

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: P648470

Luminaire Tested: **GALN-SA6B-835-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648470
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-835-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 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: 22414.1 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

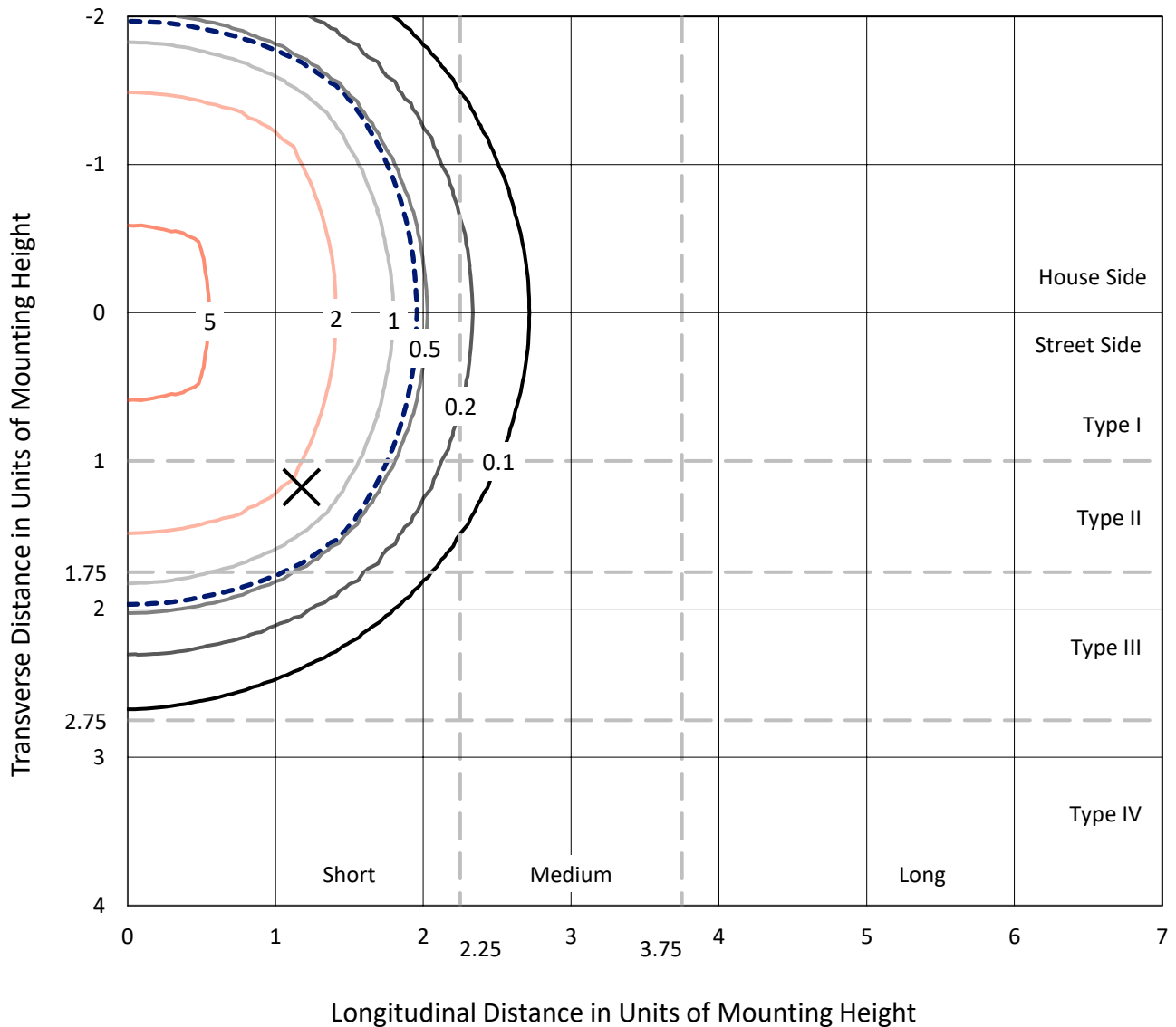
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

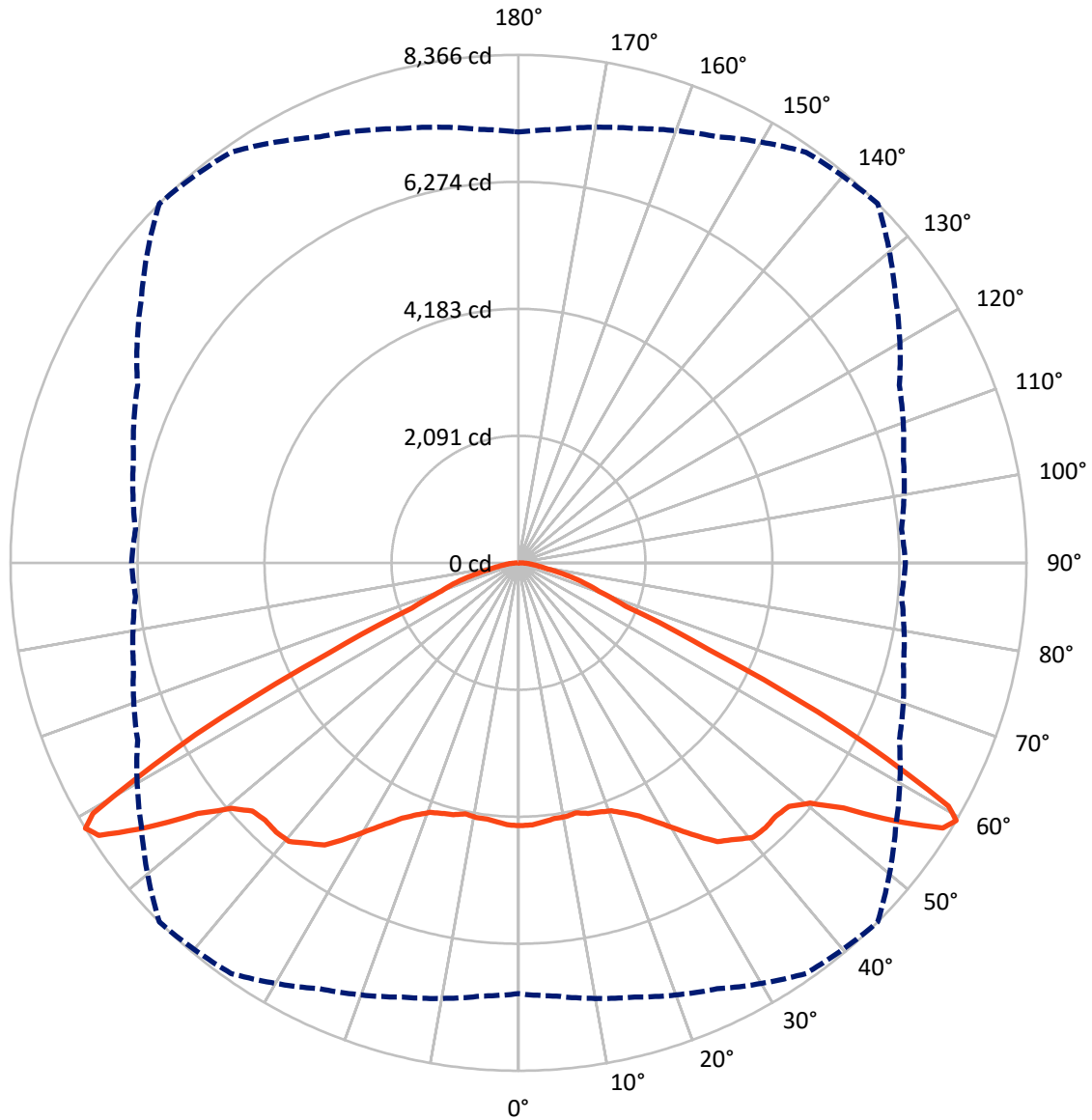
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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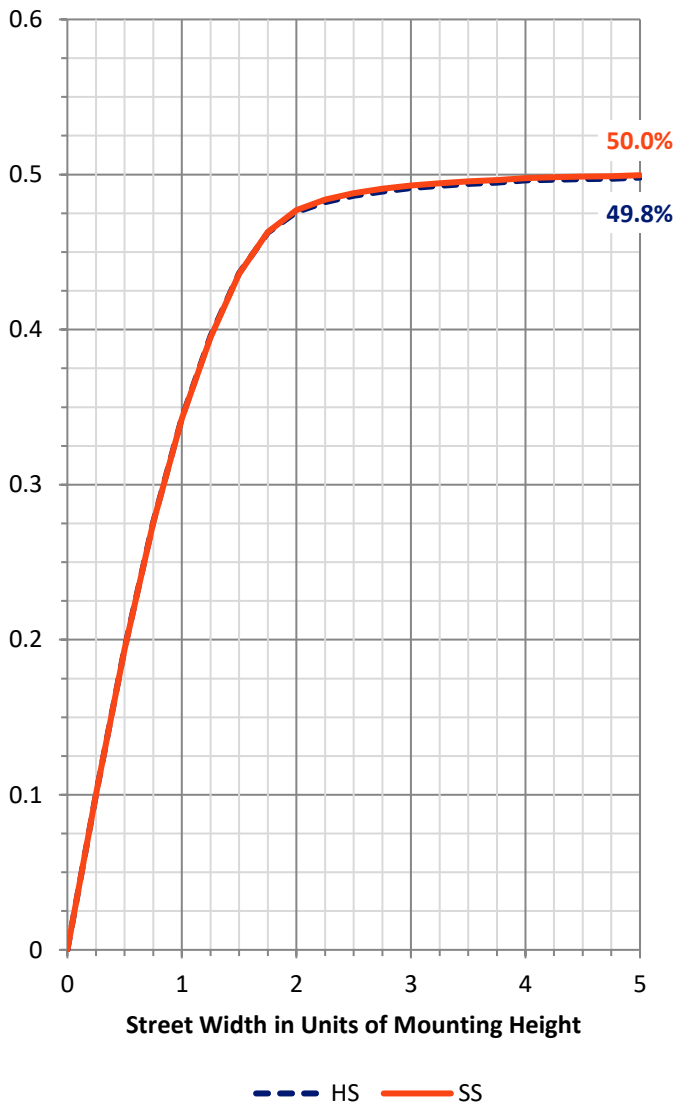
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11207.1 | 0.0 | 11207.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 11207.1 | 0.0 | 11207.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 22414.1 | 0.0 | 22414.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 408.1 | 1.8 |
| 10°-20° | 1213.7 | 5.4 |
| 20°-30° | 2119.2 | 9.5 |
| 30°-40° | 3384.7 | 15.1 |
| 40°-50° | 4610.6 | 20.6 |
| 50°-60° | 6234.8 | 27.8 |
| 60°-70° | 3419.2 | 15.3 |
| 70°-80° | 874.7 | 3.9 |
