

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: P533527

Luminaire Tested: **GLAN-SA9A-727-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9A-727-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23818 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

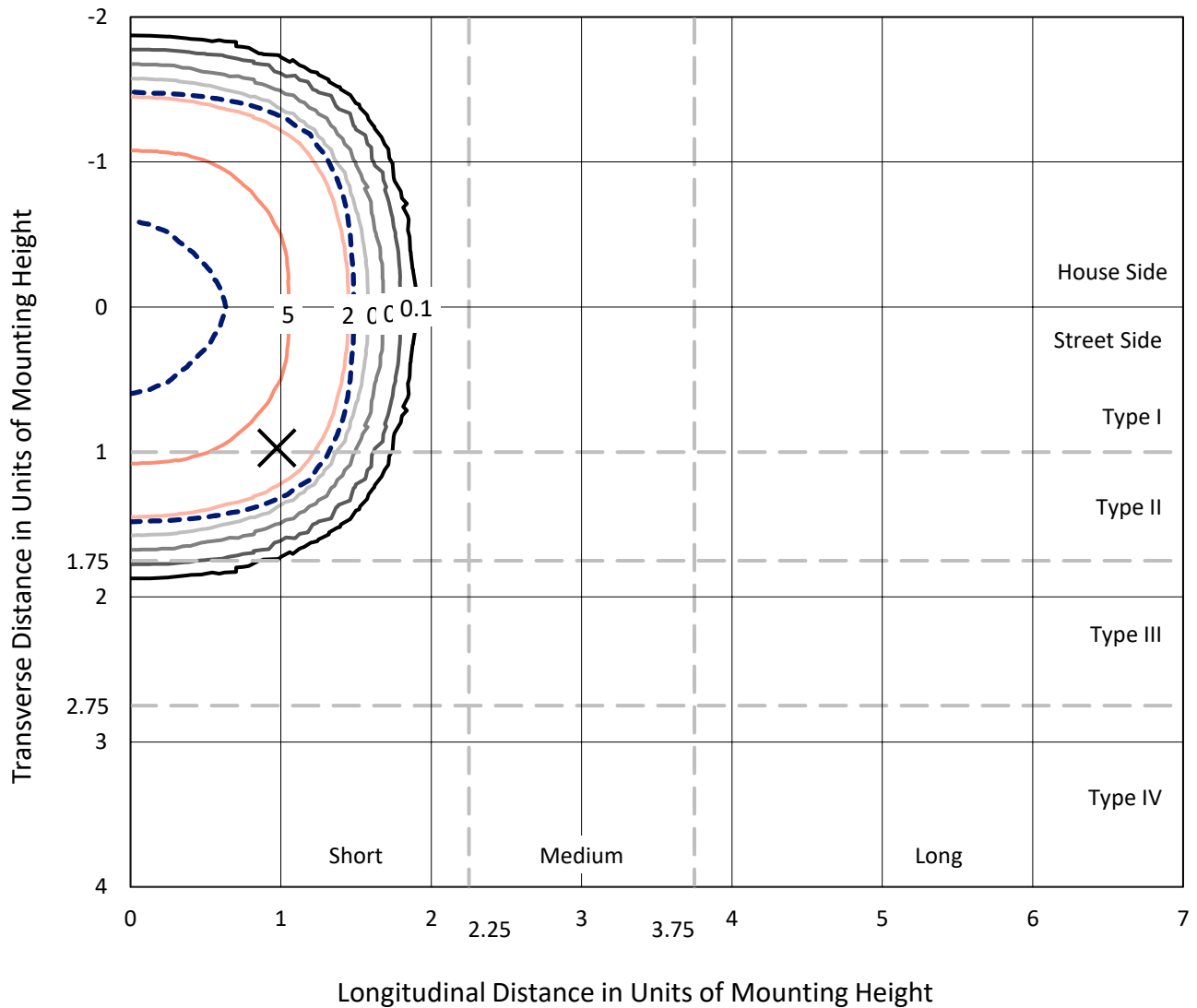
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

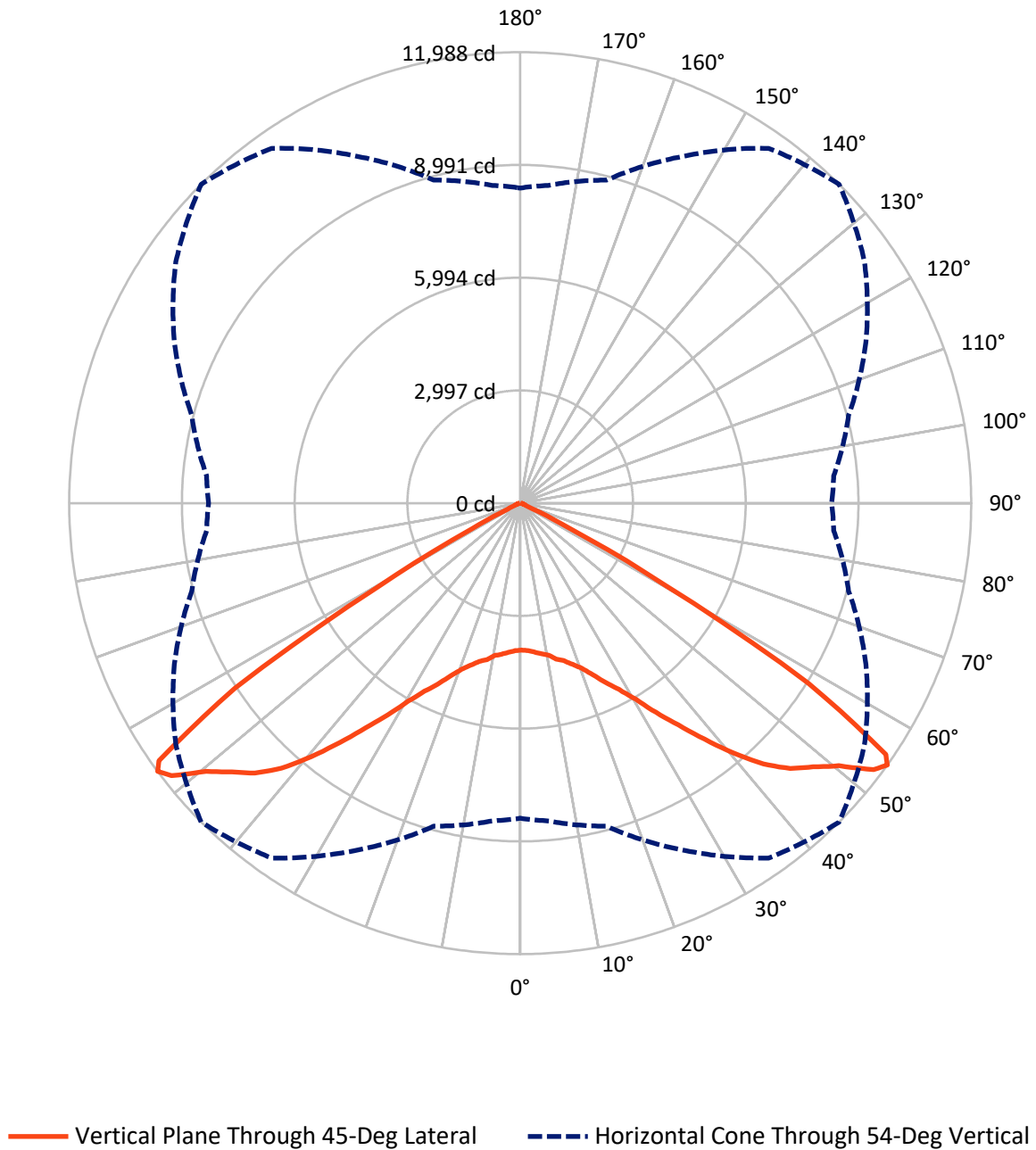
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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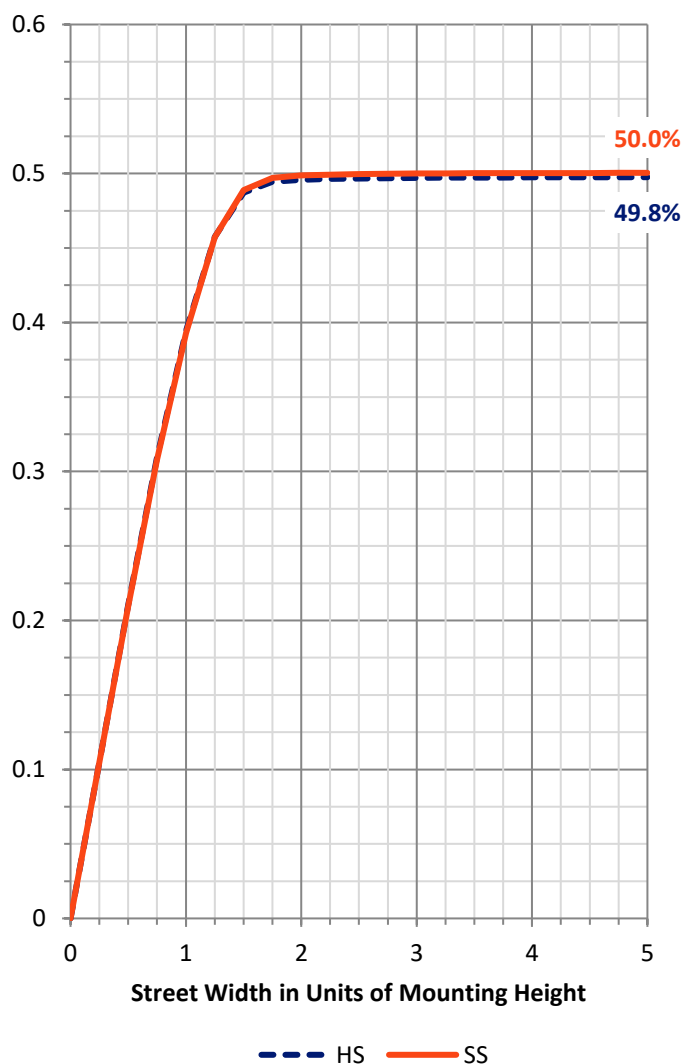
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11909.0 | 0.0 | 11909.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 11909.0 | 0.0 | 11909.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 23818.0 | 0.0 | 23818.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 382.2 | 1.6 |
| 10°-20° | 1237.9 | 5.2 |
| 20°-30° | 2426.1 | 10.2 |
| 30°-40° | 4362.7 | 18.3 |
| 40°-50° | 7468.1 | 31.4 |
| 50°-60° | 7226.1 | 30.3 |
| 60°-70° | 618.6 | 2.6 |
| 70°-80° | 73.3 | 0.3 |
| 80°-90° | 23.0 | 0.1 |
