

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: P533529

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9A-727-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18085 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

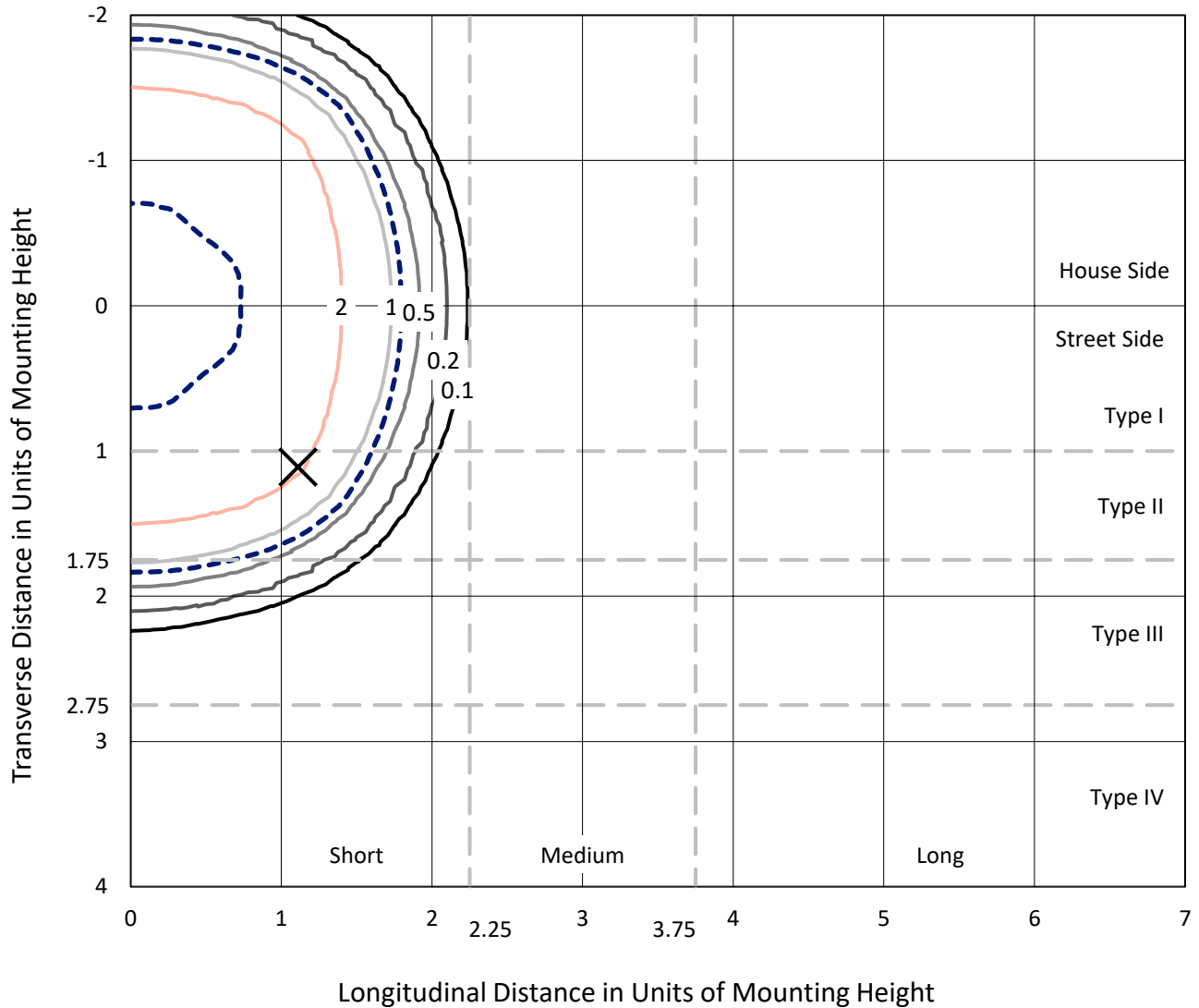
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

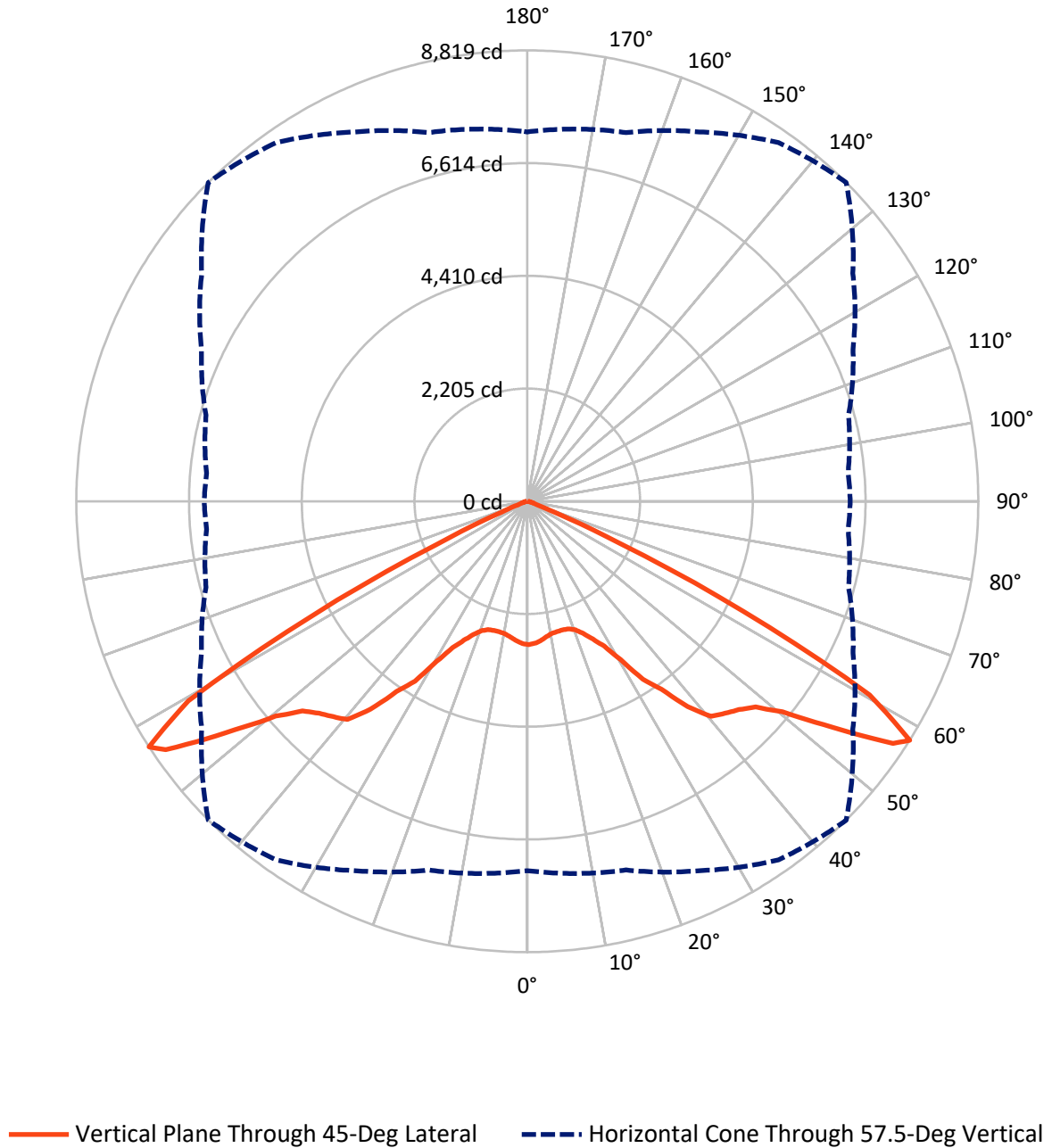
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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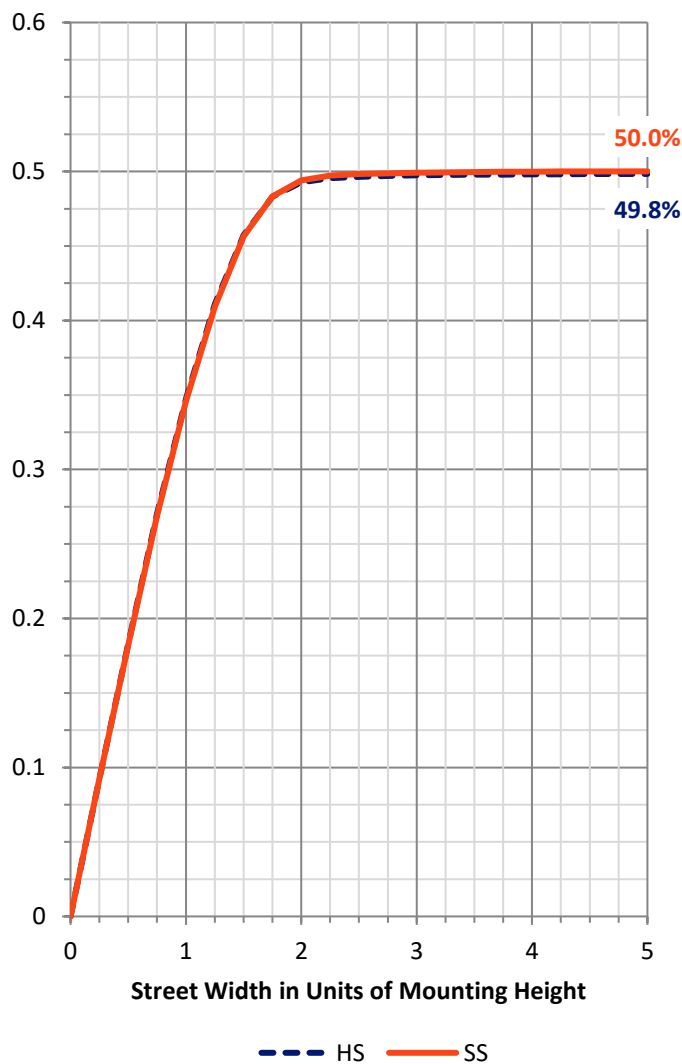
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9042.5 | 0.0 | 9042.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9042.5 | 0.0 | 9042.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 18085.0 | 0.0 | 18085.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 257.8 | 1.4 |
| 10°-20° | 745.1 | 4.1 |
| 20°-30° | 1375.4 | 7.6 |
| 30°-40° | 2704.8 | 15.0 |
| 40°-50° | 4405.4 | 24.4 |
| 50°-60° | 6282.7 | 34.7 |
| 60°-70° | 2175.2 | 12.0 |
| 70°-80° | 116.7 | 0.6 |
| 80°-90° | 21.9 | 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° | 18085.0 | 100.0 |
