

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: P456223

Luminaire Tested: **GALN-SA7C-727-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456223
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-SA7C-727-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 42739 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

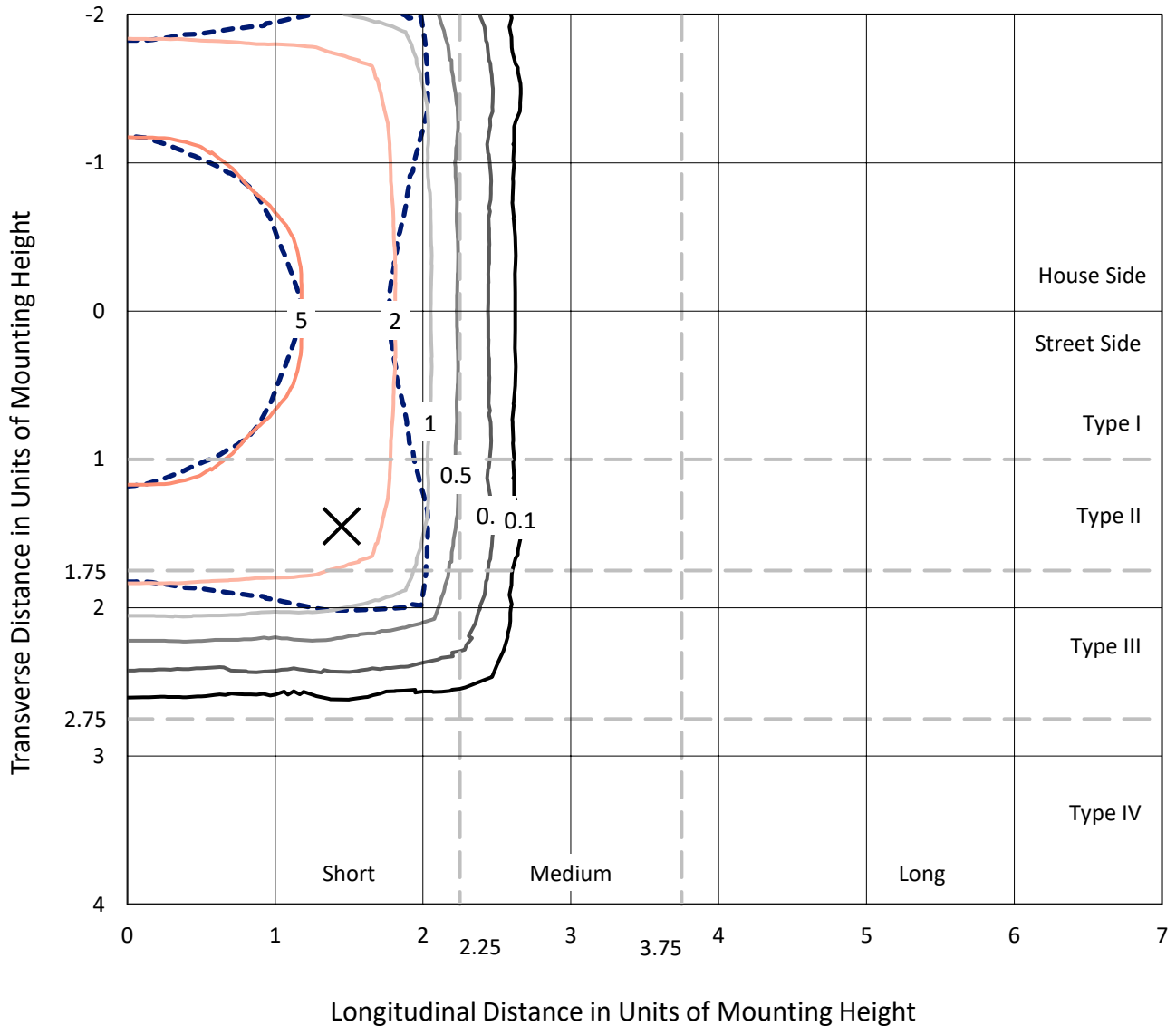
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

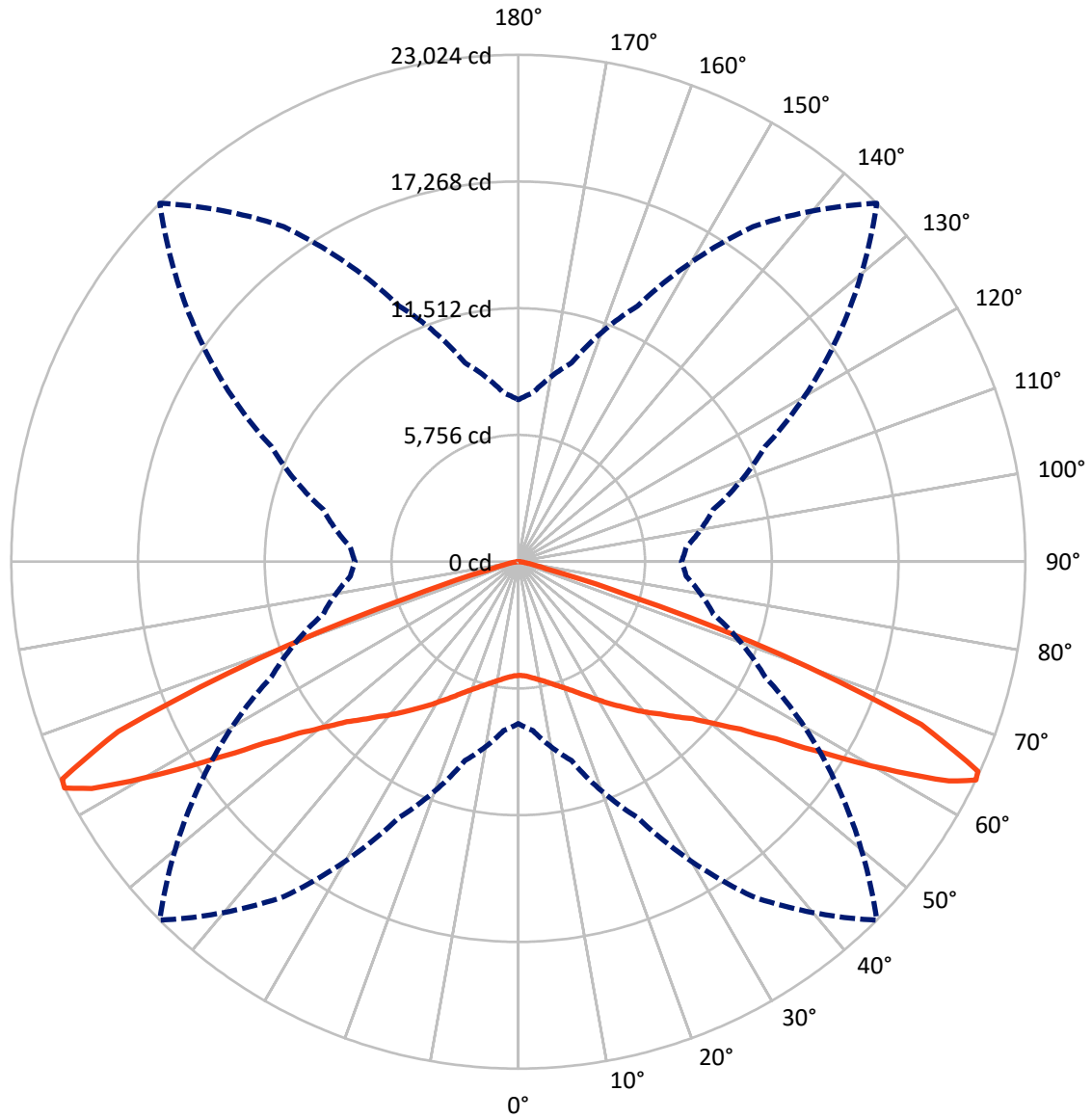
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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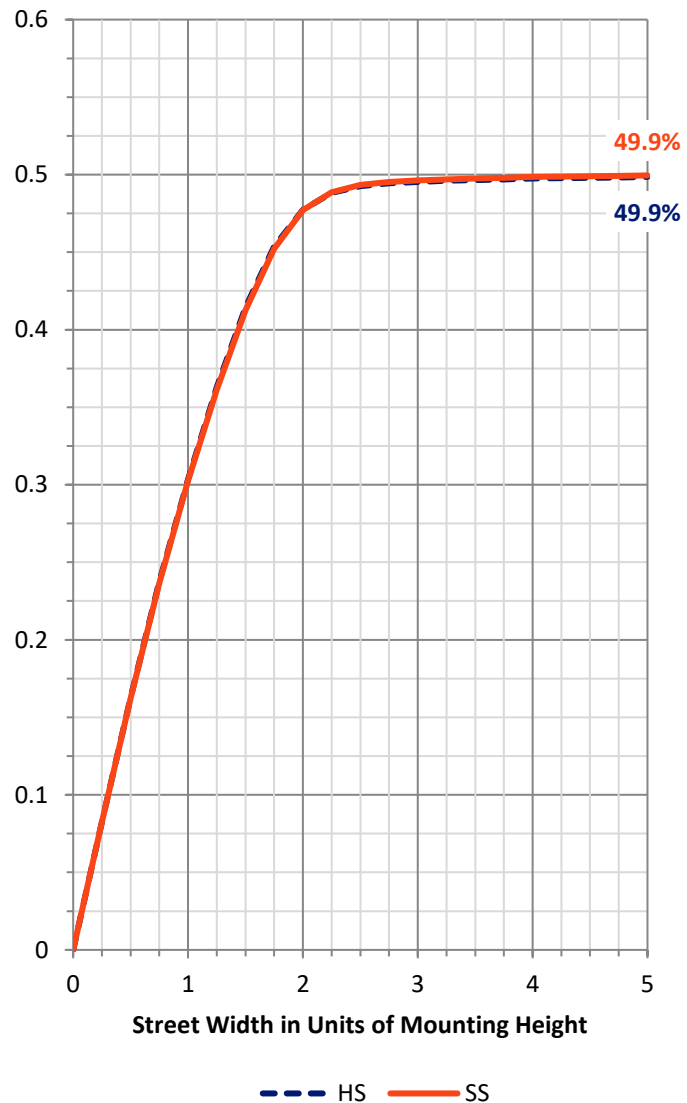
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 21369.5 | 0.0 | 21369.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 21369.5 | 0.0 | 21369.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 42739.0 | 0.0 | 42739.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 507.5 | 1.2 |
| 10°-20° | 1637.0 | 3.8 |
| 20°-30° | 3093.5 | 7.2 |
| 30°-40° | 5123.1 | 12.0 |
| 40°-50° | 7998.0 | 18.7 |
| 50°-60° | 12364.8 | 28.9 |
| 60°-70° | 10662.0 | 24.9 |
| 70°-80° | 1208.3 | 2.8 |
| 80°-90° | 144.8 | 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° | 42739.0 | 100.0 |
