

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: P531008

Luminaire Tested: **GALN-SA6B-735-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531008
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-735-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 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: 26666 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

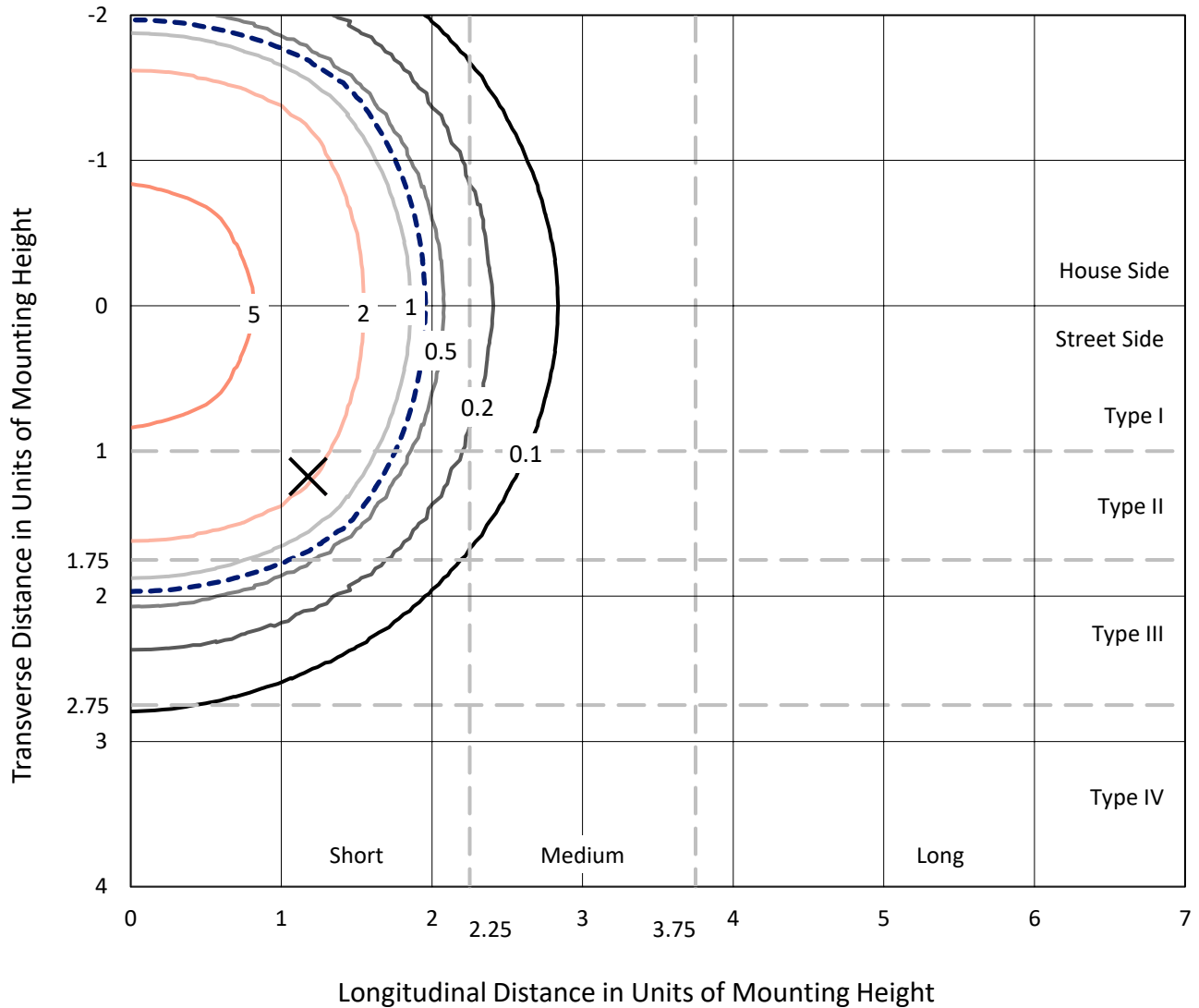
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

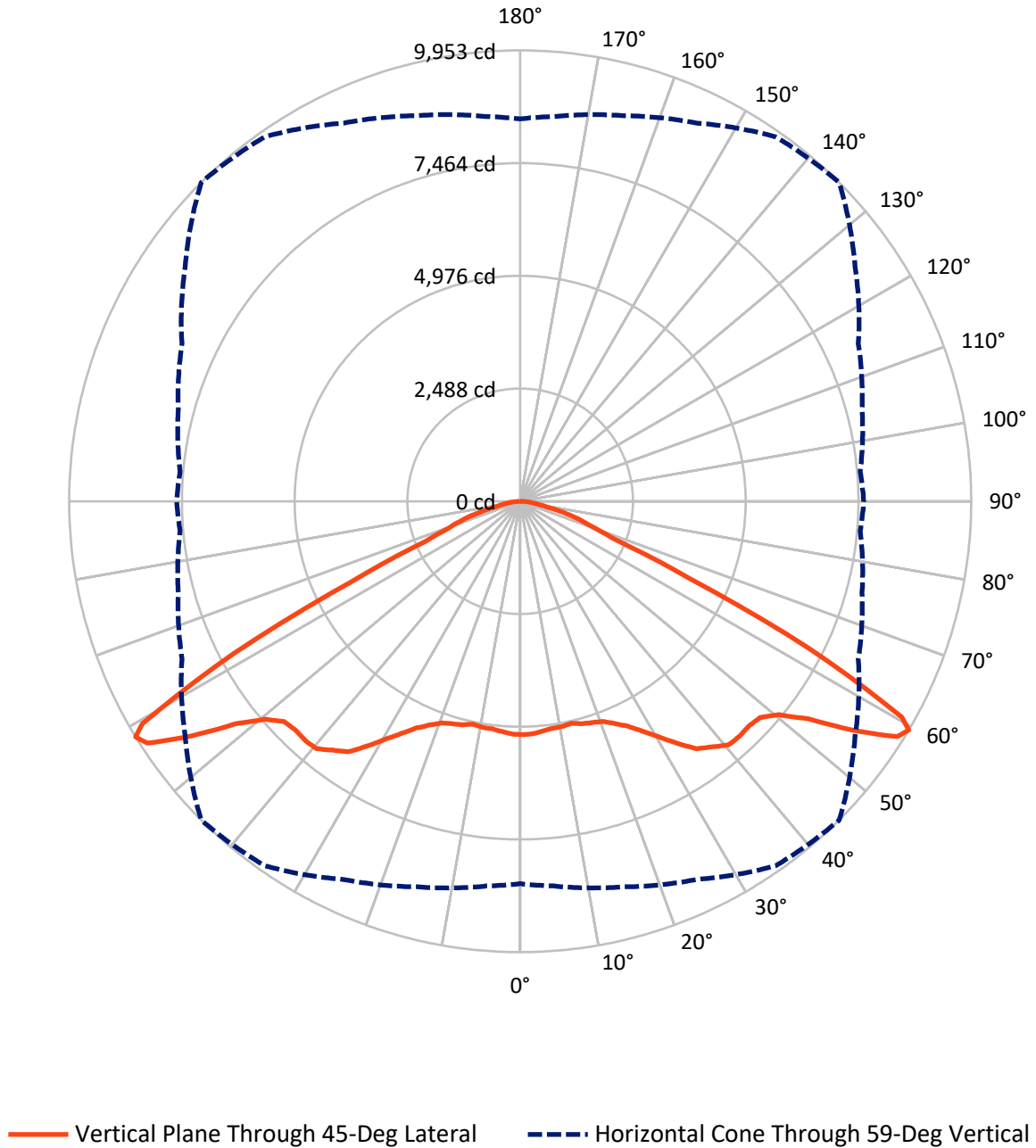
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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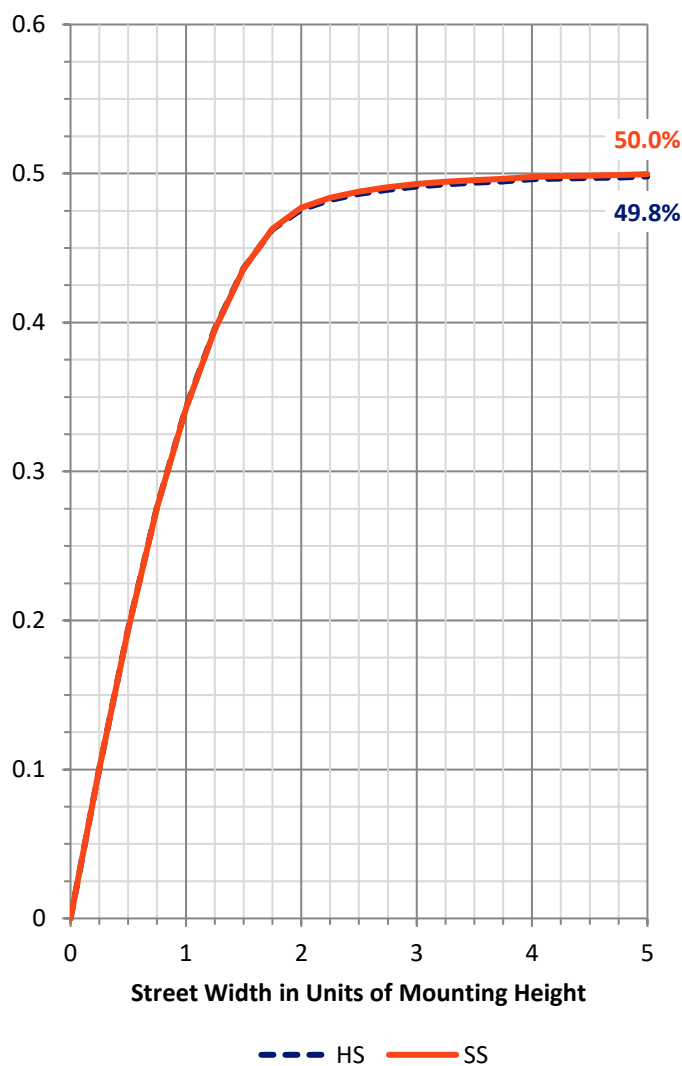
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 13333.0 | 0.0 | 13333.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 13333.0 | 0.0 | 13333.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 26666.0 | 0.0 | 26666.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 485.5 | 1.8 |
| 10°-20° | 1443.9 | 5.4 |
| 20°-30° | 2521.2 | 9.5 |
| 30°-40° | 4026.7 | 15.1 |
| 40°-50° | 5485.2 | 20.6 |
| 50°-60° | 7417.5 | 27.8 |
| 60°-70° | 4067.8 | 15.3 |
| 70°-80° | 1040.7 | 3.9 |
