

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: P458399

Luminaire Tested: **GALN-SA9D-750-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458399
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-750-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 73399 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

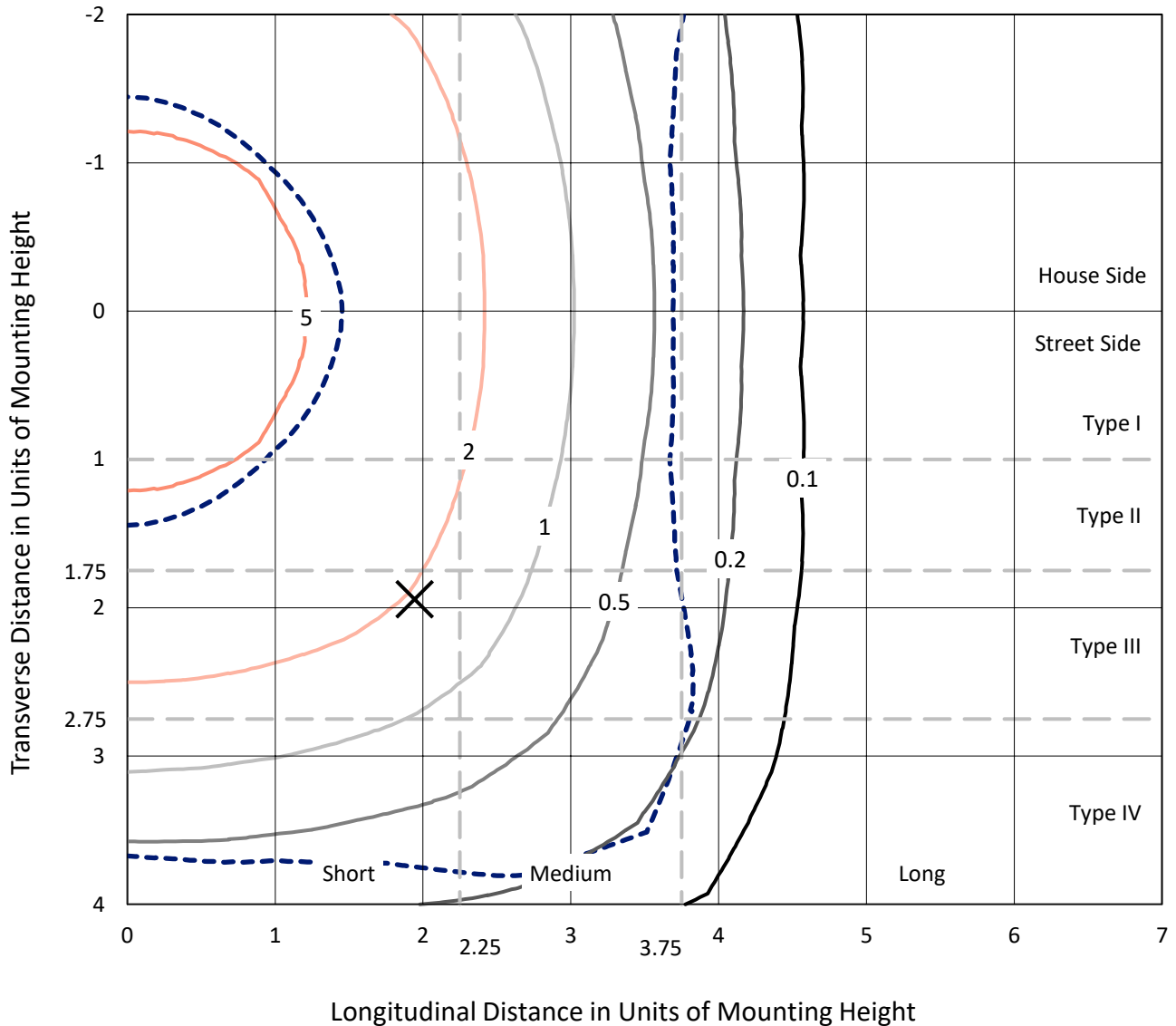
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

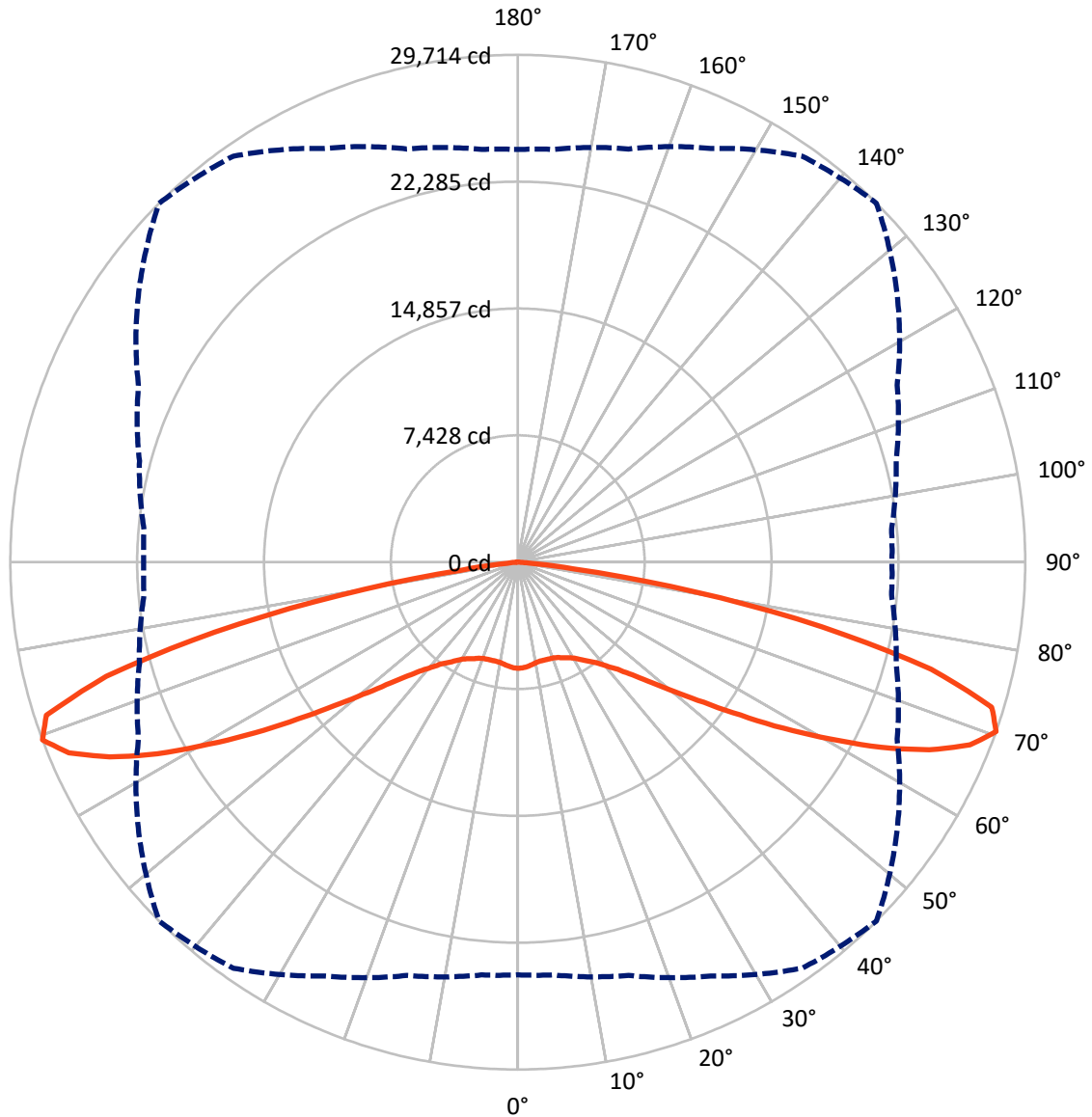
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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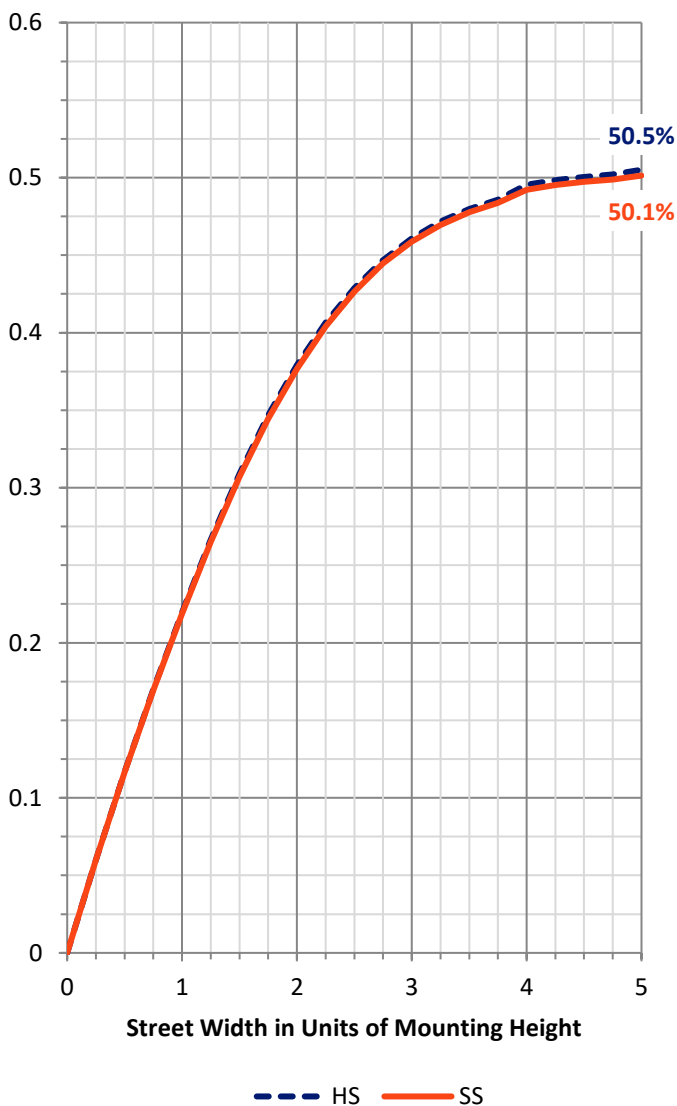
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 36699.5 | 0.0 | 36699.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 36699.5 | 0.0 | 36699.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 73399.0 | 0.0 | 73399.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 581.1 | 0.8 |
| 10°-20° | 1701.3 | 2.3 |
| 20°-30° | 2898.6 | 3.9 |
| 30°-40° | 4492.9 | 6.1 |
| 40°-50° | 7562.1 | 10.3 |
| 50°-60° | 13758.9 | 18.7 |
| 60°-70° | 23293.5 | 31.7 |
| 70°-80° | 18030.1 | 24.6 |
| 80°-90° | 1080.4 | 1.5 |