| 0°-180° | 42739.0 | 100.0 |



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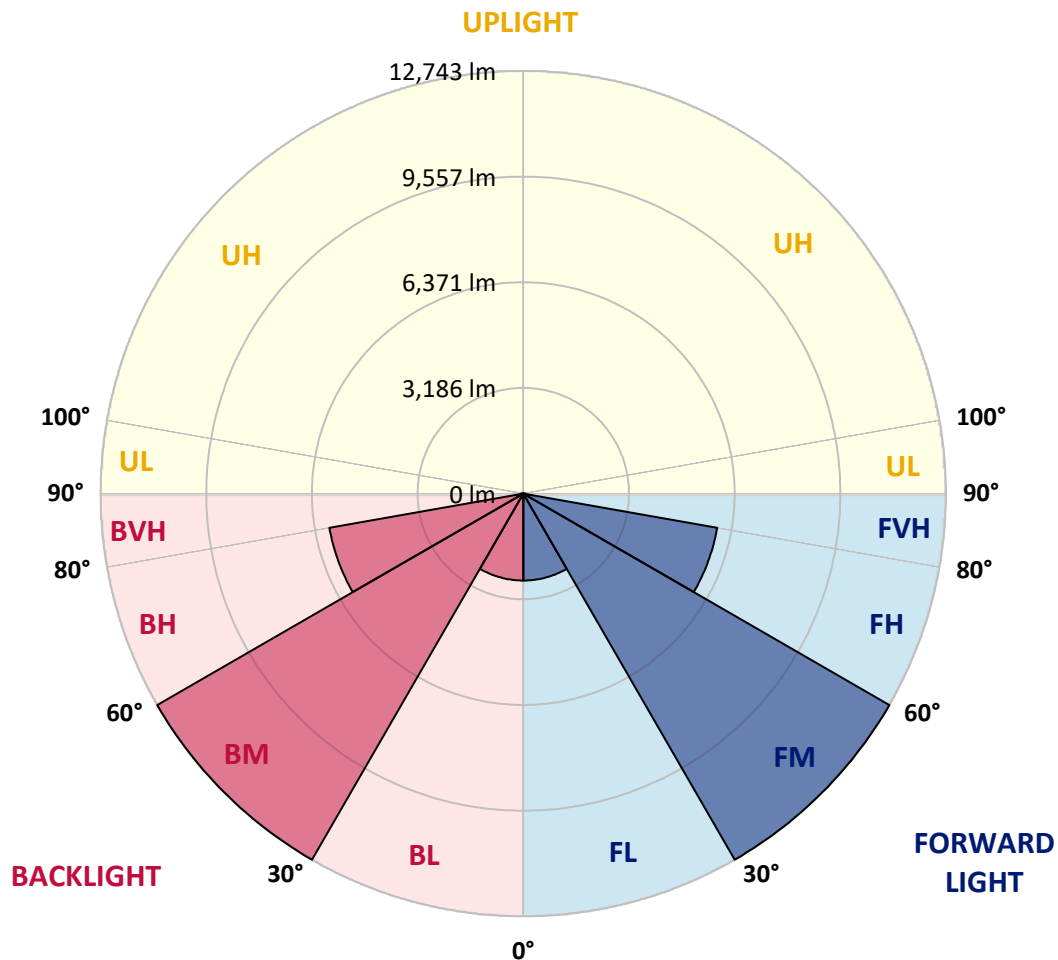
CATALOG NUMBER: GALN-SA7C-727-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2619.0 | 6.1 | | | |
| FM (30°-60°) | 12743.0 | 29.8 | | | |
| FH (60°-80°) | 5935.1 | 13.9 | | | G3/7500 |
| FVH (80°-90°) | 72.4 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2619.0 | 6.1 | B4/5000 | | |
| BM (30°-60°) | 12743.0 | 29.8 | B5 | | |
| BH (60°-80°) | 5935.1 | 13.9 | B5 | | G3/7500 |
| BVH (80°-90°) | 72.4 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5165.7 | 5165.7 | 5165.7 | 5165.7 | 5165.7 | 5165.7 | 5165.7 | 5165.7 | 5165.7 | 5165.7 | 5165.7 |
| 2.5° | 5186.1 | 5197.4 | 5188.4 | 5186.1 | 5183.8 | 5183.8 | 5183.8 | 5186.1 | 5195.2 | 5201.9 | 5197.4 |
| 5° | 5251.7 | 5260.8 | 5256.3 | 5254.0 | 5251.7 | 5251.7 | 5249.5 | 5247.2 | 5254.0 | 5254.0 | 5251.7 |
| 7.5° | 5333.2 | 5344.6 | 5340.0 | 5344.6 | 5346.8 | 5349.1 | 5337.8 | 5328.7 | 5326.4 | 5333.2 | 5328.7 |
| 10° | 5444.2 | 5453.2 | 5455.5 | 5457.7 | 5462.3 | 5460.0 | 5446.4 | 5430.6 | 5428.3 | 5426.1 | 5423.8 |
