

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: P316674

Luminaire Tested: **GAN-SA0A-722-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316674
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-722-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35622 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

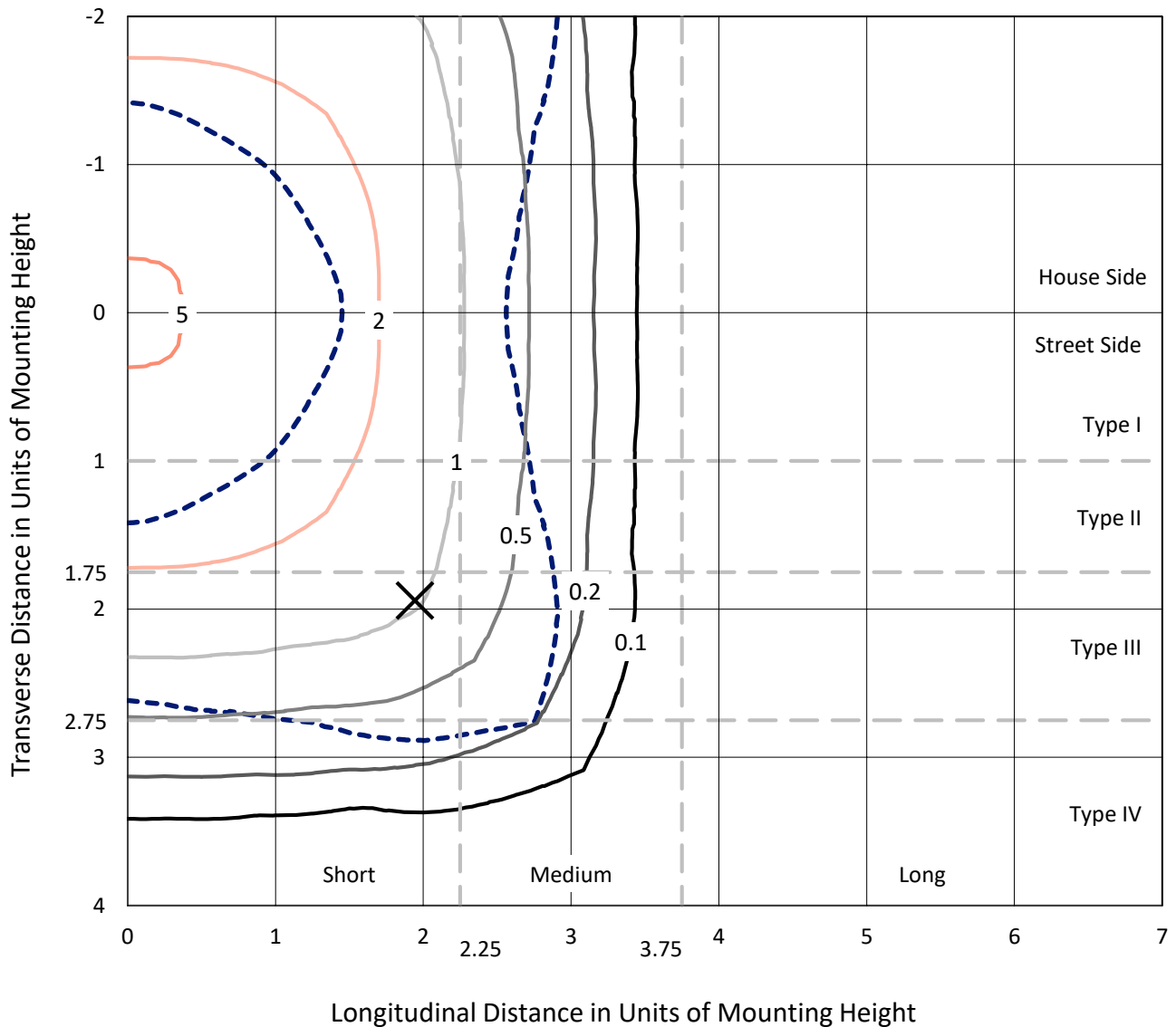
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

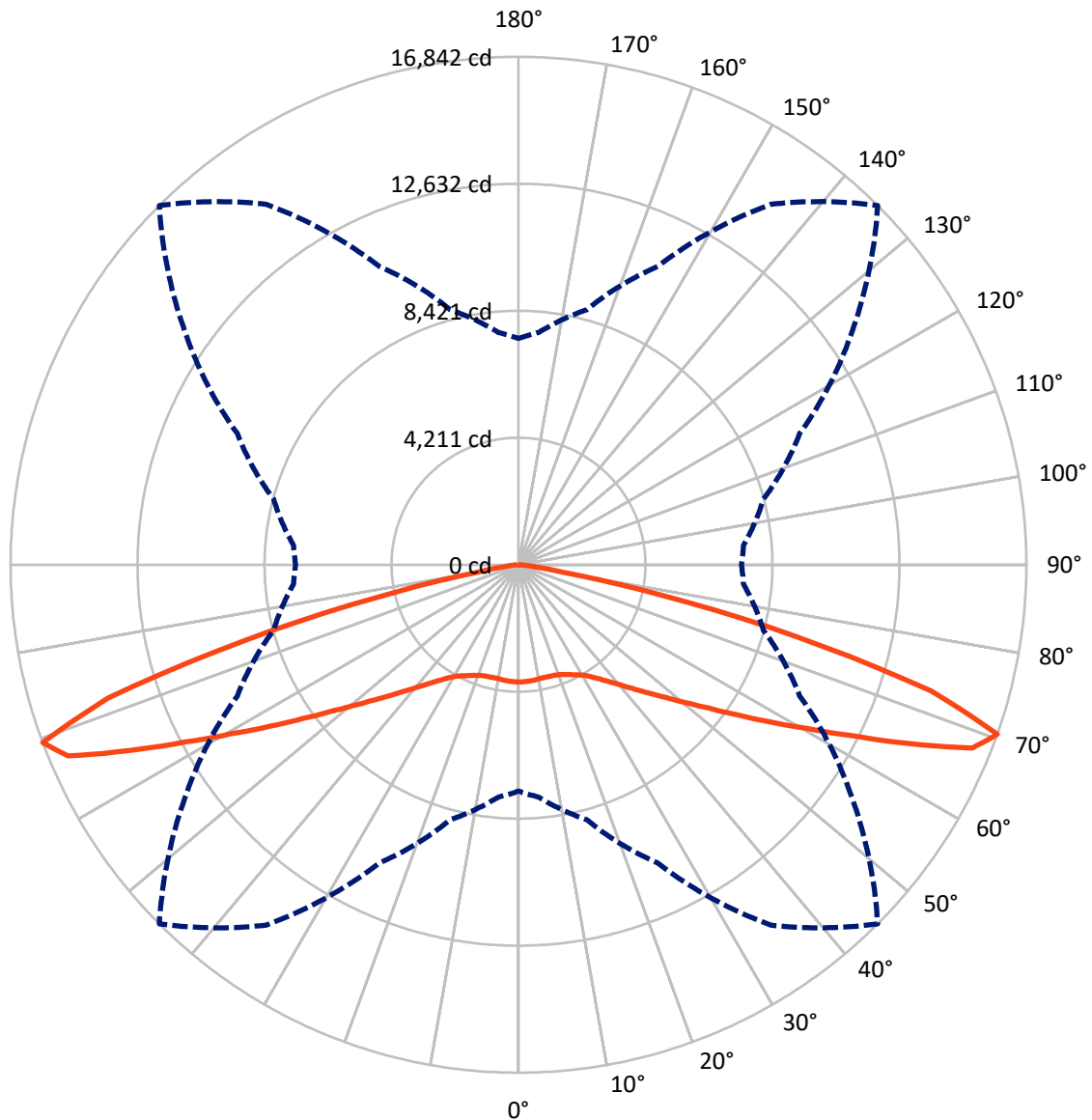
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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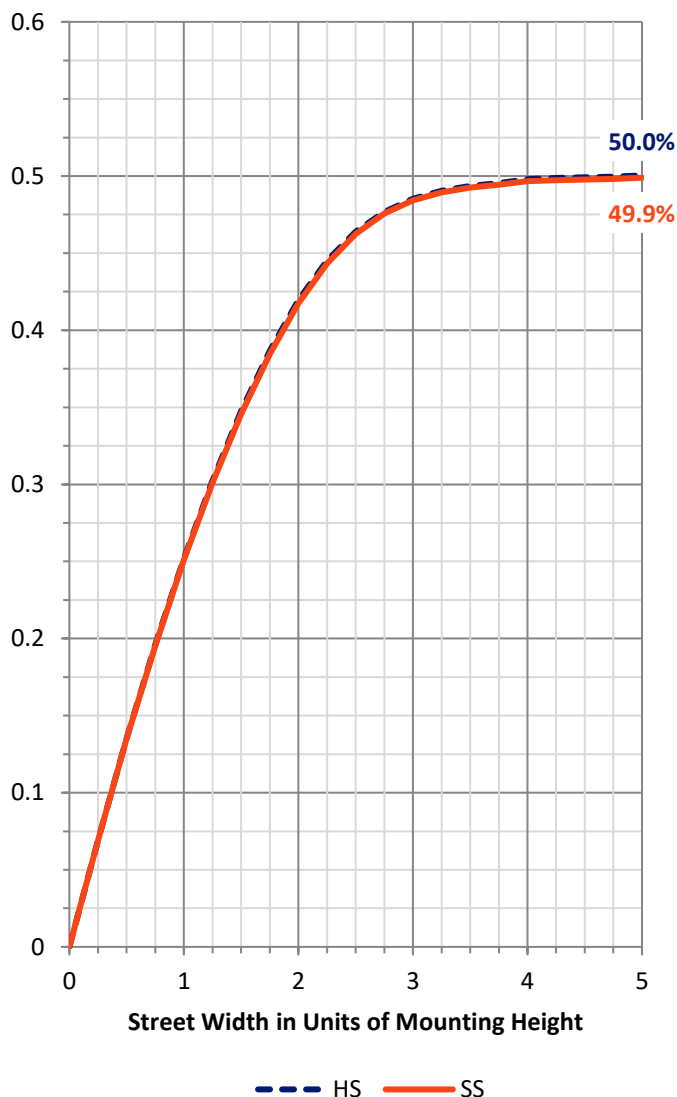
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 17811.0 | 0.0 | 17811.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 17811.0 | 0.0 | 17811.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 35622.0 | 0.0 | 35622.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 368.5 | 1.0 |
| 10°-20° | 1081.7 | 3.0 |
| 20°-30° | 1841.5 | 5.2 |
| 30°-40° | 2920.5 | 8.2 |
| 40°-50° | 4752.6 | 13.3 |
| 50°-60° | 7836.2 | 22.0 |
| 60°-70° | 11503.7 | 32.3 |
| 70°-80° | 5086.9 | 14.3 |
