

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: P531060

Luminaire Tested: **GALN-SA6B-750-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531060
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-750-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28626 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

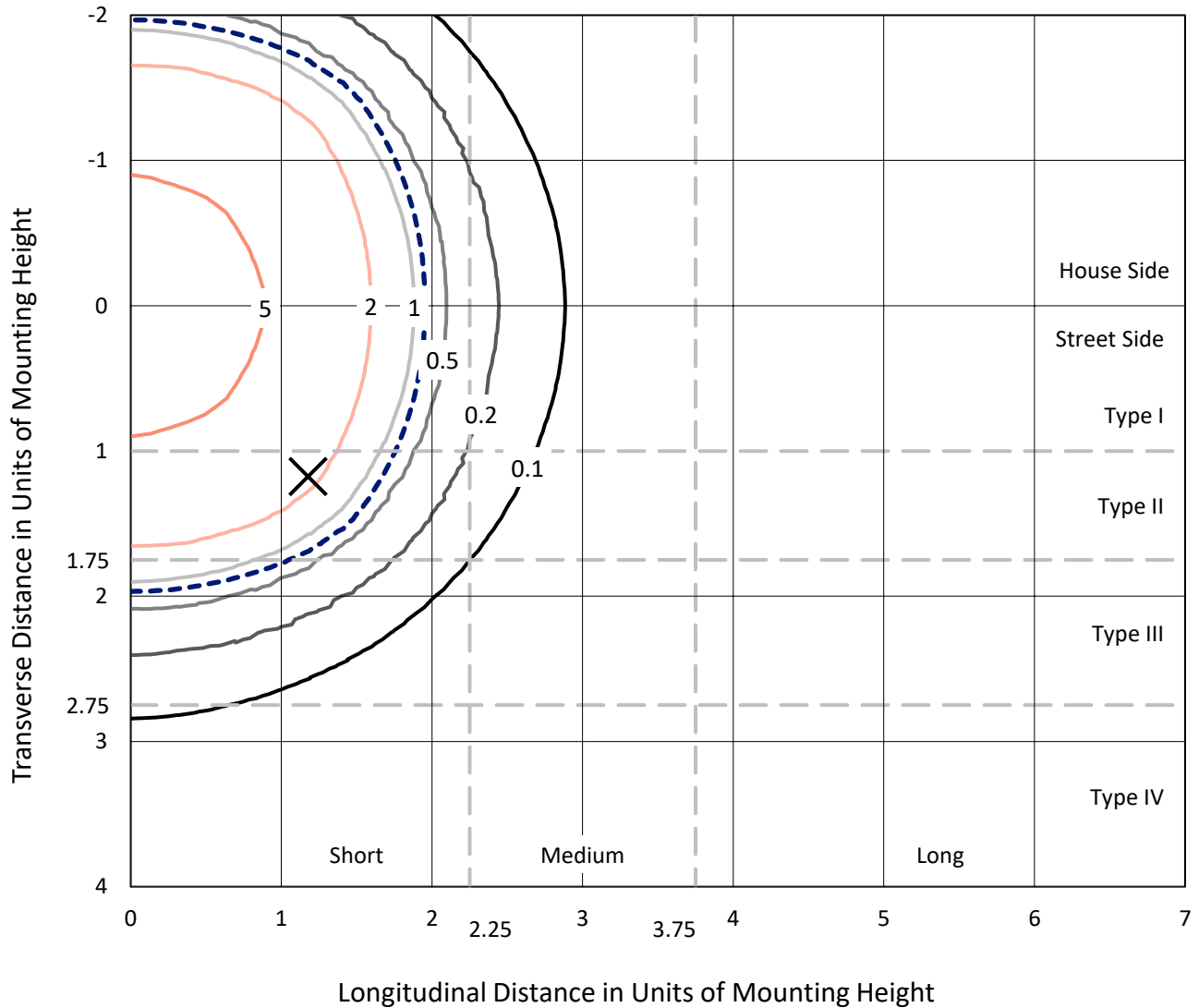
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

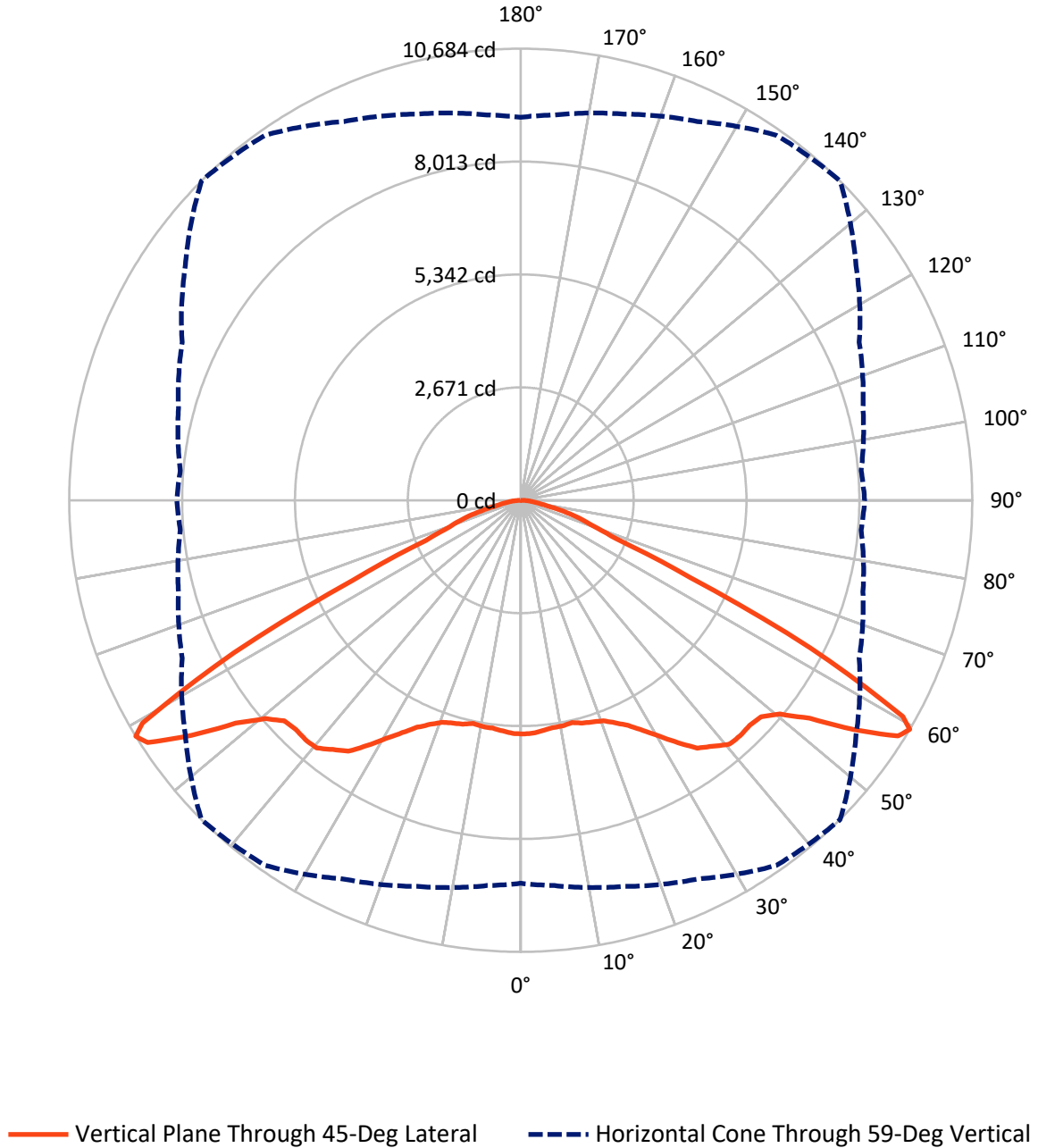
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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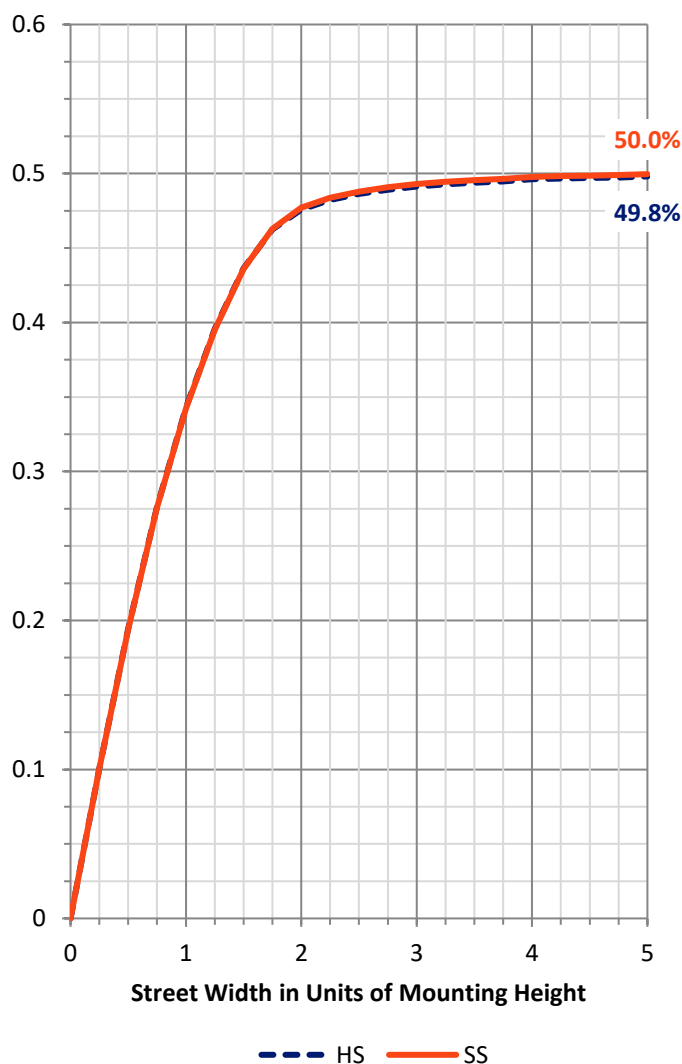
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 14313.0 | 0.0 | 14313.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 14313.0 | 0.0 | 14313.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 28626.0 | 0.0 | 28626.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 521.2 | 1.8 |
| 10°-20° | 1550.0 | 5.4 |
| 20°-30° | 2706.5 | 9.5 |
| 30°-40° | 4322.7 | 15.1 |
| 40°-50° | 5888.4 | 20.6 |
| 50°-60° | 7962.7 | 27.8 |
| 60°-70° | 4366.7 | 15.3 |
| 70°-80° | 1117.1 | 3.9 |
| 80°-90° | 190.5 | 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° | 28626.0 | 100.0 |
