

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: P530068

Luminaire Tested: **GLAN-SA5B-735-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5B-735-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23430 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

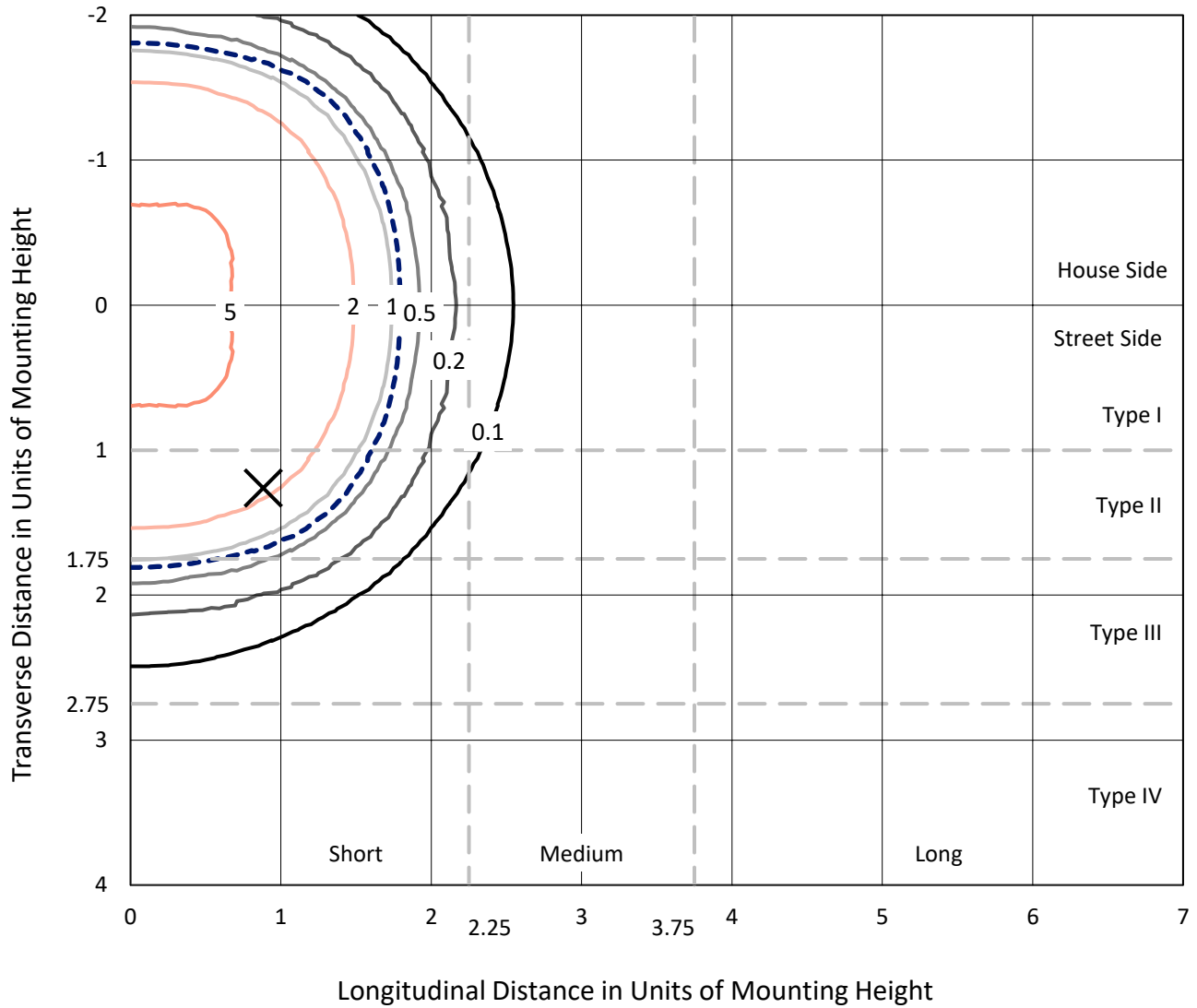
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

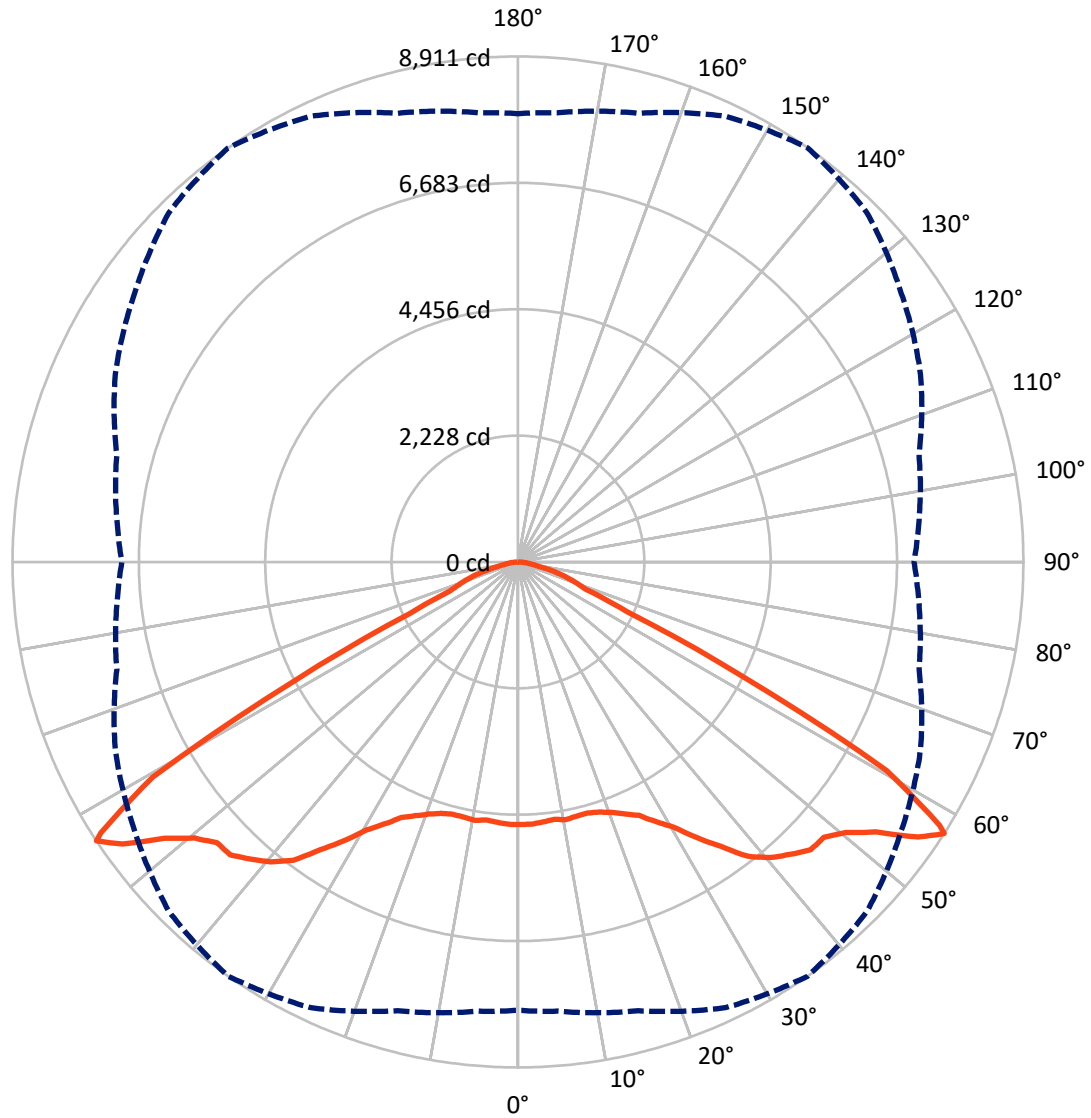
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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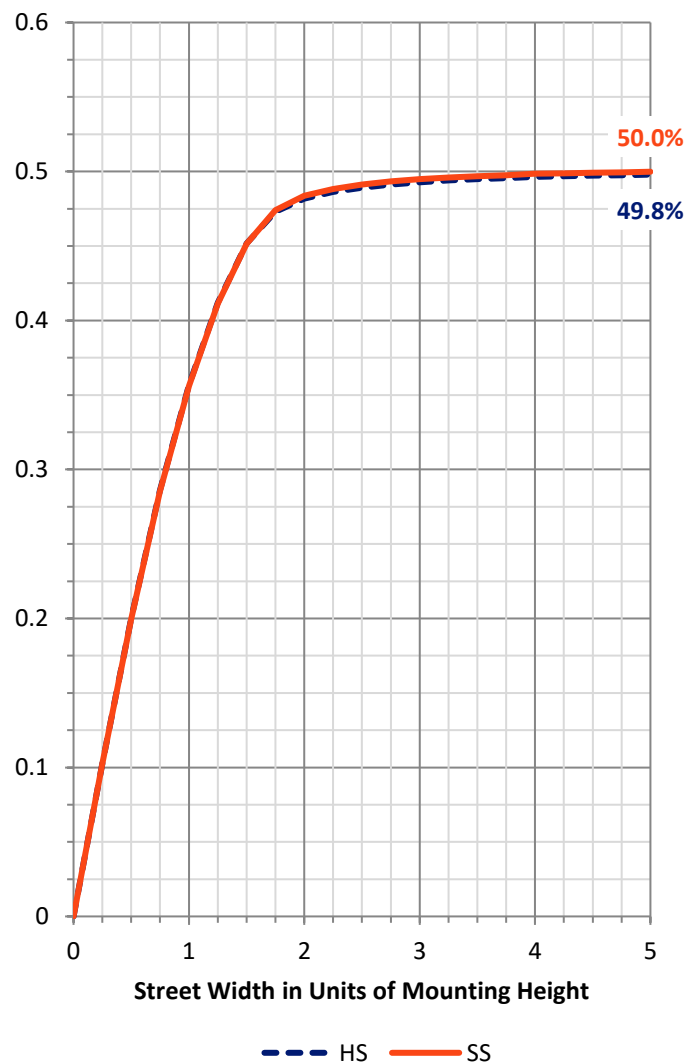
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11715.0 | 0.0 | 11715.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 11715.0 | 0.0 | 11715.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 23430.0 | 0.0 | 23430.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 438.7 | 1.9 |
| 10°-20° | 1299.2 | 5.5 |
| 20°-30° | 2269.1 | 9.7 |
| 30°-40° | 3718.0 | 15.9 |
| 40°-50° | 5451.5 | 23.3 |
| 50°-60° | 6866.6 | 29.3 |
| 60°-70° | 2582.5 | 11.0 |
| 70°-80° | 686.7 | 2.9 |
| 80°-90° | 117.7 | 0.5 |
| 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° | 23430.0 | 100.0 |