| 80°-90° | 230.4 | 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° | 35622.0 | 100.0 |
| 0°-180° | 35622.0 | 100.0 |

Coefficient of Utilization

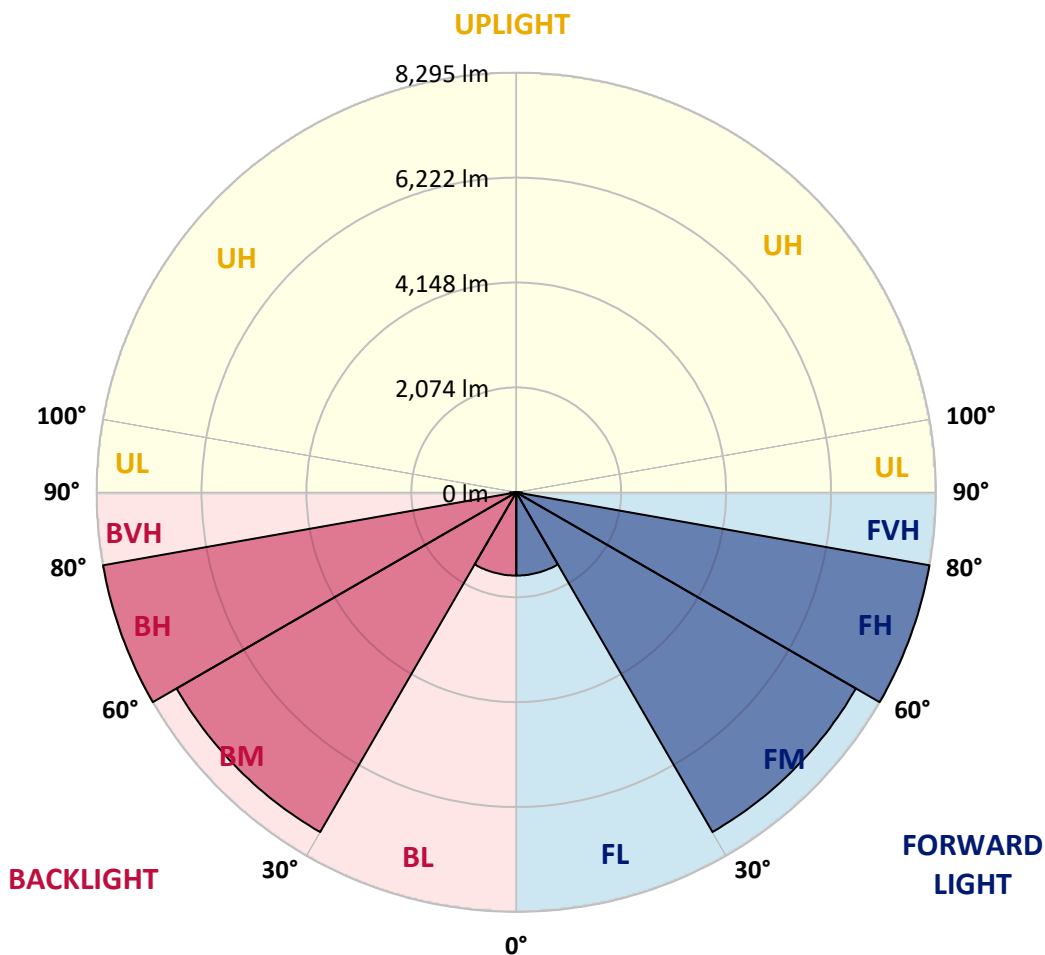


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1645.8 | 4.6 | | | |
| FM (30°-60°) | 7754.7 | 21.8 | | | |
| FH (60°-80°) | 8295.3 | 23.3 | | | G4/12000 |
| FVH (80°-90°) | 115.2 | 0.3 | | | G2/225 |
| BL (0°-30°) | 1645.8 | 4.6 | B3/2500 | | |
| BM (30°-60°) | 7754.7 | 21.8 | B4/8500 | | |
| BH (60°-80°) | 8295.3 | 23.3 | B5 | | G4/12000 |
| BVH (80°-90°) | 115.2 | 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° | 3890.5 | 3890.5 | 3890.5 | 3890.5 | 3890.5 | 3890.5 | 3890.5 | 3890.5 | 3890.5 | 3890.5 | 3890.5 |
| 2.5° | 3884.6 | 3881.0 | 3889.3 | 3888.1 | 3881.0 | 3882.2 | 3882.2 | 3885.8 | 3885.8 | 3883.4 | 3883.4 |
| 5° | 3870.4 | 3868.1 | 3877.5 | 3877.5 | 3870.4 | 3872.8 | 3875.2 | 3878.7 | 3877.5 | 3875.2 | 3874.0 |
| 7.5° | 3852.8 | 3851.6 | 3861.0 | 3861.0 | 3856.3 | 3858.6 | 3856.3 | 3857.5 | 3855.1 | 3852.8 | 3849.2 |
| 10° | 3823.3 | 3825.6 | 3833.9 | 3836.2 | 3836.2 | 3837.4 | 3835.1 | 3829.2 | 3825.6 | 3822.1 | 3818.6 |