| 80°-90° | 149.2 | 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° | 22414.1 | 100.0 |
| 0°-180° | 22414.1 | 100.0 |



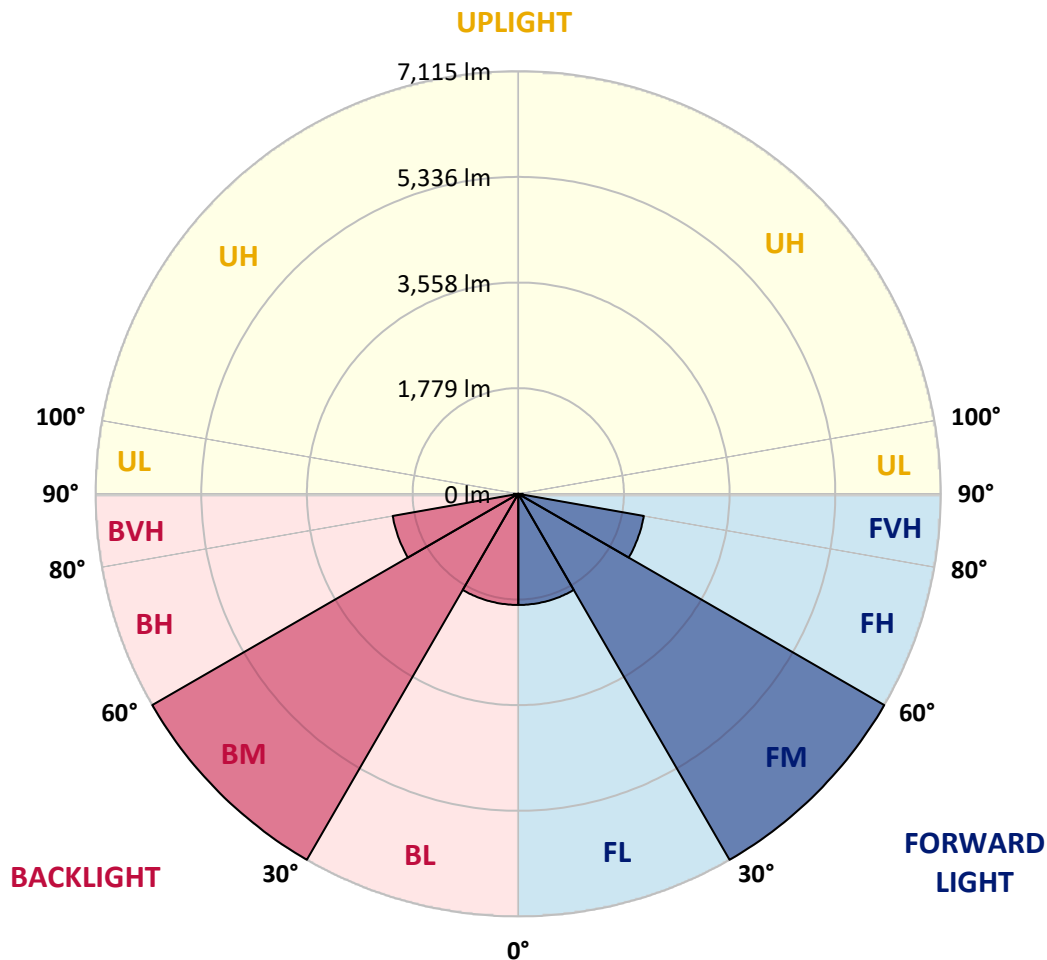
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1870.5 | 8.3 | | | |
| FM (30°-60°) | 7115.0 | 31.7 | | | |
| FH (60°-80°) | 2146.9 | 9.6 | | | G2/5000 |
| FVH (80°-90°) | 74.6 | 0.3 | | | G1/100 |
| BL (0°-30°) | 1870.5 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 7115.0 | 31.7 | B4/8500 | | |
| BH (60°-80°) | 2146.9 | 9.6 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 74.6 | 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° | 4329.4 | 4329.4 | 4329.4 | 4329.4 | 4329.4 | 4329.4 | 4329.4 | 4329.4 | 4329.4 | 4329.4 | 4329.4 |
| 2.5° | 4303.5 | 4335.1 | 4312.1 | 4332.2 | 4329.4 | 4320.8 | 4306.3 | 4297.7 | 4286.2 | 4303.5 | 4274.8 |
| 5° | 4286.2 | 4312.1 | 4338.0 | 4303.5 | 4303.5 | 4286.2 | 4277.6 | 4260.4 | 4260.4 | 4257.5 | 4254.7 |
| 7.5° | 4315.0 | 4289.1 | 4277.6 | 4283.4 | 4289.1 | 4251.8 | 4277.6 | 4243.2 | 4214.4 | 4234.5 | 4257.5 |
| 10° | 4289.1 | 4300.6 | 4257.5 | 4277.6 | 4246.1 | 4251.8 | 4234.5 | 4257.5 | 4225.9 | 4225.9 | 4225.9 |
