

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: P455324

Luminaire Tested: **GALN-SA6C-730-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455324
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-SA6C-730-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 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: 39624 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

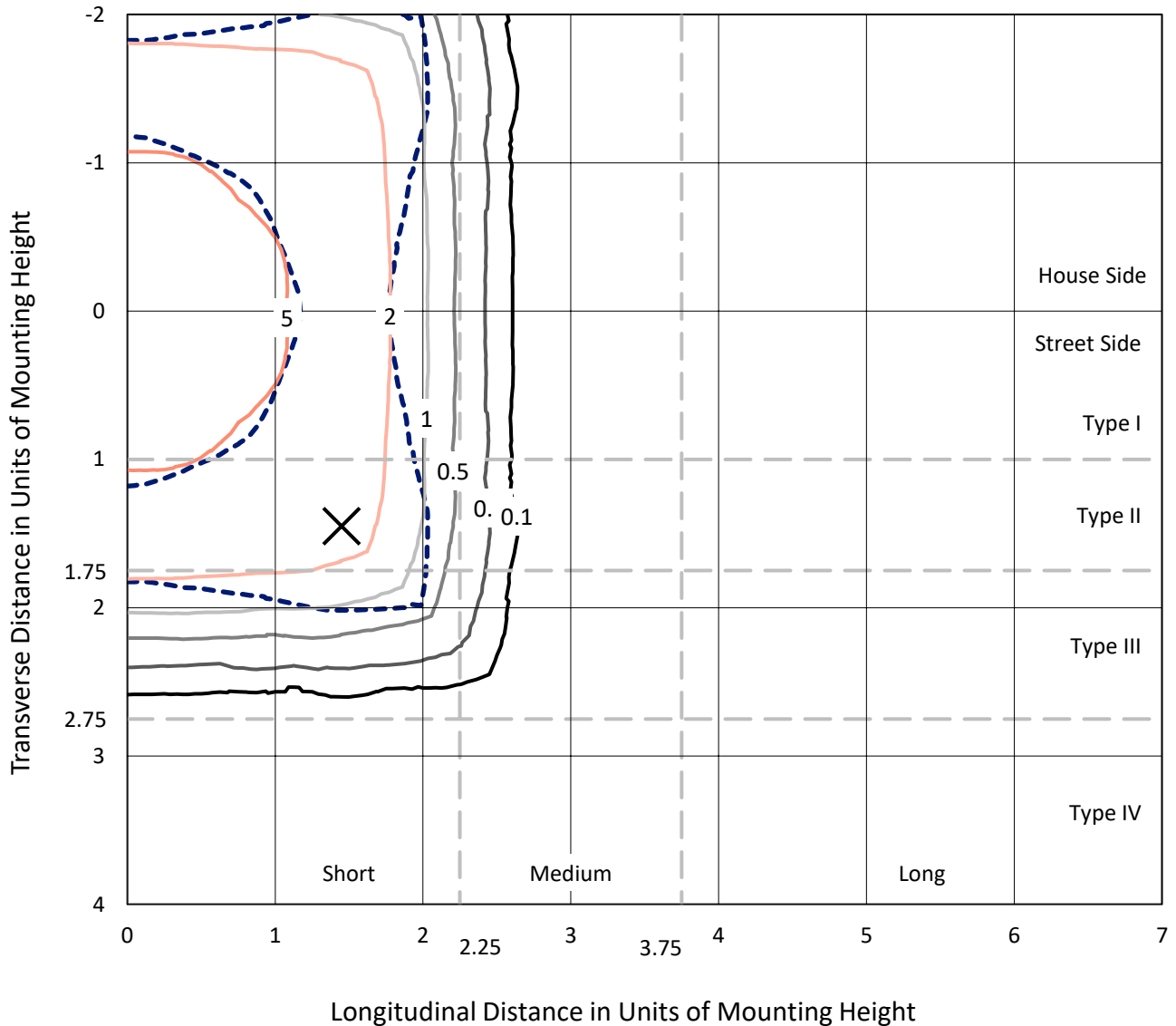
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

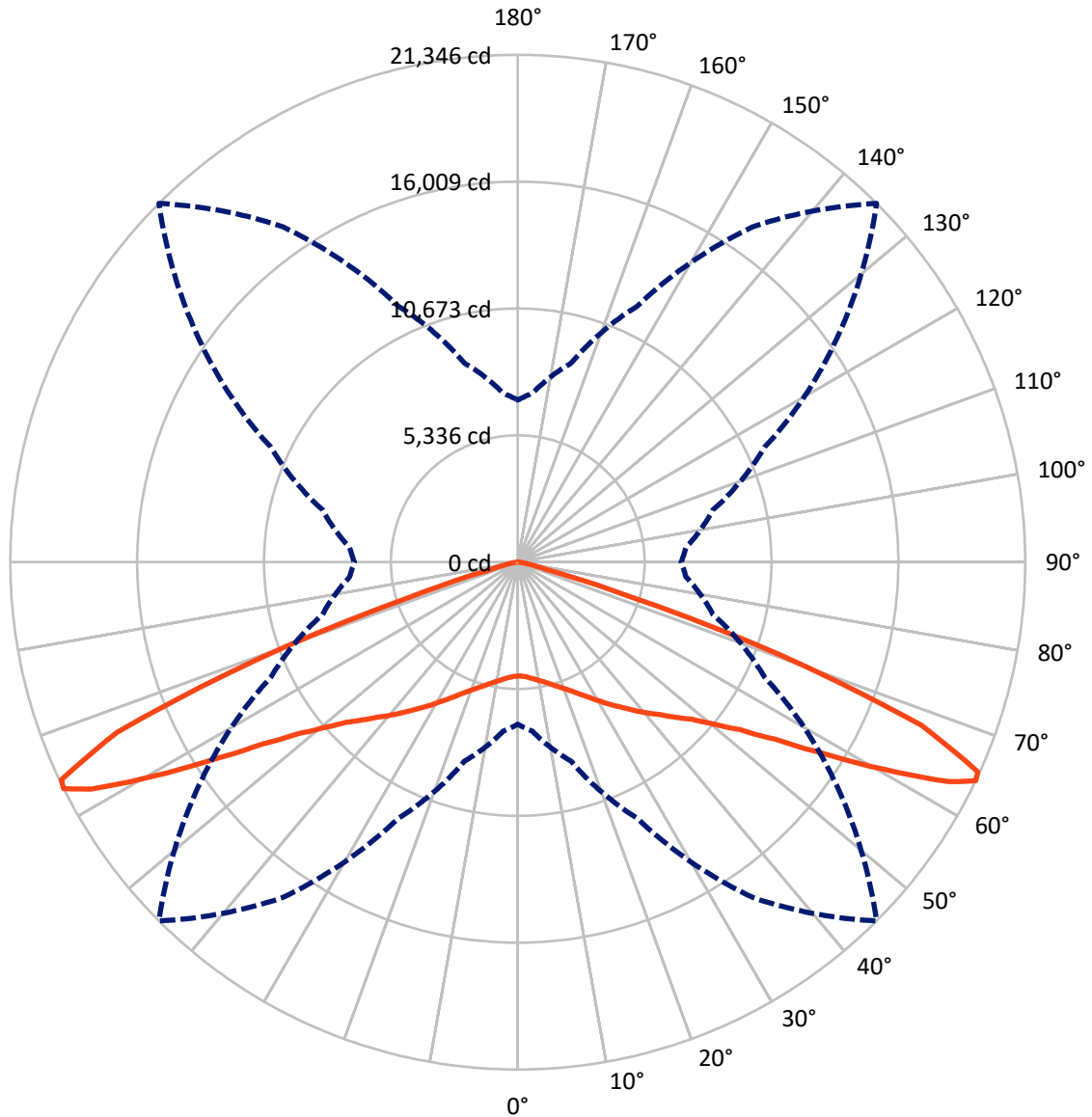
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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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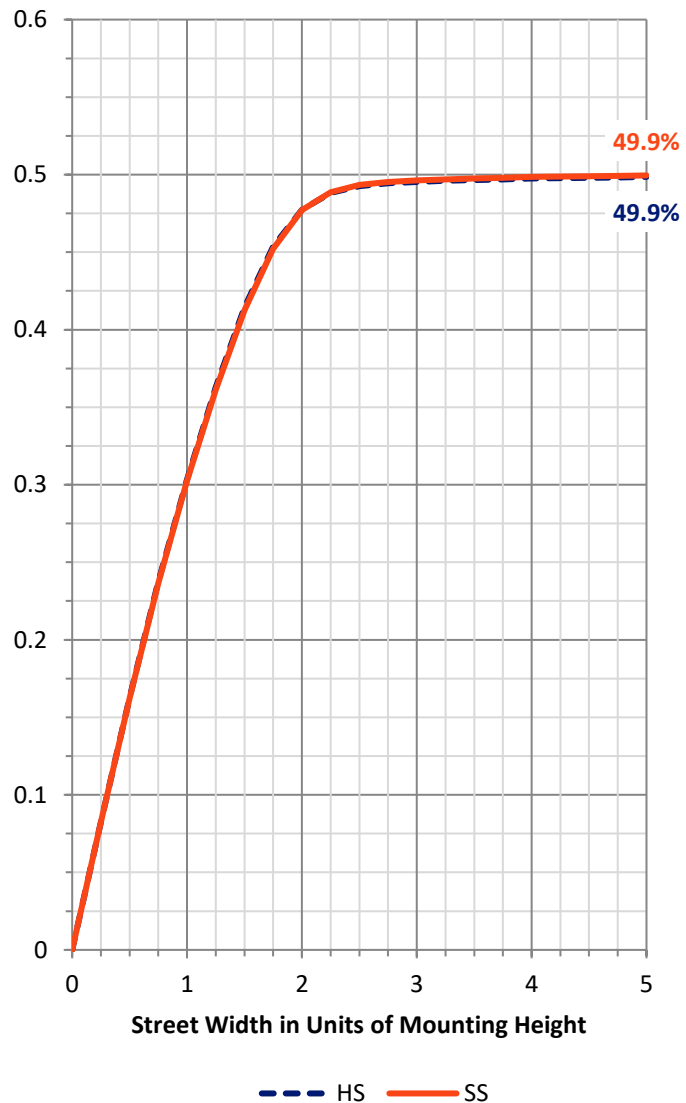
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 19812.0 | 0.0 | 19812.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 19812.0 | 0.0 | 19812.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 39624.0 | 0.0 | 39624.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 470.5 | 1.2 |
| 10°-20° | 1517.7 | 3.8 |
| 20°-30° | 2868.0 | 7.2 |
| 30°-40° | 4749.7 | 12.0 |
| 40°-50° | 7415.1 | 18.7 |
| 50°-60° | 11463.6 | 28.9 |
| 60°-70° | 9884.9 | 24.9 |
