

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: McGRAW-EDISON

Report Number: P458166

Luminaire Tested: **GALN-SA9C-750-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-750-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66515 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

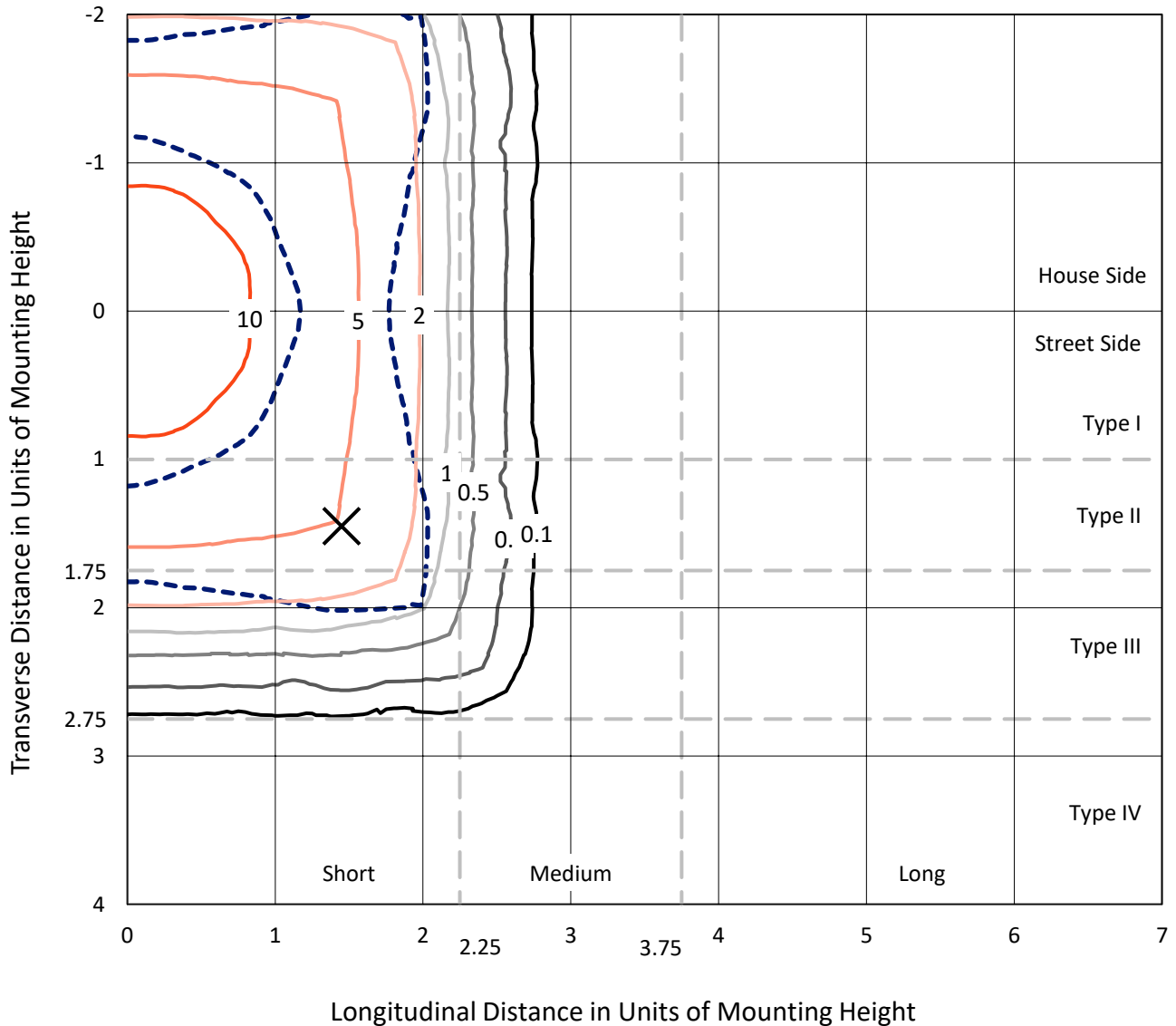
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

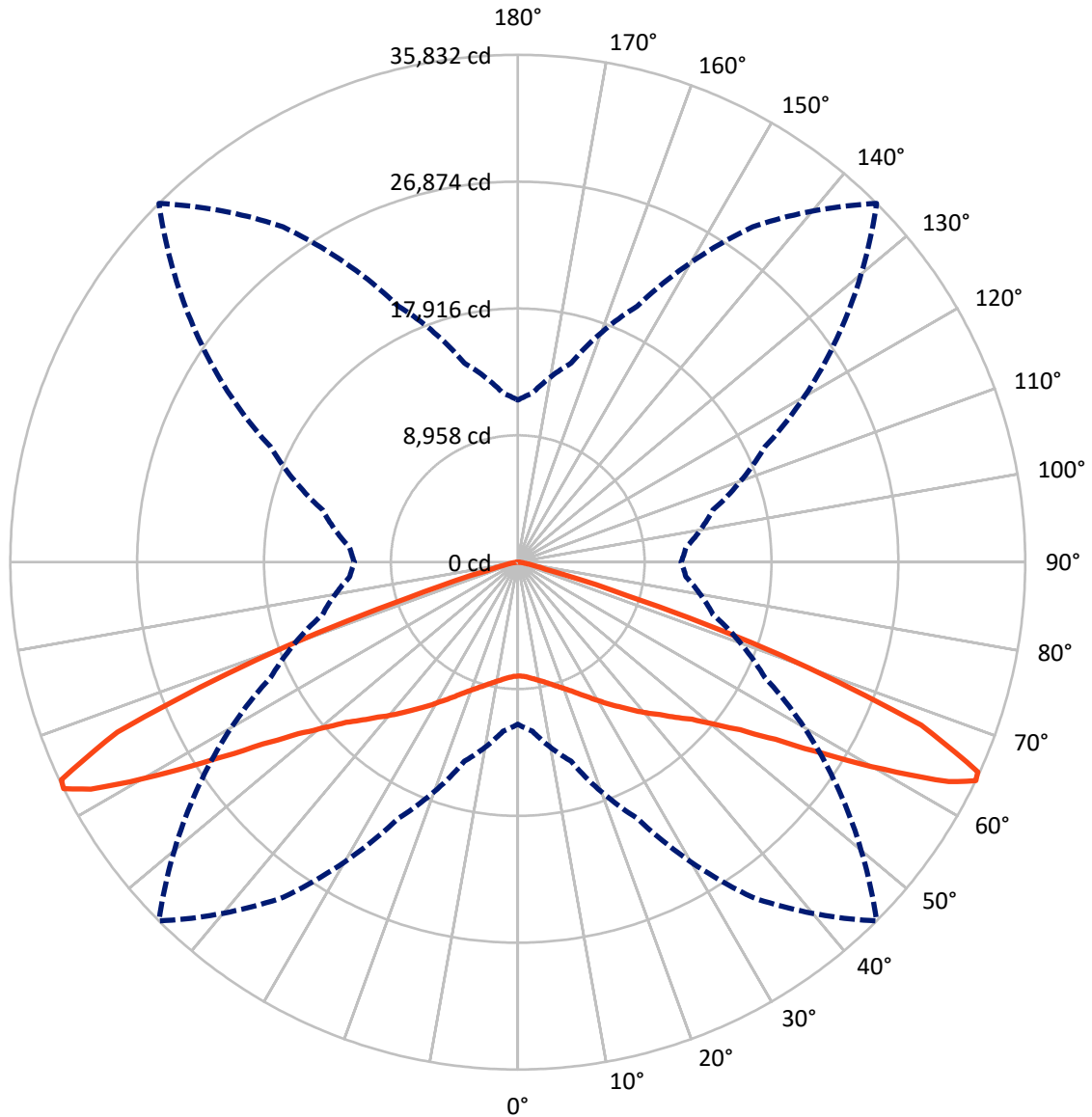
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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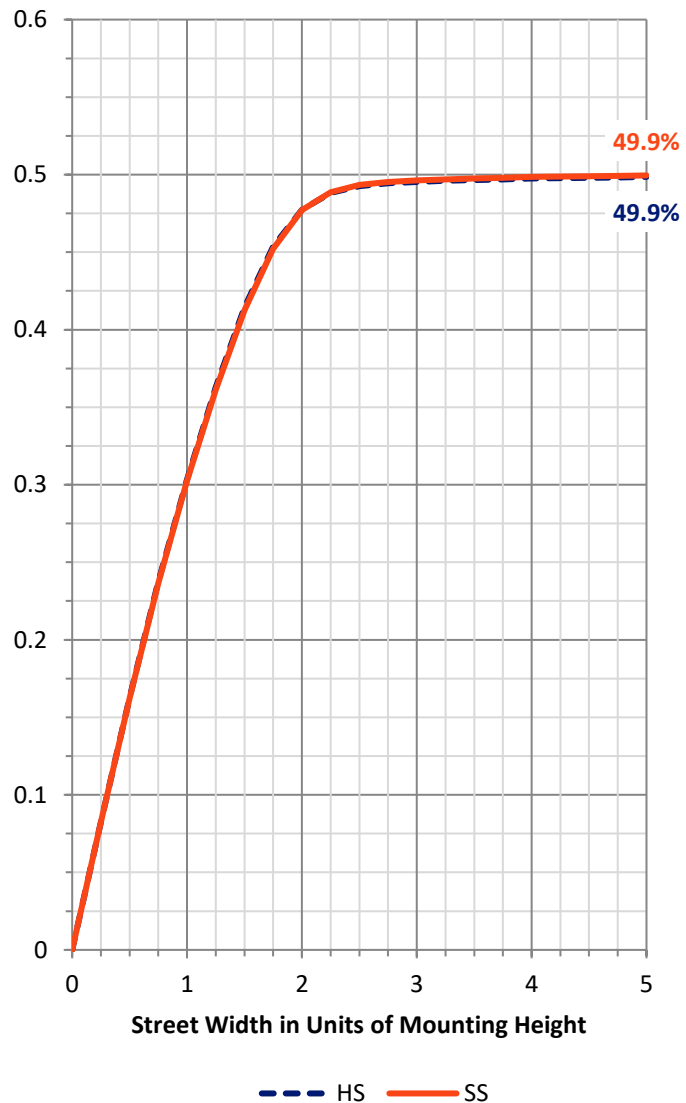
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 33257.5 | 0.0 | 33257.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 33257.5 | 0.0 | 33257.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 66515.0 | 0.0 | 66515.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 789.8 | 1.2 |
| 10°-20° | 2547.7 | 3.8 |
| 20°-30° | 4814.4 | 7.2 |
| 30°-40° | 7973.2 | 12.0 |
| 40°-50° | 12447.4 | 18.7 |
| 50°-60° | 19243.4 | 28.9 |
| 60°-70° | 16593.4 | 24.9 |
| 70°-80° | 1880.5 | 2.8 |
| 80°-90° | 225.3 | 0.3 |
| 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° | 66515.0 | 100.0 |