| 12.5° | 4315.0 | 4283.4 | 4297.7 | 4283.4 | 4274.8 | 4225.9 | 4248.9 | 4223.0 | 4220.2 | 4248.9 | 4223.0 |
| 15° | 4366.7 | 4315.0 | 4303.5 | 4274.8 | 4283.4 | 4283.4 | 4260.4 | 4263.3 | 4231.6 | 4248.9 | 4254.7 |
| 17.5° | 4349.5 | 4320.8 | 4312.1 | 4277.6 | 4306.3 | 4315.0 | 4271.9 | 4243.2 | 4263.3 | 4260.4 | 4257.5 |
| 20° | 4363.8 | 4375.3 | 4366.7 | 4372.4 | 4383.9 | 4360.9 | 4320.8 | 4280.5 | 4254.7 | 4292.0 | 4289.1 |
| 22.5° | 4455.7 | 4444.2 | 4438.5 | 4432.8 | 4452.8 | 4475.9 | 4421.3 | 4358.1 | 4358.1 | 4383.9 | 4395.4 |
| 25° | 4530.4 | 4527.5 | 4524.7 | 4550.6 | 4619.5 | 4619.5 | 4550.6 | 4470.1 | 4450.0 | 4467.2 | 4452.8 |
| 27.5° | 4639.6 | 4671.2 | 4659.7 | 4705.7 | 4806.2 | 4829.2 | 4737.3 | 4642.5 | 4587.9 | 4567.8 | 4593.6 |
| 30° | 4889.5 | 4852.2 | 4860.8 | 4909.6 | 4998.7 | 5073.4 | 4932.7 | 4832.0 | 4757.4 | 4754.5 | 4766.0 |
| 32.5° | 5056.1 | 5084.9 | 5110.7 | 5156.7 | 5297.5 | 5354.9 | 5185.4 | 5021.7 | 4975.7 | 4949.9 | 4958.5 |
| 35° | 5389.4 | 5363.6 | 5357.8 | 5403.8 | 5544.6 | 5639.3 | 5426.7 | 5283.1 | 5222.8 | 5280.2 | 5280.2 |
| 37.5° | 5705.4 | 5633.6 | 5579.0 | 5639.3 | 5768.6 | 5780.1 | 5599.2 | 5521.6 | 5489.9 | 5556.0 | 5553.2 |