| 80°-90° | 177.5 | 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° | 26666.0 | 100.0 |
| 0°-180° | 26666.0 | 100.0 |

Coefficient of Utilization



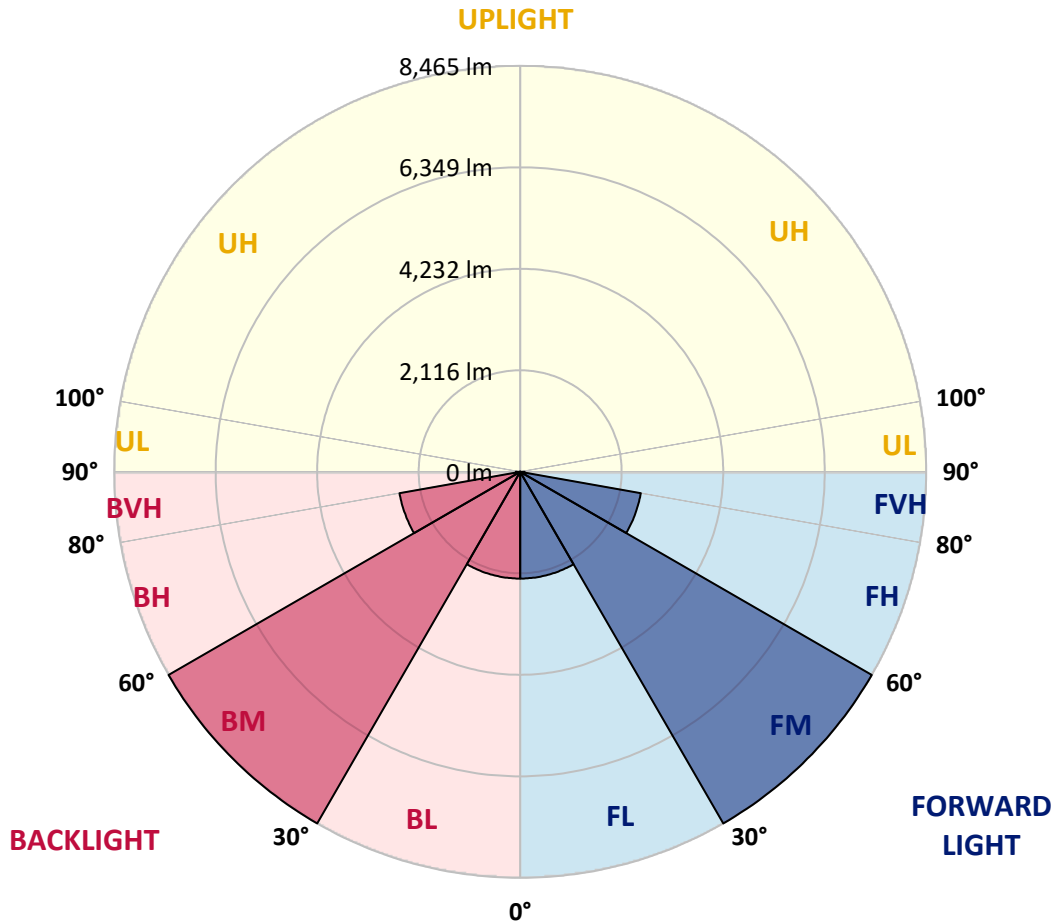
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2225.3 | 8.3 | | | |
| FM (30°-60°) | 8464.7 | 31.7 | | | |
| FH (60°-80°) | 2554.2 | 9.6 | | | G2/5000 |
| FVH (80°-90°) | 88.7 | 0.3 | | | G1/100 |
| BL (0°-30°) | 2225.3 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 8464.7 | 31.7 | B4/8500 | | |
| BH (60°-80°) | 2554.2 | 9.6 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 88.7 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5150.6 | 5150.6 | 5150.6 | 5150.6 | 5150.6 | 5150.6 | 5150.6 | 5150.6 | 5150.6 | 5150.6 | 5150.6 |
| 2.5° | 5119.8 | 5157.4 | 5130.1 | 5154.0 | 5150.6 | 5140.3 | 5123.3 | 5113.0 | 5099.3 | 5119.8 | 5085.7 |
| 5° | 5099.3 | 5130.1 | 5160.8 | 5119.8 | 5119.8 | 5099.3 | 5089.1 | 5068.6 | 5068.6 | 5065.2 | 5061.7 |
| 7.5° | 5133.5 | 5102.7 | 5089.1 | 5095.9 | 5102.7 | 5058.3 | 5089.1 | 5048.1 | 5013.9 | 5037.8 | 5065.2 |
| 10° | 5102.7 | 5116.4 | 5065.2 | 5089.1 | 5051.5 | 5058.3 | 5037.8 | 5065.2 | 5027.6 | 5027.6 | 5027.6 |
