

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: STREETWORKS

Report Number: P652760

Luminaire Tested: **GLAN-SA3C-840-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652760
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: STREETWORKS
Catalog Number: GLAN-SA3C-840-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 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: 14974.8 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

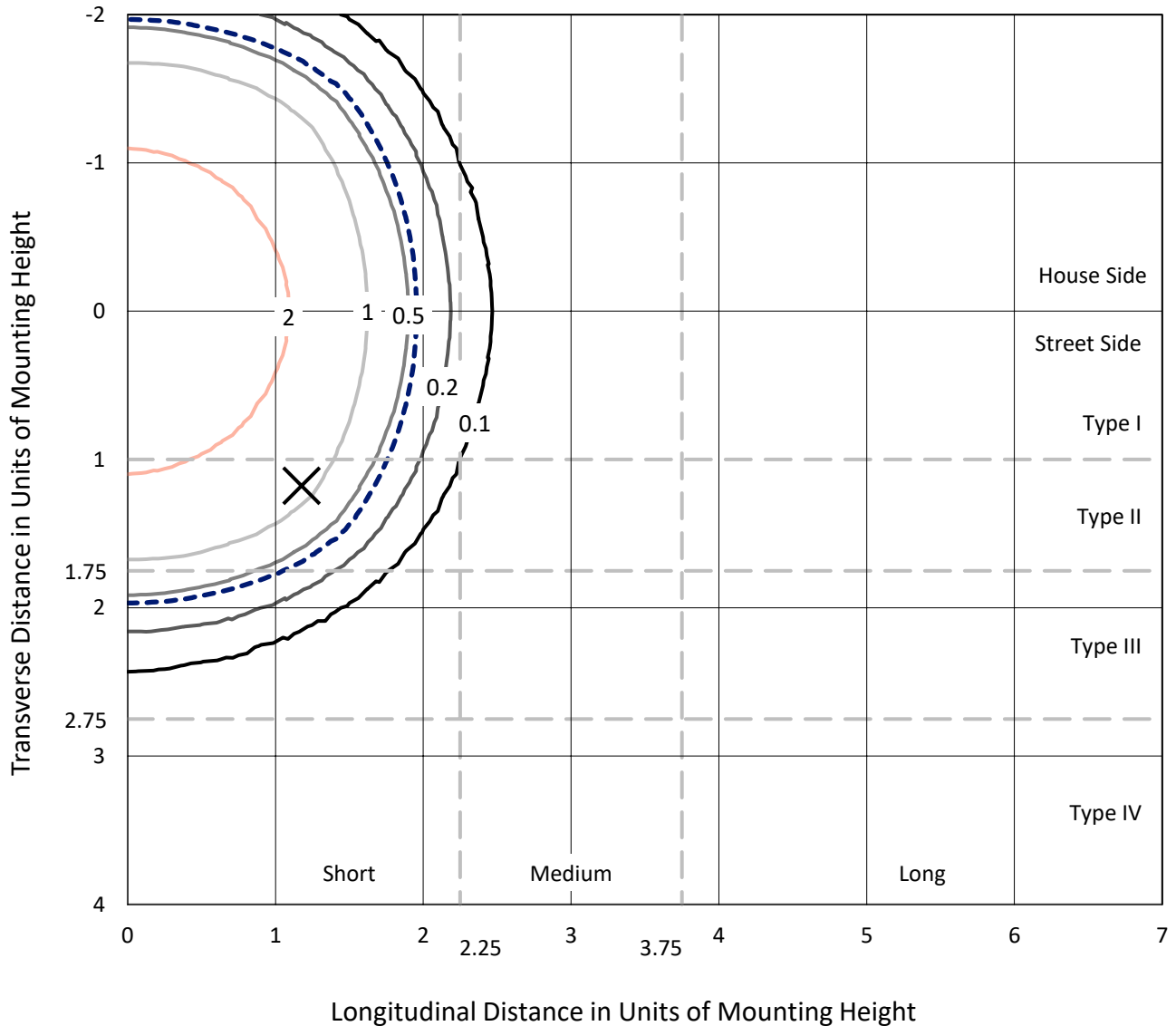
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

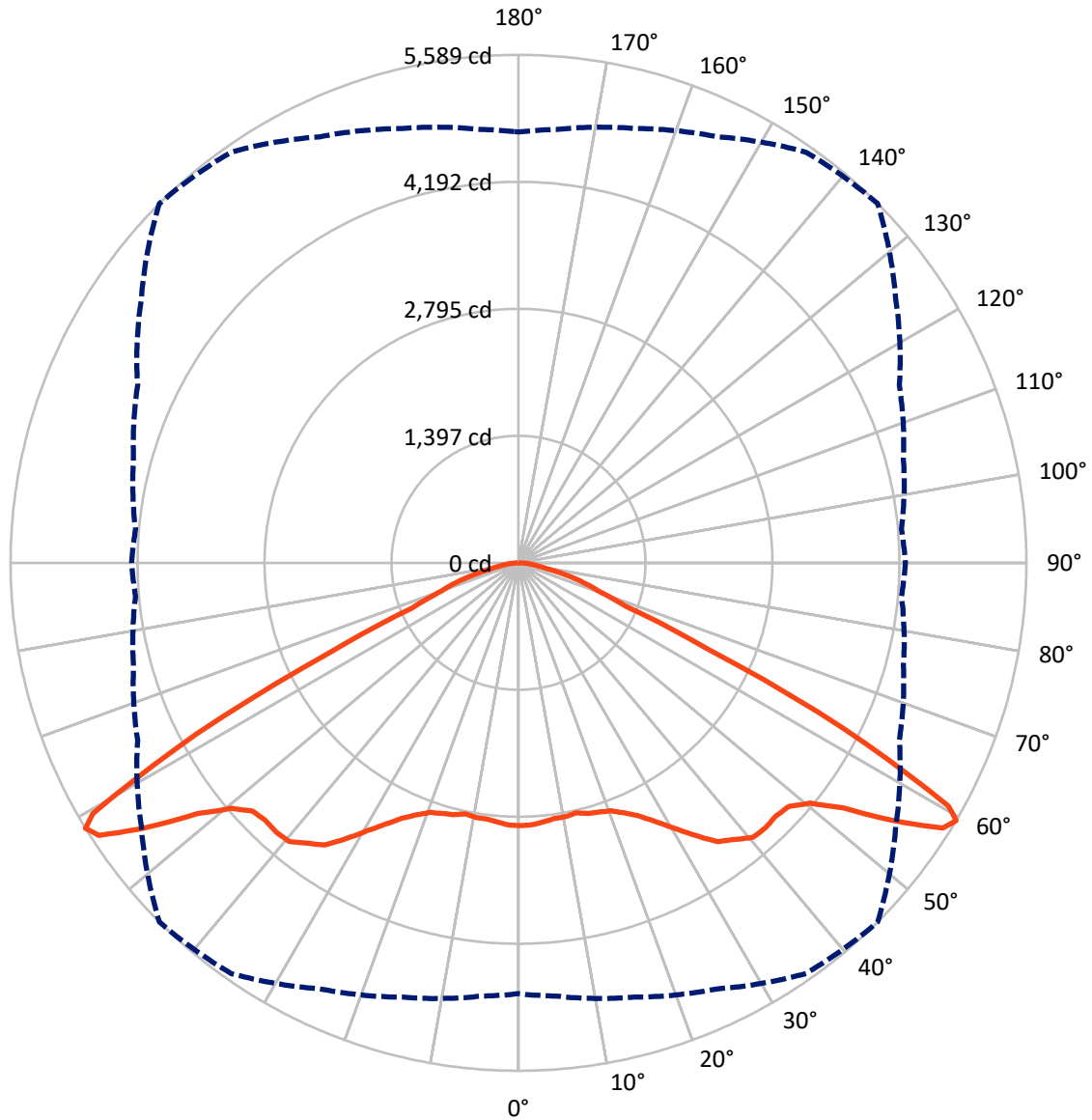
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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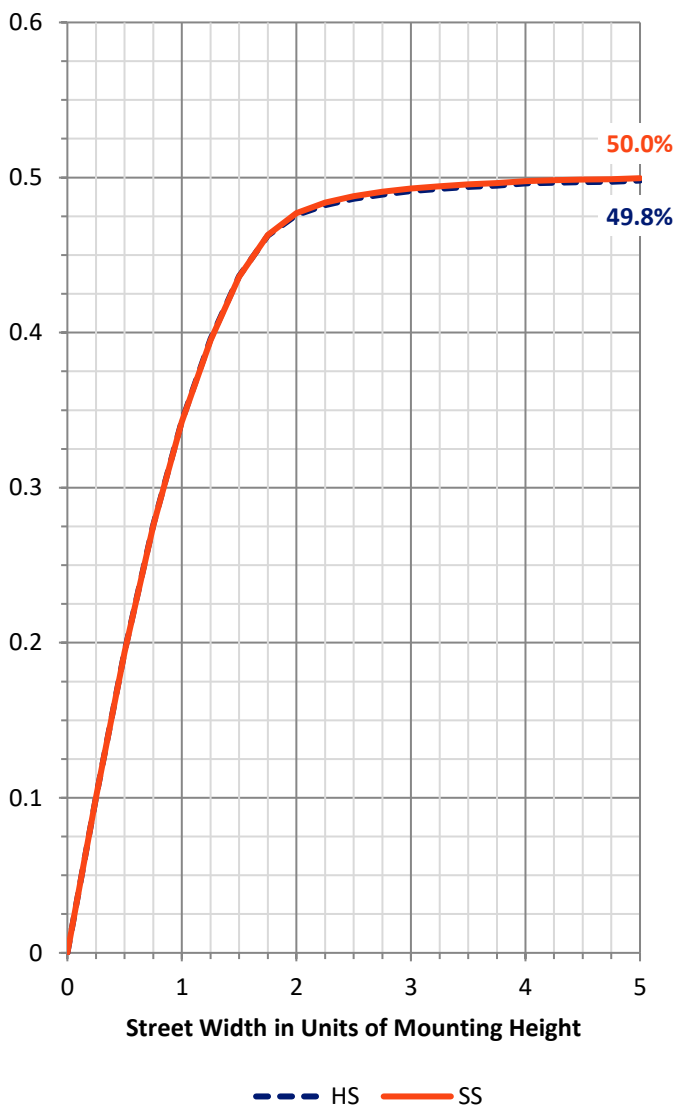
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7487.4 | 0.0 | 7487.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 7487.4 | 0.0 | 7487.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 14974.8 | 0.0 | 14974.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 272.7 | 1.8 |
| 10°-20° | 810.9 | 5.4 |
| 20°-30° | 1415.8 | 9.5 |
| 30°-40° | 2261.3 | 15.1 |
| 40°-50° | 3080.3 | 20.6 |
| 50°-60° | 4165.4 | 27.8 |