| 0°-180° | 18085.0 | 100.0 |

Coefficient of Utilization

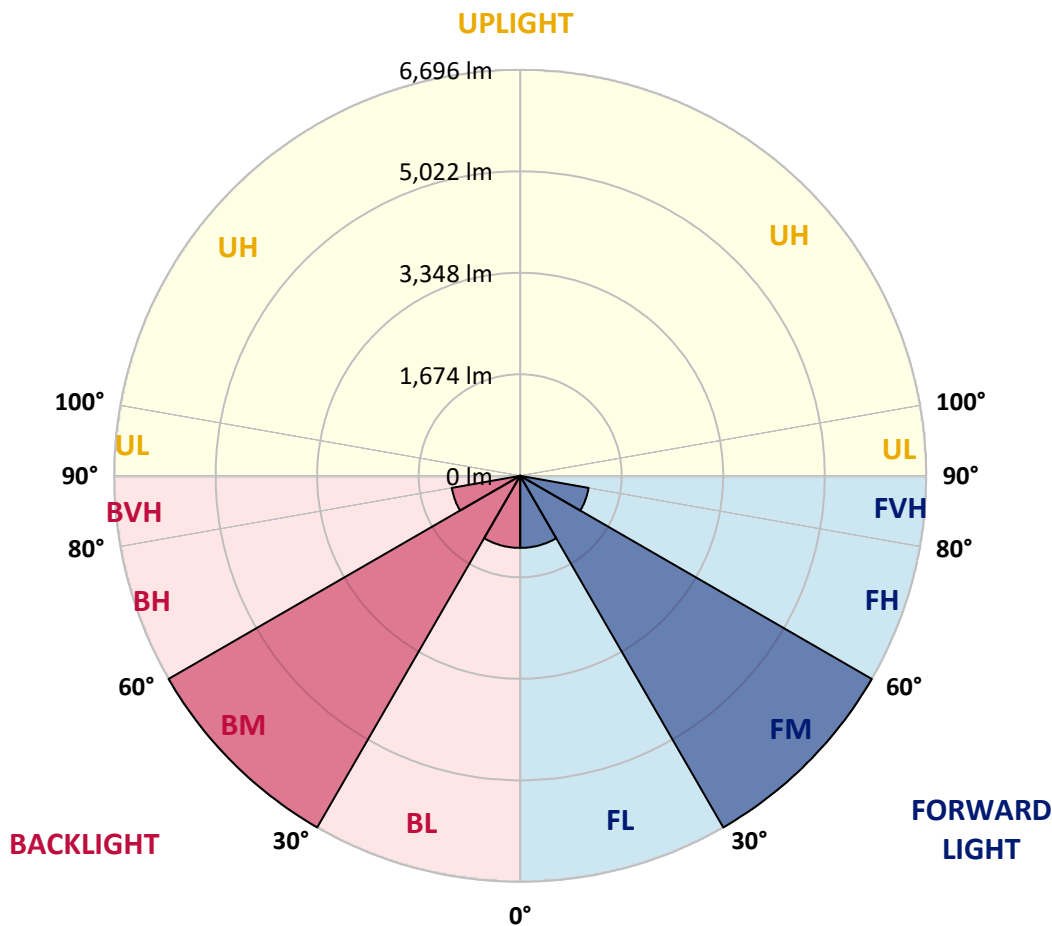


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1189.1 | 6.6 | | | |
| FM (30°-60°) | 6696.5 | 37.0 | | | |
| FH (60°-80°) | 1146.0 | 6.3 | | | G1/1800 |
| FVH (80°-90°) | 11.0 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1189.1 | 6.6 | B3/2500 | | |
| BM (30°-60°) | 6696.5 | 37.0 | B4/8500 | | |
| BH (60°-80°) | 1146.0 | 6.3 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 11.0 | 0.1 | | | 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° | 2805.2 | 2805.2 | 2805.2 | 2805.2 | 2805.2 | 2805.2 | 2805.2 | 2805.2 | 2805.2 | 2805.2 | 2805.2 |
| 2.5° | 2797.6 | 2812.7 | 2793.9 | 2786.3 | 2782.6 | 2782.6 | 2771.2 | 2771.2 | 2767.5 | 2771.2 | 2756.2 |
| 5° | 2752.4 | 2767.5 | 2767.5 | 2763.7 | 2741.1 | 2737.3 | 2726.0 | 2718.5 | 2722.2 | 2707.1 | 2718.5 |
| 7.5° | 2707.1 | 2718.5 | 2703.4 | 2699.6 | 2692.1 | 2677.0 | 2673.2 | 2639.3 | 2643.0 | 2643.0 | 2650.6 |
| 10° | 2699.6 | 2695.8 | 2673.2 | 2654.4 | 2631.7 | 2628.0 | 2616.7 | 2609.1 | 2609.1 | 2605.3 | 2616.7 |