| 12.5° | 5133.5 | 5095.9 | 5113.0 | 5095.9 | 5085.7 | 5027.6 | 5054.9 | 5024.1 | 5020.7 | 5054.9 | 5024.1 |
| 15° | 5195.0 | 5133.5 | 5119.8 | 5085.7 | 5095.9 | 5095.9 | 5068.6 | 5072.0 | 5034.4 | 5054.9 | 5061.7 |
| 17.5° | 5174.5 | 5140.3 | 5130.1 | 5089.1 | 5123.3 | 5133.5 | 5082.2 | 5048.1 | 5072.0 | 5068.6 | 5065.2 |
| 20° | 5191.6 | 5205.3 | 5195.0 | 5201.9 | 5215.5 | 5188.2 | 5140.3 | 5092.5 | 5061.7 | 5106.2 | 5102.7 |
| 22.5° | 5301.0 | 5287.3 | 5280.5 | 5273.6 | 5297.6 | 5324.9 | 5260.0 | 5184.8 | 5184.8 | 5215.5 | 5229.2 |
| 25° | 5389.8 | 5386.4 | 5383.0 | 5413.8 | 5495.8 | 5495.8 | 5413.8 | 5318.1 | 5294.1 | 5314.6 | 5297.6 |
| 27.5° | 5519.7 | 5557.3 | 5543.6 | 5598.3 | 5717.9 | 5745.3 | 5635.9 | 5523.1 | 5458.2 | 5434.3 | 5465.0 |
| 30° | 5817.1 | 5772.6 | 5782.9 | 5841.0 | 5946.9 | 6035.8 | 5868.3 | 5748.7 | 5659.8 | 5656.4 | 5670.1 |
| 32.5° | 6015.3 | 6049.5 | 6080.2 | 6134.9 | 6302.4 | 6370.7 | 6169.1 | 5974.3 | 5919.6 | 5888.8 | 5899.1 |
| 35° | 6411.8 | 6381.0 | 6374.2 | 6428.8 | 6596.3 | 6709.1 | 6456.2 | 6285.3 | 6213.5 | 6281.9 | 6281.9 |
