

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: P457846

Luminaire Tested: **GLAN-SA9B-727-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457846
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: STREETWORKS
Catalog Number: GLAN-SA9B-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45247 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

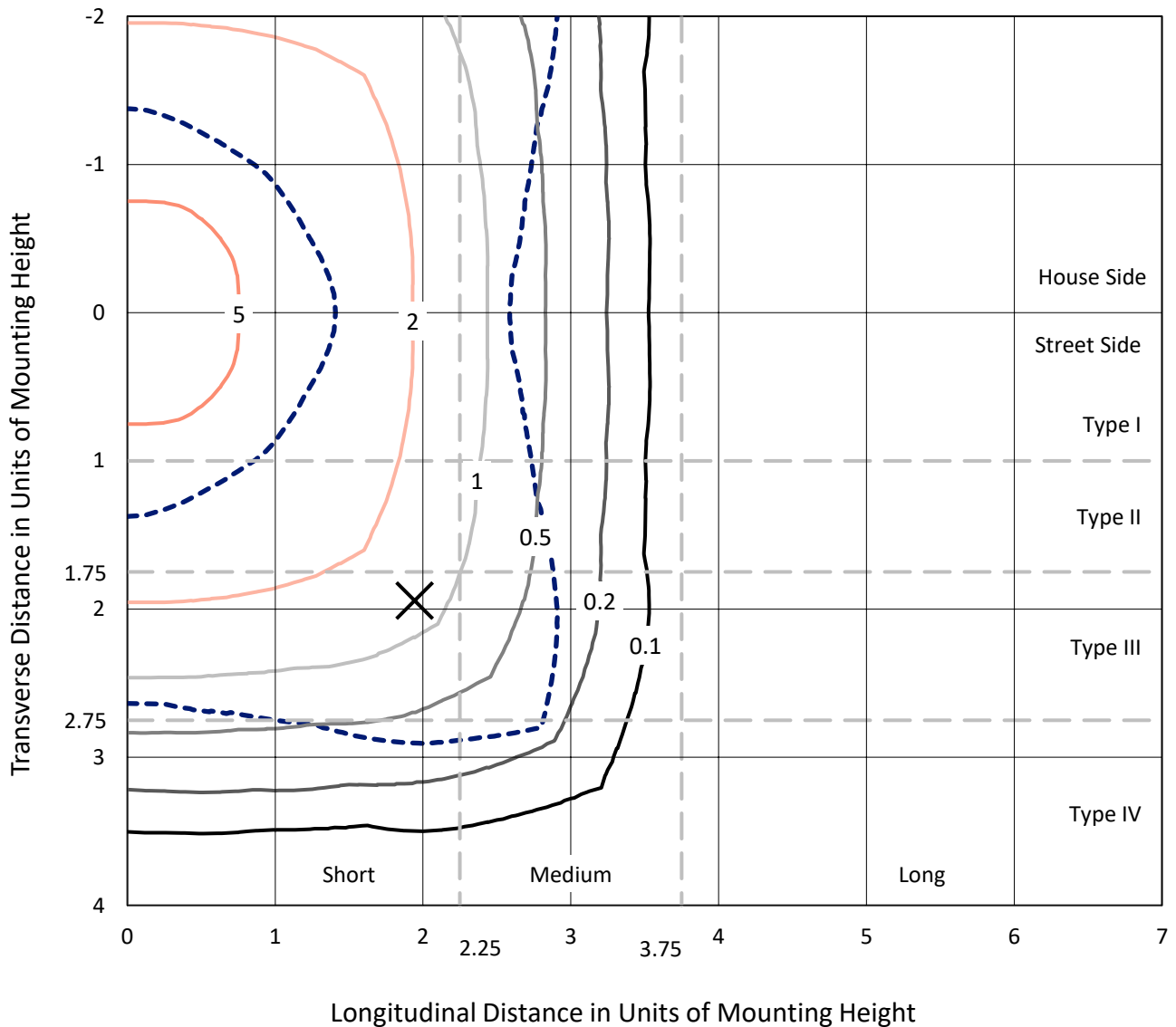
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

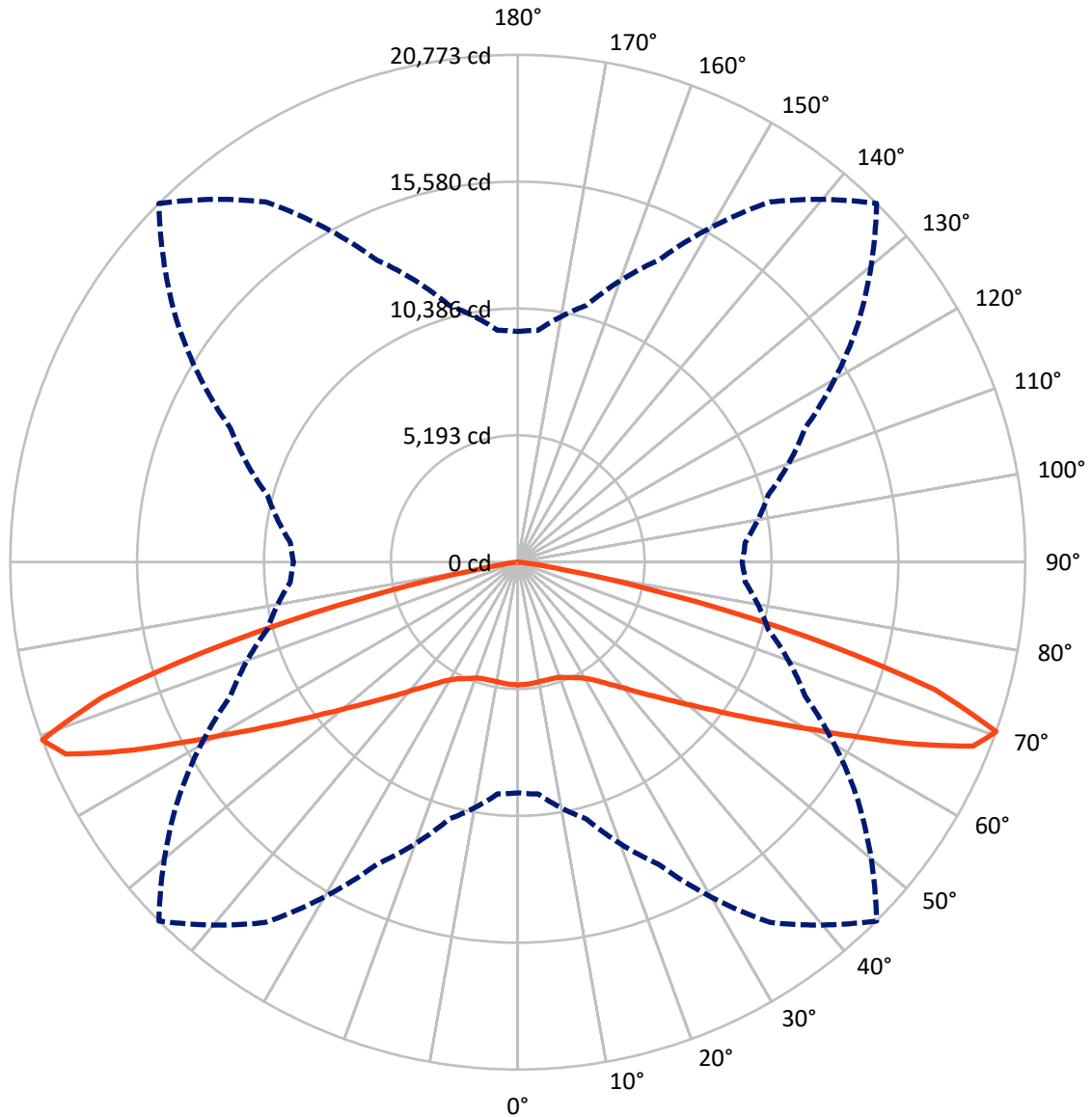
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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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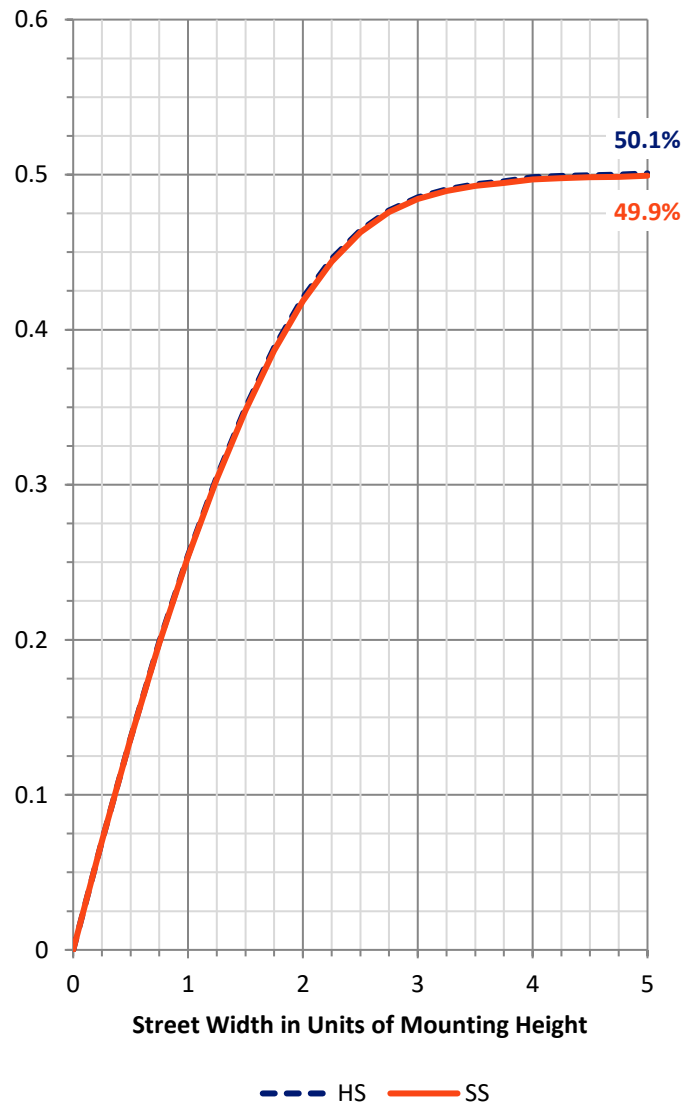
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 22623.5 | 0.0 | 22623.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 22623.5 | 0.0 | 22623.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 45247.0 | 0.0 | 45247.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 476.5 | 1.1 |
| 10°-20° | 1398.2 | 3.1 |
| 20°-30° | 2391.3 | 5.3 |
| 30°-40° | 3795.4 | 8.4 |
| 40°-50° | 6123.1 | 13.5 |
| 50°-60° | 9962.3 | 22.0 |
| 60°-70° | 14441.8 | 31.9 |
