

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: P528200

Luminaire Tested: **GALN-SA3B-735-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528200
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-SA3B-735-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 13424 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

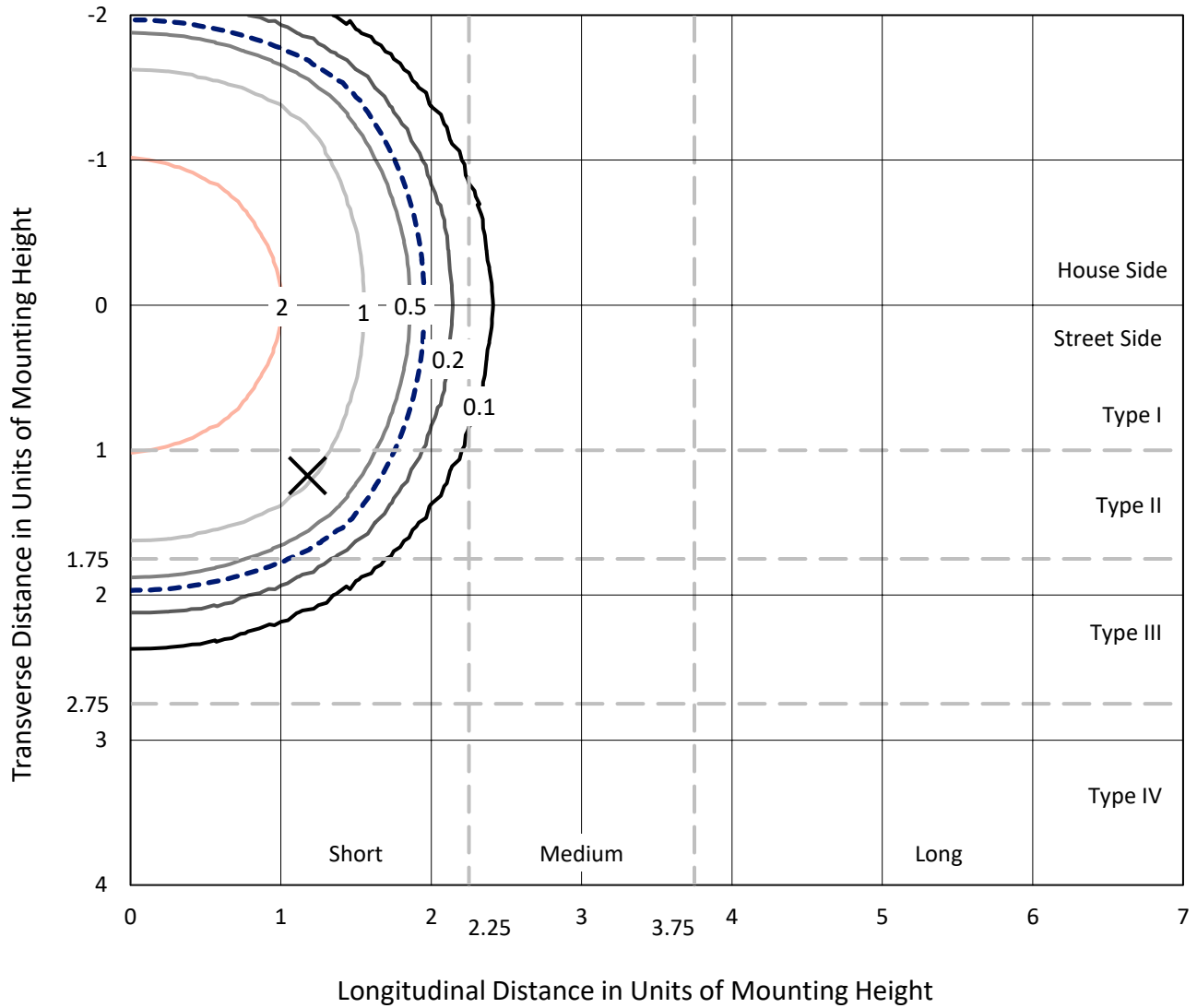
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

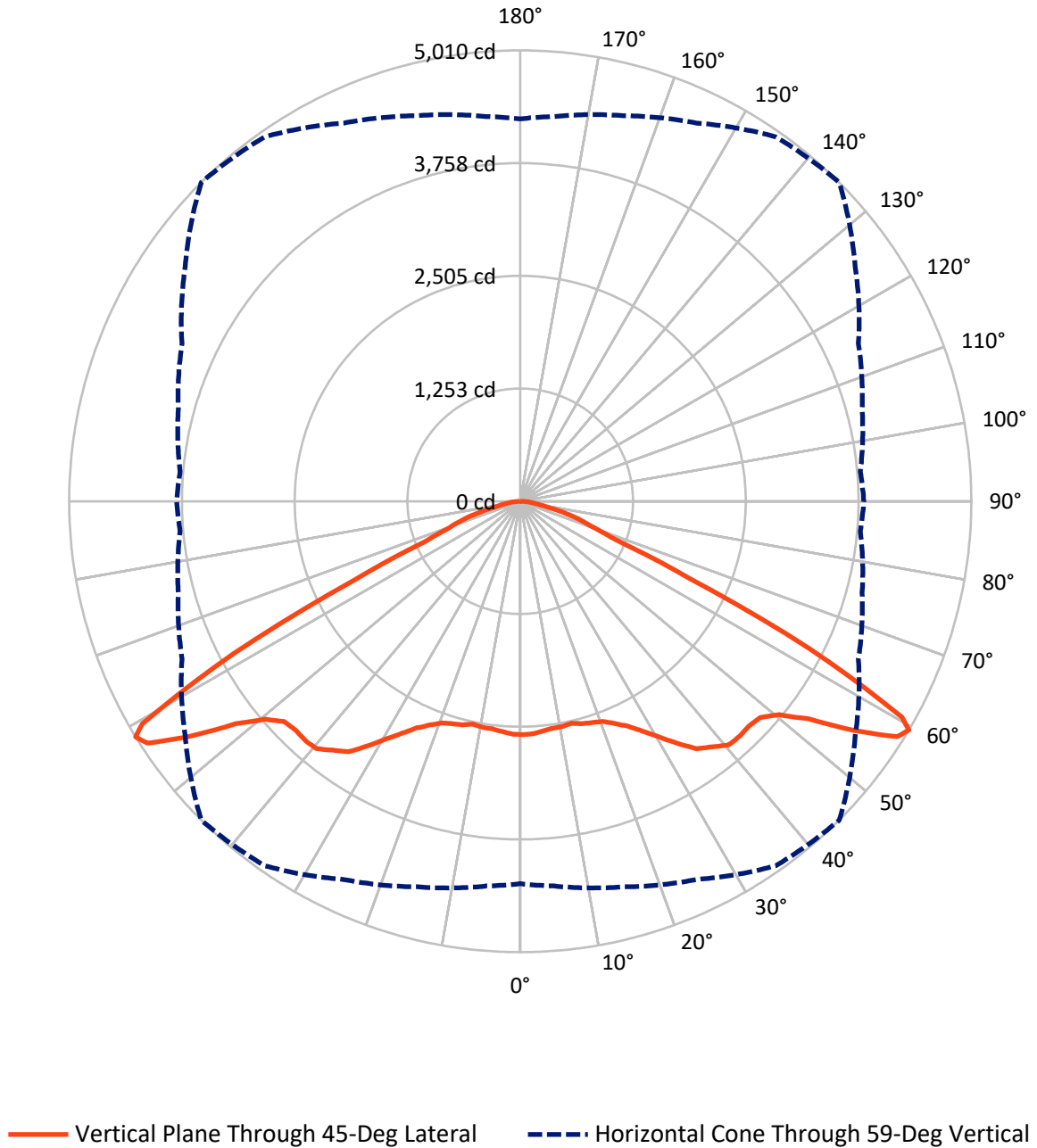
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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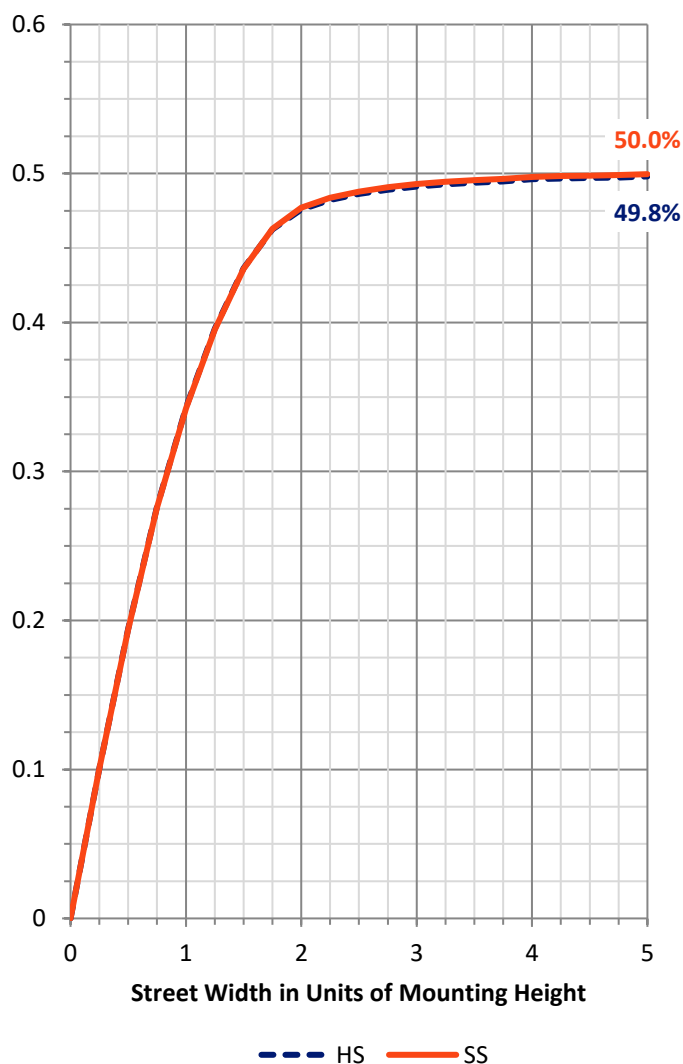
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6712.0 | 0.0 | 6712.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6712.0 | 0.0 | 6712.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 13424.0 | 0.0 | 13424.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 244.4 | 1.8 |
| 10°-20° | 726.9 | 5.4 |
| 20°-30° | 1269.2 | 9.5 |
| 30°-40° | 2027.1 | 15.1 |
| 40°-50° | 2761.3 | 20.6 |
| 50°-60° | 3734.1 | 27.8 |
| 60°-70° | 2047.8 | 15.3 |
| 70°-80° | 523.9 | 3.9 |
