

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: P654349

Luminaire Tested: **GLAN-SA5B-840-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P654349
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-840-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 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: 21152.8 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

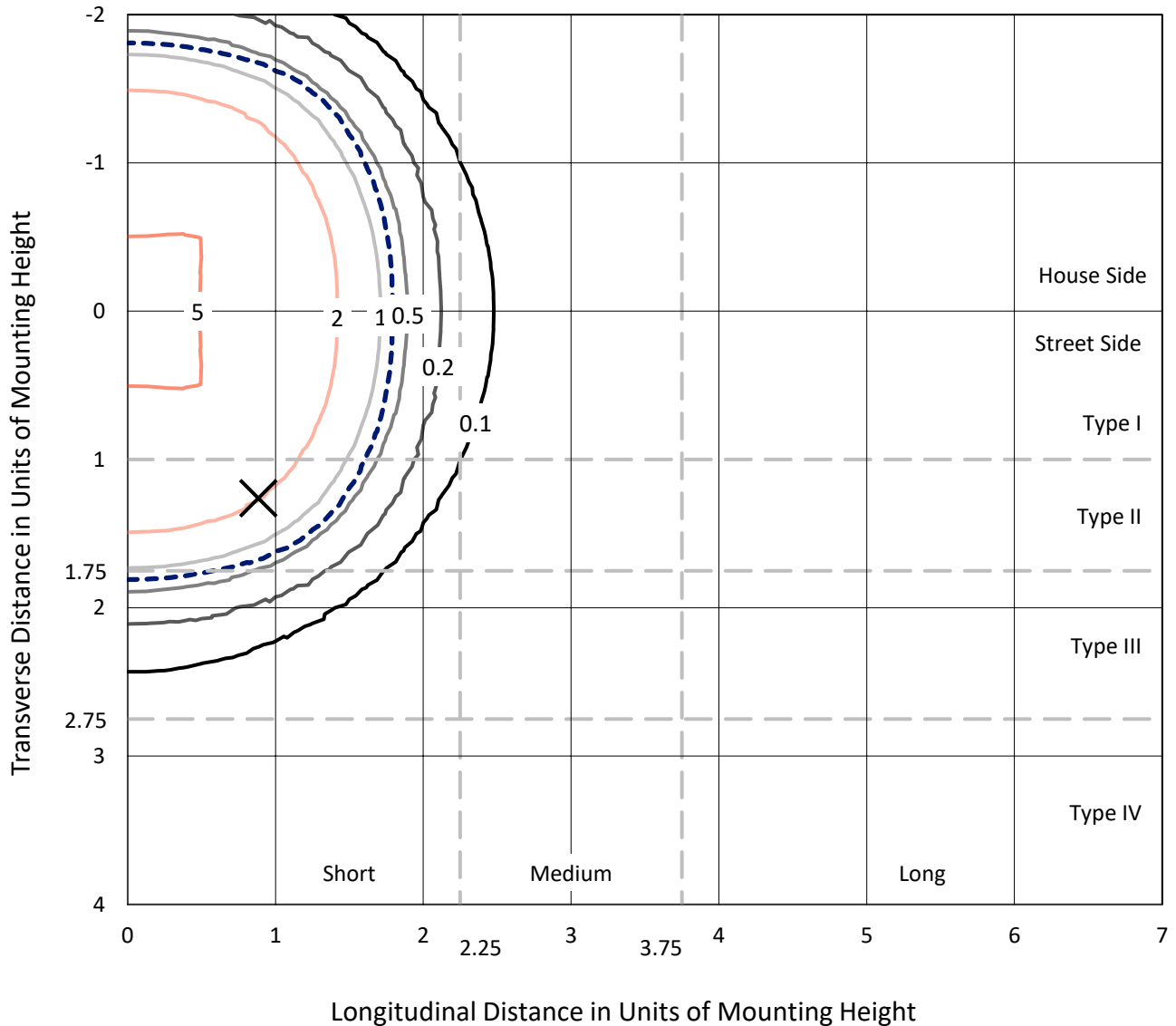
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

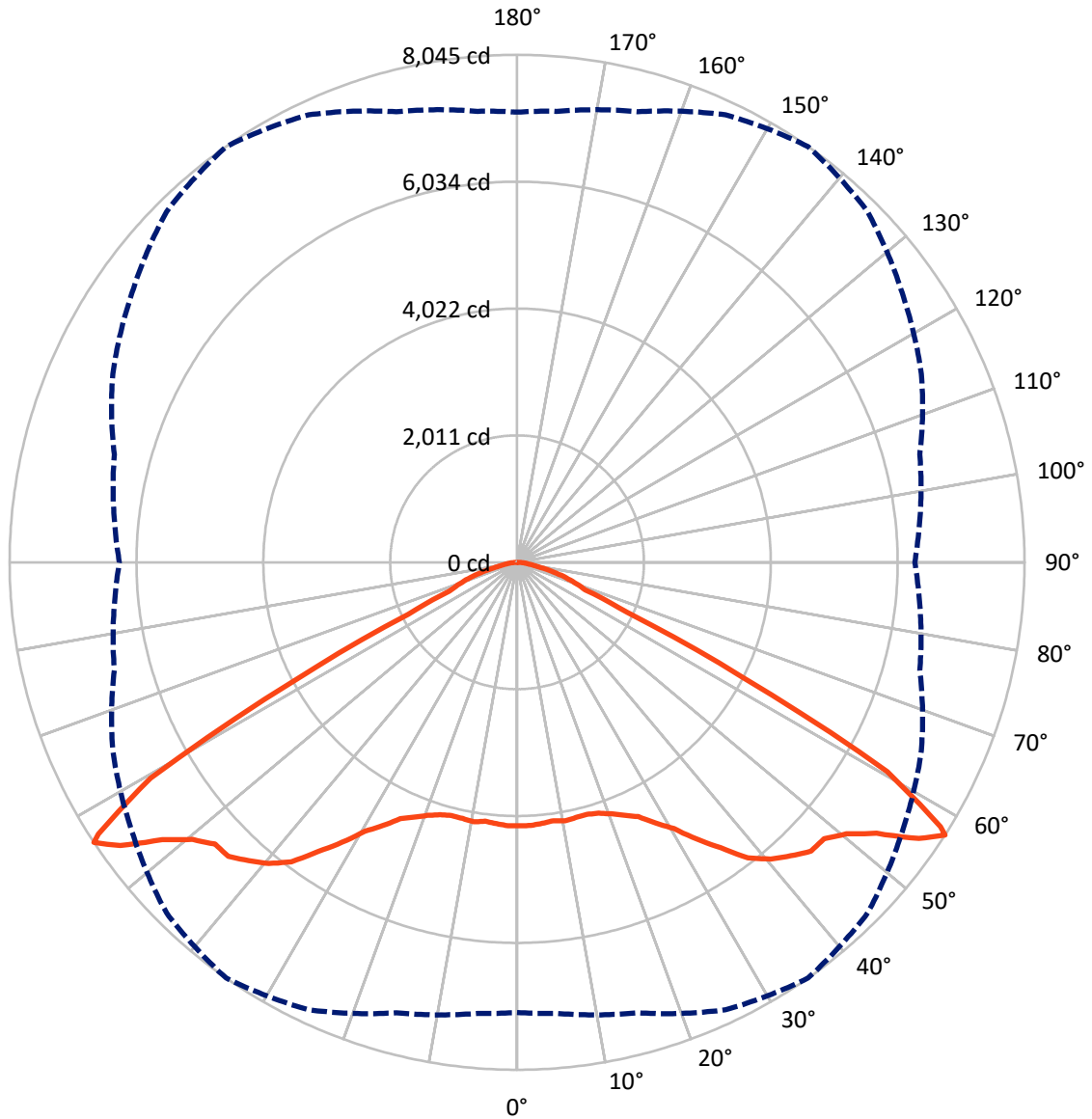
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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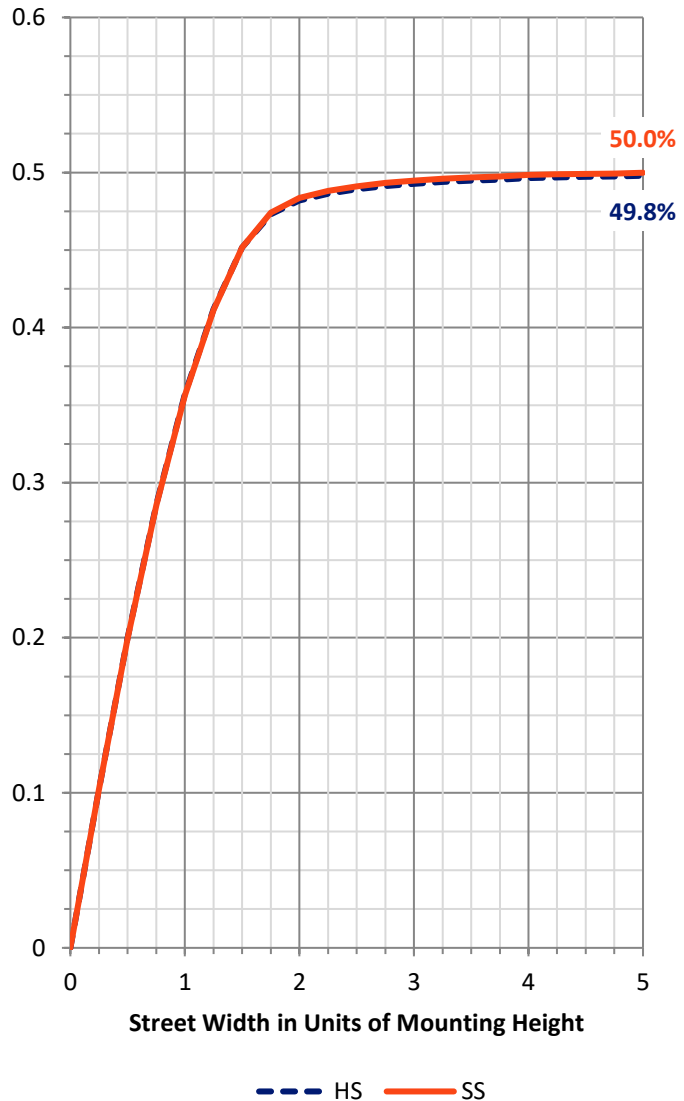
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10576.4 | 0.0 | 10576.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 10576.4 | 0.0 | 10576.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 21152.8 | 0.0 | 21152.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 396.0 | 1.9 |
| 10°-20° | 1173.0 | 5.5 |
| 20°-30° | 2048.6 | 9.7 |
| 30°-40° | 3356.7 | 15.9 |
| 40°-50° | 4921.7 | 23.3 |
| 50°-60° | 6199.2 | 29.3 |
| 60°-70° | 2331.5 | 11.0 |