| 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° | 23818.0 | 100.0 |
| 0°-180° | 23818.0 | 100.0 |

Coefficient of Utilization



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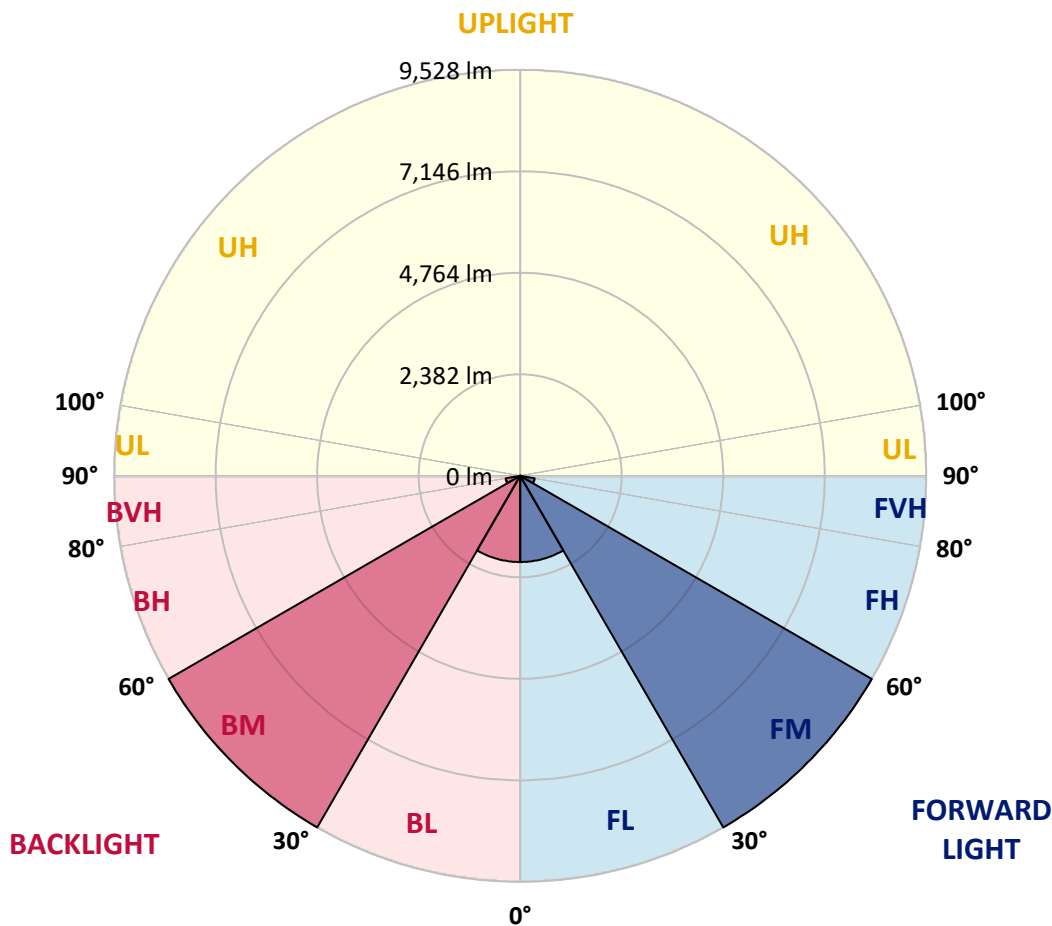
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2023.1 | 8.5 | | | |
| FM (30°-60°) | 9528.4 | 40.0 | | | |
| FH (60°-80°) | 345.9 | 1.5 | | | G0/660 |
| FVH (80°-90°) | 11.5 | 0.0 | | | G1/100 |
| BL (0°-30°) | 2023.1 | 8.5 | B3/2500 | | |
| BM (30°-60°) | 9528.4 | 40.0 | B5 | | |
| BH (60°-80°) | 345.9 | 1.5 | B1/500 | | G0/660 |
| BVH (80°-90°) | 11.5 | 0.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 3905.4 | 3905.4 | 3905.4 | 3905.4 | 3905.4 | 3905.4 | 3905.4 | 3905.4 | 3905.4 | 3905.4 | 3905.4 |
| 2.5° | 3924.3 | 3946.9 | 3931.8 | 3943.1 | 3943.1 | 3924.3 | 3935.6 | 3890.3 | 3920.5 | 3897.9 | 3901.6 |
| 5° | 3984.7 | 3980.9 | 3980.9 | 3984.7 | 3969.6 | 3977.1 | 3962.0 | 3946.9 | 3935.6 | 3920.5 | 3965.8 |
| 7.5° | 4060.1 | 4060.1 | 4033.7 | 4041.3 | 4033.7 | 4045.0 | 4014.8 | 3984.7 | 3973.3 | 3962.0 | 3954.5 |
| 10° | 4131.8 | 4124.3 | 4112.9 | 4146.9 | 4120.5 | 4105.4 | 4090.3 | 4071.4 | 4029.9 | 4014.8 | 3999.7 |
