

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: P454018

Luminaire Tested: **GALN-SA5A-760-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-760-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24020 lumens
Efficiency: N/A
Efficacy: 156.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

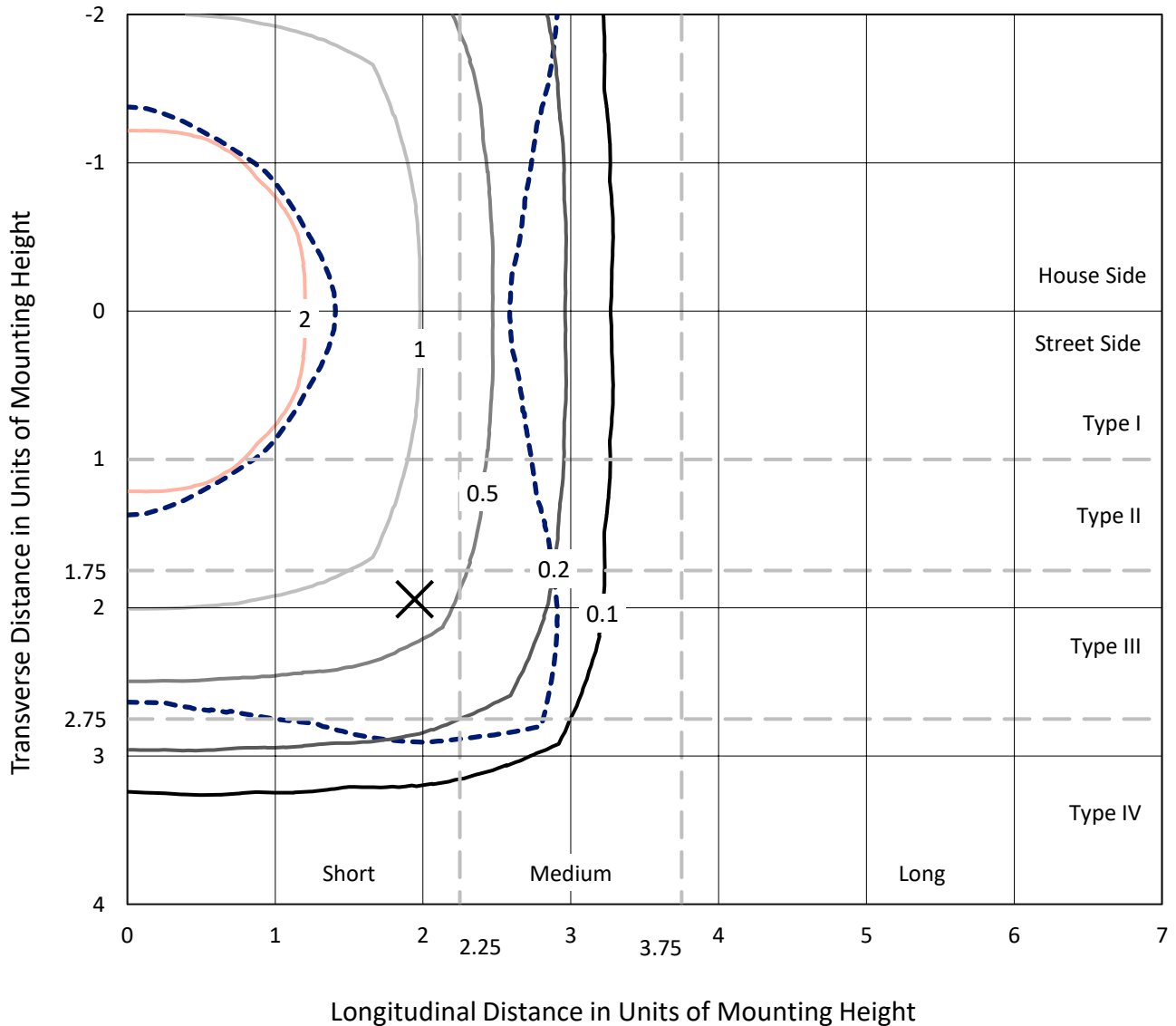
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

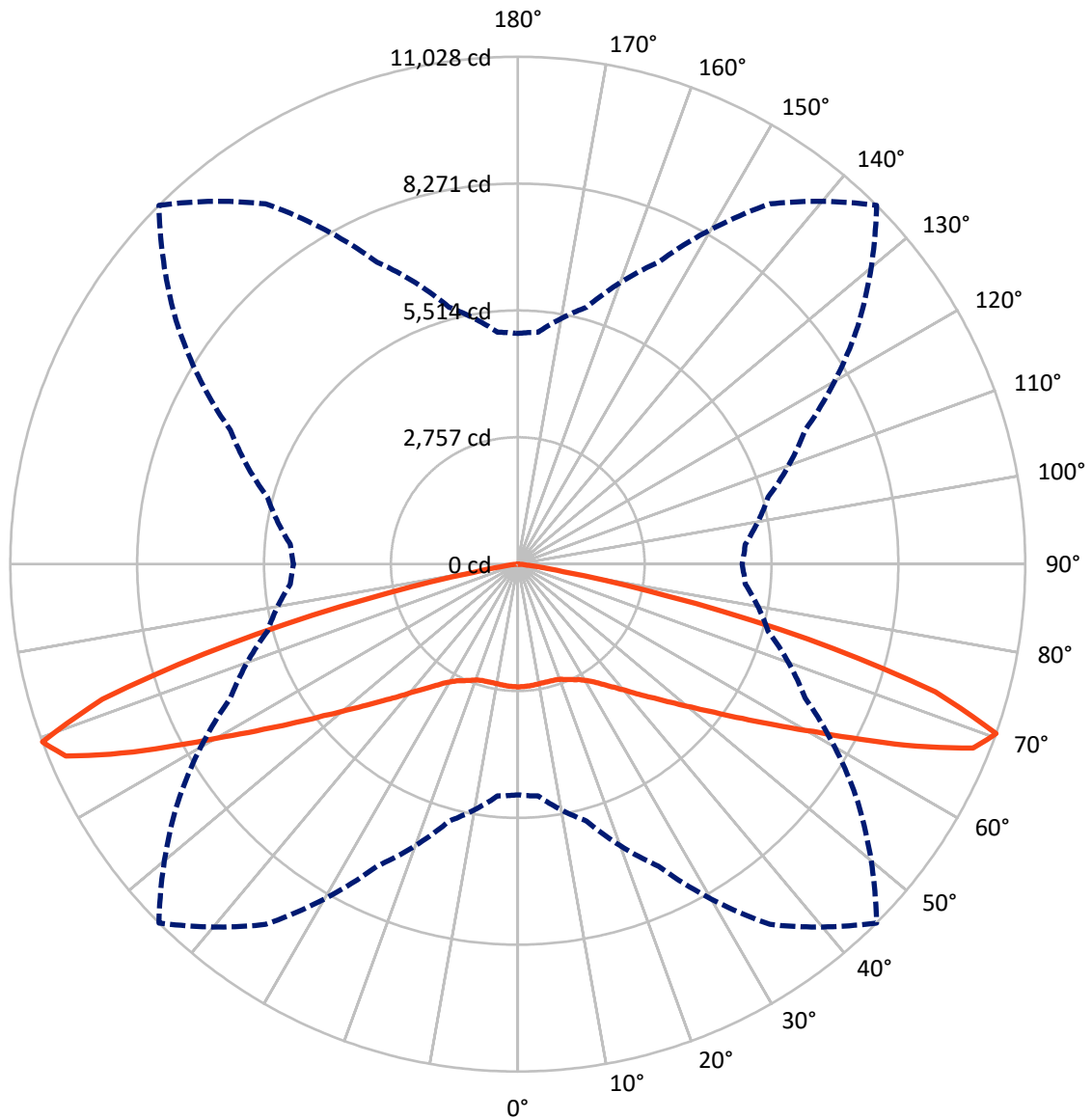
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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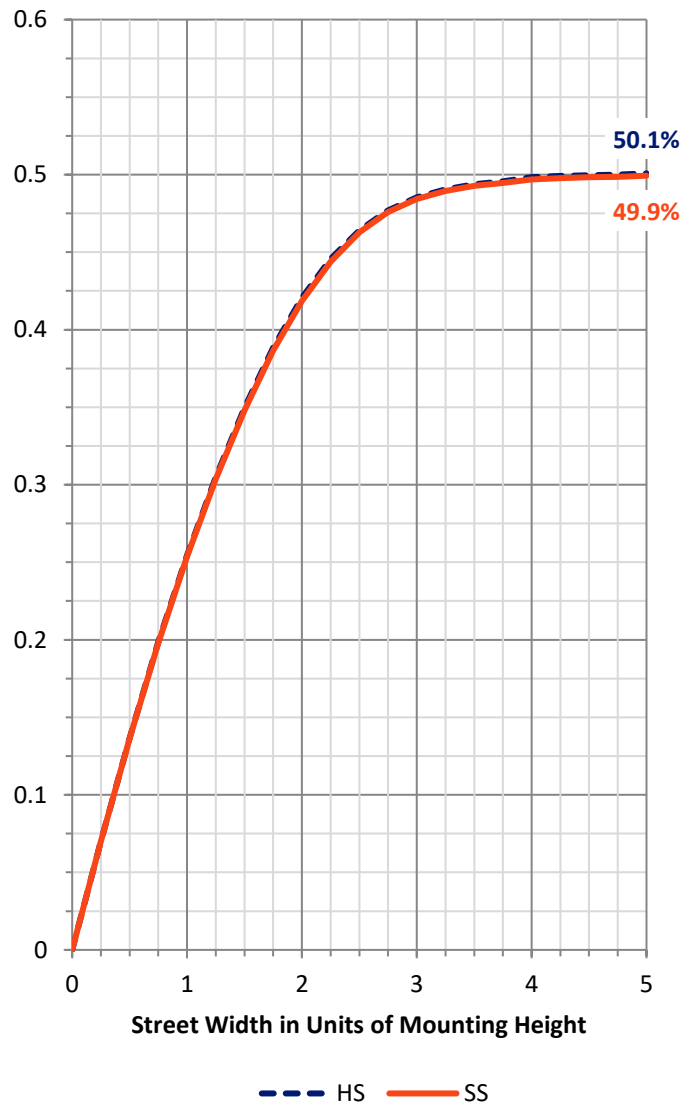
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12010.0 | 0.0 | 12010.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 12010.0 | 0.0 | 12010.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 24020.0 | 0.0 | 24020.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 252.9 | 1.1 |
| 10°-20° | 742.2 | 3.1 |
| 20°-30° | 1269.4 | 5.3 |
| 30°-40° | 2014.9 | 8.4 |
| 40°-50° | 3250.5 | 13.5 |
| 50°-60° | 5288.6 | 22.0 |
| 60°-70° | 7666.6 | 31.9 |
| 70°-80° | 3400.6 | 14.2 |
| 80°-90° | 134.1 | 0.6 |