| 0°-180° | 28626.0 | 100.0 |

Coefficient of Utilization



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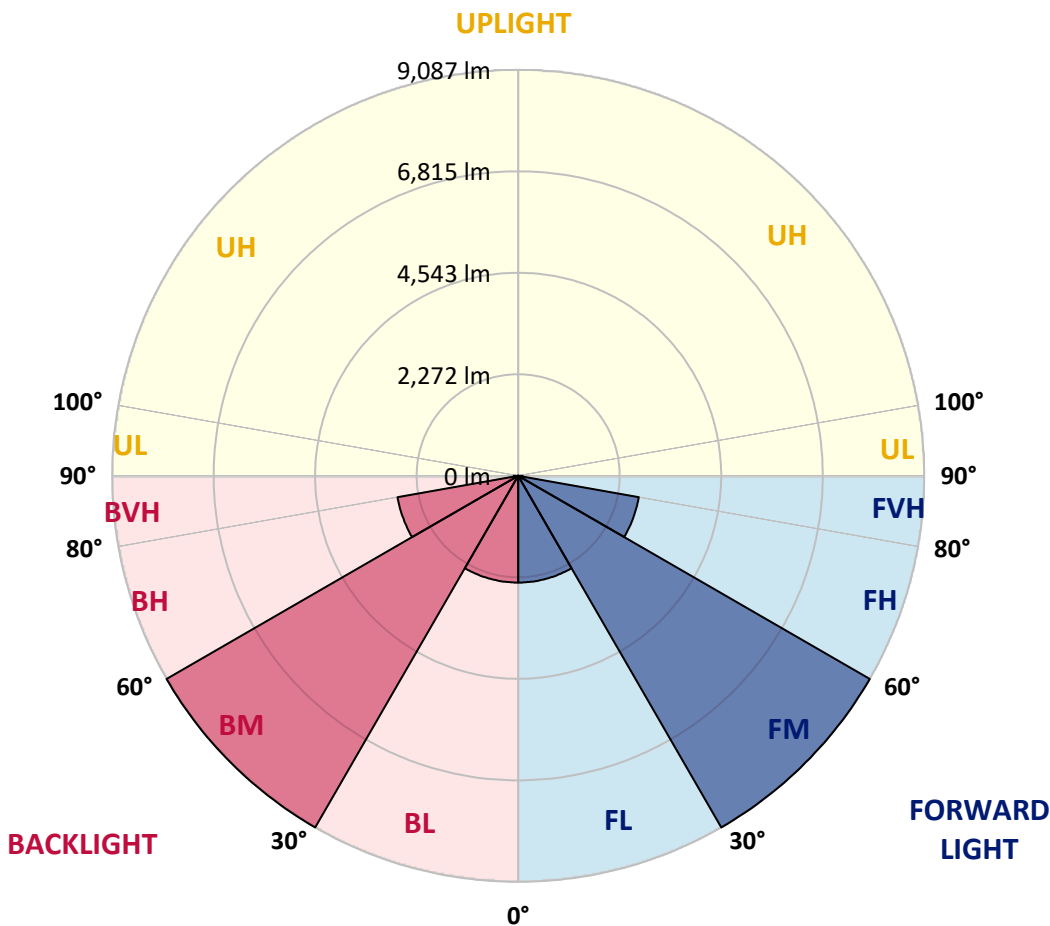
CATALOG NUMBER: GALN-SA6B-750-U-5WQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2388.9 | 8.3 | | | |
| FM (30°-60°) | 9086.9 | 31.7 | | | |
| FH (60°-80°) | 2741.9 | 9.6 | | | G2/5000 |
| FVH (80°-90°) | 95.3 | 0.3 | | | G1/100 |
| BL (0°-30°) | 2388.9 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 9086.9 | 31.7 | B5 | | |
| BH (60°-80°) | 2741.9 | 9.6 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 95.3 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|--------|
| 0° | 5529.2 | 5529.2 | 5529.2 | 5529.2 | 5529.2 | 5529.2 | 5529.2 | 5529.2 | 5529.2 | 5529.2 | 5529.2 |
| 2.5° | 5496.2 | 5536.5 | 5507.2 | 5532.8 | 5529.2 | 5518.2 | 5499.8 | 5488.8 | 5474.1 | 5496.2 | 5459.5 |
| 5° | 5474.1 | 5507.2 | 5540.2 | 5496.2 | 5496.2 | 5474.1 | 5463.1 | 5441.1 | 5441.1 | 5437.4 | 5433.8 |
| 7.5° | 5510.8 | 5477.8 | 5463.1 | 5470.5 | 5477.8 | 5430.1 | 5463.1 | 5419.1 | 5382.4 | 5408.1 | 5437.4 |
| 10° | 5477.8 | 5492.5 | 5437.4 | 5463.1 | 5422.8 | 5430.1 | 5408.1 | 5437.4 | 5397.1 | 5397.1 | 5397.1 |