| 0°-180° | 23430.0 | 100.0 |



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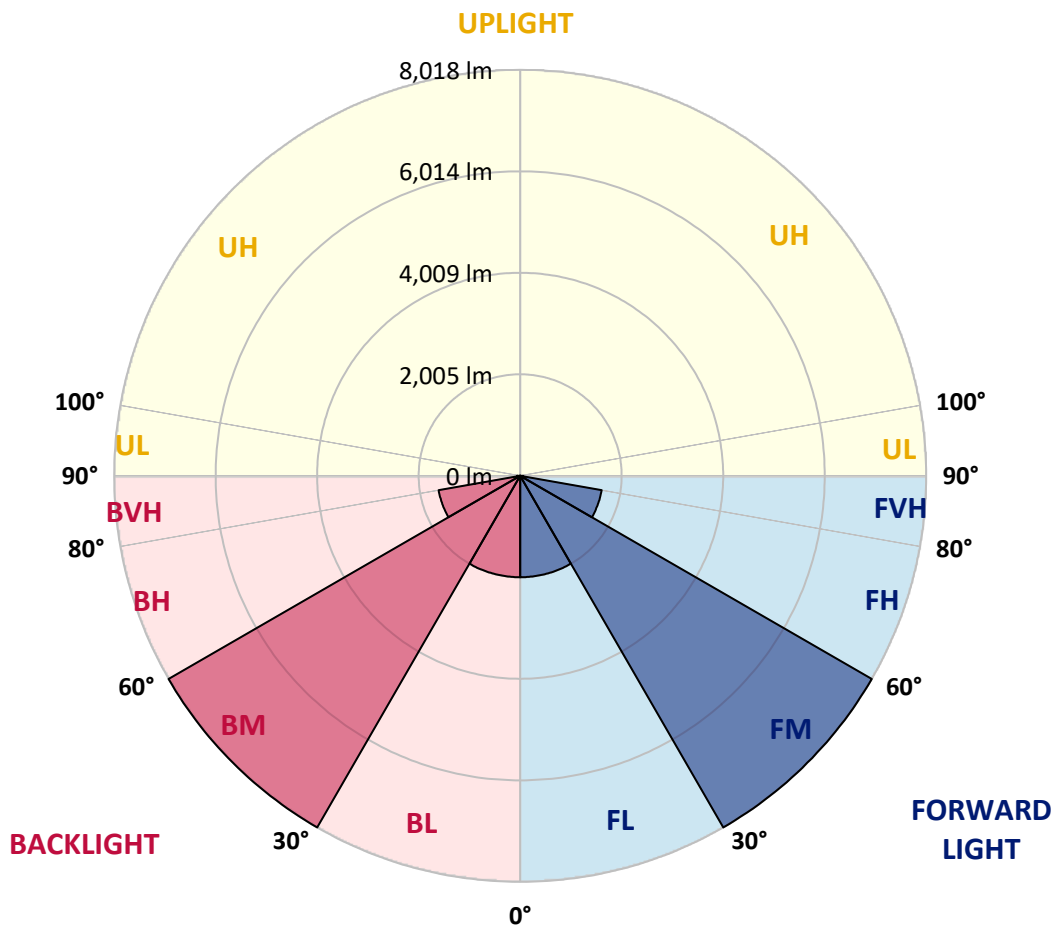
CATALOG NUMBER: GLAN-SA5B-735-U-5MQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2003.5 | 8.6 | | | |
| FM (30°-60°) | 8018.1 | 34.2 | | | |
| FH (60°-80°) | 1634.6 | 7.0 | | | G1/1800 |
| FVH (80°-90°) | 58.9 | 0.3 | | | G1/100 |
| BL (0°-30°) | 2003.5 | 8.6 | B3/2500 | | |
| BM (30°-60°) | 8018.1 | 34.2 | B4/8500 | | |
| BH (60°-80°) | 1634.6 | 7.0 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 58.9 | 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° | 4627.3 | 4627.3 | 4627.3 | 4627.3 | 4627.3 | 4627.3 | 4627.3 | 4627.3 | 4627.3 | 4627.3 | 4627.3 |
| 2.5° | 4604.2 | 4650.3 | 4630.1 | 4618.6 | 4627.3 | 4612.8 | 4589.7 | 4615.7 | 4609.9 | 4586.8 | 4578.2 |
| 5° | 4592.6 | 4627.3 | 4604.2 | 4627.3 | 4604.2 | 4644.6 | 4633.0 | 4589.7 | 4641.7 | 4592.6 | 4609.9 |
| 7.5° | 4584.0 | 4595.5 | 4601.3 | 4589.7 | 4581.1 | 4630.1 | 4604.2 | 4584.0 | 4555.1 | 4546.4 | 4560.9 |
| 10° | 4563.7 | 4592.6 | 4549.3 | 4607.0 | 4618.6 | 4584.0 | 4584.0 | 4546.4 | 4523.3 | 4508.9 | 4558.0 |