| 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° | 73399.0 | 100.0 |
| 0°-180° | 73399.0 | 100.0 |

Coefficient of Utilization



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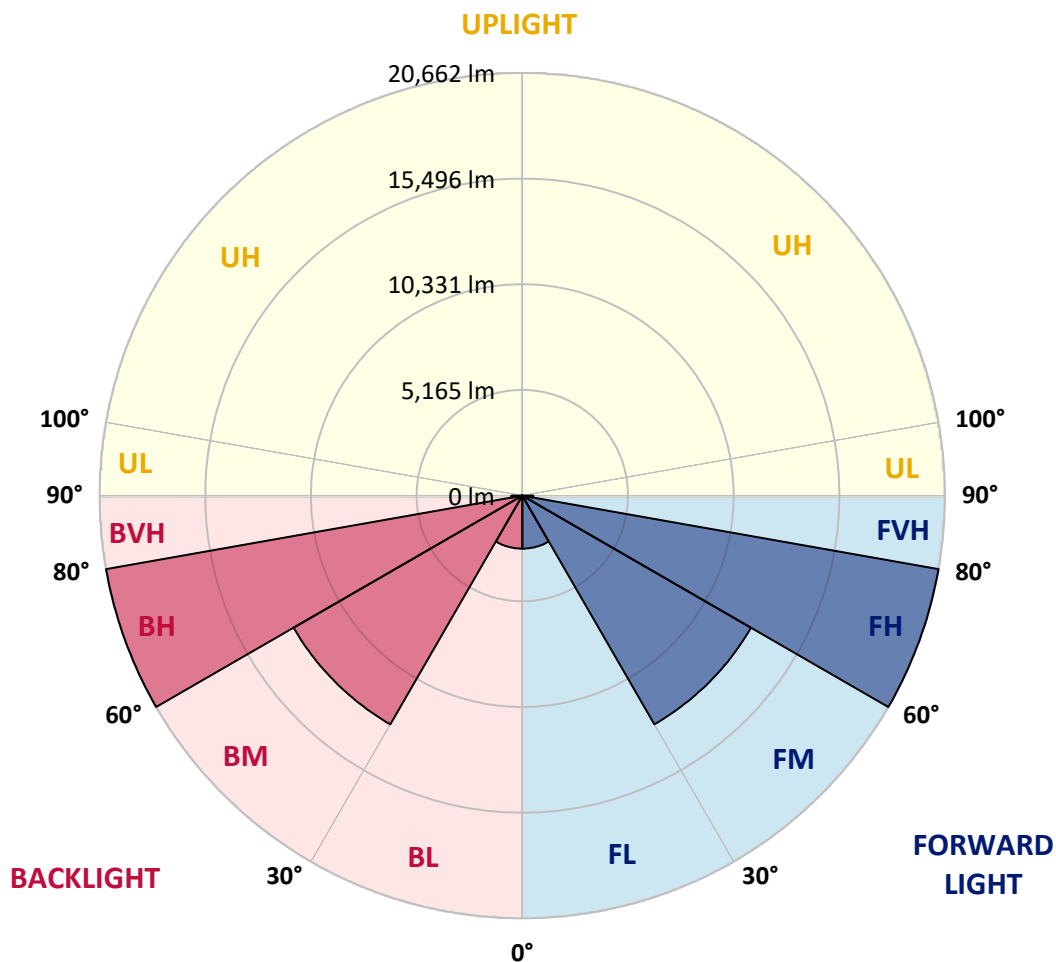
CATALOG NUMBER: GALN-SA9D-750-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2590.5 | 3.5 | | | |
| FM (30°-60°) | 12907.0 | 17.6 | | | |
| FH (60°-80°) | 20661.8 | 28.1 | | | G5 |
| FVH (80°-90°) | 540.2 | 0.7 | | | G4/750 |
| BL (0°-30°) | 2590.5 | 3.5 | B4/5000 | | |
| BM (30°-60°) | 12907.0 | 17.6 | B5 | | |
| BH (60°-80°) | 20661.8 | 28.1 | B5 | | G5 |
| BVH (80°-90°) | 540.2 | 0.7 | | | G4/750 |
| 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6214.1 | 6214.1 | 6214.1 | 6214.1 | 6214.1 | 6214.1 | 6214.1 | 6214.1 | 6214.1 | 6214.1 | 6214.1 |
| 2.5° | 6198.6 | 6202.5 | 6202.5 | 6194.7 | 6190.9 | 6190.9 | 6187.0 | 6187.0 | 6198.6 | 6202.5 | 6206.4 |
| 5° | 6144.3 | 6144.3 | 6144.3 | 6140.5 | 6132.7 | 6132.7 | 6125.0 | 6125.0 | 6128.8 | 6140.5 | 6132.7 |
| 7.5° | 6070.7 | 6078.4 | 6078.4 | 6062.9 | 6051.3 | 6051.3 | 6047.4 | 6051.3 | 6055.2 | 6066.8 | 6062.9 |
| 10° | 6047.4 | 6051.3 | 6031.9 | 6004.8 | 5985.4 | 5973.8 | 5977.7 | 5985.4 | 6004.8 | 6012.5 | 6016.4 |
