| 37.5° | 4816.2 | 4750.1 | 4780.6 | 4765.4 | 4592.5 | 4470.4 | 4648.4 | 4740.0 | 4755.2 | 4750.1 | 4801.0 |
| 40° | 5085.8 | 5040.0 | 4994.2 | 5075.6 | 5233.3 | 5345.2 | 5187.5 | 4968.8 | 5024.8 | 5136.6 | 5090.9 |
| 42.5° | 5701.2 | 5584.2 | 5594.4 | 5513.0 | 5507.9 | 5472.3 | 5436.7 | 5452.0 | 5533.3 | 5660.5 | 5680.8 |
| 45° | 6331.8 | 6387.7 | 6352.1 | 6199.6 | 6270.8 | 6270.8 | 6169.1 | 6245.3 | 6286.0 | 6433.5 | 6453.9 |
| 47.5° | 7318.4 | 7293.0 | 7308.3 | 7171.0 | 7165.9 | 7201.5 | 7165.9 | 7171.0 | 7298.1 | 7287.9 | 7232.0 |
| 50° | 8472.9 | 8544.1 | 8564.5 | 8498.3 | 8417.0 | 8401.7 | 8345.8 | 8417.0 | 8493.3 | 8498.3 | 8452.6 |
| 52.5° | 10069.9 | 10146.1 | 10146.1 | 10166.5 | 10268.2 | 10217.3 | 10207.2 | 10212.3 | 10064.8 | 9963.1 | 10013.9 |
| 55° | 12083.8 | 12109.3 | 12195.7 | 12373.7 | 12683.9 | 12724.6 | 12531.4 | 12444.9 | 12175.4 | 12012.6 | 12139.8 |
| 57.5° | 14072.4 | 14174.1 | 14413.1 | 14875.9 | 15257.4 | 15674.4 | 15114.9 | 14545.3 | 14016.4 | 13757.0 | 13802.8 |
| 60° | 15725.2 | 15872.7 | 16330.5 | 16976.3 | 18034.2 | 18415.6 | 17469.7 | 16493.2 | 15420.1 | 14626.7 | 14947.1 |
| 62.5° | 16503.4 | 16732.2 | 17118.7 | 18425.8 | 20012.6 | 20561.8 | 19173.4 | 17398.5 | 15771.0 | 15008.1 | 14992.9 |
| 64° | 16508.5 | 16544.1 | 17317.1 | 18725.9 | 20358.4 | 21421.3 | 19585.4 | 17398.5 | 15857.5 | 14916.6 | 15089.5 |
| 65° | 16167.7 | 16315.2 | 17062.8 | 18451.2 | 20139.7 | 21492.5 | 19443.0 | 17159.4 | 15501.5 | 14769.1 | 14850.5 |
| 67.5° | 14621.6 | 14616.5 | 15308.2 | 16686.5 | 19031.0 | 20683.9 | 18232.5 | 15821.9 | 14621.6 | 13828.2 | 13924.9 |
| 70° | 11092.1 | 11270.1 | 11931.2 | 13624.8 | 16467.8 | 18237.6 | 15943.9 | 13446.8 | 11951.6 | 11315.9 | 11280.3 |
| 72.5° | 6636.9 | 6870.9 | 7715.1 | 9780.0 | 12790.7 | 14942.0 | 12653.4 | 9947.8 | 8147.4 | 7140.4 | 7165.9 |
| 75° | 3026.0 | 3199.0 | 3778.7 | 5462.1 | 8523.8 | 10924.3 | 8574.6 | 5752.0 | 4124.6 | 3483.8 | 3392.2 |
| 77.5° | 849.3 | 956.1 | 1276.5 | 2507.3 | 4678.9 | 6550.5 | 4811.2 | 2771.8 | 1800.4 | 1495.2 | 1464.7 |
| 80° | 381.4 | 401.8 | 452.6 | 610.3 | 1485.0 | 2888.7 | 1988.5 | 1017.2 | 676.4 | 559.4 | 534.0 |
| 82.5° | 208.5 | 223.8 | 295.0 | 315.3 | 422.1 | 768.0 | 656.1 | 478.1 | 406.9 | 325.5 | 315.3 |
| 85° | 117.0 | 122.1 | 167.8 | 167.8 | 203.4 | 223.8 | 239.0 | 254.3 | 249.2 | 183.1 | 178.0 |
| 87.5° | 35.6 | 40.7 | 50.9 | 50.9 | 50.9 | 50.9 | 81.4 | 111.9 | 122.1 | 86.5 | 86.5 |
| 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)