| 80°-90° | 89.3 | 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° | 13424.0 | 100.0 |
| 0°-180° | 13424.0 | 100.0 |

Coefficient of Utilization

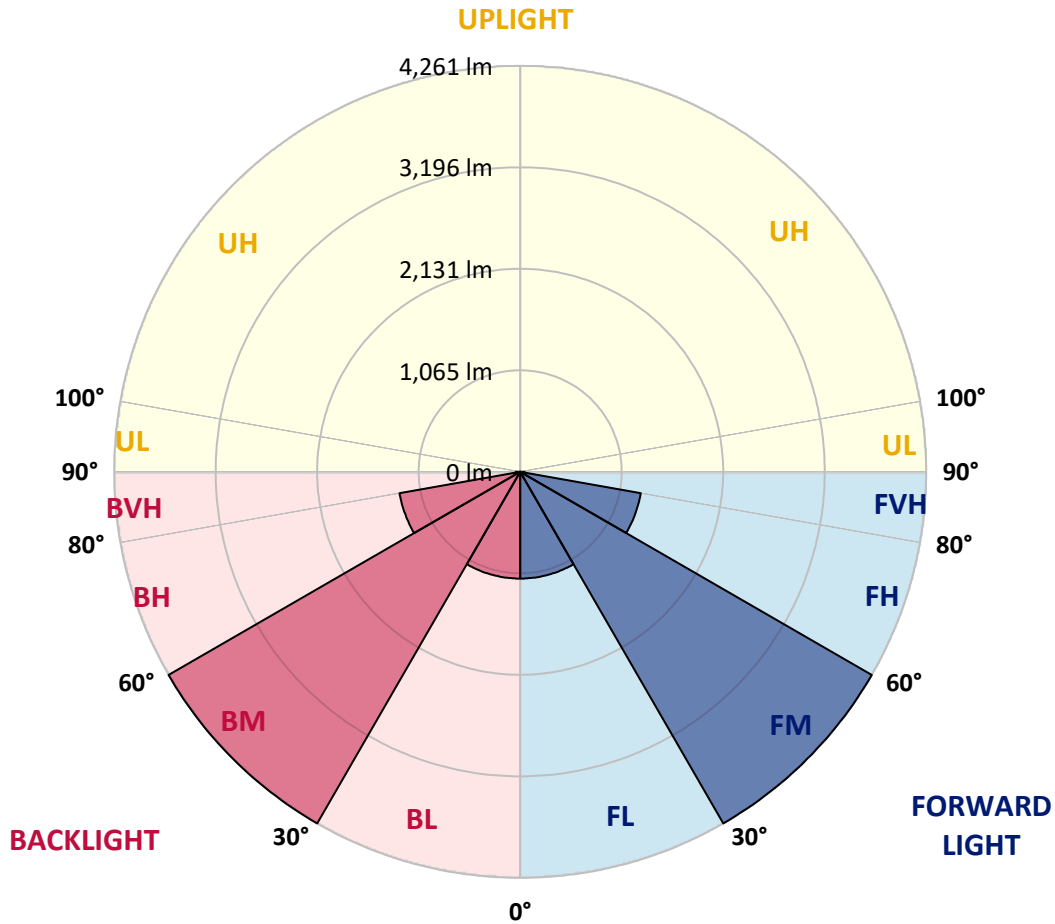


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1120.3 | 8.3 | | | |
| FM (30°-60°) | 4261.2 | 31.7 | | | |
| FH (60°-80°) | 1285.8 | 9.6 | | | G1/1800 |
| FVH (80°-90°) | 44.7 | 0.3 | | | G1/100 |
| BL (0°-30°) | 1120.3 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 4261.2 | 31.7 | B3/5000 | | |
| BH (60°-80°) | 1285.8 | 9.6 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 44.7 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2592.9 | 2592.9 | 2592.9 | 2592.9 | 2592.9 | 2592.9 | 2592.9 | 2592.9 | 2592.9 | 2592.9 | 2592.9 |
| 2.5° | 2577.4 | 2596.3 | 2582.6 | 2594.6 | 2592.9 | 2587.7 | 2579.1 | 2573.9 | 2567.1 | 2577.4 | 2560.2 |
| 5° | 2567.1 | 2582.6 | 2598.0 | 2577.4 | 2577.4 | 2567.1 | 2561.9 | 2551.6 | 2551.6 | 2549.9 | 2548.1 |
| 7.5° | 2584.3 | 2568.8 | 2561.9 | 2565.3 | 2568.8 | 2546.4 | 2561.9 | 2541.3 | 2524.1 | 2536.1 | 2549.9 |
| 10° | 2568.8 | 2575.7 | 2549.9 | 2561.9 | 2543.0 | 2546.4 | 2536.1 | 2549.9 | 2530.9 | 2530.9 | 2530.9 |