| 12.5° | 4237.5 | 4233.7 | 4218.6 | 4252.6 | 4237.5 | 4252.6 | 4196.0 | 4146.9 | 4139.4 | 4090.3 | 4116.7 |
| 15° | 4362.0 | 4395.9 | 4369.5 | 4369.5 | 4362.0 | 4343.1 | 4320.5 | 4297.8 | 4229.9 | 4211.1 | 4214.8 |
| 17.5° | 4524.2 | 4512.9 | 4516.7 | 4516.7 | 4554.4 | 4505.4 | 4460.1 | 4403.5 | 4369.5 | 4358.2 | 4320.5 |
| 20° | 4678.9 | 4694.0 | 4690.3 | 4716.7 | 4739.3 | 4686.5 | 4637.4 | 4629.9 | 4535.6 | 4550.7 | 4497.8 |
| 22.5° | 4950.6 | 4939.3 | 4958.2 | 4977.0 | 4961.9 | 4954.4 | 4909.1 | 4852.5 | 4769.5 | 4731.8 | 4724.2 |
| 25° | 5237.4 | 5218.5 | 5184.6 | 5229.9 | 5252.5 | 5286.5 | 5199.7 | 5169.5 | 5041.2 | 4984.6 | 4988.4 |
| 27.5° | 5482.7 | 5509.1 | 5546.8 | 5565.7 | 5622.3 | 5611.0 | 5550.6 | 5452.5 | 5354.4 | 5290.2 | 5248.7 |
| 30° | 5818.5 | 5833.6 | 5897.7 | 5924.1 | 6022.3 | 6048.7 | 5954.3 | 5841.1 | 5667.6 | 5584.5 | 5535.5 |
| 32.5° | 6127.9 | 6233.6 | 6229.8 | 6361.9 | 6520.3 | 6629.8 | 6460.0 | 6286.4 | 6112.8 | 6014.7 | 5927.9 |
| 35° | 6629.8 | 6610.9 | 6720.3 | 6859.9 | 7116.5 | 7241.0 | 7056.2 | 6856.2 | 6592.0 | 6433.5 | 6365.6 |