| 40° | 5854.8 | 5849.1 | 5722.6 | 5757.2 | 5929.5 | 5946.7 | 5777.2 | 5685.3 | 5679.6 | 5765.8 | 5851.9 |
| 42.5° | 6009.9 | 5955.3 | 5829.0 | 5851.9 | 5958.2 | 5964.0 | 5803.1 | 5777.2 | 5840.5 | 5923.8 | 5929.5 |
| 45° | 6035.8 | 5989.9 | 5909.4 | 5851.9 | 5929.5 | 5946.7 | 5851.9 | 5869.2 | 5874.9 | 5975.5 | 5975.5 |
| 47.5° | 6087.5 | 6081.8 | 6035.8 | 5992.7 | 6007.1 | 5992.7 | 5932.4 | 5958.2 | 6044.4 | 6093.2 | 6070.3 |
| 50° | 6231.1 | 6170.8 | 6216.8 | 6179.4 | 6182.3 | 6222.5 | 6167.9 | 6193.8 | 6176.5 | 6133.5 | 6104.7 |
| 52.5° | 6547.1 | 6518.4 | 6558.6 | 6584.5 | 6613.2 | 6705.1 | 6642.0 | 6504.1 | 6374.8 | 6259.9 | 6257.0 |
| 55° | 7009.7 | 7029.8 | 7107.4 | 7239.5 | 7351.6 | 7498.1 | 7193.6 | 6863.2 | 6656.4 | 6475.3 | 6486.8 |
| 57.5° | 7446.3 | 7432.0 | 7538.3 | 7839.9 | 8167.5 | 8242.1 | 7644.6 | 7173.5 | 6837.3 | 6722.4 | 6673.6 |
| 59° | 7095.9 | 7164.8 | 7406.2 | 7742.2 | 8256.5 | 8365.7 | 7584.2 | 6920.6 | 6564.4 | 6331.7 | 6371.9 |
| 60° | 6544.3 | 6570.2 | 6785.6 | 7253.9 | 7949.1 | 8135.8 | 7179.2 | 6529.9 | 6055.9 | 5920.9 | 5981.2 |
