

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: P531320

Luminaire Tested: **GALN-SA6C-760-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531320
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-SA6C-760-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 1050mA 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: 35369 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

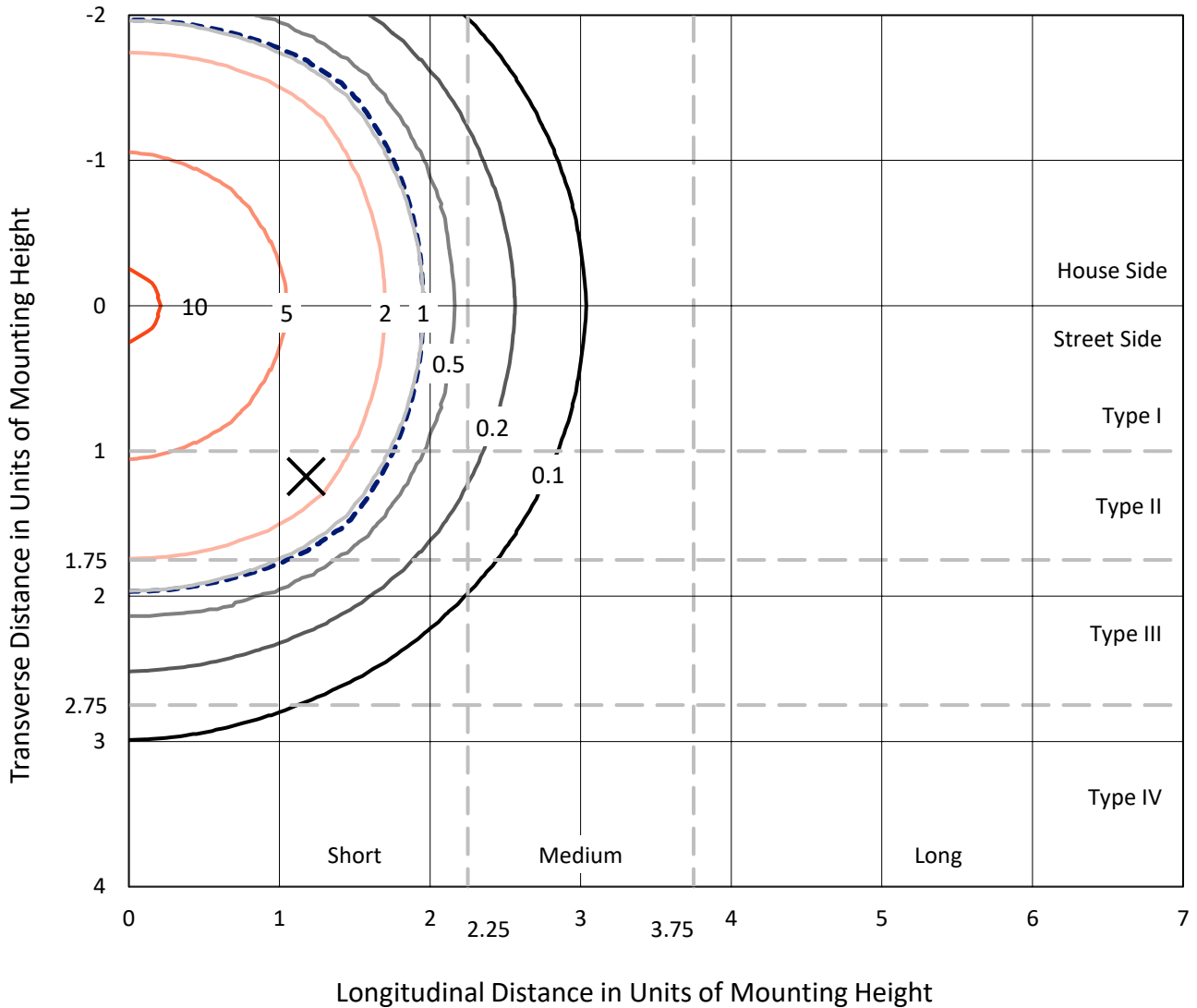
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

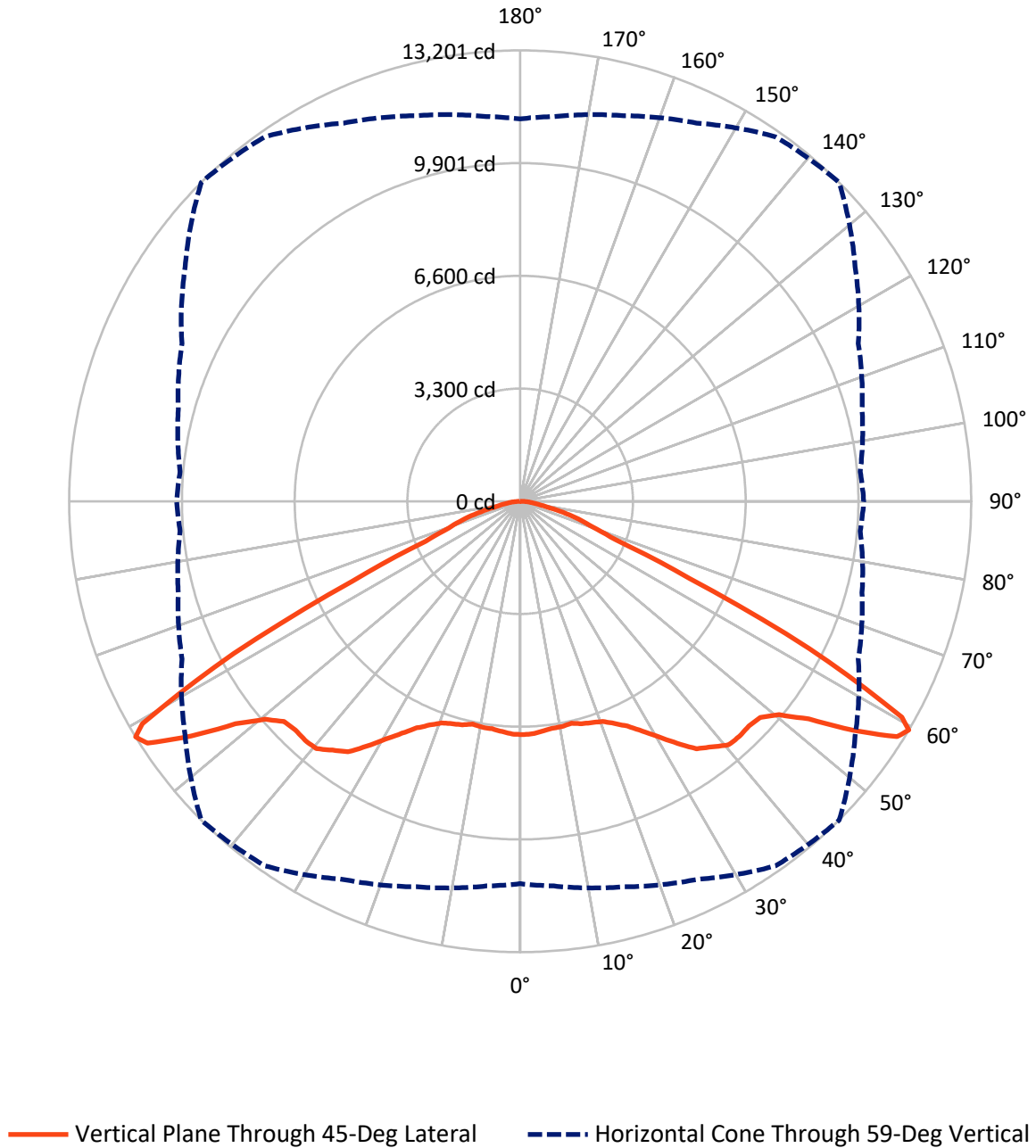
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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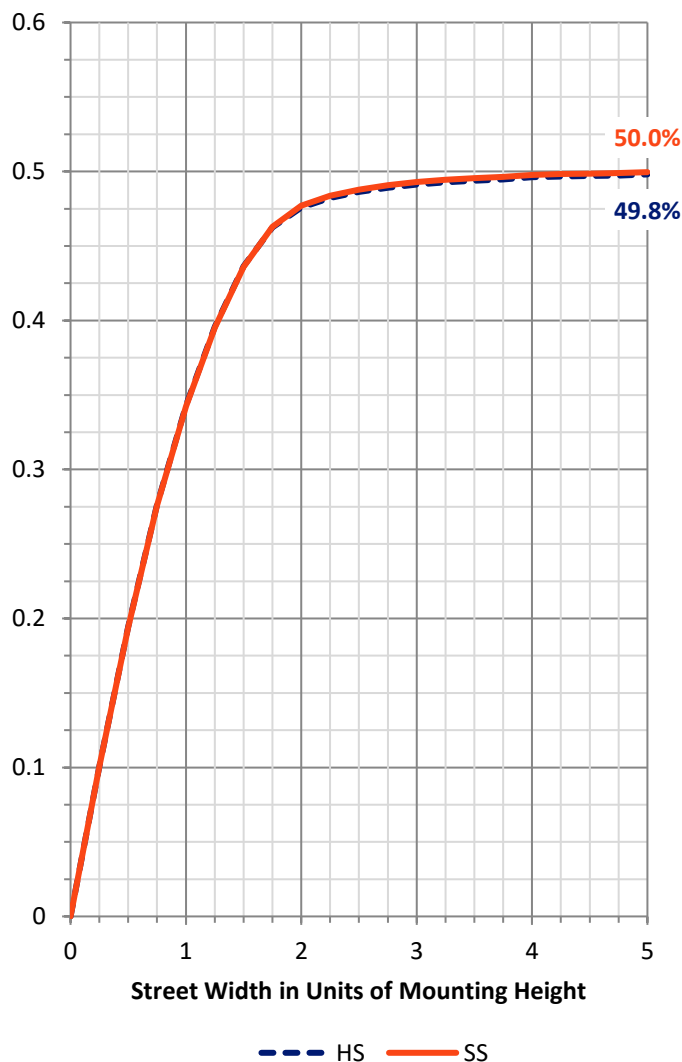
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 17684.5 | 0.0 | 17684.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 17684.5 | 0.0 | 17684.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 35369.0 | 0.0 | 35369.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 644.0 | 1.8 |
| 10°-20° | 1915.1 | 5.4 |
| 20°-30° | 3344.1 | 9.5 |
| 30°-40° | 5340.9 | 15.1 |
| 40°-50° | 7275.4 | 20.6 |
| 50°-60° | 9838.3 | 27.8 |
| 60°-70° | 5395.4 | 15.3 |
| 70°-80° | 1380.3 | 3.9 |