| 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° | 24020.0 | 100.0 |
| 0°-180° | 24020.0 | 100.0 |



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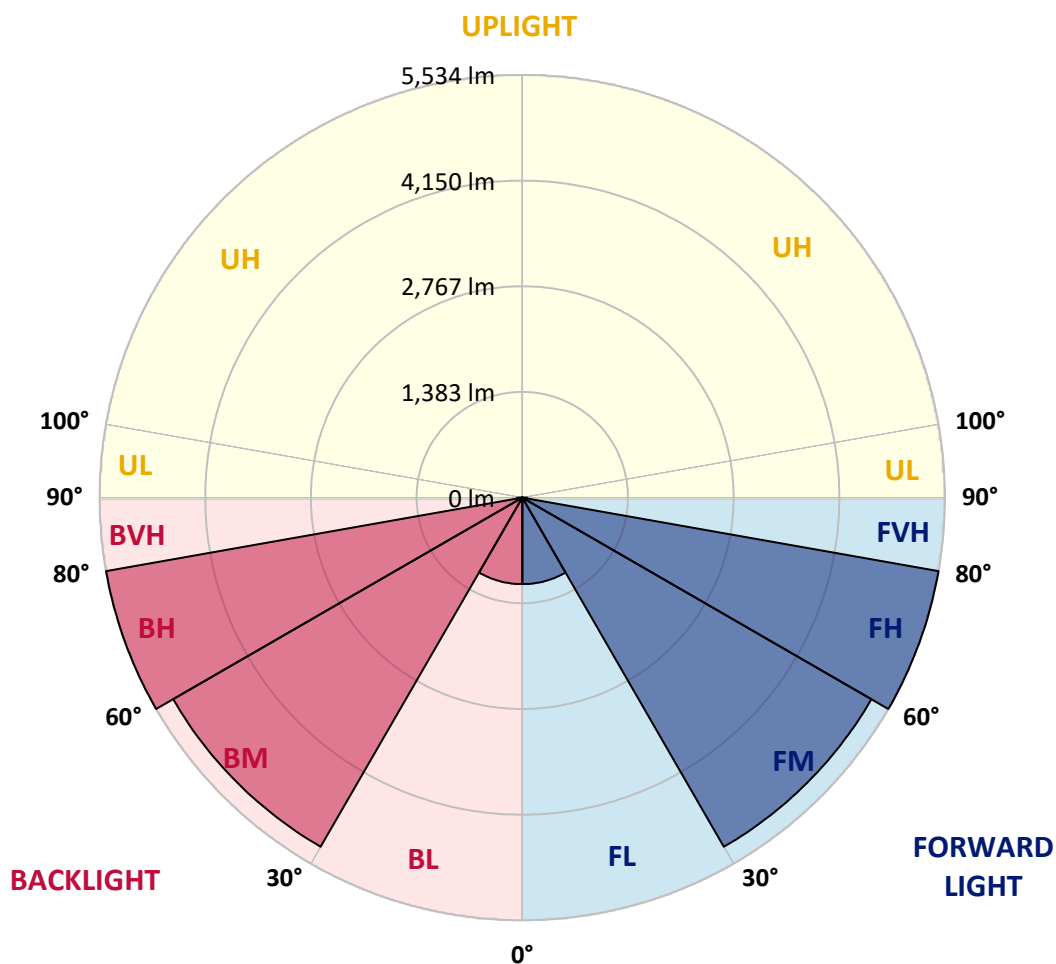
CATALOG NUMBER: GALN-SA5A-760-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1132.3 | 4.7 | | | |
| FM | (30°-60°) | 5277.0 | 22.0 | | | |
| FH | (60°-80°) | 5533.6 | 23.0 | | | G3/7500 |
| FVH | (80°-90°) | 67.1 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 1132.3 | 4.7 | B3/2500 | | |
| BM | (30°-60°) | 5277.0 | 22.0 | B4/8500 | | |
| BH | (60°-80°) | 5533.6 | 23.0 | B5 | | G3/7500 |
| BVH | (80°-90°) | 67.1 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| 0° | 2667.3 | 2667.3 | 2667.3 | 2667.3 | 2667.3 | 2667.3 | 2667.3 | 2667.3 | 2667.3 | 2667.3 | 2667.3 |
| 2.5° | 2667.3 | 2669.8 | 2666.0 | 2663.5 | 2662.2 | 2662.2 | 2661.0 | 2662.2 | 2669.8 | 2671.1 | 2667.3 |
| 5° | 2659.7 | 2662.2 | 2661.0 | 2658.4 | 2657.2 | 2657.2 | 2655.9 | 2654.6 | 2661.0 | 2663.5 | 2662.2 |
| 7.5° | 2649.6 | 2650.9 | 2649.6 | 2648.3 | 2649.6 | 2648.3 | 2644.5 | 2642.0 | 2647.1 | 2647.1 | 2645.8 |