| 70°-80° | 6405.9 | 14.2 |
| 80°-90° | 252.7 | 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° | 45247.0 | 100.0 |
| 0°-180° | 45247.0 | 100.0 |



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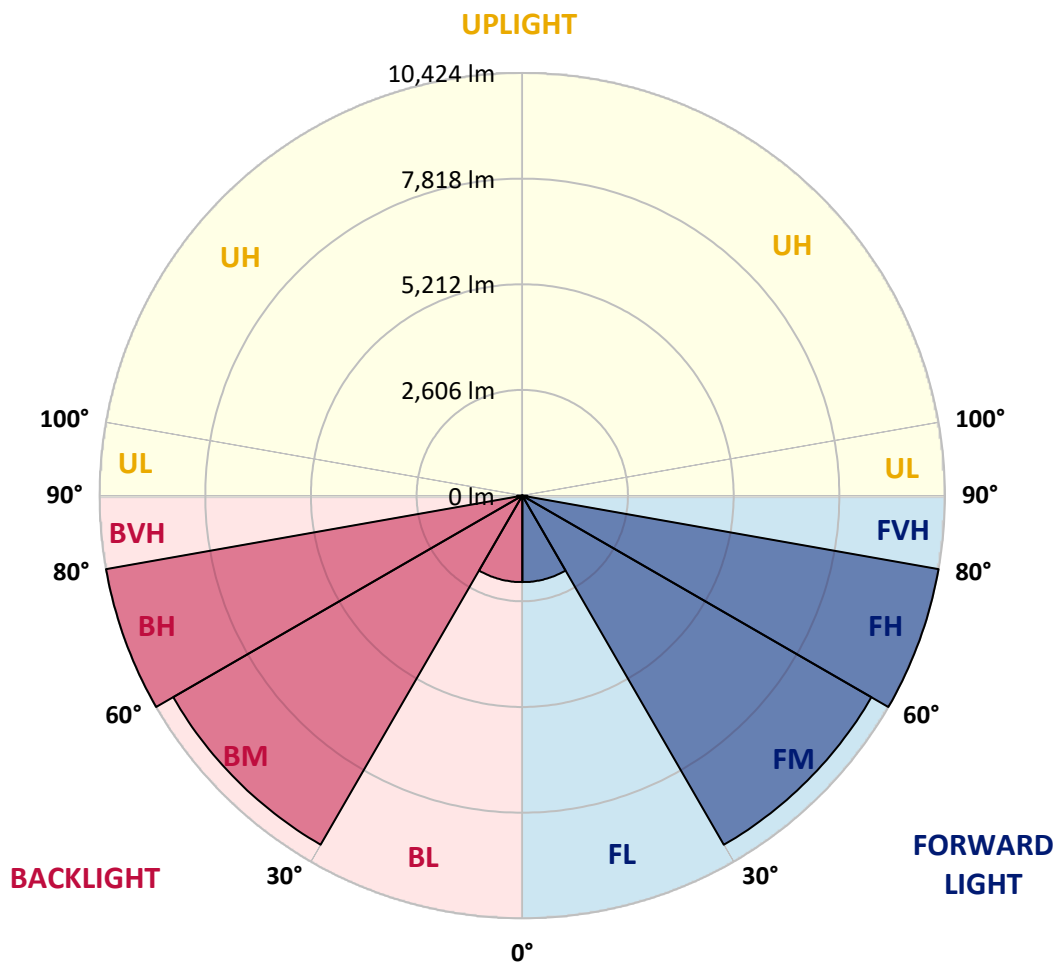
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2132.9 | 4.7 | | | |
| FM (30°-60°) | 9940.4 | 22.0 | | | |
| FH (60°-80°) | 10423.8 | 23.0 | | | G4/12000 |
| FVH (80°-90°) | 126.3 | 0.3 | | | G2/225 |
| BL (0°-30°) | 2132.9 | 4.7 | B3/2500 | | |
| BM (30°-60°) | 9940.4 | 22.0 | B5 | | |
| BH (60°-80°) | 10423.8 | 23.0 | B5 | | G4/12000 |
| BVH (80°-90°) | 126.3 | 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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5024.5 | 5024.5 | 5024.5 | 5024.5 | 5024.5 | 5024.5 | 5024.5 | 5024.5 | 5024.5 | 5024.5 | 5024.5 |
| 2.5° | 5024.5 | 5029.2 | 5022.1 | 5017.3 | 5014.9 | 5014.9 | 5012.5 | 5014.9 | 5029.2 | 5031.6 | 5024.5 |
| 5° | 5010.2 | 5014.9 | 5012.5 | 5007.8 | 5005.4 | 5005.4 | 5003.0 | 5000.6 | 5012.5 | 5017.3 | 5014.9 |
| 7.5° | 4991.1 | 4993.5 | 4991.1 | 4988.7 | 4991.1 | 4988.7 | 4981.5 | 4976.8 | 4986.3 | 4986.3 | 4983.9 |