| 37.5° | 7097.7 | 7105.2 | 7252.4 | 7475.0 | 7769.3 | 7961.8 | 7799.5 | 7471.2 | 7199.5 | 6995.8 | 6901.4 |
| 40° | 7776.9 | 7792.0 | 7942.9 | 8195.7 | 8527.8 | 8735.3 | 8546.6 | 8214.6 | 7852.3 | 7693.8 | 7693.8 |
| 42.5° | 8573.0 | 8637.2 | 8735.3 | 8954.1 | 9252.2 | 9482.4 | 9312.6 | 9052.2 | 8686.2 | 8482.5 | 8512.7 |
| 45° | 9391.9 | 9422.0 | 9486.2 | 9810.7 | 9950.3 | 10063.5 | 9905.0 | 9784.3 | 9539.0 | 9290.0 | 9248.5 |
| 47.5° | 10157.8 | 10169.2 | 10357.8 | 10459.7 | 10569.1 | 10474.8 | 10576.7 | 10418.2 | 10142.7 | 9901.3 | 9852.2 |
| 50° | 10497.4 | 10478.6 | 10746.5 | 11055.9 | 11138.9 | 10972.9 | 10886.1 | 10780.4 | 10361.6 | 10071.1 | 9942.8 |
| 52.5° | 9508.8 | 9618.3 | 10116.3 | 10976.7 | 11625.7 | 11765.3 | 11259.7 | 10772.9 | 9991.8 | 9425.8 | 9339.0 |
| 54° | 8376.8 | 8478.7 | 8890.0 | 10165.4 | 11516.2 | 11987.9 | 11172.9 | 10139.0 | 9037.2 | 8365.5 | 8278.7 |
| 55° | 7256.1 | 7142.9 | 7890.1 | 9191.9 | 11003.1 | 11791.7 | 10829.5 | 9320.2 | 8059.9 | 7444.8 | 7324.1 |
| 57.5° | 3928.0 | 3946.9 | 4577.1 | 5807.2 | 7731.6 | 9040.9 | 7984.4 | 6305.3 | 4762.0 | 4071.4 | 4011.1 |