| 60°-70° | 2284.3 | 15.3 |
| 70°-80° | 584.4 | 3.9 |
| 80°-90° | 99.7 | 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° | 14974.8 | 100.0 |
| 0°-180° | 14974.8 | 100.0 |

Coefficient of Utilization



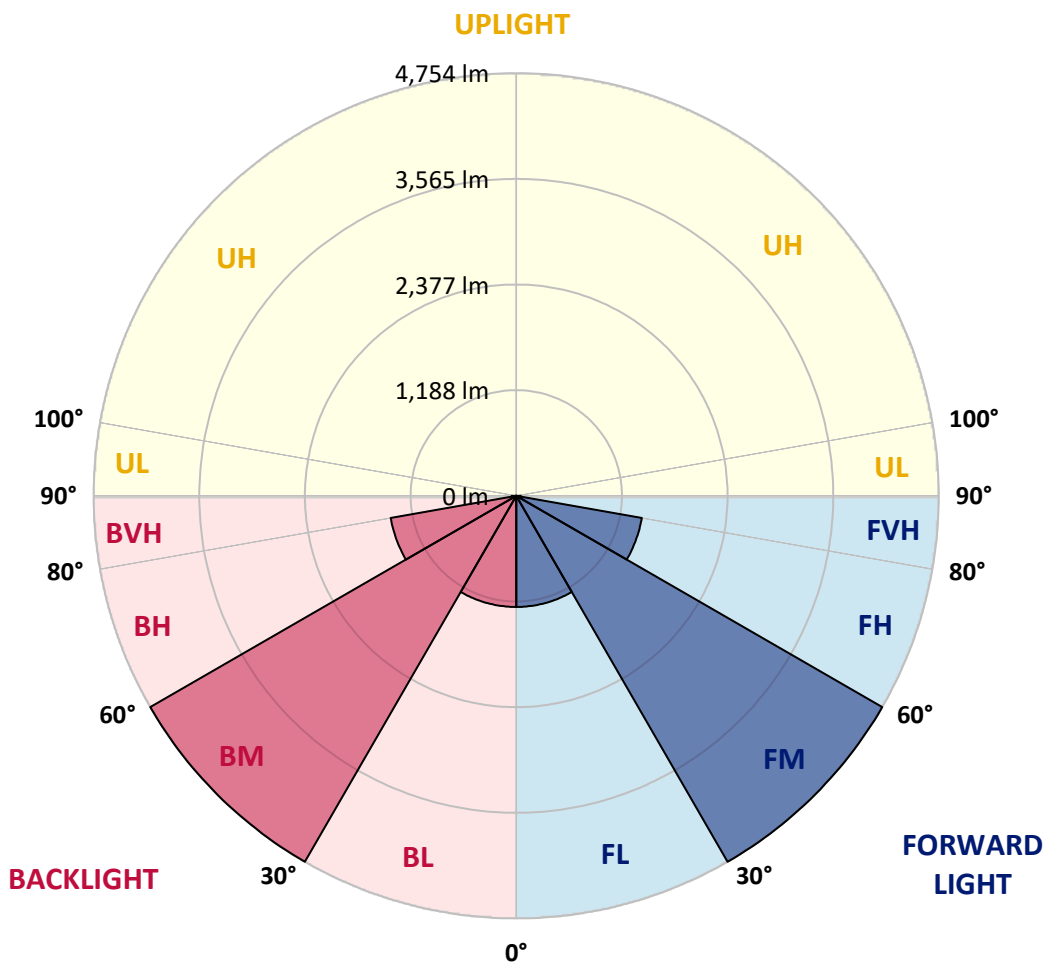
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1249.7 | 8.3 | | | |
| FM (30°-60°) | 4753.5 | 31.7 | | | |
| FH (60°-80°) | 1434.4 | 9.6 | | | G1/1800 |
| FVH (80°-90°) | 49.8 | 0.3 | | | G1/100 |
| BL (0°-30°) | 1249.7 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 4753.5 | 31.7 | B3/5000 | | |
| BH (60°-80°) | 1434.4 | 9.6 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 49.8 | 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° | 2892.5 | 2892.5 | 2892.5 | 2892.5 | 2892.5 | 2892.5 | 2892.5 | 2892.5 | 2892.5 | 2892.5 | 2892.5 |
| 2.5° | 2875.1 | 2896.2 | 2880.9 | 2894.3 | 2892.5 | 2886.6 | 2877.1 | 2871.3 | 2863.6 | 2875.1 | 2856.0 |
| 5° | 2863.6 | 2880.9 | 2898.2 | 2875.1 | 2875.1 | 2863.6 | 2857.9 | 2846.4 | 2846.4 | 2844.4 | 2842.5 |
| 7.5° | 2882.9 | 2865.5 | 2857.9 | 2861.8 | 2865.5 | 2840.6 | 2857.9 | 2834.8 | 2815.7 | 2829.1 | 2844.4 |