| 37.5° | 6787.7 | 6702.3 | 6637.3 | 6709.1 | 6862.9 | 6876.6 | 6661.3 | 6569.0 | 6531.4 | 6610.0 | 6606.6 |
| 40° | 6965.4 | 6958.6 | 6808.2 | 6849.2 | 7054.3 | 7074.8 | 6873.2 | 6763.8 | 6757.0 | 6859.5 | 6962.0 |
| 42.5° | 7150.0 | 7085.1 | 6934.7 | 6962.0 | 7088.5 | 7095.3 | 6903.9 | 6873.2 | 6948.3 | 7047.5 | 7054.3 |
| 45° | 7180.8 | 7126.1 | 7030.4 | 6962.0 | 7054.3 | 7074.8 | 6962.0 | 6982.5 | 6989.4 | 7109.0 | 7109.0 |
| 47.5° | 7242.3 | 7235.4 | 7180.8 | 7129.5 | 7146.6 | 7129.5 | 7057.7 | 7088.5 | 7191.0 | 7249.1 | 7221.8 |
| 50° | 7413.2 | 7341.4 | 7396.1 | 7351.6 | 7355.1 | 7402.9 | 7338.0 | 7368.7 | 7348.2 | 7297.0 | 7262.8 |
| 52.5° | 7789.1 | 7754.9 | 7802.8 | 7833.6 | 7867.7 | 7977.1 | 7901.9 | 7737.9 | 7584.1 | 7447.3 | 7443.9 |
| 55° | 8339.4 | 8363.3 | 8455.6 | 8612.8 | 8746.1 | 8920.4 | 8558.1 | 8165.1 | 7919.0 | 7703.7 | 7717.3 |
| 57.5° | 8858.9 | 8841.8 | 8968.3 | 9327.1 | 9716.8 | 9805.6 | 9094.7 | 8534.2 | 8134.3 | 7997.6 | 7939.5 |
| 59° | 8441.9 | 8523.9 | 8811.0 | 9210.9 | 9822.7 | 9952.6 | 9022.9 | 8233.4 | 7809.6 | 7532.8 | 7580.6 |
| 60° | 7785.7 | 7816.5 | 8072.8 | 8629.9 | 9457.0 | 9679.2 | 8541.0 | 7768.6 | 7204.7 | 7044.0 | 7115.8 |