| 70°-80° | 1120.2 | 2.8 |
| 80°-90° | 134.2 | 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° | 39624.0 | 100.0 |
| 0°-180° | 39624.0 | 100.0 |



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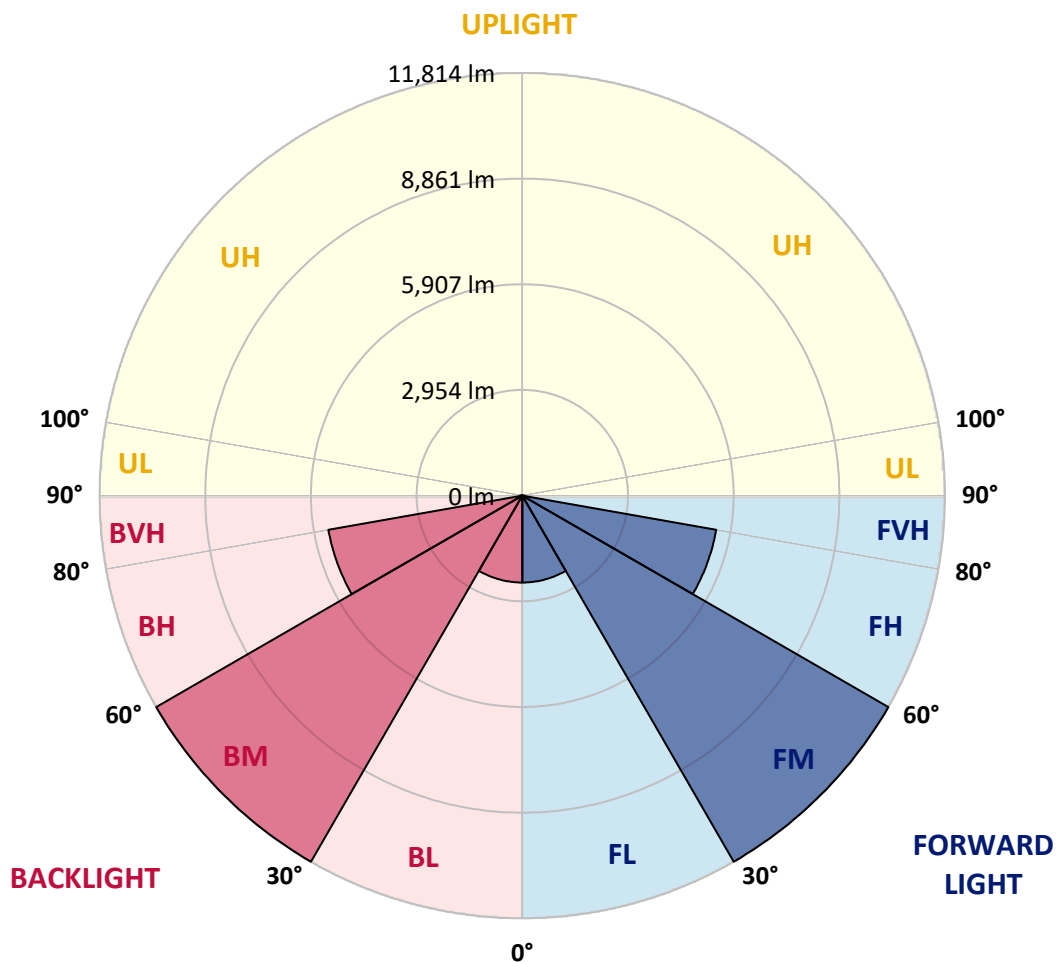
CATALOG NUMBER: GALN-SA6C-730-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2428.1 | 6.1 | | | |
| FM | (30°-60°) | 11814.2 | 29.8 | | | |
| FH | (60°-80°) | 5502.6 | 13.9 | | | G3/7500 |
| FVH | (80°-90°) | 67.1 | 0.2 | | | G1/100 |
| BL | (0°-30°) | 2428.1 | 6.1 | B3/2500 | | |
| BM | (30°-60°) | 11814.2 | 29.8 | B5 | | |
| BH | (60°-80°) | 5502.6 | 13.9 | B5 | | G3/7500 |
| BVH | (80°-90°) | 67.1 | 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° | 4789.2 | 4789.2 | 4789.2 | 4789.2 | 4789.2 | 4789.2 | 4789.2 | 4789.2 | 4789.2 | 4789.2 | 4789.2 |
| 2.5° | 4808.1 | 4818.6 | 4810.2 | 4808.1 | 4806.0 | 4806.0 | 4806.0 | 4808.1 | 4816.5 | 4822.8 | 4818.6 |
| 5° | 4869.0 | 4877.4 | 4873.2 | 4871.1 | 4869.0 | 4871.1 | 4866.9 | 4864.8 | 4871.1 | 4871.1 | 4869.0 |
| 7.5° | 4944.5 | 4955.0 | 4950.8 | 4955.0 | 4957.1 | 4959.2 | 4948.7 | 4940.3 | 4938.2 | 4944.5 | 4940.3 |