| 12.5° | 3796.2 | 3795.0 | 3806.8 | 3812.7 | 3822.1 | 3832.7 | 3825.6 | 3809.1 | 3802.1 | 3795.0 | 3792.6 |
| 15° | 3778.5 | 3779.7 | 3791.4 | 3802.1 | 3818.6 | 3841.0 | 3832.7 | 3806.8 | 3792.6 | 3784.4 | 3782.0 |
| 17.5° | 3774.9 | 3777.3 | 3792.6 | 3811.5 | 3829.2 | 3853.9 | 3849.2 | 3823.3 | 3799.7 | 3784.4 | 3780.8 |
| 20° | 3783.2 | 3784.4 | 3808.0 | 3835.1 | 3865.7 | 3889.3 | 3878.7 | 3850.4 | 3818.6 | 3795.0 | 3789.1 |
| 22.5° | 3798.5 | 3803.2 | 3832.7 | 3875.2 | 3922.3 | 3954.1 | 3941.2 | 3892.8 | 3843.3 | 3813.8 | 3805.6 |
| 25° | 3846.9 | 3848.0 | 3888.1 | 3945.9 | 4002.5 | 4039.0 | 4023.7 | 3955.3 | 3891.7 | 3858.6 | 3848.0 |
| 27.5° | 3947.1 | 3950.6 | 3990.7 | 4057.9 | 4106.2 | 4129.8 | 4120.4 | 4065.0 | 4010.7 | 3975.4 | 3978.9 |
| 30° | 4092.1 | 4096.8 | 4141.6 | 4215.9 | 4245.3 | 4251.2 | 4248.9 | 4222.9 | 4173.4 | 4126.3 | 4129.8 |
| 32.5° | 4268.9 | 4271.3 | 4331.4 | 4398.6 | 4422.2 | 4426.9 | 4422.2 | 4398.6 | 4339.6 | 4276.0 | 4279.5 |
| 35° | 4496.4 | 4503.5 | 4561.3 | 4626.1 | 4645.0 | 4654.4 | 4646.2 | 4615.5 | 4554.2 | 4491.7 | 4489.4 |
