

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: P316152

Luminaire Tested: **GAN-SA8A-740-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-740-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39339 lumens
Efficiency: N/A
Efficacy: 153.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

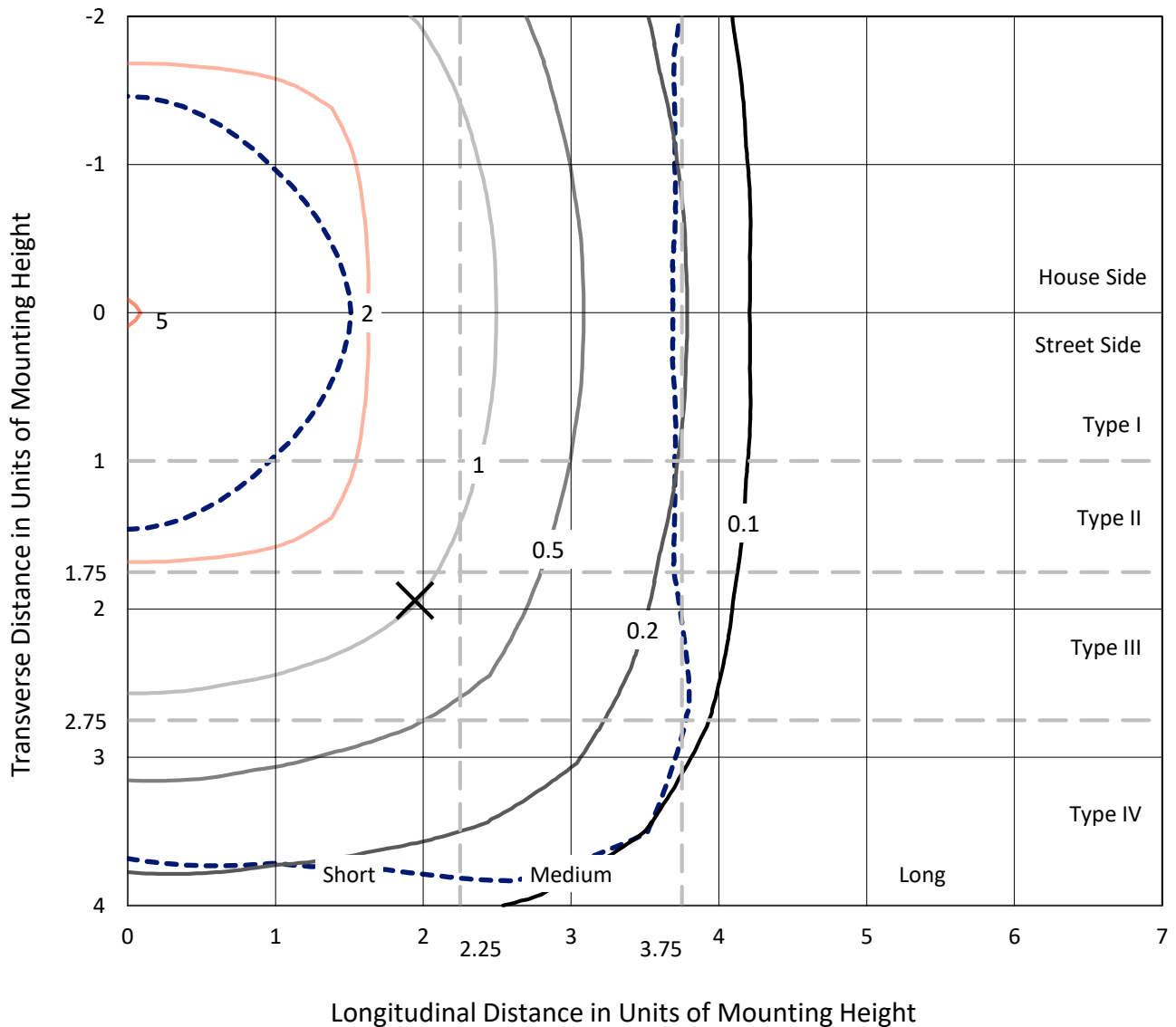
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

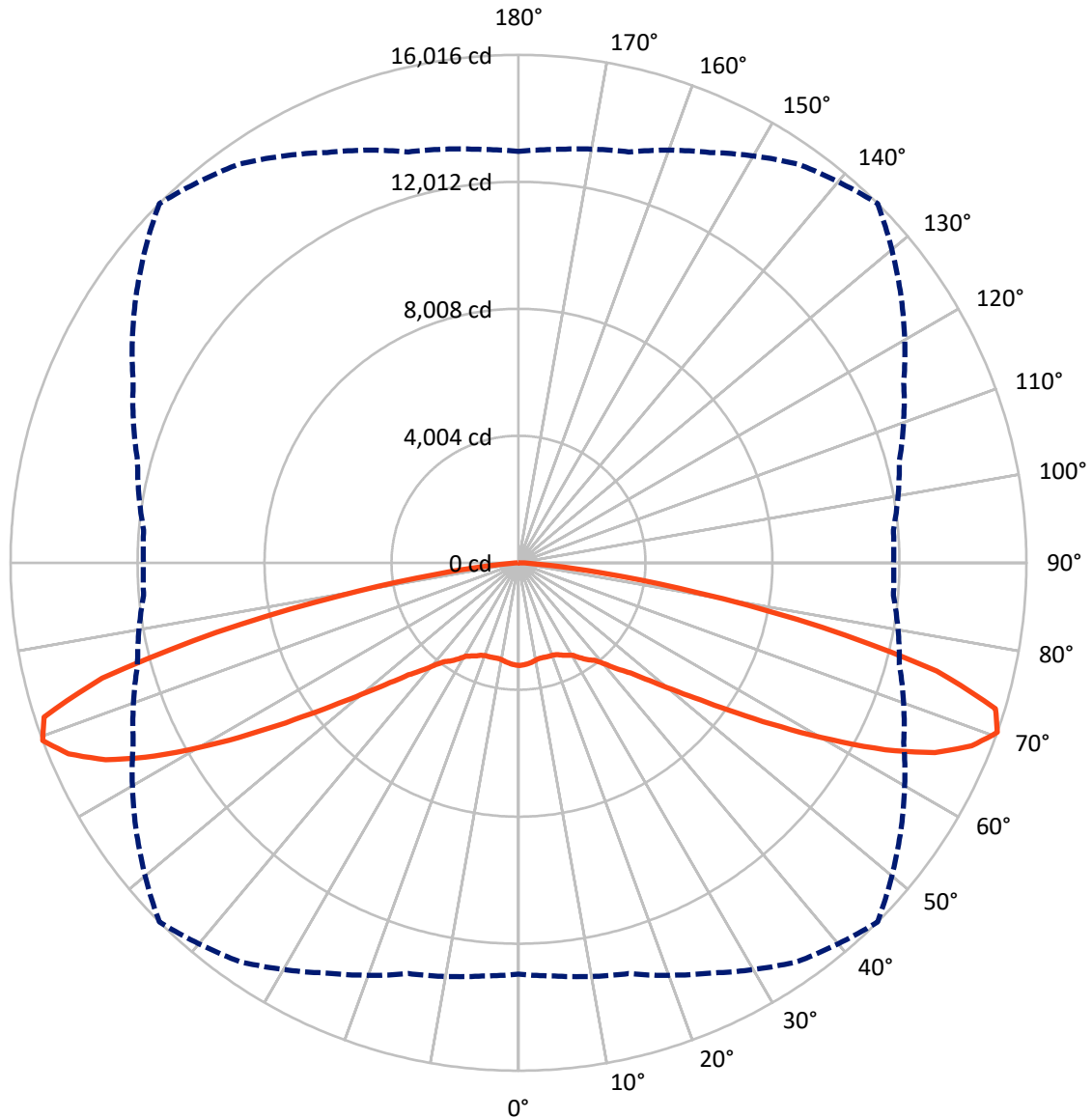
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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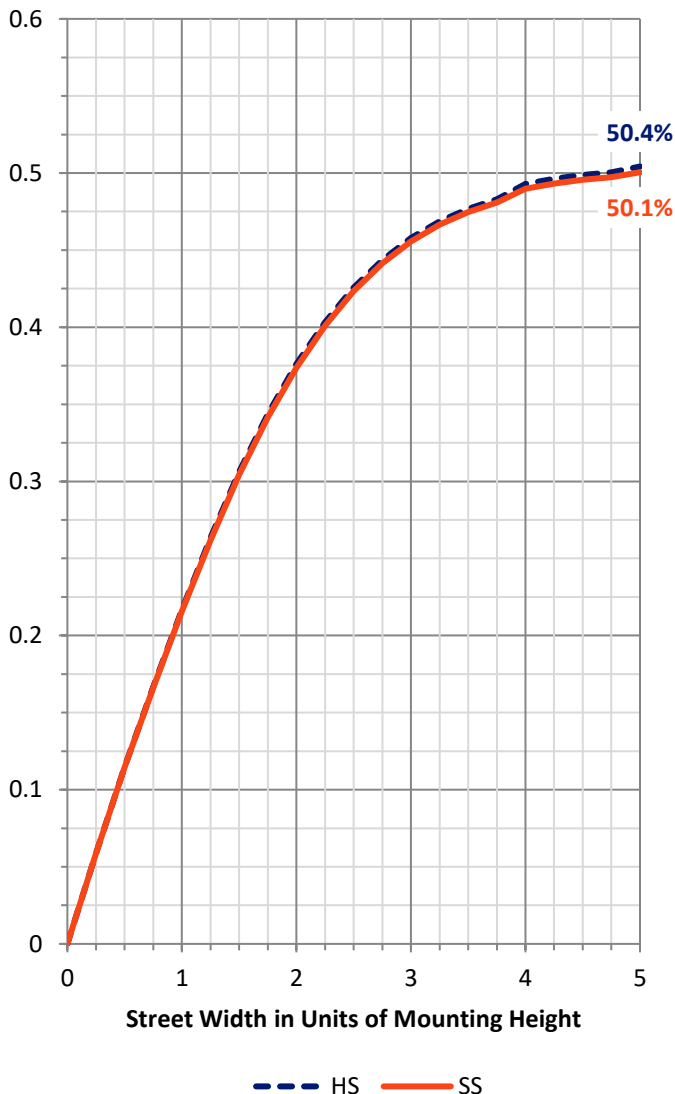
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 19669.5 | 0.0 | 19669.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 19669.5 | 0.0 | 19669.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 39339.0 | 0.0 | 39339.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 302.2 | 0.8 |
| 10°-20° | 882.7 | 2.2 |
| 20°-30° | 1504.9 | 3.8 |
| 30°-40° | 2351.5 | 6.0 |
| 40°-50° | 3985.2 | 10.1 |
| 50°-60° | 7267.4 | 18.5 |
| 60°-70° | 12511.2 | 31.8 |
| 70°-80° | 9806.8 | 24.9 |
| 80°-90° | 727.2 | 1.8 |