| 12.5° | 2699.6 | 2680.7 | 2677.0 | 2635.5 | 2597.8 | 2612.9 | 2582.7 | 2563.9 | 2590.3 | 2597.8 | 2612.9 |
| 15° | 2695.8 | 2714.7 | 2650.6 | 2631.7 | 2605.3 | 2609.1 | 2582.7 | 2563.9 | 2578.9 | 2586.5 | 2597.8 |
| 17.5° | 2718.5 | 2707.1 | 2688.3 | 2650.6 | 2639.3 | 2624.2 | 2590.3 | 2575.2 | 2575.2 | 2594.0 | 2597.8 |
| 20° | 2778.8 | 2748.6 | 2710.9 | 2692.1 | 2703.4 | 2684.5 | 2643.0 | 2586.5 | 2601.6 | 2616.7 | 2628.0 |
| 22.5° | 2835.3 | 2812.7 | 2786.3 | 2775.0 | 2839.1 | 2808.9 | 2737.3 | 2673.2 | 2650.6 | 2677.0 | 2695.8 |
| 25° | 2944.7 | 2944.7 | 2895.7 | 2910.7 | 2982.4 | 2986.2 | 2903.2 | 2790.1 | 2775.0 | 2786.3 | 2793.9 |
| 27.5° | 3167.1 | 3178.4 | 3137.0 | 3152.0 | 3182.2 | 3208.6 | 3137.0 | 3042.7 | 3008.8 | 3005.0 | 3016.3 |
| 30° | 3408.4 | 3431.1 | 3427.3 | 3491.4 | 3578.1 | 3593.2 | 3487.6 | 3333.0 | 3231.2 | 3212.4 | 3227.5 |
| 32.5° | 3725.1 | 3736.5 | 3728.9 | 3804.3 | 4038.1 | 4147.4 | 3872.2 | 3653.5 | 3517.8 | 3551.7 | 3517.8 |
| 35° | 4320.9 | 4309.6 | 4226.6 | 4241.7 | 4434.0 | 4513.2 | 4249.2 | 4109.7 | 4045.6 | 4113.5 | 4098.4 |