| 12.5° | 5510.8 | 5470.5 | 5488.8 | 5470.5 | 5459.5 | 5397.1 | 5426.4 | 5393.4 | 5389.8 | 5426.4 | 5393.4 |
| 15° | 5576.9 | 5510.8 | 5496.2 | 5459.5 | 5470.5 | 5470.5 | 5441.1 | 5444.8 | 5404.4 | 5426.4 | 5433.8 |
| 17.5° | 5554.9 | 5518.2 | 5507.2 | 5463.1 | 5499.8 | 5510.8 | 5455.8 | 5419.1 | 5444.8 | 5441.1 | 5437.4 |
| 20° | 5573.2 | 5587.9 | 5576.9 | 5584.2 | 5598.9 | 5569.5 | 5518.2 | 5466.8 | 5433.8 | 5481.5 | 5477.8 |
| 22.5° | 5690.6 | 5675.9 | 5668.6 | 5661.3 | 5686.9 | 5716.3 | 5646.6 | 5565.9 | 5565.9 | 5598.9 | 5613.6 |
| 25° | 5786.0 | 5782.3 | 5778.7 | 5811.7 | 5899.7 | 5899.7 | 5811.7 | 5709.0 | 5683.3 | 5705.3 | 5686.9 |
| 27.5° | 5925.4 | 5965.8 | 5951.1 | 6009.8 | 6138.2 | 6167.6 | 6050.2 | 5929.1 | 5859.4 | 5833.7 | 5866.7 |
| 30° | 6244.6 | 6196.9 | 6207.9 | 6270.3 | 6384.0 | 6479.4 | 6299.7 | 6171.2 | 6075.9 | 6072.2 | 6086.9 |
| 32.5° | 6457.4 | 6494.1 | 6527.1 | 6585.8 | 6765.6 | 6839.0 | 6622.5 | 6413.4 | 6354.7 | 6321.7 | 6332.7 |
| 35° | 6883.0 | 6850.0 | 6842.7 | 6901.4 | 7081.2 | 7202.2 | 6930.7 | 6747.3 | 6670.2 | 6743.6 | 6743.6 |