| 37.5° | 4777.0 | 4778.2 | 4838.3 | 4905.5 | 4929.1 | 4931.5 | 4922.0 | 4902.0 | 4825.4 | 4768.8 | 4765.2 |
| 40° | 5102.4 | 5107.1 | 5177.9 | 5249.8 | 5259.2 | 5248.6 | 5261.6 | 5249.8 | 5170.8 | 5106.0 | 5116.6 |
| 42.5° | 5498.5 | 5509.2 | 5594.0 | 5664.8 | 5637.7 | 5631.8 | 5640.0 | 5643.5 | 5579.9 | 5500.9 | 5493.8 |
| 45° | 5959.5 | 5968.9 | 6075.0 | 6131.6 | 6113.9 | 6075.0 | 6091.5 | 6119.8 | 6031.4 | 5933.6 | 5943.0 |
| 47.5° | 6485.3 | 6508.9 | 6622.1 | 6675.1 | 6631.5 | 6578.4 | 6610.3 | 6652.7 | 6549.0 | 6427.5 | 6421.6 |
| 50° | 7070.1 | 7099.5 | 7250.4 | 7324.7 | 7281.1 | 7183.2 | 7236.3 | 7264.6 | 7114.9 | 6958.1 | 6945.1 |
| 52.5° | 7693.7 | 7723.2 | 7913.0 | 8066.3 | 8038.0 | 7885.9 | 7960.2 | 7930.7 | 7758.6 | 7547.5 | 7531.0 |
| 55° | 8399.9 | 8411.7 | 8616.8 | 8864.4 | 8892.7 | 8780.7 | 8776.0 | 8727.6 | 8473.0 | 8228.9 | 8217.2 |
| 57.5° | 9126.1 | 9134.4 | 9399.6 | 9692.0 | 9825.2 | 9825.2 | 9693.2 | 9590.6 | 9252.3 | 8969.3 | 8939.8 |
| 60° | 9910.1 | 9939.6 | 10233.1 | 10630.4 | 10941.7 | 11033.6 | 10800.2 | 10520.8 | 10153.0 | 9807.5 | 9773.3 |
| 62.5° | 10608.0 | 10642.2 | 11091.4 | 11683.2 | 12183.1 | 12517.9 | 11947.3 | 11492.2 | 10822.6 | 10268.5 | 10203.7 |