| 10° | 2631.9 | 2634.4 | 2633.1 | 2634.4 | 2636.9 | 2636.9 | 2631.9 | 2626.8 | 2628.1 | 2625.5 | 2625.5 |
| 12.5° | 2610.3 | 2614.1 | 2615.4 | 2620.5 | 2626.8 | 2634.4 | 2623.0 | 2611.6 | 2609.1 | 2607.8 | 2606.5 |
| 15° | 2596.4 | 2600.2 | 2605.3 | 2610.3 | 2621.7 | 2638.2 | 2621.7 | 2604.0 | 2598.9 | 2593.9 | 2591.4 |
| 17.5° | 2592.6 | 2597.7 | 2605.3 | 2612.9 | 2628.1 | 2644.5 | 2630.6 | 2612.9 | 2600.2 | 2592.6 | 2590.1 |
| 20° | 2602.7 | 2606.5 | 2617.9 | 2631.9 | 2653.4 | 2669.8 | 2655.9 | 2636.9 | 2617.9 | 2606.5 | 2602.7 |
| 22.5° | 2623.0 | 2629.3 | 2643.3 | 2668.6 | 2699.0 | 2723.0 | 2704.0 | 2672.4 | 2642.0 | 2626.8 | 2621.7 |
| 25° | 2667.3 | 2672.4 | 2688.8 | 2723.0 | 2758.5 | 2781.2 | 2761.0 | 2724.3 | 2682.5 | 2662.2 | 2655.9 |
| 27.5° | 2734.4 | 2742.0 | 2759.7 | 2800.2 | 2829.3 | 2842.0 | 2828.1 | 2802.8 | 2772.4 | 2750.9 | 2745.8 |
| 30° | 2829.3 | 2838.2 | 2864.8 | 2907.8 | 2926.8 | 2934.4 | 2928.1 | 2911.6 | 2890.1 | 2867.3 | 2862.3 |
| 32.5° | 2957.2 | 2962.3 | 2992.7 | 3033.2 | 3050.9 | 3053.4 | 3045.8 | 3038.2 | 3002.8 | 2964.8 | 2962.3 |
| 35° | 3100.3 | 3109.1 | 3145.8 | 3193.9 | 3210.4 | 3211.7 | 3196.5 | 3185.1 | 3143.3 | 3112.9 | 3112.9 |