| 10° | 4957.7 | 4962.5 | 4960.1 | 4962.5 | 4967.2 | 4967.2 | 4957.7 | 4948.2 | 4950.5 | 4945.8 | 4945.8 |
| 12.5° | 4917.2 | 4924.3 | 4926.7 | 4936.2 | 4948.2 | 4962.5 | 4941.0 | 4919.5 | 4914.8 | 4912.4 | 4910.0 |
| 15° | 4890.9 | 4898.1 | 4907.6 | 4917.2 | 4938.6 | 4969.6 | 4938.6 | 4905.2 | 4895.7 | 4886.2 | 4881.4 |
| 17.5° | 4883.8 | 4893.3 | 4907.6 | 4921.9 | 4950.5 | 4981.5 | 4955.3 | 4921.9 | 4898.1 | 4883.8 | 4879.0 |
| 20° | 4902.8 | 4910.0 | 4931.5 | 4957.7 | 4998.2 | 5029.2 | 5003.0 | 4967.2 | 4931.5 | 4910.0 | 4902.8 |
| 22.5° | 4941.0 | 4952.9 | 4979.2 | 5026.9 | 5084.1 | 5129.4 | 5093.6 | 5034.0 | 4976.8 | 4948.2 | 4938.6 |
| 25° | 5024.5 | 5034.0 | 5065.0 | 5129.4 | 5196.2 | 5239.1 | 5200.9 | 5131.8 | 5053.1 | 5014.9 | 5003.0 |
| 27.5° | 5150.9 | 5165.2 | 5198.5 | 5274.9 | 5329.7 | 5353.5 | 5327.3 | 5279.6 | 5222.4 | 5181.9 | 5172.3 |
| 30° | 5329.7 | 5346.4 | 5396.5 | 5477.6 | 5513.3 | 5527.6 | 5515.7 | 5484.7 | 5444.2 | 5401.2 | 5391.7 |
| 32.5° | 5570.6 | 5580.1 | 5637.3 | 5713.6 | 5747.0 | 5751.8 | 5737.5 | 5723.2 | 5656.4 | 5584.9 | 5580.1 |
| 35° | 5840.0 | 5856.7 | 5925.9 | 6016.5 | 6047.5 | 6049.9 | 6021.3 | 5999.8 | 5921.1 | 5863.9 | 5863.9 |