| 37.5° | 4833.6 | 4792.2 | 4724.3 | 4822.3 | 5022.2 | 5093.8 | 4818.6 | 4573.5 | 4456.6 | 4569.7 | 4618.7 |
| 40° | 5267.2 | 5161.7 | 5067.4 | 5165.4 | 5433.1 | 5531.2 | 5127.7 | 4927.9 | 4882.7 | 4965.6 | 5071.2 |
| 42.5° | 5633.0 | 5565.1 | 5440.7 | 5448.2 | 5625.4 | 5670.7 | 5346.4 | 5229.5 | 5184.3 | 5316.3 | 5369.0 |
| 45° | 5893.1 | 5829.0 | 5712.1 | 5704.6 | 5840.3 | 5810.2 | 5519.9 | 5440.7 | 5467.1 | 5553.8 | 5580.2 |
| 47.5° | 6025.1 | 6059.0 | 5991.2 | 6010.0 | 6081.6 | 6010.0 | 5780.0 | 5780.0 | 5719.7 | 5772.5 | 5746.1 |
| 50° | 6405.9 | 6300.3 | 6387.0 | 6387.0 | 6462.5 | 6470.0 | 6240.0 | 6157.1 | 5994.9 | 5904.4 | 5904.4 |
| 52.5° | 6850.8 | 6858.3 | 6892.3 | 7016.7 | 7144.9 | 7254.2 | 6926.2 | 6571.8 | 6300.3 | 6183.4 | 6168.4 |
| 55° | 7216.5 | 7291.9 | 7427.7 | 7661.4 | 8030.9 | 8181.8 | 7616.2 | 6982.8 | 6651.0 | 6470.0 | 6432.3 |
| 56° | 7416.4 | 7344.7 | 7578.5 | 7899.0 | 8381.6 | 8577.6 | 7729.3 | 7065.7 | 6700.0 | 6496.4 | 6492.6 |
| 57.5° | 7224.1 | 7303.3 | 7465.4 | 7970.6 | 8562.6 | 8819.0 | 7770.8 | 7028.0 | 6503.9 | 6296.6 | 6315.4 |