| 37.5° | 7286.6 | 7194.9 | 7125.2 | 7202.2 | 7367.3 | 7382.0 | 7150.9 | 7051.8 | 7011.4 | 7095.8 | 7092.2 |
| 40° | 7477.4 | 7470.1 | 7308.6 | 7352.7 | 7572.8 | 7594.8 | 7378.3 | 7260.9 | 7253.6 | 7363.7 | 7473.7 |
| 42.5° | 7675.5 | 7605.8 | 7444.4 | 7473.7 | 7609.5 | 7616.8 | 7411.4 | 7378.3 | 7459.1 | 7565.5 | 7572.8 |
| 45° | 7708.6 | 7649.9 | 7547.1 | 7473.7 | 7572.8 | 7594.8 | 7473.7 | 7495.8 | 7503.1 | 7631.5 | 7631.5 |
| 47.5° | 7774.6 | 7767.3 | 7708.6 | 7653.5 | 7671.9 | 7653.5 | 7576.5 | 7609.5 | 7719.6 | 7781.9 | 7752.6 |
| 50° | 7958.0 | 7881.0 | 7939.7 | 7892.0 | 7895.7 | 7947.0 | 7877.3 | 7910.4 | 7888.3 | 7833.3 | 7796.6 |
| 52.5° | 8361.6 | 8324.9 | 8376.3 | 8409.3 | 8446.0 | 8563.4 | 8482.7 | 8306.6 | 8141.5 | 7994.7 | 7991.1 |
| 55° | 8952.3 | 8978.0 | 9077.1 | 9245.9 | 9389.0 | 9576.1 | 9187.2 | 8765.2 | 8501.1 | 8269.9 | 8284.6 |
| 57.5° | 9510.0 | 9491.7 | 9627.4 | 10012.7 | 10431.0 | 10526.3 | 9763.2 | 9161.5 | 8732.2 | 8585.4 | 8523.1 |
| 59° | 9062.4 | 9150.5 | 9458.7 | 9887.9 | 10544.7 | 10684.1 | 9686.1 | 8838.6 | 8383.7 | 8086.5 | 8137.8 |
| 60° | 8358.0 | 8391.0 | 8666.2 | 9264.2 | 10152.1 | 10390.6 | 9168.8 | 8339.6 | 7734.2 | 7561.8 | 7638.8 |