| 70°-80° | 619.9 | 2.9 |
| 80°-90° | 106.3 | 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° | 21152.8 | 100.0 |
| 0°-180° | 21152.8 | 100.0 |

Coefficient of Utilization



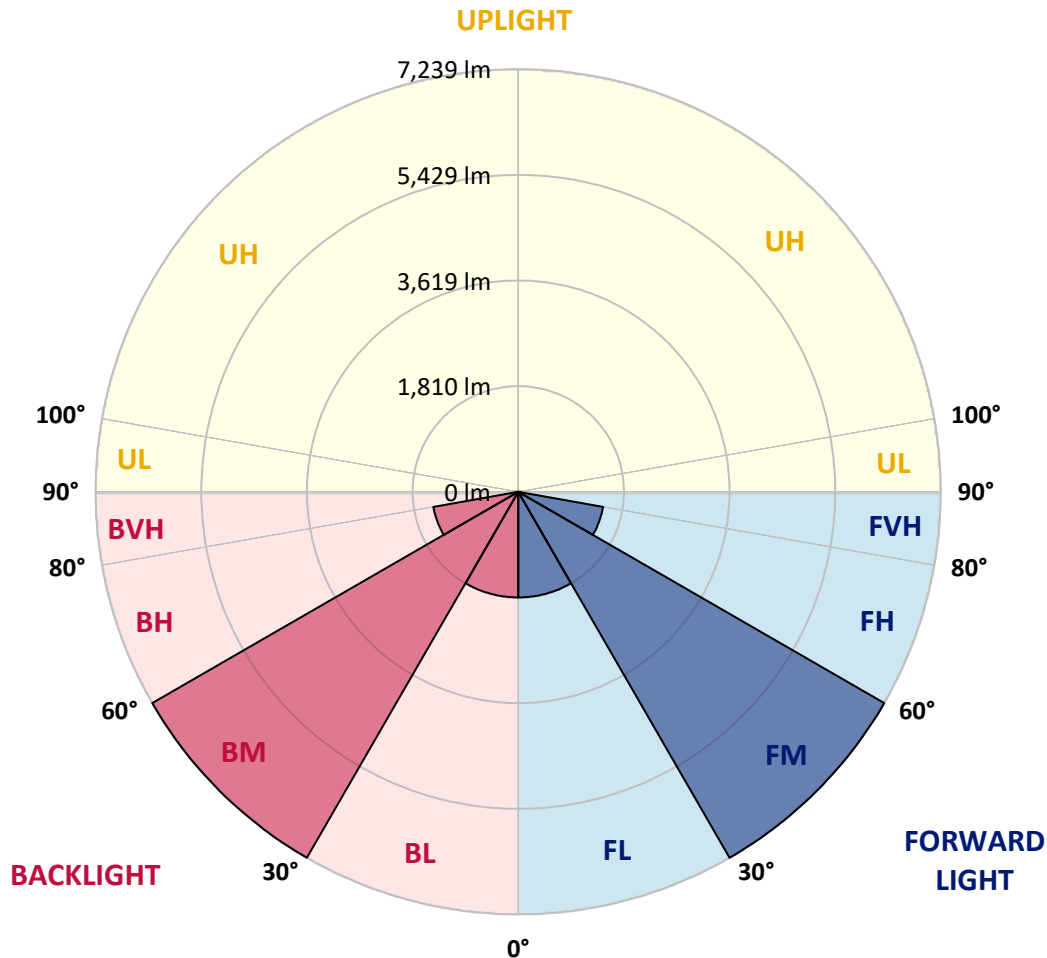
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1808.8 | 8.6 | | | |
| FM (30°-60°) | 7238.8 | 34.2 | | | |
| FH (60°-80°) | 1475.7 | 7.0 | | | G1/1800 |
| FVH (80°-90°) | 53.2 | 0.3 | | | G1/100 |
| BL (0°-30°) | 1808.8 | 8.6 | B3/2500 | | |
| BM (30°-60°) | 7238.8 | 34.2 | B4/8500 | | |
| BH (60°-80°) | 1475.7 | 7.0 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 53.2 | 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° | 4177.5 | 4177.5 | 4177.5 | 4177.5 | 4177.5 | 4177.5 | 4177.5 | 4177.5 | 4177.5 | 4177.5 | 4177.5 |
| 2.5° | 4156.6 | 4198.4 | 4180.1 | 4169.7 | 4177.5 | 4164.5 | 4143.7 | 4167.1 | 4161.9 | 4141.1 | 4133.3 |
| 5° | 4146.2 | 4177.5 | 4156.6 | 4177.5 | 4156.6 | 4193.1 | 4182.7 | 4143.7 | 4190.5 | 4146.2 | 4161.9 |
| 7.5° | 4138.5 | 4148.8 | 4154.0 | 4143.7 | 4135.9 | 4180.1 | 4156.6 | 4138.5 | 4112.4 | 4104.6 | 4117.6 |
| 10° | 4120.2 | 4146.2 | 4107.2 | 4159.2 | 4169.7 | 4138.5 | 4138.5 | 4104.6 | 4083.7 | 4070.7 | 4115.0 |