| 0°-180° | 66515.0 | 100.0 |



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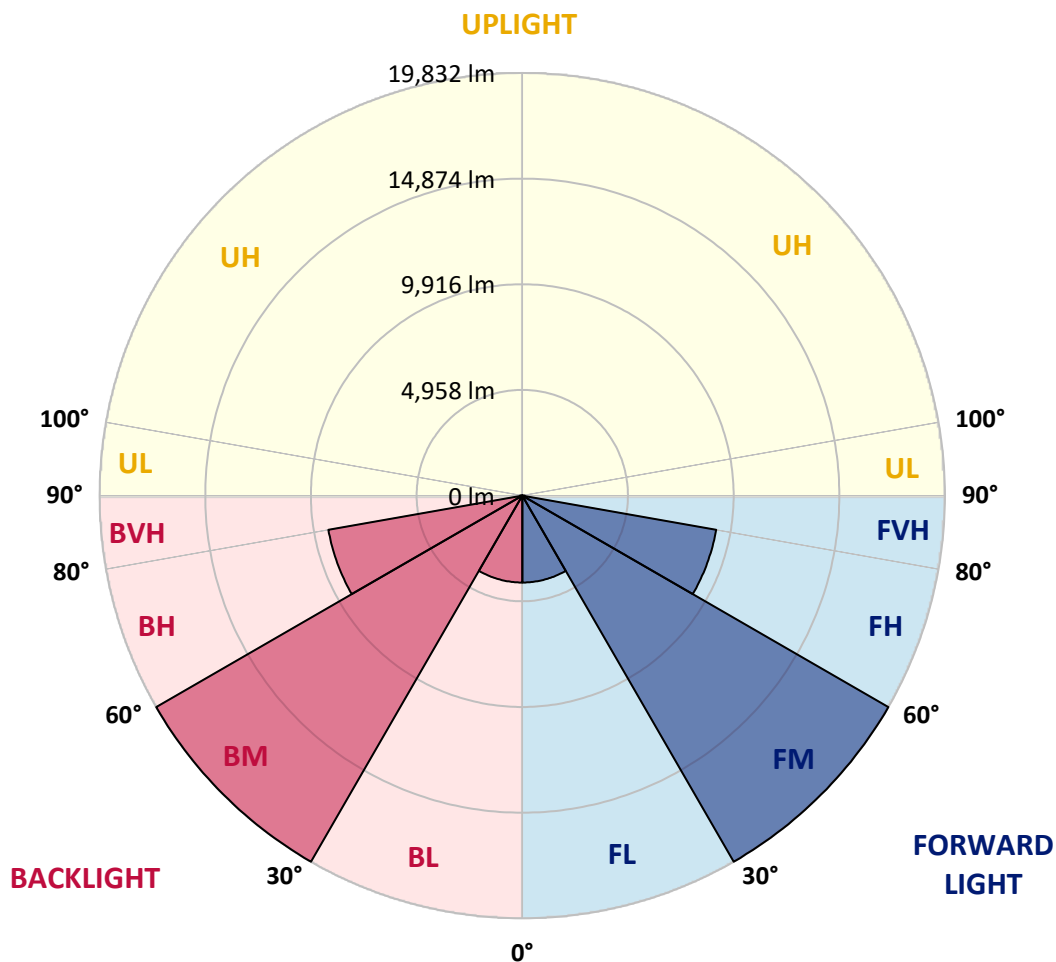
CATALOG NUMBER: GALN-SA9C-750-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 4075.9 | 6.1 | | | |
| FM | (30°-60°) | 19832.0 | 29.8 | | | |
| FH | (60°-80°) | 9236.9 | 13.9 | | | G4/12000 |
| FVH | (80°-90°) | 112.6 | 0.2 | | | G2/225 |
| BL | (0°-30°) | 4075.9 | 6.1 | B4/5000 | | |
| BM | (30°-60°) | 19832.0 | 29.8 | B5 | | |
| BH | (60°-80°) | 9236.9 | 13.9 | B5 | | G4/12000 |
| BVH | (80°-90°) | 112.6 | 0.2 | | | 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° | 8039.5 | 8039.5 | 8039.5 | 8039.5 | 8039.5 | 8039.5 | 8039.5 | 8039.5 | 8039.5 | 8039.5 | 8039.5 |
| 2.5° | 8071.2 | 8088.8 | 8074.7 | 8071.2 | 8067.6 | 8067.6 | 8071.2 | 8085.3 | 8095.8 | 8088.8 | 8088.8 |
| 5° | 8173.3 | 8187.4 | 8180.4 | 8176.9 | 8173.3 | 8176.9 | 8169.8 | 8166.3 | 8176.9 | 8176.9 | 8173.3 |
| 7.5° | 8300.2 | 8317.8 | 8310.7 | 8317.8 | 8321.3 | 8324.8 | 8307.2 | 8293.1 | 8289.6 | 8300.2 | 8293.1 |
| 10° | 8472.8 | 8486.9 | 8490.4 | 8493.9 | 8501.0 | 8497.4 | 8476.3 | 8451.6 | 8448.1 | 8444.6 | 8441.1 |
| 12.5° | 8666.5 | 8677.1 | 8680.6 | 8694.7 | 8705.3 | 8708.8 | 8684.2 | 8663.0 | 8627.8 | 8634.8 | 8620.7 |