| 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° | 39339.0 | 100.0 |
| 0°-180° | 39339.0 | 100.0 |

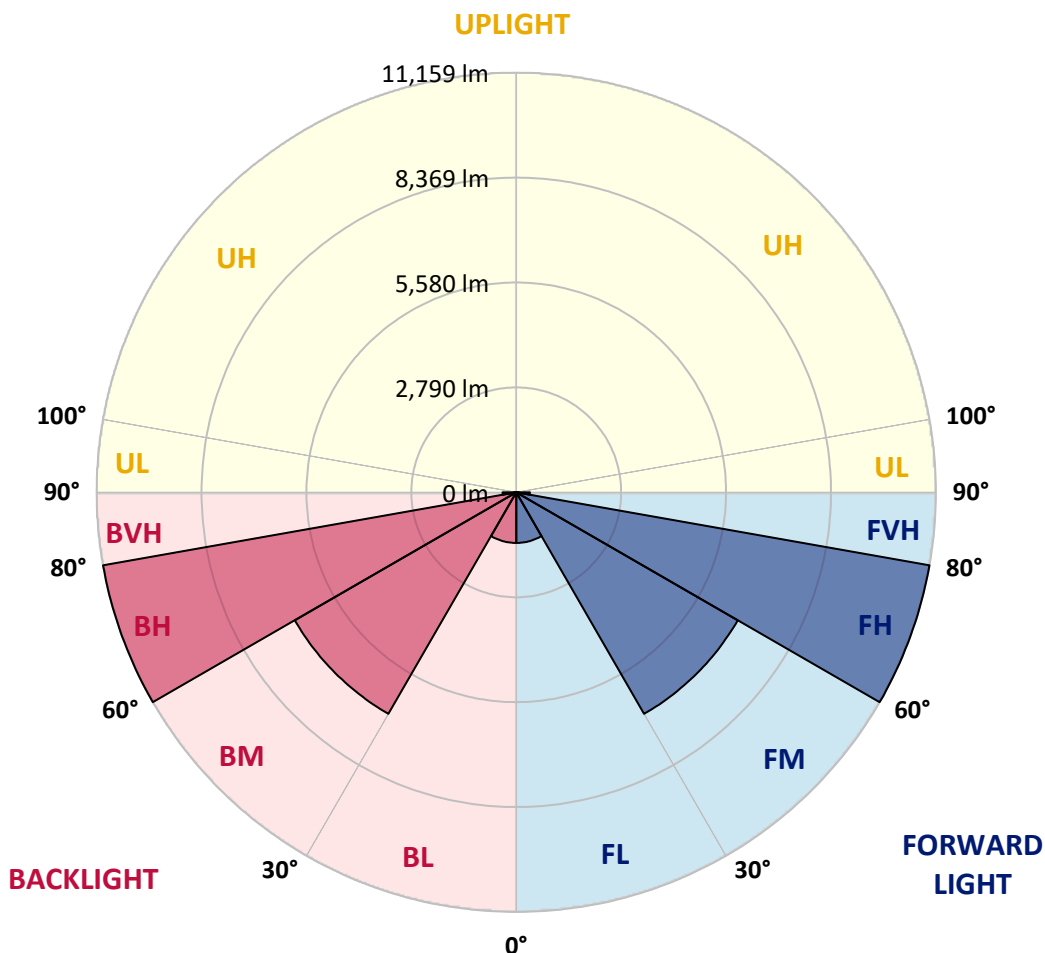


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1344.9 | 3.4 | | | |
| FM (30°-60°) | 6802.0 | 17.3 | | | |
| FH (60°-80°) | 11159.0 | 28.4 | | | G4/12000 |
| FVH (80°-90°) | 363.6 | 0.9 | | | G3/500 |
| BL (0°-30°) | 1344.9 | 3.4 | B3/2500 | | |
| BM (30°-60°) | 6802.0 | 17.3 | B4/8500 | | |
| BH (60°-80°) | 11159.0 | 28.4 | B5 | | G4/12000 |
| BVH (80°-90°) | 363.6 | 0.9 | | | G3/500 |
| 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° | 3237.6 | 3237.6 | 3237.6 | 3237.6 | 3237.6 | 3237.6 | 3237.6 | 3237.6 | 3237.6 | 3237.6 | 3237.6 |
| 2.5° | 3223.3 | 3227.2 | 3223.3 | 3225.9 | 3219.4 | 3222.0 | 3222.0 | 3222.0 | 3220.7 | 3222.0 | 3219.4 |
| 5° | 3194.7 | 3197.3 | 3192.1 | 3194.7 | 3190.8 | 3194.7 | 3196.0 | 3194.7 | 3192.1 | 3193.4 | 3188.2 |
| 7.5° | 3151.7 | 3154.3 | 3150.4 | 3154.3 | 3149.1 | 3155.6 | 3154.3 | 3150.4 | 3146.5 | 3146.5 | 3141.3 |
| 10° | 3128.3 | 3129.6 | 3119.2 | 3115.3 | 3103.6 | 3106.2 | 3110.1 | 3114.0 | 3117.9 | 3125.7 | 3124.4 |