| 12.5° | 4167.1 | 4122.8 | 4117.6 | 4143.7 | 4151.4 | 4164.5 | 4128.0 | 4109.8 | 4070.7 | 4075.9 | 4068.1 |
| 15° | 4112.4 | 4130.7 | 4133.3 | 4138.5 | 4146.2 | 4177.5 | 4143.7 | 4104.6 | 4088.9 | 4034.2 | 4039.4 |
| 17.5° | 4133.3 | 4115.0 | 4133.3 | 4193.1 | 4182.7 | 4206.2 | 4169.7 | 4109.8 | 4073.3 | 4042.0 | 4083.7 |
| 20° | 4169.7 | 4161.9 | 4169.7 | 4242.7 | 4255.7 | 4276.6 | 4245.3 | 4190.5 | 4120.2 | 4083.7 | 4104.6 |
| 22.5° | 4208.8 | 4203.6 | 4208.8 | 4279.2 | 4354.8 | 4380.8 | 4349.6 | 4221.8 | 4185.3 | 4117.6 | 4094.2 |
| 25° | 4279.2 | 4284.4 | 4339.1 | 4417.3 | 4466.8 | 4516.3 | 4459.0 | 4367.7 | 4250.5 | 4208.8 | 4159.2 |
| 27.5° | 4435.5 | 4448.6 | 4479.8 | 4594.5 | 4680.5 | 4724.8 | 4644.0 | 4518.9 | 4445.9 | 4359.9 | 4347.0 |
| 30° | 4628.4 | 4628.4 | 4683.1 | 4782.2 | 4899.4 | 4967.2 | 4868.1 | 4719.6 | 4631.0 | 4584.0 | 4555.4 |
| 32.5° | 4883.8 | 4855.1 | 4875.9 | 5050.5 | 5233.0 | 5290.3 | 5157.4 | 4975.0 | 4834.2 | 4771.7 | 4750.9 |
| 35° | 5102.7 | 5120.9 | 5167.9 | 5355.5 | 5558.8 | 5691.6 | 5483.2 | 5246.0 | 5102.7 | 5045.3 | 5034.9 |