| 10° | 5047.4 | 5055.8 | 5057.9 | 5060.0 | 5064.2 | 5062.1 | 5049.5 | 5034.8 | 5032.7 | 5030.6 | 5028.5 |
| 12.5° | 5162.8 | 5169.1 | 5171.2 | 5179.6 | 5185.9 | 5188.0 | 5173.3 | 5160.7 | 5139.7 | 5143.9 | 5135.5 |
| 15° | 5292.9 | 5305.5 | 5303.4 | 5316.0 | 5332.8 | 5337.0 | 5322.3 | 5301.3 | 5282.4 | 5271.9 | 5265.6 |
| 17.5° | 5452.4 | 5460.8 | 5456.6 | 5469.2 | 5490.2 | 5500.7 | 5488.1 | 5460.8 | 5441.9 | 5418.8 | 5406.2 |
| 20° | 5641.3 | 5656.0 | 5660.2 | 5660.2 | 5679.1 | 5689.6 | 5670.7 | 5662.3 | 5632.9 | 5616.1 | 5605.6 |
| 22.5° | 5855.4 | 5861.7 | 5874.3 | 5886.8 | 5905.7 | 5901.5 | 5895.2 | 5882.6 | 5855.4 | 5840.7 | 5823.9 |
| 25° | 6096.7 | 6103.0 | 6134.5 | 6161.8 | 6168.1 | 6163.9 | 6155.5 | 6149.2 | 6124.0 | 6090.4 | 6077.8 |
| 27.5° | 6377.9 | 6390.5 | 6432.5 | 6457.7 | 6457.7 | 6459.8 | 6443.0 | 6464.0 | 6409.4 | 6369.5 | 6365.3 |
| 30° | 6730.5 | 6738.9 | 6774.6 | 6799.8 | 6787.2 | 6776.7 | 6772.5 | 6793.5 | 6734.7 | 6663.4 | 6646.6 |
| 32.5° | 7078.9 | 7108.3 | 7139.8 | 7194.3 | 7150.3 | 7131.4 | 7127.2 | 7141.9 | 7074.7 | 6995.0 | 6971.9 |
| 35° | 7452.5 | 7473.5 | 7532.2 | 7578.4 | 7538.5 | 7494.4 | 7513.3 | 7559.5 | 7479.8 | 7372.7 | 7368.5 |