| 65° | 10696.5 | 10788.4 | 11442.7 | 12514.4 | 13633.2 | 14301.6 | 13207.6 | 12086.4 | 10866.2 | 10096.4 | 10030.4 |
| 67.5° | 9768.6 | 9924.3 | 10808.5 | 12476.6 | 14788.5 | 16223.3 | 14012.8 | 11746.9 | 10083.4 | 9232.2 | 9159.1 |
| 70° | 7506.3 | 7732.6 | 8752.4 | 10913.4 | 14589.3 | 16842.2 | 13508.2 | 10283.8 | 8407.0 | 7490.9 | 7388.4 |
| 72.5° | 4118.0 | 4211.1 | 5128.4 | 7473.3 | 11696.2 | 14312.2 | 11267.1 | 7604.1 | 5575.2 | 4536.5 | 4364.4 |
| 75° | 1306.3 | 1339.3 | 1806.1 | 3058.2 | 6616.2 | 9479.8 | 7157.3 | 3732.5 | 2054.9 | 1514.9 | 1497.2 |
| 77.5° | 580.0 | 583.6 | 653.1 | 892.5 | 2278.9 | 4803.0 | 2737.5 | 1016.2 | 700.3 | 611.9 | 631.9 |
| 80° | 366.6 | 366.6 | 404.4 | 442.1 | 620.1 | 1394.7 | 740.4 | 483.4 | 412.6 | 383.2 | 391.4 |
| 82.5° | 175.7 | 194.5 | 262.9 | 282.9 | 340.7 | 469.2 | 379.6 | 316.0 | 275.9 | 205.1 | 191.0 |
| 85° | 115.5 | 96.7 | 166.2 | 187.5 | 198.1 | 225.2 | 220.5 | 208.7 | 180.4 | 102.6 | 114.4 |
| 87.5° | 51.9 | 49.5 | 86.1 | 79.0 | 74.3 | 56.6 | 84.9 | 104.9 | 101.4 | 50.7 | 50.7 |
| 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)