| 37.5° | 6197.7 | 6204.9 | 6271.6 | 6374.2 | 6407.6 | 6398.0 | 6383.7 | 6364.6 | 6281.2 | 6207.3 | 6209.6 |
| 40° | 6617.4 | 6631.7 | 6689.0 | 6808.2 | 6808.2 | 6796.3 | 6805.8 | 6791.5 | 6708.0 | 6636.5 | 6638.9 |
| 42.5° | 7115.8 | 7123.0 | 7192.1 | 7318.5 | 7309.0 | 7285.1 | 7294.7 | 7275.6 | 7223.1 | 7142.0 | 7113.4 |
| 45° | 7647.6 | 7676.2 | 7795.4 | 7917.1 | 7898.0 | 7821.7 | 7859.8 | 7855.1 | 7807.4 | 7685.7 | 7692.9 |
| 47.5° | 8289.1 | 8336.8 | 8451.2 | 8596.7 | 8575.2 | 8456.0 | 8498.9 | 8527.5 | 8460.8 | 8327.2 | 8303.4 |
| 50° | 9011.6 | 9042.6 | 9211.9 | 9347.8 | 9328.8 | 9202.4 | 9300.2 | 9304.9 | 9138.0 | 8949.6 | 8949.6 |
| 52.5° | 9781.9 | 9812.9 | 10041.8 | 10254.0 | 10265.9 | 10082.3 | 10161.0 | 10156.2 | 9884.4 | 9636.4 | 9588.7 |
| 55° | 10645.1 | 10659.4 | 10955.1 | 11267.5 | 11334.3 | 11155.4 | 11165.0 | 11069.6 | 10716.6 | 10428.1 | 10401.9 |
| 57.5° | 11537.0 | 11589.4 | 11916.1 | 12321.5 | 12519.4 | 12409.7 | 12359.7 | 12104.5 | 11763.5 | 11432.0 | 11415.3 |
| 60° | 12524.2 | 12526.6 | 12951.1 | 13430.4 | 13831.0 | 13904.9 | 13699.8 | 13358.8 | 12917.7 | 12478.9 | 12459.8 |