| 12.5° | 3129.6 | 3129.6 | 3114.0 | 3097.1 | 3080.1 | 3084.1 | 3090.6 | 3104.9 | 3120.5 | 3134.8 | 3136.1 |
| 15° | 3142.6 | 3141.3 | 3117.9 | 3090.6 | 3078.8 | 3090.6 | 3094.5 | 3103.6 | 3128.3 | 3153.0 | 3154.3 |
| 17.5° | 3151.7 | 3151.7 | 3115.3 | 3084.1 | 3082.8 | 3101.0 | 3099.7 | 3103.6 | 3130.9 | 3167.3 | 3168.6 |
| 20° | 3168.6 | 3168.6 | 3121.8 | 3088.0 | 3088.0 | 3107.5 | 3108.8 | 3115.3 | 3142.6 | 3183.0 | 3189.5 |
| 22.5° | 3206.4 | 3207.7 | 3158.2 | 3130.9 | 3133.5 | 3145.2 | 3149.1 | 3159.5 | 3184.3 | 3228.5 | 3236.3 |
| 25° | 3259.7 | 3262.3 | 3211.6 | 3196.0 | 3205.1 | 3227.2 | 3224.6 | 3232.4 | 3259.7 | 3302.7 | 3310.5 |
| 27.5° | 3333.9 | 3327.4 | 3280.5 | 3274.0 | 3283.2 | 3298.8 | 3297.5 | 3298.8 | 3320.9 | 3359.9 | 3369.0 |
| 30° | 3430.2 | 3427.6 | 3393.8 | 3397.7 | 3393.8 | 3388.6 | 3389.9 | 3400.3 | 3412.0 | 3443.2 | 3452.3 |
| 32.5° | 3523.9 | 3526.5 | 3505.7 | 3525.2 | 3553.8 | 3573.3 | 3543.4 | 3514.8 | 3501.8 | 3518.7 | 3526.5 |
| 35° | 3693.1 | 3699.6 | 3667.0 | 3654.0 | 3693.1 | 3750.3 | 3665.7 | 3618.9 | 3644.9 | 3667.0 | 3673.5 |
| 37.5° | 3980.6 | 3984.5 | 3929.9 | 3877.8 | 3849.2 | 3903.9 | 3819.3 | 3823.2 | 3914.3 | 3955.9 | 3954.6 |