| 12.5° | 6062.9 | 6062.9 | 6028.0 | 5989.3 | 5954.4 | 5938.9 | 5935.0 | 5962.1 | 5997.0 | 6020.3 | 6028.0 |
| 15° | 6082.3 | 6074.6 | 6031.9 | 5981.5 | 5946.6 | 5942.8 | 5938.9 | 5958.3 | 6008.7 | 6055.2 | 6059.1 |
| 17.5° | 6094.0 | 6090.1 | 6035.8 | 5973.8 | 5954.4 | 5954.4 | 5950.5 | 5966.0 | 6020.3 | 6078.4 | 6082.3 |
| 20° | 6132.7 | 6121.1 | 6059.1 | 5993.2 | 5977.7 | 5985.4 | 5973.8 | 5993.2 | 6051.3 | 6121.1 | 6136.6 |
| 22.5° | 6210.2 | 6198.6 | 6136.6 | 6070.7 | 6062.9 | 6062.9 | 6059.1 | 6078.4 | 6140.5 | 6214.1 | 6225.8 |
| 25° | 6303.3 | 6291.7 | 6233.5 | 6187.0 | 6194.7 | 6210.2 | 6202.5 | 6206.4 | 6256.8 | 6318.8 | 6338.2 |
| 27.5° | 6427.3 | 6408.0 | 6357.6 | 6318.8 | 6342.1 | 6342.1 | 6342.1 | 6338.2 | 6369.2 | 6427.3 | 6446.7 |
| 30° | 6578.5 | 6570.8 | 6516.5 | 6512.6 | 6532.0 | 6512.6 | 6512.6 | 6516.5 | 6520.4 | 6574.6 | 6594.0 |
| 32.5° | 6776.2 | 6760.7 | 6733.6 | 6725.8 | 6780.1 | 6795.6 | 6741.3 | 6690.9 | 6718.1 | 6772.3 | 6784.0 |
| 35° | 7101.9 | 7078.6 | 7039.8 | 6997.2 | 7039.8 | 7113.5 | 6997.2 | 6958.4 | 7028.2 | 7101.9 | 7109.6 |
| 37.5° | 7543.8 | 7532.2 | 7470.1 | 7392.6 | 7388.7 | 7466.3 | 7346.1 | 7342.2 | 7474.0 | 7563.2 | 7574.8 |