| 15° | 8885.0 | 8906.1 | 8902.6 | 8923.7 | 8951.9 | 8959.0 | 8934.3 | 8899.1 | 8867.4 | 8849.7 | 8839.2 |
| 17.5° | 9152.7 | 9166.8 | 9159.8 | 9180.9 | 9216.1 | 9233.7 | 9212.6 | 9166.8 | 9135.1 | 9096.4 | 9075.2 |
| 20° | 9469.8 | 9494.4 | 9501.5 | 9501.5 | 9533.2 | 9550.8 | 9519.1 | 9505.0 | 9455.7 | 9427.5 | 9409.9 |
| 22.5° | 9829.1 | 9839.7 | 9860.8 | 9882.0 | 9913.7 | 9906.6 | 9896.1 | 9874.9 | 9829.1 | 9804.5 | 9776.3 |
| 25° | 10234.3 | 10244.8 | 10297.7 | 10343.5 | 10354.1 | 10347.0 | 10332.9 | 10322.4 | 10280.1 | 10223.7 | 10202.6 |
| 27.5° | 10706.4 | 10727.5 | 10798.0 | 10840.2 | 10840.2 | 10843.8 | 10815.6 | 10850.8 | 10759.2 | 10692.3 | 10685.2 |
| 30° | 11298.2 | 11312.3 | 11372.2 | 11414.5 | 11393.3 | 11375.7 | 11368.7 | 11403.9 | 11305.3 | 11185.5 | 11157.3 |
| 32.5° | 11883.0 | 11932.4 | 11985.2 | 12076.8 | 12002.8 | 11971.1 | 11964.1 | 11988.7 | 11876.0 | 11742.1 | 11703.4 |
| 35° | 12510.1 | 12545.4 | 12644.0 | 12721.5 | 12654.6 | 12580.6 | 12612.3 | 12689.8 | 12555.9 | 12376.3 | 12369.2 |
| 37.5° | 13204.2 | 13235.9 | 13362.7 | 13443.7 | 13394.4 | 13267.6 | 13320.4 | 13412.0 | 13278.1 | 13056.2 | 13010.4 |