| 37.5° | 3290.1 | 3293.9 | 3329.4 | 3383.8 | 3401.5 | 3396.5 | 3388.9 | 3378.8 | 3334.5 | 3295.2 | 3296.5 |
| 40° | 3512.9 | 3520.5 | 3550.9 | 3614.2 | 3614.2 | 3607.9 | 3613.0 | 3605.4 | 3561.1 | 3523.1 | 3524.3 |
| 42.5° | 3777.5 | 3781.3 | 3818.0 | 3885.1 | 3880.1 | 3867.4 | 3872.5 | 3862.3 | 3834.5 | 3791.5 | 3776.3 |
| 45° | 4059.8 | 4075.0 | 4138.3 | 4202.9 | 4192.7 | 4152.2 | 4172.5 | 4170.0 | 4144.6 | 4080.1 | 4083.9 |
| 47.5° | 4400.4 | 4425.7 | 4486.4 | 4563.7 | 4552.3 | 4489.0 | 4511.8 | 4527.0 | 4491.5 | 4420.6 | 4408.0 |
| 50° | 4783.9 | 4800.4 | 4890.3 | 4962.4 | 4952.3 | 4885.2 | 4937.1 | 4939.6 | 4851.0 | 4751.0 | 4751.0 |
| 52.5° | 5192.8 | 5209.3 | 5330.8 | 5443.5 | 5449.8 | 5352.3 | 5394.1 | 5391.6 | 5247.3 | 5115.6 | 5090.3 |
| 55° | 5651.1 | 5658.7 | 5815.7 | 5981.5 | 6017.0 | 5922.0 | 5927.1 | 5876.4 | 5689.1 | 5535.9 | 5522.0 |
| 57.5° | 6124.6 | 6152.4 | 6325.8 | 6541.0 | 6646.1 | 6587.9 | 6561.3 | 6425.8 | 6244.8 | 6068.9 | 6060.0 |
| 60° | 6648.6 | 6649.9 | 6875.2 | 7129.7 | 7342.4 | 7381.6 | 7272.7 | 7091.7 | 6857.5 | 6624.6 | 6614.5 |
