

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: P530176

Luminaire Tested: **GALN-SA5B-827-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530176
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-SA5B-827-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 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: 17772 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

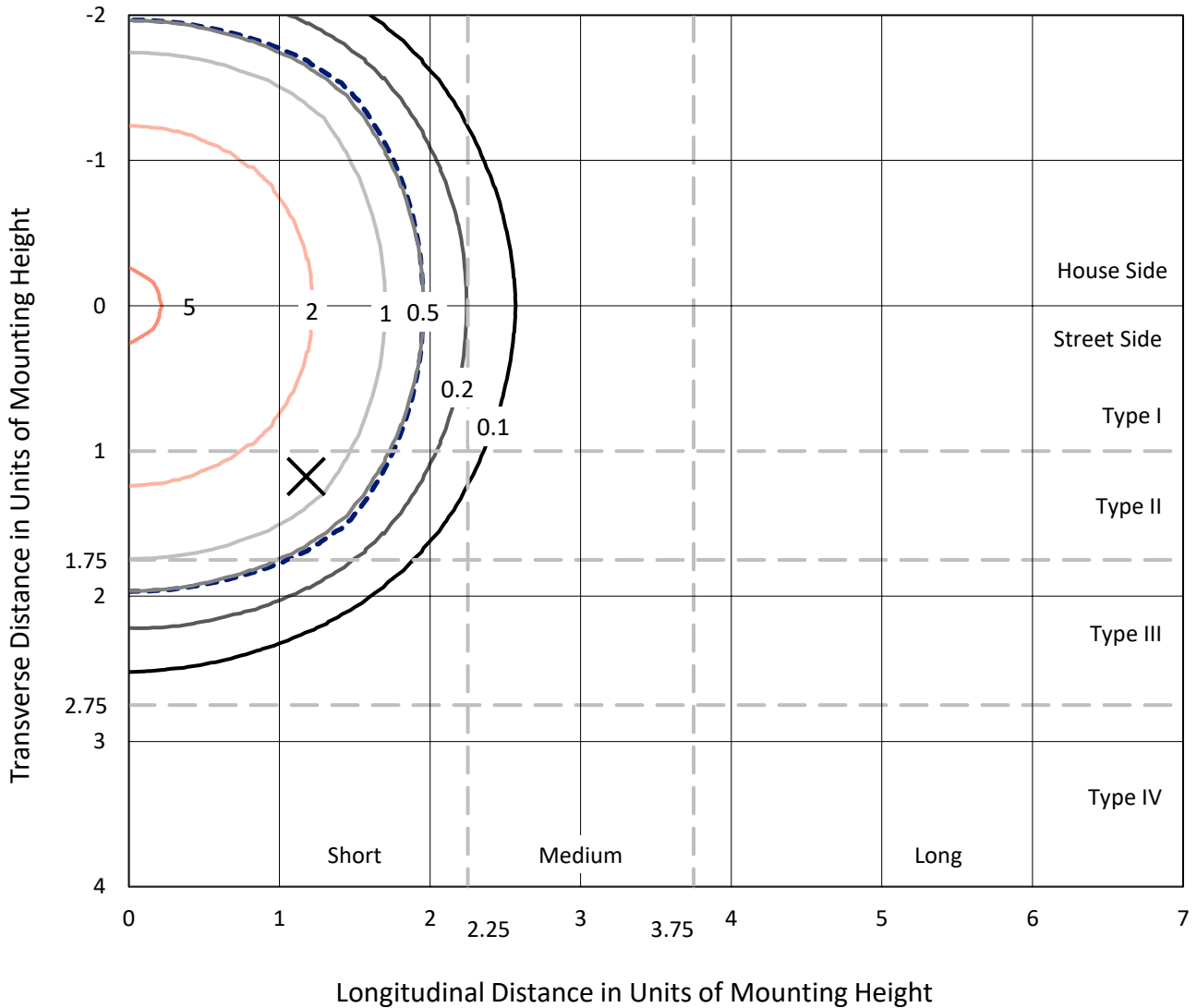
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

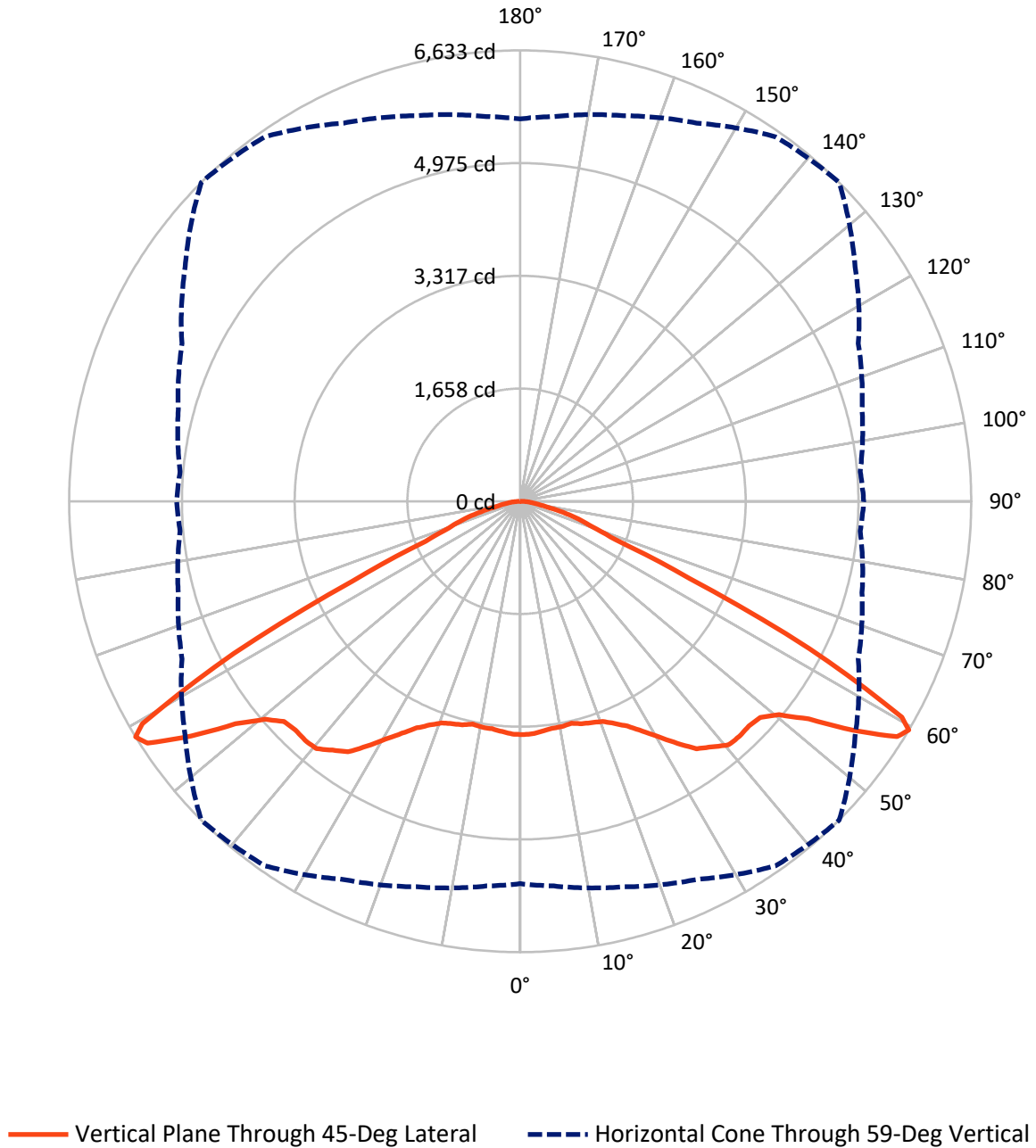
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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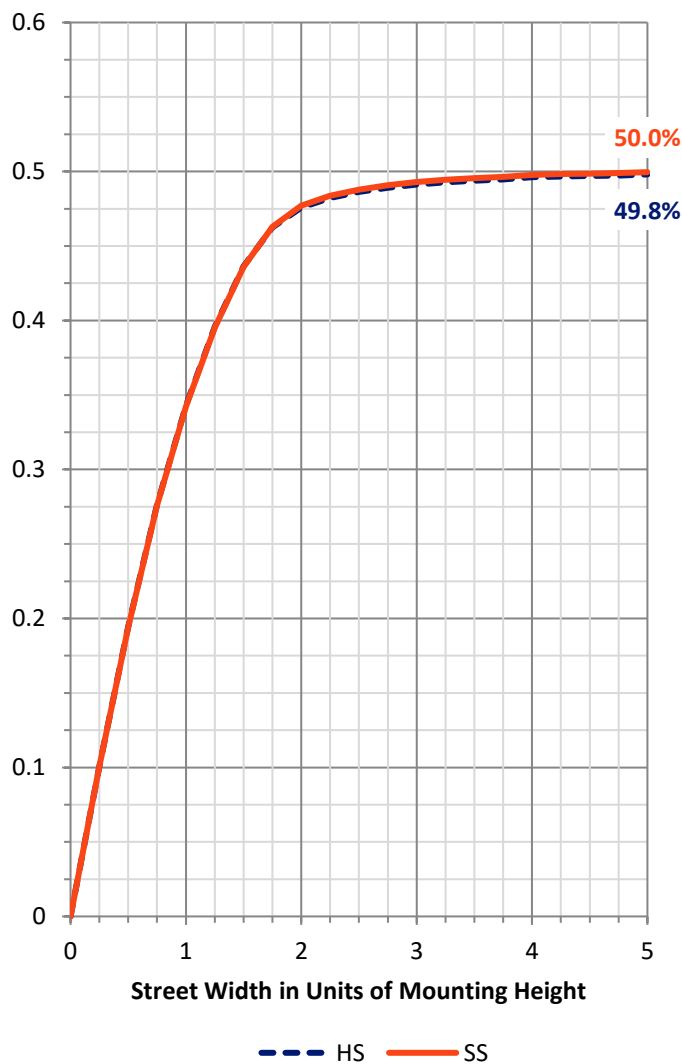
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8886.0 | 0.0 | 8886.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8886.0 | 0.0 | 8886.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 17772.0 | 0.0 | 17772.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 323.6 | 1.8 |
| 10°-20° | 962.3 | 5.4 |
| 20°-30° | 1680.3 | 9.5 |
| 30°-40° | 2683.7 | 15.1 |
| 40°-50° | 3655.7 | 20.6 |
| 50°-60° | 4943.5 | 27.8 |
| 60°-70° | 2711.0 | 15.3 |
| 70°-80° | 693.6 | 3.9 |