| 80°-90° | 235.4 | 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° | 35369.0 | 100.0 |
| 0°-180° | 35369.0 | 100.0 |

Coefficient of Utilization

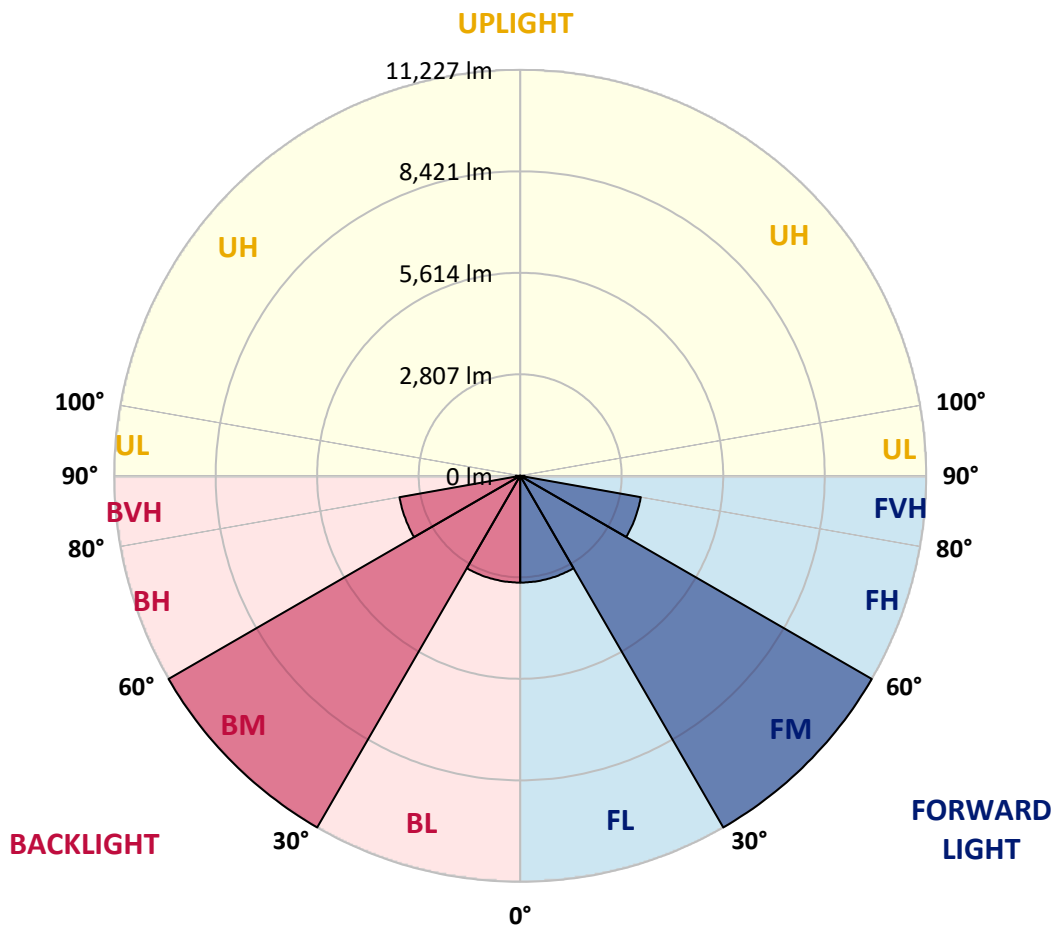


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2951.6 | 8.3 | | | |
| FM (30°-60°) | 11227.4 | 31.7 | | | |
| FH (60°-80°) | 3387.8 | 9.6 | | | G2/5000 |
| FVH (80°-90°) | 117.7 | 0.3 | | | G2/225 |
| BL (0°-30°) | 2951.6 | 8.3 | B4/5000 | | |
| BM (30°-60°) | 11227.4 | 31.7 | B5 | | |
| BH (60°-80°) | 3387.8 | 9.6 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 117.7 | 0.3 | | | G2/225 |
| 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° | 6831.6 | 6831.6 | 6831.6 | 6831.6 | 6831.6 | 6831.6 | 6831.6 | 6831.6 | 6831.6 | 6831.6 | 6831.6 |
| 2.5° | 6790.8 | 6840.7 | 6804.4 | 6836.1 | 6831.6 | 6818.0 | 6795.3 | 6781.7 | 6763.6 | 6790.8 | 6745.5 |
| 5° | 6763.6 | 6804.4 | 6845.2 | 6790.8 | 6790.8 | 6763.6 | 6750.0 | 6722.8 | 6722.8 | 6718.3 | 6713.7 |
| 7.5° | 6808.9 | 6768.1 | 6750.0 | 6759.1 | 6768.1 | 6709.2 | 6750.0 | 6695.6 | 6650.3 | 6682.0 | 6718.3 |
| 10° | 6768.1 | 6786.3 | 6718.3 | 6750.0 | 6700.1 | 6709.2 | 6682.0 | 6718.3 | 6668.4 | 6668.4 | 6668.4 |