| 62.5° | 13208.6 | 13311.1 | 13847.7 | 14658.5 | 15376.2 | 15791.2 | 15249.9 | 14534.5 | 13666.5 | 12958.2 | 12886.7 |
| 65° | 13349.3 | 13418.4 | 14236.4 | 15609.9 | 17076.5 | 17970.8 | 16718.8 | 15197.4 | 13716.5 | 12772.2 | 12724.5 |
| 67.5° | 12211.8 | 12285.7 | 13387.4 | 15495.5 | 18268.8 | 20102.6 | 17672.7 | 14877.9 | 12867.6 | 11699.1 | 11606.1 |
| 70° | 9445.6 | 9529.1 | 10890.7 | 13640.2 | 18004.1 | 20772.7 | 16993.0 | 12977.3 | 10611.7 | 9350.2 | 9180.9 |
| 72.5° | 5022.1 | 5329.7 | 6493.4 | 9362.2 | 14613.2 | 17884.9 | 13933.5 | 9469.5 | 6844.0 | 5594.4 | 5370.2 |
| 75° | 1833.8 | 1872.0 | 2520.6 | 4151.7 | 8501.3 | 12264.3 | 8828.0 | 4516.5 | 2596.9 | 2005.5 | 1903.0 |
| 77.5° | 758.3 | 755.9 | 829.9 | 1254.3 | 3088.1 | 6281.2 | 3445.8 | 1325.9 | 827.5 | 765.5 | 755.9 |
| 80° | 448.3 | 448.3 | 493.6 | 522.2 | 813.2 | 1895.8 | 908.6 | 591.4 | 496.0 | 453.1 | 460.2 |
| 82.5° | 200.3 | 212.2 | 312.4 | 329.1 | 393.5 | 519.9 | 438.8 | 376.8 | 324.3 | 224.2 | 202.7 |
| 85° | 109.7 | 95.4 | 164.5 | 171.7 | 188.4 | 193.2 | 207.5 | 205.1 | 188.4 | 109.7 | 112.1 |
| 87.5° | 21.5 | 26.2 | 47.7 | 35.8 | 40.5 | 35.8 | 47.7 | 66.8 | 69.2 | 38.2 | 31.0 |
| 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)