| 37.5° | 7865.9 | 7884.8 | 7960.4 | 8008.6 | 7979.2 | 7903.7 | 7935.2 | 7989.7 | 7910.0 | 7777.8 | 7750.5 |
| 40° | 8296.1 | 8336.0 | 8430.5 | 8480.8 | 8432.6 | 8331.8 | 8390.6 | 8449.4 | 8378.0 | 8224.8 | 8163.9 |
| 42.5° | 8778.8 | 8841.8 | 8978.2 | 9003.4 | 8911.1 | 8774.7 | 8877.5 | 8971.9 | 8921.6 | 8745.3 | 8722.2 |
| 45° | 9343.4 | 9381.2 | 9549.1 | 9603.6 | 9475.6 | 9305.6 | 9433.6 | 9605.7 | 9568.0 | 9364.4 | 9320.3 |
| 47.5° | 9975.1 | 10010.8 | 10185.0 | 10266.8 | 10105.2 | 9876.5 | 10107.3 | 10331.9 | 10308.8 | 10090.5 | 10069.5 |
| 50° | 10722.2 | 10730.6 | 10972.0 | 11064.3 | 10902.7 | 10705.5 | 10911.1 | 11190.3 | 11097.9 | 10818.8 | 10814.6 |
| 52.5° | 11540.7 | 11551.2 | 11855.5 | 12033.9 | 11943.7 | 11721.2 | 11964.7 | 12134.7 | 11899.6 | 11534.4 | 11507.2 |
| 55° | 12250.1 | 12302.6 | 12718.1 | 13192.4 | 13316.2 | 13154.6 | 13228.1 | 13148.3 | 12569.1 | 12057.0 | 11977.3 |
| 57.5° | 12539.7 | 12642.6 | 13274.3 | 14159.9 | 14965.8 | 15205.1 | 14638.4 | 13878.7 | 12835.6 | 12111.6 | 12033.9 |
| 60° | 11832.5 | 11943.7 | 12923.8 | 14604.8 | 16661.6 | 17700.4 | 16107.5 | 14002.5 | 12229.1 | 11211.2 | 11089.5 |
| 62.5° | 9475.6 | 9507.1 | 10948.9 | 13557.6 | 17650.0 | 20340.6 | 16726.6 | 12946.9 | 10464.1 | 9081.1 | 9032.8 |