| 37.5° | 5386.8 | 5418.1 | 5441.4 | 5699.5 | 5944.4 | 5994.0 | 5793.3 | 5603.1 | 5428.4 | 5381.6 | 5355.5 |
| 40° | 5788.1 | 5767.2 | 5775.1 | 5965.3 | 6186.8 | 6218.1 | 6020.0 | 5884.5 | 5741.2 | 5712.5 | 5712.5 |
| 42.5° | 6119.0 | 6095.6 | 6121.6 | 6192.0 | 6361.4 | 6337.9 | 6228.5 | 6129.5 | 6069.5 | 6038.3 | 6069.5 |
| 45° | 6319.7 | 6314.5 | 6361.4 | 6413.6 | 6533.4 | 6455.3 | 6369.2 | 6384.9 | 6327.5 | 6275.4 | 6272.8 |
| 47.5° | 6538.6 | 6504.7 | 6562.1 | 6640.3 | 6549.0 | 6512.5 | 6507.3 | 6541.2 | 6523.0 | 6431.8 | 6403.1 |
| 50° | 6645.5 | 6632.5 | 6723.6 | 6814.9 | 6765.3 | 6682.0 | 6700.2 | 6754.9 | 6520.4 | 6397.9 | 6327.5 |
| 52.5° | 6932.1 | 6934.7 | 7109.4 | 7158.8 | 7138.0 | 7015.5 | 7054.6 | 6906.1 | 6629.9 | 6457.9 | 6465.7 |
| 55° | 7383.0 | 7364.7 | 7560.2 | 7706.2 | 7729.6 | 7573.2 | 7385.6 | 7177.1 | 6830.5 | 6655.9 | 6603.8 |
| 57° | 7135.4 | 7177.1 | 7393.4 | 7826.0 | 8044.9 | 7859.9 | 7450.8 | 7070.3 | 6609.0 | 6397.9 | 6304.1 |
| 57.5° | 6804.4 | 6872.2 | 7247.5 | 7682.7 | 7912.0 | 7896.4 | 7369.9 | 6872.2 | 6460.5 | 6132.1 | 6139.9 |
| 60° | 4985.4 | 4998.4 | 5337.2 | 6027.9 | 6744.5 | 6760.1 | 6119.0 | 5459.7 | 5001.0 | 4644.0 | 4693.5 |