| 12.5° | 6808.9 | 6759.1 | 6781.7 | 6759.1 | 6745.5 | 6668.4 | 6704.7 | 6663.9 | 6659.3 | 6704.7 | 6663.9 |
| 15° | 6890.5 | 6808.9 | 6790.8 | 6745.5 | 6759.1 | 6759.1 | 6722.8 | 6727.3 | 6677.5 | 6704.7 | 6713.7 |
| 17.5° | 6863.3 | 6818.0 | 6804.4 | 6750.0 | 6795.3 | 6808.9 | 6740.9 | 6695.6 | 6727.3 | 6722.8 | 6718.3 |
| 20° | 6886.0 | 6904.1 | 6890.5 | 6899.6 | 6917.7 | 6881.5 | 6818.0 | 6754.5 | 6713.7 | 6772.7 | 6768.1 |
| 22.5° | 7031.1 | 7012.9 | 7003.9 | 6994.8 | 7026.5 | 7062.8 | 6976.7 | 6876.9 | 6876.9 | 6917.7 | 6935.9 |
| 25° | 7148.9 | 7144.4 | 7139.9 | 7180.7 | 7289.5 | 7289.5 | 7180.7 | 7053.7 | 7022.0 | 7049.2 | 7026.5 |
| 27.5° | 7321.2 | 7371.1 | 7352.9 | 7425.5 | 7584.1 | 7620.4 | 7475.3 | 7325.7 | 7239.6 | 7207.9 | 7248.7 |
| 30° | 7715.6 | 7656.6 | 7670.2 | 7747.3 | 7887.8 | 8005.7 | 7783.6 | 7624.9 | 7507.1 | 7502.5 | 7520.7 |
| 32.5° | 7978.5 | 8023.8 | 8064.6 | 8137.2 | 8359.3 | 8450.0 | 8182.5 | 7924.1 | 7851.6 | 7810.8 | 7824.4 |
| 35° | 8504.4 | 8463.6 | 8454.5 | 8527.0 | 8749.2 | 8898.8 | 8563.3 | 8336.6 | 8241.4 | 8332.1 | 8332.1 |
| 37.5° | 9003.0 | 8889.7 | 8803.6 | 8898.8 | 9102.8 | 9120.9 | 8835.3 | 8712.9 | 8663.0 | 8767.3 | 8762.8 |