| 12.5° | 5568.7 | 5575.5 | 5577.7 | 5586.8 | 5593.6 | 5595.8 | 5580.0 | 5566.4 | 5543.8 | 5548.3 | 5539.2 |
| 15° | 5709.0 | 5722.6 | 5720.3 | 5733.9 | 5752.0 | 5756.5 | 5740.7 | 5718.1 | 5697.7 | 5686.4 | 5679.6 |
| 17.5° | 5881.1 | 5890.1 | 5885.6 | 5899.2 | 5921.8 | 5933.1 | 5919.5 | 5890.1 | 5869.7 | 5844.8 | 5831.2 |
| 20° | 6084.8 | 6100.6 | 6105.2 | 6105.2 | 6125.5 | 6136.8 | 6116.5 | 6107.4 | 6075.7 | 6057.6 | 6046.3 |
| 22.5° | 6315.7 | 6322.5 | 6336.1 | 6349.6 | 6370.0 | 6365.5 | 6358.7 | 6345.1 | 6315.7 | 6299.8 | 6281.7 |
| 25° | 6576.0 | 6582.8 | 6616.7 | 6646.2 | 6653.0 | 6648.4 | 6639.4 | 6632.6 | 6605.4 | 6569.2 | 6555.6 |
| 27.5° | 6879.3 | 6892.9 | 6938.2 | 6965.4 | 6965.4 | 6967.6 | 6949.5 | 6972.1 | 6913.3 | 6870.3 | 6865.8 |
| 30° | 7259.6 | 7268.7 | 7307.2 | 7334.3 | 7320.8 | 7309.4 | 7304.9 | 7327.5 | 7264.2 | 7187.2 | 7169.1 |
| 32.5° | 7635.4 | 7667.1 | 7701.1 | 7759.9 | 7712.4 | 7692.0 | 7687.5 | 7703.3 | 7630.9 | 7544.9 | 7520.0 |
| 35° | 8038.3 | 8061.0 | 8124.4 | 8174.2 | 8131.2 | 8083.6 | 8104.0 | 8153.8 | 8067.8 | 7952.3 | 7947.8 |
| 37.5° | 8484.3 | 8504.7 | 8586.2 | 8638.2 | 8606.5 | 8525.0 | 8559.0 | 8617.8 | 8531.8 | 8389.2 | 8359.8 |