| 12.5° | 4615.7 | 4566.6 | 4560.9 | 4589.7 | 4598.4 | 4612.8 | 4572.4 | 4552.2 | 4508.9 | 4514.7 | 4506.0 |
| 15° | 4555.1 | 4575.3 | 4578.2 | 4584.0 | 4592.6 | 4627.3 | 4589.7 | 4546.4 | 4529.1 | 4468.5 | 4474.3 |
| 17.5° | 4578.2 | 4558.0 | 4578.2 | 4644.6 | 4633.0 | 4659.0 | 4618.6 | 4552.2 | 4511.8 | 4477.1 | 4523.3 |
| 20° | 4618.6 | 4609.9 | 4618.6 | 4699.4 | 4713.9 | 4736.9 | 4702.3 | 4641.7 | 4563.7 | 4523.3 | 4546.4 |
| 22.5° | 4661.9 | 4656.1 | 4661.9 | 4739.8 | 4823.5 | 4852.4 | 4817.8 | 4676.3 | 4635.9 | 4560.9 | 4534.9 |
| 25° | 4739.8 | 4745.6 | 4806.2 | 4892.8 | 4947.7 | 5002.5 | 4939.0 | 4838.0 | 4708.1 | 4661.9 | 4607.0 |
| 27.5° | 4913.0 | 4927.5 | 4962.1 | 5089.1 | 5184.4 | 5233.4 | 5144.0 | 5005.4 | 4924.6 | 4829.3 | 4814.9 |
| 30° | 5126.6 | 5126.6 | 5187.3 | 5296.9 | 5426.8 | 5501.9 | 5392.2 | 5227.7 | 5129.5 | 5077.6 | 5045.8 |
| 32.5° | 5409.5 | 5377.8 | 5400.9 | 5594.3 | 5796.3 | 5859.8 | 5712.6 | 5510.6 | 5354.7 | 5285.4 | 5262.3 |
| 35° | 5652.0 | 5672.2 | 5724.2 | 5932.0 | 6157.2 | 6304.4 | 6073.4 | 5810.8 | 5652.0 | 5588.5 | 5577.0 |
| 37.5° | 5966.6 | 6001.3 | 6027.3 | 6313.0 | 6584.4 | 6639.2 | 6417.0 | 6206.2 | 6012.8 | 5960.9 | 5932.0 |