| 80°-90° | 118.3 | 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° | 17772.0 | 100.0 |
| 0°-180° | 17772.0 | 100.0 |

Coefficient of Utilization



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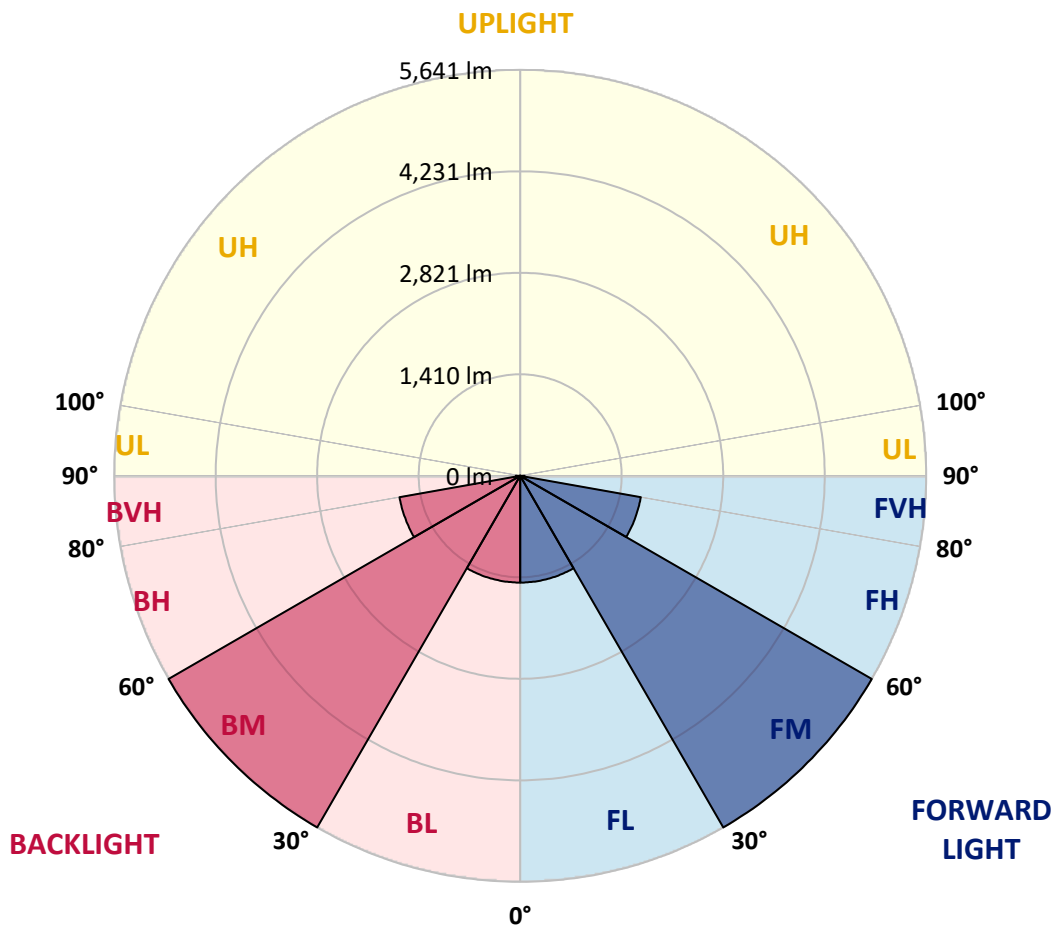
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1483.1 | 8.3 | | | |
| FM (30°-60°) | 5641.5 | 31.7 | | | |
| FH (60°-80°) | 1702.3 | 9.6 | | | G1/1800 |
| FVH (80°-90°) | 59.1 | 0.3 | | | G1/100 |
| BL (0°-30°) | 1483.1 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 5641.5 | 31.7 | B4/8500 | | |
| BH (60°-80°) | 1702.3 | 9.6 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 59.1 | 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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3432.7 | 3432.7 | 3432.7 | 3432.7 | 3432.7 | 3432.7 | 3432.7 | 3432.7 | 3432.7 | 3432.7 | 3432.7 |
| 2.5° | 3412.2 | 3437.3 | 3419.0 | 3435.0 | 3432.7 | 3425.9 | 3414.5 | 3407.6 | 3398.5 | 3412.2 | 3389.4 |
| 5° | 3398.5 | 3419.0 | 3439.5 | 3412.2 | 3412.2 | 3398.5 | 3391.7 | 3378.0 | 3378.0 | 3375.8 | 3373.5 |
| 7.5° | 3421.3 | 3400.8 | 3391.7 | 3396.3 | 3400.8 | 3371.2 | 3391.7 | 3364.4 | 3341.6 | 3357.5 | 3375.8 |