| 12.5° | 2584.3 | 2565.3 | 2573.9 | 2565.3 | 2560.2 | 2530.9 | 2544.7 | 2529.2 | 2527.5 | 2544.7 | 2529.2 |
| 15° | 2615.2 | 2584.3 | 2577.4 | 2560.2 | 2565.3 | 2565.3 | 2551.6 | 2553.3 | 2534.4 | 2544.7 | 2548.1 |
| 17.5° | 2604.9 | 2587.7 | 2582.6 | 2561.9 | 2579.1 | 2584.3 | 2558.5 | 2541.3 | 2553.3 | 2551.6 | 2549.9 |
| 20° | 2613.5 | 2620.4 | 2615.2 | 2618.7 | 2625.6 | 2611.8 | 2587.7 | 2563.6 | 2548.1 | 2570.5 | 2568.8 |
| 22.5° | 2668.6 | 2661.7 | 2658.3 | 2654.8 | 2666.9 | 2680.6 | 2647.9 | 2610.1 | 2610.1 | 2625.6 | 2632.4 |
| 25° | 2713.3 | 2711.6 | 2709.9 | 2725.4 | 2766.7 | 2766.7 | 2725.4 | 2677.2 | 2665.1 | 2675.5 | 2666.9 |
| 27.5° | 2778.7 | 2797.6 | 2790.7 | 2818.3 | 2878.5 | 2892.3 | 2837.2 | 2780.4 | 2747.7 | 2735.7 | 2751.2 |
| 30° | 2928.4 | 2906.0 | 2911.2 | 2940.4 | 2993.8 | 3038.5 | 2954.2 | 2894.0 | 2849.2 | 2847.5 | 2854.4 |
| 32.5° | 3028.2 | 3045.4 | 3060.9 | 3088.4 | 3172.7 | 3207.1 | 3105.6 | 3007.5 | 2980.0 | 2964.5 | 2969.7 |
| 35° | 3227.8 | 3212.3 | 3208.8 | 3236.4 | 3320.7 | 3377.4 | 3250.1 | 3164.1 | 3128.0 | 3162.4 | 3162.4 |