| 60° | 1245.2 | 1275.4 | 1550.8 | 2347.0 | 3694.1 | 4411.0 | 3780.9 | 2531.9 | 1750.8 | 1403.7 | 1347.1 |
| 62.5° | 388.7 | 403.7 | 441.5 | 656.6 | 1011.3 | 1445.2 | 1132.0 | 679.2 | 505.6 | 464.1 | 471.7 |
| 65° | 237.7 | 237.7 | 241.5 | 256.6 | 301.9 | 350.9 | 339.6 | 298.1 | 286.8 | 279.2 | 275.5 |
| 67.5° | 154.7 | 150.9 | 158.5 | 169.8 | 177.3 | 181.1 | 192.4 | 203.8 | 200.0 | 192.4 | 192.4 |
| 70° | 94.3 | 90.6 | 98.1 | 113.2 | 117.0 | 124.5 | 135.8 | 150.9 | 147.2 | 139.6 | 143.4 |
| 72.5° | 52.8 | 52.8 | 56.6 | 67.9 | 79.2 | 86.8 | 98.1 | 109.4 | 113.2 | 109.4 | 109.4 |
| 75° | 18.9 | 22.6 | 30.2 | 41.5 | 49.1 | 60.4 | 71.7 | 83.0 | 94.3 | 86.8 | 83.0 |
| 77.5° | 7.5 | 7.5 | 15.1 | 26.4 | 37.7 | 49.1 | 67.9 | 79.2 | 86.8 | 79.2 | 71.7 |
| 80° | 3.8 | 3.8 | 11.3 | 22.6 | 34.0 | 45.3 | 56.6 | 67.9 | 71.7 | 64.1 | 56.6 |
| 82.5° | 3.8 | 3.8 | 11.3 | 22.6 | 34.0 | 41.5 | 60.4 | 67.9 | 75.5 | 67.9 | 56.6 |
| 85° | 0.0 | 3.8 | 11.3 | 22.6 | 30.2 | 34.0 | 34.0 | 22.6 | 18.9 | 11.3 | 11.3 |
| 87.5° | 0.0 | 0.0 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)