| 10° | 3400.8 | 3409.9 | 3375.8 | 3391.7 | 3366.6 | 3371.2 | 3357.5 | 3375.8 | 3350.7 | 3350.7 | 3350.7 |
| 12.5° | 3421.3 | 3396.3 | 3407.6 | 3396.3 | 3389.4 | 3350.7 | 3368.9 | 3348.4 | 3346.1 | 3368.9 | 3348.4 |
| 15° | 3462.3 | 3421.3 | 3412.2 | 3389.4 | 3396.3 | 3396.3 | 3378.0 | 3380.3 | 3355.3 | 3368.9 | 3373.5 |
| 17.5° | 3448.6 | 3425.9 | 3419.0 | 3391.7 | 3414.5 | 3421.3 | 3387.1 | 3364.4 | 3380.3 | 3378.0 | 3375.8 |
| 20° | 3460.0 | 3469.1 | 3462.3 | 3466.9 | 3476.0 | 3457.8 | 3425.9 | 3394.0 | 3373.5 | 3403.1 | 3400.8 |
| 22.5° | 3532.9 | 3523.8 | 3519.3 | 3514.7 | 3530.6 | 3548.9 | 3505.6 | 3455.5 | 3455.5 | 3476.0 | 3485.1 |
| 25° | 3592.1 | 3589.9 | 3587.6 | 3608.1 | 3662.8 | 3662.8 | 3608.1 | 3544.3 | 3528.4 | 3542.0 | 3530.6 |
| 27.5° | 3678.7 | 3703.8 | 3694.7 | 3731.1 | 3810.8 | 3829.0 | 3756.2 | 3681.0 | 3637.7 | 3621.8 | 3642.3 |
| 30° | 3876.9 | 3847.3 | 3854.1 | 3892.8 | 3963.4 | 4022.7 | 3911.0 | 3831.3 | 3772.1 | 3769.8 | 3778.9 |
| 32.5° | 4009.0 | 4031.8 | 4052.3 | 4088.7 | 4200.3 | 4245.9 | 4111.5 | 3981.7 | 3945.2 | 3924.7 | 3931.5 |
| 35° | 4273.2 | 4252.7 | 4248.2 | 4284.6 | 4396.2 | 4471.4 | 4302.8 | 4188.9 | 4141.1 | 4186.7 | 4186.7 |