| 37.5° | 3417.0 | 3374.0 | 3341.3 | 3377.4 | 3454.9 | 3461.8 | 3353.4 | 3306.9 | 3288.0 | 3327.6 | 3325.8 |
| 40° | 3506.5 | 3503.0 | 3427.3 | 3448.0 | 3551.2 | 3561.5 | 3460.0 | 3405.0 | 3401.5 | 3453.2 | 3504.8 |
| 42.5° | 3599.4 | 3566.7 | 3491.0 | 3504.8 | 3568.4 | 3571.9 | 3475.5 | 3460.0 | 3497.9 | 3547.8 | 3551.2 |
| 45° | 3614.9 | 3587.4 | 3539.2 | 3504.8 | 3551.2 | 3561.5 | 3504.8 | 3515.1 | 3518.5 | 3578.8 | 3578.8 |
| 47.5° | 3645.9 | 3642.4 | 3614.9 | 3589.1 | 3597.7 | 3589.1 | 3552.9 | 3568.4 | 3620.0 | 3649.3 | 3635.5 |
| 50° | 3731.9 | 3695.7 | 3723.3 | 3700.9 | 3702.6 | 3726.7 | 3694.0 | 3709.5 | 3699.2 | 3673.4 | 3656.2 |
| 52.5° | 3921.1 | 3903.9 | 3928.0 | 3943.5 | 3960.7 | 4015.8 | 3977.9 | 3895.3 | 3817.9 | 3749.1 | 3747.4 |
| 55° | 4198.2 | 4210.2 | 4256.7 | 4335.8 | 4402.9 | 4490.6 | 4308.3 | 4110.4 | 3986.5 | 3878.1 | 3885.0 |
| 57.5° | 4459.7 | 4451.1 | 4514.7 | 4695.4 | 4891.5 | 4936.3 | 4578.4 | 4296.2 | 4094.9 | 4026.1 | 3996.8 |
| 59° | 4249.8 | 4291.1 | 4435.6 | 4636.9 | 4944.9 | 5010.3 | 4542.3 | 4144.8 | 3931.5 | 3792.1 | 3816.2 |
| 60° | 3919.4 | 3934.9 | 4063.9 | 4344.4 | 4760.8 | 4872.6 | 4299.7 | 3910.8 | 3626.9 | 3546.1 | 3582.2 |