| 62.5° | 2629.6 | 2689.4 | 2825.0 | 3380.1 | 4000.3 | 4151.4 | 3763.1 | 3424.4 | 3028.3 | 2757.2 | 2783.3 |
| 65° | 1391.6 | 1383.8 | 1449.0 | 1605.3 | 1910.2 | 1988.5 | 1936.3 | 1667.9 | 1529.8 | 1485.5 | 1488.1 |
| 67.5° | 1131.1 | 1144.1 | 1136.3 | 1144.1 | 1165.0 | 1198.8 | 1190.9 | 1201.4 | 1209.2 | 1222.2 | 1219.6 |
| 70° | 959.0 | 959.0 | 964.2 | 966.8 | 966.8 | 982.5 | 1000.7 | 1034.6 | 1037.2 | 1050.2 | 1055.5 |
| 72.5° | 755.7 | 750.5 | 758.3 | 776.6 | 779.2 | 792.2 | 818.3 | 839.1 | 847.0 | 847.0 | 831.3 |
| 75° | 513.4 | 518.6 | 529.1 | 544.6 | 560.3 | 583.7 | 604.6 | 617.6 | 622.8 | 615.0 | 607.2 |
| 77.5° | 289.3 | 294.5 | 302.3 | 325.7 | 344.0 | 364.8 | 388.3 | 401.3 | 414.4 | 417.0 | 401.3 |
| 80° | 172.0 | 172.0 | 185.0 | 203.3 | 224.1 | 245.0 | 265.8 | 281.5 | 286.7 | 286.7 | 278.9 |
| 82.5° | 104.3 | 106.8 | 117.2 | 135.5 | 153.7 | 166.8 | 185.0 | 198.1 | 208.5 | 205.9 | 200.7 |
| 85° | 54.7 | 54.7 | 65.2 | 80.8 | 93.9 | 106.8 | 106.8 | 99.1 | 93.9 | 80.8 | 75.6 |
| 87.5° | 18.2 | 15.6 | 20.9 | 20.9 | 18.2 | 20.9 | 20.9 | 23.5 | 23.5 | 23.5 | 23.5 |
| 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)