| 10° | 2865.5 | 2873.2 | 2844.4 | 2857.9 | 2836.8 | 2840.6 | 2829.1 | 2844.4 | 2823.3 | 2823.3 | 2823.3 |
| 12.5° | 2882.9 | 2861.8 | 2871.3 | 2861.8 | 2856.0 | 2823.3 | 2838.7 | 2821.4 | 2819.5 | 2838.7 | 2821.4 |
| 15° | 2917.3 | 2882.9 | 2875.1 | 2856.0 | 2861.8 | 2861.8 | 2846.4 | 2848.3 | 2827.2 | 2838.7 | 2842.5 |
| 17.5° | 2905.8 | 2886.6 | 2880.9 | 2857.9 | 2877.1 | 2882.9 | 2854.0 | 2834.8 | 2848.3 | 2846.4 | 2844.4 |
| 20° | 2915.5 | 2923.1 | 2917.3 | 2921.2 | 2928.9 | 2913.6 | 2886.6 | 2859.8 | 2842.5 | 2867.5 | 2865.5 |
| 22.5° | 2976.9 | 2969.2 | 2965.4 | 2961.5 | 2975.0 | 2990.3 | 2953.8 | 2911.6 | 2911.6 | 2928.9 | 2936.6 |
| 25° | 3026.8 | 3024.8 | 3023.0 | 3040.2 | 3086.3 | 3086.3 | 3040.2 | 2986.5 | 2973.0 | 2984.5 | 2975.0 |
| 27.5° | 3099.7 | 3120.8 | 3113.1 | 3143.8 | 3211.0 | 3226.4 | 3164.9 | 3101.6 | 3065.2 | 3051.7 | 3069.0 |
| 30° | 3266.7 | 3241.7 | 3247.5 | 3280.2 | 3339.6 | 3389.6 | 3295.5 | 3228.3 | 3178.4 | 3176.5 | 3184.2 |
| 32.5° | 3378.0 | 3397.2 | 3414.5 | 3445.2 | 3539.3 | 3577.6 | 3464.4 | 3355.0 | 3324.3 | 3307.0 | 3312.8 |
| 35° | 3600.7 | 3583.4 | 3579.5 | 3610.2 | 3704.3 | 3767.6 | 3625.6 | 3529.7 | 3489.3 | 3527.7 | 3527.7 |