| 62.5° | 5502.6 | 5478.7 | 5663.3 | 6117.8 | 6859.5 | 7160.3 | 6350.2 | 5806.8 | 5451.4 | 5273.6 | 5314.6 |
| 65° | 2925.6 | 3035.0 | 3110.2 | 3393.9 | 3786.9 | 4104.8 | 3769.8 | 3534.0 | 3335.8 | 3188.8 | 3185.4 |
| 67.5° | 1975.5 | 1961.8 | 1978.9 | 2043.8 | 2177.1 | 2266.0 | 2259.2 | 2139.5 | 2122.4 | 2095.1 | 2125.9 |
| 70° | 1664.5 | 1657.6 | 1626.9 | 1626.9 | 1654.2 | 1674.7 | 1698.6 | 1712.3 | 1739.7 | 1773.8 | 1770.4 |
| 72.5° | 1350.0 | 1332.9 | 1312.4 | 1302.2 | 1336.4 | 1346.6 | 1377.4 | 1391.0 | 1415.0 | 1411.5 | 1442.3 |
| 75° | 892.0 | 892.0 | 916.0 | 943.3 | 953.6 | 974.1 | 977.5 | 1018.5 | 1018.5 | 1025.3 | 998.0 |
| 77.5° | 499.0 | 485.3 | 502.4 | 529.8 | 553.7 | 591.3 | 628.9 | 659.6 | 676.7 | 669.9 | 669.9 |
| 80° | 290.5 | 290.5 | 307.6 | 338.4 | 369.1 | 403.3 | 430.6 | 454.6 | 471.7 | 464.8 | 451.1 |
| 82.5° | 181.1 | 181.1 | 198.2 | 229.0 | 252.9 | 273.4 | 311.0 | 341.8 | 362.3 | 355.4 | 338.4 |
| 85° | 92.3 | 92.3 | 112.8 | 133.3 | 164.1 | 177.7 | 174.3 | 160.6 | 157.2 | 140.1 | 140.1 |
| 87.5° | 23.9 | 23.9 | 34.2 | 37.6 | 30.8 | 34.2 | 34.2 | 34.2 | 34.2 | 34.2 | 37.6 |
| 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)