| 62.5° | 5907.1 | 5881.4 | 6079.5 | 6567.5 | 7363.7 | 7686.5 | 6817.0 | 6233.6 | 5852.0 | 5661.3 | 5705.3 |
| 65° | 3140.7 | 3258.1 | 3338.8 | 3643.3 | 4065.2 | 4406.5 | 4046.9 | 3793.7 | 3580.9 | 3423.2 | 3419.5 |
| 67.5° | 2120.7 | 2106.0 | 2124.3 | 2194.1 | 2337.1 | 2432.5 | 2425.2 | 2296.8 | 2278.4 | 2249.1 | 2282.1 |
| 70° | 1786.8 | 1779.5 | 1746.4 | 1746.4 | 1775.8 | 1797.8 | 1823.5 | 1838.2 | 1867.5 | 1904.2 | 1900.5 |
| 72.5° | 1449.3 | 1430.9 | 1408.9 | 1397.9 | 1434.6 | 1445.6 | 1478.6 | 1493.3 | 1519.0 | 1515.3 | 1548.3 |
| 75° | 957.6 | 957.6 | 983.3 | 1012.6 | 1023.6 | 1045.7 | 1049.3 | 1093.4 | 1093.4 | 1100.7 | 1071.3 |
| 77.5° | 535.7 | 521.0 | 539.3 | 568.7 | 594.4 | 634.7 | 675.1 | 708.1 | 726.5 | 719.1 | 719.1 |
| 80° | 311.9 | 311.9 | 330.2 | 363.2 | 396.3 | 432.9 | 462.3 | 488.0 | 506.3 | 499.0 | 484.3 |
| 82.5° | 194.5 | 194.5 | 212.8 | 245.8 | 271.5 | 293.5 | 333.9 | 366.9 | 388.9 | 381.6 | 363.2 |
| 85° | 99.1 | 99.1 | 121.1 | 143.1 | 176.1 | 190.8 | 187.1 | 172.4 | 168.8 | 150.4 | 150.4 |
| 87.5° | 25.7 | 25.7 | 36.7 | 40.4 | 33.0 | 36.7 | 36.7 | 36.7 | 36.7 | 36.7 | 40.4 |
| 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)