| 37.5° | 3811.7 | 3763.8 | 3727.3 | 3767.6 | 3854.0 | 3861.7 | 3740.8 | 3689.0 | 3667.9 | 3712.0 | 3710.1 |
| 40° | 3911.6 | 3907.7 | 3823.3 | 3846.3 | 3961.5 | 3973.0 | 3859.8 | 3798.4 | 3794.5 | 3852.1 | 3909.6 |
| 42.5° | 4015.3 | 3978.8 | 3894.3 | 3909.6 | 3980.7 | 3984.5 | 3877.0 | 3859.8 | 3902.0 | 3957.7 | 3961.5 |
| 45° | 4032.5 | 4001.8 | 3948.1 | 3909.6 | 3961.5 | 3973.0 | 3909.6 | 3921.2 | 3925.0 | 3992.2 | 3992.2 |
| 47.5° | 4067.1 | 4063.2 | 4032.5 | 4003.7 | 4013.3 | 4003.7 | 3963.4 | 3980.7 | 4038.2 | 4070.9 | 4055.6 |
| 50° | 4163.0 | 4122.8 | 4153.4 | 4128.5 | 4130.4 | 4157.2 | 4120.8 | 4138.1 | 4126.5 | 4097.8 | 4078.6 |
| 52.5° | 4374.1 | 4355.0 | 4381.9 | 4399.1 | 4418.3 | 4479.7 | 4437.5 | 4345.4 | 4259.0 | 4182.2 | 4180.3 |
| 55° | 4683.2 | 4696.6 | 4748.5 | 4836.7 | 4911.5 | 5009.4 | 4806.0 | 4585.3 | 4447.0 | 4326.2 | 4333.8 |
| 57.5° | 4974.9 | 4965.3 | 5036.3 | 5237.8 | 5456.7 | 5506.5 | 5107.3 | 4792.5 | 4568.0 | 4491.2 | 4458.6 |
| 59° | 4740.7 | 4786.8 | 4948.0 | 5172.6 | 5516.1 | 5589.1 | 5067.0 | 4623.6 | 4385.6 | 4230.2 | 4257.1 |
| 60° | 4372.2 | 4389.5 | 4533.4 | 4846.3 | 5310.7 | 5435.6 | 4796.4 | 4362.6 | 4046.0 | 3955.7 | 3996.0 |