| 40° | 8948.3 | 8991.4 | 9093.2 | 9147.5 | 9095.5 | 8986.8 | 9050.2 | 9113.6 | 9036.6 | 8871.4 | 8805.7 |
| 42.5° | 9469.0 | 9536.9 | 9684.0 | 9711.2 | 9611.6 | 9464.5 | 9575.4 | 9677.2 | 9622.9 | 9432.8 | 9407.9 |
| 45° | 10077.9 | 10118.7 | 10299.8 | 10358.6 | 10220.5 | 10037.2 | 10175.3 | 10360.9 | 10320.1 | 10100.6 | 10053.0 |
| 47.5° | 10759.3 | 10797.8 | 10985.7 | 11073.9 | 10899.6 | 10652.9 | 10901.9 | 11144.1 | 11119.2 | 10883.8 | 10861.2 |
| 50° | 11565.2 | 11574.2 | 11834.5 | 11934.1 | 11759.8 | 11547.1 | 11768.9 | 12070.0 | 11970.4 | 11669.3 | 11664.8 |
| 52.5° | 12448.0 | 12459.3 | 12787.6 | 12980.0 | 12882.6 | 12642.7 | 12905.3 | 13088.6 | 12835.1 | 12441.2 | 12411.8 |
| 55° | 13213.1 | 13269.7 | 13717.9 | 14229.5 | 14363.1 | 14188.8 | 14268.0 | 14182.0 | 13557.2 | 13004.9 | 12918.8 |
| 57.5° | 13525.5 | 13636.4 | 14317.8 | 15273.1 | 16142.3 | 16400.4 | 15789.2 | 14969.7 | 13844.7 | 13063.7 | 12980.0 |
| 60° | 12762.7 | 12882.6 | 13939.8 | 15753.0 | 17971.4 | 19091.9 | 17373.8 | 15103.3 | 13190.5 | 12092.6 | 11961.3 |
| 62.5° | 10220.5 | 10254.5 | 11809.6 | 14623.4 | 19037.6 | 21939.6 | 18041.6 | 13964.7 | 11286.7 | 9795.0 | 9742.9 |