| 40° | 8098.1 | 8109.8 | 8032.2 | 7958.6 | 7919.8 | 7981.8 | 7888.8 | 7923.7 | 8051.6 | 8152.4 | 8144.7 |
| 42.5° | 8877.3 | 8834.7 | 8714.5 | 8644.7 | 8602.1 | 8578.8 | 8555.6 | 8609.8 | 8753.3 | 8861.8 | 8947.1 |
| 45° | 9788.3 | 9772.8 | 9621.6 | 9536.3 | 9443.3 | 9408.4 | 9400.7 | 9497.6 | 9672.0 | 9803.8 | 9815.4 |
| 47.5° | 10819.5 | 10784.6 | 10687.7 | 10598.5 | 10563.6 | 10521.0 | 10482.2 | 10555.9 | 10730.3 | 10823.4 | 10850.5 |
| 50° | 11881.7 | 11889.4 | 11889.4 | 11873.9 | 11908.8 | 11916.5 | 11811.9 | 11839.0 | 11935.9 | 11928.2 | 11920.4 |
| 52.5° | 13095.0 | 13137.7 | 13339.2 | 13358.6 | 13525.3 | 13637.7 | 13447.8 | 13335.4 | 13300.5 | 13091.1 | 13106.6 |
| 55° | 14521.6 | 14560.4 | 14862.7 | 15165.1 | 15614.8 | 15804.7 | 15405.4 | 15056.6 | 14808.5 | 14490.6 | 14506.1 |
| 57.5° | 16300.9 | 16320.3 | 16607.2 | 17188.7 | 17901.9 | 18347.8 | 17646.1 | 16956.1 | 16452.1 | 16149.7 | 16029.6 |
| 60° | 18216.0 | 18235.3 | 18654.0 | 19363.4 | 20472.1 | 21014.8 | 20146.5 | 19018.4 | 18382.6 | 17921.3 | 17952.3 |
| 62.5° | 20514.8 | 20592.3 | 20968.3 | 21945.2 | 23290.4 | 23899.0 | 22747.6 | 21239.7 | 20379.1 | 19805.3 | 19828.6 |