| 62.5° | 2770.1 | 2758.0 | 2851.0 | 3079.8 | 3453.2 | 3604.6 | 3196.8 | 2923.2 | 2744.3 | 2654.8 | 2675.5 |
| 65° | 1472.8 | 1527.9 | 1565.7 | 1708.5 | 1906.4 | 2066.4 | 1897.8 | 1779.1 | 1679.3 | 1605.3 | 1603.6 |
| 67.5° | 994.5 | 987.6 | 996.2 | 1028.9 | 1096.0 | 1140.7 | 1137.3 | 1077.1 | 1068.5 | 1054.7 | 1070.2 |
| 70° | 837.9 | 834.5 | 819.0 | 819.0 | 832.7 | 843.1 | 855.1 | 862.0 | 875.8 | 893.0 | 891.2 |
| 72.5° | 679.6 | 671.0 | 660.7 | 655.5 | 672.7 | 677.9 | 693.4 | 700.3 | 712.3 | 710.6 | 726.1 |
| 75° | 449.1 | 449.1 | 461.1 | 474.9 | 480.0 | 490.4 | 492.1 | 512.7 | 512.7 | 516.2 | 502.4 |
| 77.5° | 251.2 | 244.3 | 252.9 | 266.7 | 278.7 | 297.7 | 316.6 | 332.1 | 340.7 | 337.2 | 337.2 |
| 80° | 146.2 | 146.2 | 154.8 | 170.3 | 185.8 | 203.0 | 216.8 | 228.8 | 237.4 | 234.0 | 227.1 |
| 82.5° | 91.2 | 91.2 | 99.8 | 115.3 | 127.3 | 137.6 | 156.6 | 172.1 | 182.4 | 178.9 | 170.3 |
| 85° | 46.5 | 46.5 | 56.8 | 67.1 | 82.6 | 89.5 | 87.7 | 80.9 | 79.1 | 70.5 | 70.5 |
| 87.5° | 12.0 | 12.0 | 17.2 | 18.9 | 15.5 | 17.2 | 17.2 | 17.2 | 17.2 | 17.2 | 18.9 |
| 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)