| 40° | 13926.4 | 13993.3 | 14151.8 | 14236.4 | 14155.4 | 13986.3 | 14084.9 | 14183.5 | 14063.8 | 13806.6 | 13704.4 |
| 42.5° | 14736.7 | 14842.3 | 15071.3 | 15113.6 | 14958.6 | 14729.6 | 14902.2 | 15060.8 | 14976.2 | 14680.3 | 14641.5 |
| 45° | 15684.3 | 15747.8 | 16029.6 | 16121.2 | 15906.3 | 15620.9 | 15835.8 | 16124.7 | 16061.3 | 15719.6 | 15645.6 |
| 47.5° | 16744.8 | 16804.6 | 17097.1 | 17234.5 | 16963.2 | 16579.2 | 16966.7 | 17343.7 | 17304.9 | 16938.5 | 16903.3 |
| 50° | 17998.9 | 18013.0 | 18418.2 | 18573.2 | 18301.9 | 17970.8 | 18316.0 | 18784.6 | 18629.6 | 18161.0 | 18154.0 |
| 52.5° | 19372.9 | 19390.5 | 19901.4 | 20200.8 | 20049.3 | 19675.9 | 20084.5 | 20369.9 | 19975.3 | 19362.3 | 19316.5 |
| 55° | 20563.7 | 20651.7 | 21349.3 | 22145.5 | 22353.4 | 22082.1 | 22205.4 | 22071.5 | 21099.2 | 20239.6 | 20105.7 |
| 57.5° | 21049.8 | 21222.5 | 22282.9 | 23769.6 | 25122.4 | 25524.0 | 24572.8 | 23297.5 | 21546.6 | 20331.2 | 20200.8 |
| 60° | 19862.6 | 20049.3 | 21694.6 | 24516.5 | 27969.0 | 29712.9 | 27038.9 | 23505.4 | 20528.4 | 18819.8 | 18615.5 |
| 62.5° | 15906.3 | 15959.1 | 18379.4 | 22758.5 | 29628.3 | 34144.8 | 28078.2 | 21733.3 | 17565.6 | 15244.0 | 15162.9 |