| 40° | 4308.6 | 4309.9 | 4273.4 | 4227.9 | 4178.4 | 4191.4 | 4157.6 | 4168.0 | 4227.9 | 4265.6 | 4276.0 |
| 42.5° | 4699.0 | 4695.0 | 4637.8 | 4572.7 | 4558.4 | 4571.4 | 4514.2 | 4506.4 | 4575.3 | 4643.0 | 4644.3 |
| 45° | 5205.2 | 5196.0 | 5121.9 | 5050.3 | 4981.3 | 4952.7 | 4938.4 | 4976.1 | 5071.1 | 5133.6 | 5134.9 |
| 47.5° | 5750.4 | 5725.7 | 5686.6 | 5629.4 | 5569.5 | 5540.9 | 5517.5 | 5535.7 | 5604.6 | 5629.4 | 5632.0 |
| 50° | 6311.2 | 6316.5 | 6324.3 | 6302.1 | 6280.0 | 6270.9 | 6209.7 | 6174.6 | 6195.4 | 6149.9 | 6143.4 |
| 52.5° | 6976.2 | 6986.6 | 7062.1 | 7125.9 | 7163.6 | 7183.1 | 7067.3 | 6946.3 | 6878.6 | 6790.1 | 6764.1 |
| 55° | 7760.9 | 7777.8 | 7888.4 | 8065.4 | 8247.6 | 8343.9 | 8134.4 | 7907.9 | 7698.4 | 7533.2 | 7479.8 |
| 57.5° | 8635.3 | 8665.3 | 8817.5 | 9157.2 | 9530.6 | 9758.4 | 9404.4 | 8993.2 | 8588.5 | 8350.4 | 8308.7 |
| 60° | 9660.8 | 9689.4 | 9900.2 | 10386.9 | 10992.0 | 11334.2 | 10798.1 | 10125.3 | 9621.7 | 9394.0 | 9317.2 |
| 62.5° | 10881.4 | 10884.0 | 11142.9 | 11711.6 | 12510.6 | 12986.9 | 12260.7 | 11361.5 | 10842.3 | 10567.8 | 10493.6 |