| 64° | 6818.7 | 7141.9 | 8669.7 | 11887.0 | 17217.7 | 21345.8 | 16369.8 | 11467.3 | 8499.7 | 7099.9 | 6873.2 |
| 65° | 5099.8 | 5188.0 | 6988.7 | 10151.4 | 16455.9 | 21270.3 | 15677.3 | 10052.8 | 7039.0 | 5433.5 | 5181.7 |
| 67.5° | 1926.6 | 1937.1 | 2579.3 | 5060.0 | 11714.9 | 18300.6 | 11964.7 | 5469.2 | 2965.5 | 2144.9 | 2067.2 |
| 70° | 799.6 | 814.3 | 946.5 | 1702.0 | 5034.8 | 11750.6 | 5769.3 | 1972.8 | 1085.0 | 879.4 | 866.8 |
| 72.5° | 585.5 | 593.9 | 633.8 | 755.5 | 1548.8 | 4824.9 | 1897.2 | 837.4 | 635.9 | 568.7 | 562.5 |
| 75° | 459.6 | 463.8 | 493.2 | 556.2 | 722.0 | 1336.9 | 789.1 | 575.0 | 484.8 | 436.5 | 432.3 |
| 77.5° | 350.5 | 361.0 | 382.0 | 423.9 | 484.8 | 633.8 | 522.6 | 430.2 | 373.6 | 333.7 | 327.4 |
| 80° | 241.4 | 253.9 | 293.8 | 310.6 | 325.3 | 411.3 | 356.8 | 325.3 | 291.7 | 243.4 | 228.8 |
| 82.5° | 149.0 | 157.4 | 197.3 | 212.0 | 205.7 | 230.9 | 228.8 | 233.0 | 207.8 | 151.1 | 140.6 |
| 85° | 77.7 | 81.8 | 107.0 | 111.2 | 102.8 | 94.4 | 117.5 | 136.4 | 128.0 | 86.0 | 83.9 |
| 87.5° | 16.8 | 18.9 | 23.1 | 21.0 | 23.1 | 23.1 | 29.4 | 44.1 | 46.2 | 29.4 | 27.3 |
| 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)