| 64° | 11446.2 | 11988.7 | 14553.5 | 19954.2 | 28902.6 | 35832.3 | 27479.3 | 19249.6 | 14268.1 | 11918.3 | 11537.8 |
| 65° | 8560.9 | 8708.8 | 11731.5 | 17040.7 | 27623.7 | 35705.5 | 26316.7 | 16875.1 | 11816.1 | 9121.0 | 8698.3 |
| 67.5° | 3234.1 | 3251.7 | 4329.8 | 8493.9 | 19665.3 | 30720.4 | 20084.5 | 9180.9 | 4978.0 | 3600.5 | 3470.1 |
| 70° | 1342.3 | 1366.9 | 1588.9 | 2857.1 | 8451.6 | 19725.2 | 9684.7 | 3311.6 | 1821.4 | 1476.1 | 1455.0 |
| 72.5° | 982.9 | 997.0 | 1063.9 | 1268.3 | 2600.0 | 8099.3 | 3184.8 | 1405.7 | 1067.5 | 954.7 | 944.2 |
| 75° | 771.5 | 778.6 | 827.9 | 933.6 | 1211.9 | 2244.1 | 1324.6 | 965.3 | 813.8 | 732.8 | 725.7 |
| 77.5° | 588.3 | 606.0 | 641.2 | 711.6 | 813.8 | 1063.9 | 877.2 | 722.2 | 627.1 | 560.2 | 549.6 |
| 80° | 405.1 | 426.3 | 493.2 | 521.4 | 546.1 | 690.5 | 598.9 | 546.1 | 489.7 | 408.7 | 384.0 |
| 82.5° | 250.1 | 264.2 | 331.2 | 355.8 | 345.3 | 387.5 | 384.0 | 391.1 | 348.8 | 253.7 | 236.0 |
| 85° | 130.4 | 137.4 | 179.7 | 186.7 | 172.6 | 158.5 | 197.3 | 229.0 | 214.9 | 144.4 | 140.9 |
| 87.5° | 28.2 | 31.7 | 38.8 | 35.2 | 38.8 | 38.8 | 49.3 | 74.0 | 77.5 | 49.3 | 45.8 |
| 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)