| 65° | 12194.4 | 12200.9 | 12468.9 | 13083.2 | 13909.5 | 14427.4 | 13607.6 | 12670.6 | 12035.6 | 11630.9 | 11573.7 |
| 67.5° | 13122.2 | 13149.5 | 13431.9 | 14171.0 | 14944.0 | 15411.2 | 14562.7 | 13503.5 | 12769.5 | 12286.8 | 12238.6 |
| 70° | 12973.8 | 13080.5 | 13412.4 | 14275.1 | 15350.0 | 16016.3 | 14717.6 | 13404.6 | 12436.4 | 11866.4 | 11826.1 |
| 72.5° | 11314.7 | 11519.0 | 11961.4 | 13093.6 | 14812.6 | 15730.0 | 13873.0 | 12005.7 | 10910.0 | 10424.6 | 10351.7 |
| 75° | 7704.9 | 8036.8 | 8704.3 | 10337.4 | 12655.0 | 13619.3 | 11679.1 | 9572.3 | 8541.7 | 7870.2 | 7820.7 |
| 77.5° | 3435.4 | 3510.9 | 4356.7 | 6237.1 | 8732.9 | 9780.5 | 8485.7 | 6261.8 | 4700.3 | 3749.0 | 3548.6 |
| 80° | 957.7 | 969.5 | 1293.5 | 2322.8 | 4371.0 | 5746.5 | 4692.4 | 2439.9 | 1371.6 | 966.9 | 910.9 |
| 82.5° | 304.5 | 330.5 | 403.4 | 602.5 | 1469.2 | 2622.1 | 1508.2 | 650.6 | 463.3 | 369.6 | 333.1 |
| 85° | 148.3 | 147.0 | 204.3 | 244.6 | 374.8 | 580.4 | 399.5 | 301.9 | 264.2 | 175.7 | 158.8 |
| 87.5° | 62.5 | 63.8 | 95.0 | 85.9 | 109.3 | 93.7 | 128.8 | 135.3 | 141.8 | 78.1 | 67.7 |
| 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)