| 40° | 9238.8 | 9229.7 | 9030.2 | 9084.6 | 9356.6 | 9383.8 | 9116.4 | 8971.3 | 8962.2 | 9098.2 | 9234.2 |
| 42.5° | 9483.5 | 9397.4 | 9198.0 | 9234.2 | 9401.9 | 9411.0 | 9157.2 | 9116.4 | 9216.1 | 9347.6 | 9356.6 |
| 45° | 9524.3 | 9451.8 | 9324.9 | 9234.2 | 9356.6 | 9383.8 | 9234.2 | 9261.4 | 9270.5 | 9429.1 | 9429.1 |
| 47.5° | 9605.9 | 9596.9 | 9524.3 | 9456.3 | 9479.0 | 9456.3 | 9361.1 | 9401.9 | 9537.9 | 9615.0 | 9578.7 |
| 50° | 9832.6 | 9737.4 | 9809.9 | 9751.0 | 9755.5 | 9819.0 | 9732.9 | 9773.7 | 9746.5 | 9678.5 | 9633.1 |
| 52.5° | 10331.3 | 10285.9 | 10349.4 | 10390.2 | 10435.5 | 10580.6 | 10480.9 | 10263.3 | 10059.3 | 9877.9 | 9873.4 |
| 55° | 11061.1 | 11092.8 | 11215.2 | 11423.8 | 11600.6 | 11831.8 | 11351.2 | 10829.9 | 10503.5 | 10217.9 | 10236.1 |
| 57.5° | 11750.2 | 11727.5 | 11895.2 | 12371.2 | 12888.0 | 13005.9 | 12063.0 | 11319.5 | 10789.1 | 10607.8 | 10530.7 |
| 59° | 11197.1 | 11305.9 | 11686.7 | 12217.1 | 13028.5 | 13200.8 | 11967.8 | 10920.6 | 10358.5 | 9991.3 | 10054.7 |
| 60° | 10326.7 | 10367.5 | 10707.5 | 11446.4 | 12543.5 | 12838.1 | 11328.6 | 10304.1 | 9556.1 | 9343.0 | 9438.2 |