| 62.5° | 4625.3 | 4605.1 | 4760.2 | 5142.4 | 5765.8 | 6018.5 | 5337.7 | 4880.9 | 4582.1 | 4432.8 | 4467.2 |
| 65° | 2459.2 | 2551.1 | 2614.3 | 2852.7 | 3183.1 | 3450.3 | 3168.7 | 2970.5 | 2803.8 | 2680.4 | 2677.5 |
| 67.5° | 1660.5 | 1649.0 | 1663.3 | 1718.0 | 1829.9 | 1904.6 | 1898.9 | 1798.4 | 1784.0 | 1761.0 | 1786.9 |
| 70° | 1399.1 | 1393.3 | 1367.4 | 1367.4 | 1390.5 | 1407.7 | 1427.8 | 1439.3 | 1462.3 | 1491.0 | 1488.1 |
| 72.5° | 1134.8 | 1120.4 | 1103.2 | 1094.6 | 1123.3 | 1131.9 | 1157.7 | 1169.3 | 1189.4 | 1186.5 | 1212.3 |
| 75° | 749.8 | 749.8 | 769.9 | 792.9 | 801.5 | 818.8 | 821.6 | 856.1 | 856.1 | 861.8 | 838.8 |
| 77.5° | 419.5 | 407.9 | 422.3 | 445.3 | 465.4 | 497.0 | 528.6 | 554.4 | 568.8 | 563.1 | 563.1 |
| 80° | 244.2 | 244.2 | 258.5 | 284.4 | 310.3 | 339.0 | 362.0 | 382.1 | 396.4 | 390.7 | 379.2 |
| 82.5° | 152.3 | 152.3 | 166.6 | 192.5 | 212.6 | 229.8 | 261.4 | 287.3 | 304.5 | 298.8 | 284.4 |
| 85° | 77.6 | 77.6 | 94.8 | 112.0 | 137.9 | 149.4 | 146.5 | 135.0 | 132.2 | 117.8 | 117.8 |
| 87.5° | 20.1 | 20.1 | 28.7 | 31.6 | 25.8 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 31.6 |
| 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)