| 62.5° | 7012.0 | 7066.4 | 7351.2 | 7781.7 | 8162.7 | 8383.0 | 8095.6 | 7715.8 | 7255.0 | 6879.0 | 6841.1 |
| 65° | 7086.7 | 7123.4 | 7557.6 | 8286.8 | 9065.3 | 9540.0 | 8875.4 | 8067.8 | 7281.6 | 6780.3 | 6755.0 |
| 67.5° | 6482.8 | 6522.1 | 7106.9 | 8226.0 | 9698.3 | 10671.8 | 9381.8 | 7898.1 | 6830.9 | 6210.6 | 6161.3 |
| 70° | 5014.3 | 5058.6 | 5781.5 | 7241.1 | 9557.7 | 11027.5 | 9021.0 | 6889.2 | 5633.4 | 4963.7 | 4873.8 |
| 72.5° | 2666.0 | 2829.3 | 3447.1 | 4970.0 | 7757.6 | 9494.5 | 7396.8 | 5027.0 | 3633.2 | 2969.9 | 2850.9 |
| 75° | 973.5 | 993.8 | 1338.1 | 2204.0 | 4513.0 | 6510.7 | 4686.5 | 2397.7 | 1378.6 | 1064.6 | 1010.2 |
| 77.5° | 402.6 | 401.3 | 440.5 | 665.9 | 1639.4 | 3334.5 | 1829.3 | 703.9 | 439.3 | 406.4 | 401.3 |
| 80° | 238.0 | 238.0 | 262.0 | 277.2 | 431.7 | 1006.4 | 482.3 | 313.9 | 263.3 | 240.5 | 244.3 |
| 82.5° | 106.3 | 112.7 | 165.8 | 174.7 | 208.9 | 276.0 | 232.9 | 200.0 | 172.2 | 119.0 | 107.6 |
| 85° | 58.2 | 50.6 | 87.3 | 91.1 | 100.0 | 102.5 | 110.1 | 108.9 | 100.0 | 58.2 | 59.5 |
| 87.5° | 11.4 | 13.9 | 25.3 | 19.0 | 21.5 | 19.0 | 25.3 | 35.4 | 36.7 | 20.3 | 16.5 |
| 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)