| 37.5° | 4523.8 | 4466.8 | 4423.6 | 4471.4 | 4573.9 | 4583.0 | 4439.5 | 4378.0 | 4352.9 | 4405.3 | 4403.1 |
| 40° | 4642.2 | 4637.7 | 4537.5 | 4564.8 | 4701.5 | 4715.1 | 4580.7 | 4507.8 | 4503.3 | 4571.6 | 4640.0 |
| 42.5° | 4765.2 | 4722.0 | 4621.7 | 4640.0 | 4724.2 | 4728.8 | 4601.2 | 4580.7 | 4630.8 | 4696.9 | 4701.5 |
| 45° | 4785.7 | 4749.3 | 4685.5 | 4640.0 | 4701.5 | 4715.1 | 4640.0 | 4653.6 | 4658.2 | 4737.9 | 4737.9 |
| 47.5° | 4826.7 | 4822.2 | 4785.7 | 4751.6 | 4763.0 | 4751.6 | 4703.7 | 4724.2 | 4792.6 | 4831.3 | 4813.1 |
| 50° | 4940.6 | 4892.8 | 4929.2 | 4899.6 | 4901.9 | 4933.8 | 4890.5 | 4911.0 | 4897.3 | 4863.2 | 4840.4 |
| 52.5° | 5191.2 | 5168.4 | 5200.3 | 5220.8 | 5243.6 | 5316.5 | 5266.4 | 5157.0 | 5054.5 | 4963.4 | 4961.1 |
| 55° | 5557.9 | 5573.9 | 5635.4 | 5740.1 | 5829.0 | 5945.2 | 5703.7 | 5441.8 | 5277.7 | 5134.2 | 5143.4 |
| 57.5° | 5904.2 | 5892.8 | 5977.0 | 6216.2 | 6475.9 | 6535.1 | 6061.3 | 5687.8 | 5421.3 | 5330.1 | 5291.4 |
| 59° | 5626.3 | 5680.9 | 5872.3 | 6138.8 | 6546.5 | 6633.1 | 6013.5 | 5487.3 | 5204.9 | 5020.4 | 5052.2 |
| 60° | 5188.9 | 5209.4 | 5380.3 | 5751.5 | 6302.8 | 6450.8 | 5692.3 | 5177.5 | 4801.7 | 4694.6 | 4742.5 |