| 62.5° | 3090.1 | 3076.7 | 3180.3 | 3435.6 | 3852.1 | 4021.0 | 3566.1 | 3260.9 | 3061.3 | 2961.5 | 2984.5 |
| 65° | 1643.0 | 1704.4 | 1746.6 | 1905.9 | 2126.6 | 2305.1 | 2117.0 | 1984.6 | 1873.2 | 1790.7 | 1788.8 |
| 67.5° | 1109.4 | 1101.7 | 1111.3 | 1147.8 | 1222.6 | 1272.5 | 1268.6 | 1201.5 | 1191.9 | 1176.6 | 1193.8 |
| 70° | 934.7 | 930.9 | 913.6 | 913.6 | 929.0 | 940.5 | 953.9 | 961.6 | 976.9 | 996.2 | 994.2 |
| 72.5° | 758.2 | 748.6 | 737.1 | 731.2 | 750.4 | 756.2 | 773.5 | 781.2 | 794.6 | 792.6 | 810.0 |
| 75° | 501.0 | 501.0 | 514.4 | 529.7 | 535.5 | 547.0 | 548.9 | 572.0 | 572.0 | 575.8 | 560.4 |
| 77.5° | 280.2 | 272.6 | 282.2 | 297.5 | 310.9 | 332.0 | 353.1 | 370.5 | 380.0 | 376.2 | 376.2 |
| 80° | 163.2 | 163.2 | 172.7 | 190.0 | 207.3 | 226.5 | 241.9 | 255.2 | 264.8 | 261.0 | 253.3 |
| 82.5° | 101.8 | 101.8 | 111.3 | 128.6 | 142.0 | 153.6 | 174.7 | 191.9 | 203.4 | 199.6 | 190.0 |
| 85° | 51.8 | 51.8 | 63.3 | 74.8 | 92.1 | 99.8 | 97.9 | 90.2 | 88.3 | 78.7 | 78.7 |
| 87.5° | 13.5 | 13.5 | 19.2 | 21.1 | 17.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 21.1 |
| 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)