| 62.5° | 7298.5 | 7266.8 | 7511.6 | 8114.5 | 9098.2 | 9497.1 | 8422.8 | 7702.0 | 7230.5 | 6994.8 | 7049.2 |
| 65° | 3880.5 | 4025.5 | 4125.3 | 4501.5 | 5022.8 | 5444.4 | 5000.2 | 4687.4 | 4424.4 | 4229.5 | 4225.0 |
| 67.5° | 2620.2 | 2602.1 | 2624.7 | 2710.9 | 2887.7 | 3005.5 | 2996.5 | 2837.8 | 2815.1 | 2778.9 | 2819.7 |
| 70° | 2207.7 | 2198.6 | 2157.8 | 2157.8 | 2194.1 | 2221.3 | 2253.0 | 2271.2 | 2307.4 | 2352.8 | 2348.2 |
| 72.5° | 1790.6 | 1768.0 | 1740.8 | 1727.2 | 1772.5 | 1786.1 | 1826.9 | 1845.0 | 1876.8 | 1872.2 | 1913.0 |
| 75° | 1183.2 | 1183.2 | 1214.9 | 1251.2 | 1264.8 | 1292.0 | 1296.5 | 1350.9 | 1350.9 | 1360.0 | 1323.7 |
| 77.5° | 661.9 | 643.7 | 666.4 | 702.7 | 734.4 | 784.3 | 834.1 | 874.9 | 897.6 | 888.5 | 888.5 |
| 80° | 385.3 | 385.3 | 408.0 | 448.8 | 489.6 | 534.9 | 571.2 | 602.9 | 625.6 | 616.5 | 598.4 |
| 82.5° | 240.3 | 240.3 | 262.9 | 303.7 | 335.5 | 362.7 | 412.5 | 453.3 | 480.5 | 471.5 | 448.8 |
| 85° | 122.4 | 122.4 | 149.6 | 176.8 | 217.6 | 235.7 | 231.2 | 213.1 | 208.5 | 185.9 | 185.9 |
| 87.5° | 31.7 | 31.7 | 45.3 | 49.9 | 40.8 | 45.3 | 45.3 | 45.3 | 45.3 | 45.3 | 49.9 |
| 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)