| 64° | 7354.7 | 7703.3 | 9351.3 | 12821.5 | 18571.3 | 23023.9 | 17656.7 | 12368.8 | 9167.9 | 7658.0 | 7413.6 |
| 65° | 5500.8 | 5595.8 | 7538.1 | 10949.4 | 17749.5 | 22942.4 | 16909.7 | 10843.0 | 7592.4 | 5860.7 | 5589.0 |
| 67.5° | 2078.1 | 2089.4 | 2782.1 | 5457.7 | 12635.9 | 19739.3 | 12905.3 | 5899.2 | 3198.6 | 2313.5 | 2229.7 |
| 70° | 862.5 | 878.3 | 1020.9 | 1835.8 | 5430.6 | 12674.4 | 6222.9 | 2127.9 | 1170.3 | 948.5 | 934.9 |
| 72.5° | 631.6 | 640.6 | 683.6 | 814.9 | 1670.6 | 5204.2 | 2046.4 | 903.2 | 685.9 | 613.5 | 606.7 |
| 75° | 495.7 | 500.3 | 532.0 | 599.9 | 778.7 | 1442.0 | 851.1 | 620.2 | 522.9 | 470.8 | 466.3 |
| 77.5° | 378.0 | 389.4 | 412.0 | 457.3 | 522.9 | 683.6 | 563.7 | 464.1 | 402.9 | 359.9 | 353.1 |
| 80° | 260.3 | 273.9 | 316.9 | 335.0 | 350.9 | 443.7 | 384.8 | 350.9 | 314.7 | 262.6 | 246.7 |
| 82.5° | 160.7 | 169.8 | 212.8 | 228.6 | 221.8 | 249.0 | 246.7 | 251.3 | 224.1 | 163.0 | 151.7 |
| 85° | 83.8 | 88.3 | 115.4 | 120.0 | 110.9 | 101.9 | 126.8 | 147.1 | 138.1 | 92.8 | 90.5 |
| 87.5° | 18.1 | 20.4 | 24.9 | 22.6 | 24.9 | 24.9 | 31.7 | 47.5 | 49.8 | 31.7 | 29.4 |
| 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)