| 62.5° | 3667.3 | 3651.4 | 3774.4 | 4077.3 | 4571.6 | 4772.1 | 4232.2 | 3870.0 | 3633.2 | 3514.7 | 3542.0 |
| 65° | 1949.8 | 2022.7 | 2072.8 | 2261.9 | 2523.8 | 2735.7 | 2512.5 | 2355.3 | 2223.2 | 2125.2 | 2122.9 |
| 67.5° | 1316.6 | 1307.5 | 1318.9 | 1362.1 | 1451.0 | 1510.2 | 1505.7 | 1425.9 | 1414.5 | 1396.3 | 1416.8 |
| 70° | 1109.3 | 1104.8 | 1084.3 | 1084.3 | 1102.5 | 1116.1 | 1132.1 | 1141.2 | 1159.4 | 1182.2 | 1179.9 |
| 72.5° | 899.7 | 888.4 | 874.7 | 867.9 | 890.6 | 897.5 | 918.0 | 927.1 | 943.0 | 940.7 | 961.2 |
| 75° | 594.5 | 594.5 | 610.5 | 628.7 | 635.5 | 649.2 | 651.5 | 678.8 | 678.8 | 683.4 | 665.1 |
| 77.5° | 332.6 | 323.5 | 334.8 | 353.1 | 369.0 | 394.1 | 419.1 | 439.6 | 451.0 | 446.5 | 446.5 |
| 80° | 193.6 | 193.6 | 205.0 | 225.5 | 246.0 | 268.8 | 287.0 | 303.0 | 314.3 | 309.8 | 300.7 |
| 82.5° | 120.7 | 120.7 | 132.1 | 152.6 | 168.6 | 182.2 | 207.3 | 227.8 | 241.5 | 236.9 | 225.5 |
| 85° | 61.5 | 61.5 | 75.2 | 88.8 | 109.3 | 118.4 | 116.2 | 107.1 | 104.8 | 93.4 | 93.4 |
| 87.5° | 15.9 | 15.9 | 22.8 | 25.1 | 20.5 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 25.1 |
| 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)