| 40° | 6411.2 | 6388.1 | 6396.8 | 6607.5 | 6852.8 | 6887.5 | 6668.1 | 6518.0 | 6359.2 | 6327.5 | 6327.5 |
| 42.5° | 6777.8 | 6751.8 | 6780.7 | 6858.6 | 7046.2 | 7020.3 | 6899.0 | 6789.3 | 6722.9 | 6688.3 | 6722.9 |
| 45° | 7000.1 | 6994.3 | 7046.2 | 7104.0 | 7236.8 | 7150.2 | 7054.9 | 7072.2 | 7008.7 | 6951.0 | 6948.1 |
| 47.5° | 7242.5 | 7205.0 | 7268.5 | 7355.1 | 7254.1 | 7213.7 | 7207.9 | 7245.4 | 7225.2 | 7124.2 | 7092.4 |
| 50° | 7360.9 | 7346.4 | 7447.5 | 7548.5 | 7493.7 | 7401.3 | 7421.5 | 7482.1 | 7222.3 | 7086.7 | 7008.7 |
| 52.5° | 7678.4 | 7681.3 | 7874.7 | 7929.5 | 7906.5 | 7770.8 | 7814.1 | 7649.5 | 7343.6 | 7153.0 | 7161.7 |
| 55° | 8177.8 | 8157.6 | 8374.1 | 8535.7 | 8561.7 | 8388.5 | 8180.7 | 7949.8 | 7565.8 | 7372.4 | 7314.7 |
| 57° | 7903.6 | 7949.8 | 8189.3 | 8668.5 | 8911.0 | 8706.0 | 8252.8 | 7831.4 | 7320.5 | 7086.7 | 6982.7 |
| 57.5° | 7537.0 | 7612.0 | 8027.7 | 8509.8 | 8763.8 | 8746.5 | 8163.4 | 7612.0 | 7155.9 | 6792.2 | 6800.9 |
| 60° | 5522.1 | 5536.5 | 5911.8 | 6676.8 | 7470.6 | 7487.9 | 6777.8 | 6047.5 | 5539.4 | 5144.0 | 5198.8 |