| 60° | 5704.6 | 5780.0 | 5998.7 | 6564.3 | 7491.8 | 7691.6 | 6575.6 | 5795.1 | 5327.6 | 5029.7 | 5033.5 |
| 62.5° | 3227.5 | 3284.0 | 3453.7 | 3977.8 | 4554.6 | 4746.9 | 4098.4 | 3578.1 | 3253.8 | 3088.0 | 3035.2 |
| 65° | 1187.7 | 1165.1 | 1191.4 | 1459.1 | 1813.6 | 1975.7 | 1704.2 | 1440.3 | 1270.6 | 1210.3 | 1187.7 |
| 67.5° | 444.9 | 411.0 | 384.6 | 411.0 | 516.5 | 546.7 | 501.5 | 418.5 | 392.1 | 403.4 | 411.0 |
| 70° | 275.2 | 260.2 | 207.4 | 196.1 | 192.3 | 188.5 | 199.8 | 211.1 | 241.3 | 282.8 | 290.3 |
| 72.5° | 192.3 | 181.0 | 147.0 | 139.5 | 132.0 | 128.2 | 147.0 | 162.1 | 188.5 | 218.7 | 222.5 |
| 75° | 75.4 | 79.2 | 75.4 | 82.9 | 86.7 | 90.5 | 105.6 | 116.9 | 128.2 | 128.2 | 124.4 |
| 77.5° | 15.1 | 15.1 | 22.6 | 30.2 | 37.7 | 49.0 | 71.6 | 82.9 | 86.7 | 82.9 | 71.6 |
| 80° | 0.0 | 0.0 | 7.5 | 15.1 | 30.2 | 41.5 | 64.1 | 71.6 | 79.2 | 71.6 | 56.6 |
| 82.5° | 0.0 | 0.0 | 7.5 | 18.9 | 30.2 | 37.7 | 60.3 | 75.4 | 86.7 | 79.2 | 60.3 |
| 85° | 0.0 | 0.0 | 7.5 | 15.1 | 22.6 | 26.4 | 26.4 | 18.9 | 18.9 | 11.3 | 7.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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)