| 65° | 22976.4 | 23108.2 | 23519.1 | 24592.9 | 25833.4 | 26488.5 | 25077.5 | 23336.9 | 22267.0 | 21565.3 | 21639.0 |
| 67.5° | 24573.5 | 24689.8 | 25282.9 | 26469.1 | 28015.9 | 28558.6 | 26736.6 | 24709.2 | 23371.8 | 22534.4 | 22379.4 |
| 70° | 24166.5 | 24263.4 | 25054.2 | 26736.6 | 29027.7 | 29713.8 | 27132.0 | 24507.6 | 22933.7 | 21968.5 | 21906.4 |
| 72.5° | 21332.7 | 21131.1 | 22286.3 | 24701.4 | 27872.5 | 29023.8 | 25887.7 | 22383.3 | 20402.3 | 19409.9 | 19293.6 |
| 75° | 14137.8 | 14575.9 | 16281.5 | 19126.9 | 23581.1 | 25007.7 | 22096.4 | 17971.7 | 15479.1 | 14653.4 | 14525.5 |
| 77.5° | 4725.5 | 5062.8 | 6578.5 | 10842.7 | 16076.1 | 18219.8 | 16099.3 | 11753.7 | 8315.2 | 6698.7 | 6729.7 |
| 80° | 1252.1 | 1236.6 | 1601.0 | 2981.1 | 6946.8 | 10552.0 | 8086.5 | 3981.2 | 2178.6 | 1577.8 | 1496.4 |
| 82.5° | 449.7 | 504.0 | 647.4 | 825.7 | 1841.4 | 3279.6 | 2314.3 | 1116.4 | 818.0 | 604.7 | 585.4 |
| 85° | 197.7 | 193.8 | 279.1 | 329.5 | 461.3 | 612.5 | 542.7 | 472.9 | 414.8 | 275.2 | 255.9 |
| 87.5° | 42.6 | 42.6 | 65.9 | 50.4 | 81.4 | 81.4 | 100.8 | 120.2 | 124.0 | 81.4 | 65.9 |
| 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)