| 62.5° | 2912.6 | 2979.0 | 3129.1 | 3743.9 | 4431.0 | 4598.4 | 4168.3 | 3793.0 | 3354.3 | 3054.0 | 3082.9 |
| 65° | 1541.5 | 1532.8 | 1605.0 | 1778.2 | 2115.9 | 2202.5 | 2144.8 | 1847.4 | 1694.4 | 1645.4 | 1648.3 |
| 67.5° | 1252.8 | 1267.2 | 1258.6 | 1267.2 | 1290.3 | 1327.8 | 1319.2 | 1330.7 | 1339.4 | 1353.8 | 1350.9 |
| 70° | 1062.3 | 1062.3 | 1068.0 | 1070.9 | 1070.9 | 1088.3 | 1108.5 | 1146.0 | 1148.9 | 1163.3 | 1169.1 |
| 72.5° | 837.1 | 831.3 | 840.0 | 860.2 | 863.1 | 877.5 | 906.4 | 929.5 | 938.2 | 938.2 | 920.8 |
| 75° | 568.7 | 574.4 | 586.0 | 603.3 | 620.6 | 646.6 | 669.7 | 684.1 | 689.9 | 681.2 | 672.6 |
| 77.5° | 320.4 | 326.2 | 334.8 | 360.8 | 381.0 | 404.1 | 430.1 | 444.5 | 459.0 | 461.9 | 444.5 |
| 80° | 190.5 | 190.5 | 205.0 | 225.2 | 248.2 | 271.3 | 294.4 | 311.8 | 317.5 | 317.5 | 308.9 |
| 82.5° | 115.5 | 118.4 | 129.9 | 150.1 | 170.3 | 184.7 | 205.0 | 219.4 | 230.9 | 228.0 | 222.3 |
| 85° | 60.6 | 60.6 | 72.2 | 89.5 | 103.9 | 118.4 | 118.4 | 109.7 | 103.9 | 89.5 | 83.7 |
| 87.5° | 20.2 | 17.3 | 23.1 | 23.1 | 20.2 | 23.1 | 23.1 | 26.0 | 26.0 | 26.0 | 26.0 |
| 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)