

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: P533715

Luminaire Tested: **GLAN-SA9A-830-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9A-830-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21290 lumens
Efficiency: N/A
Efficacy: 77.7 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

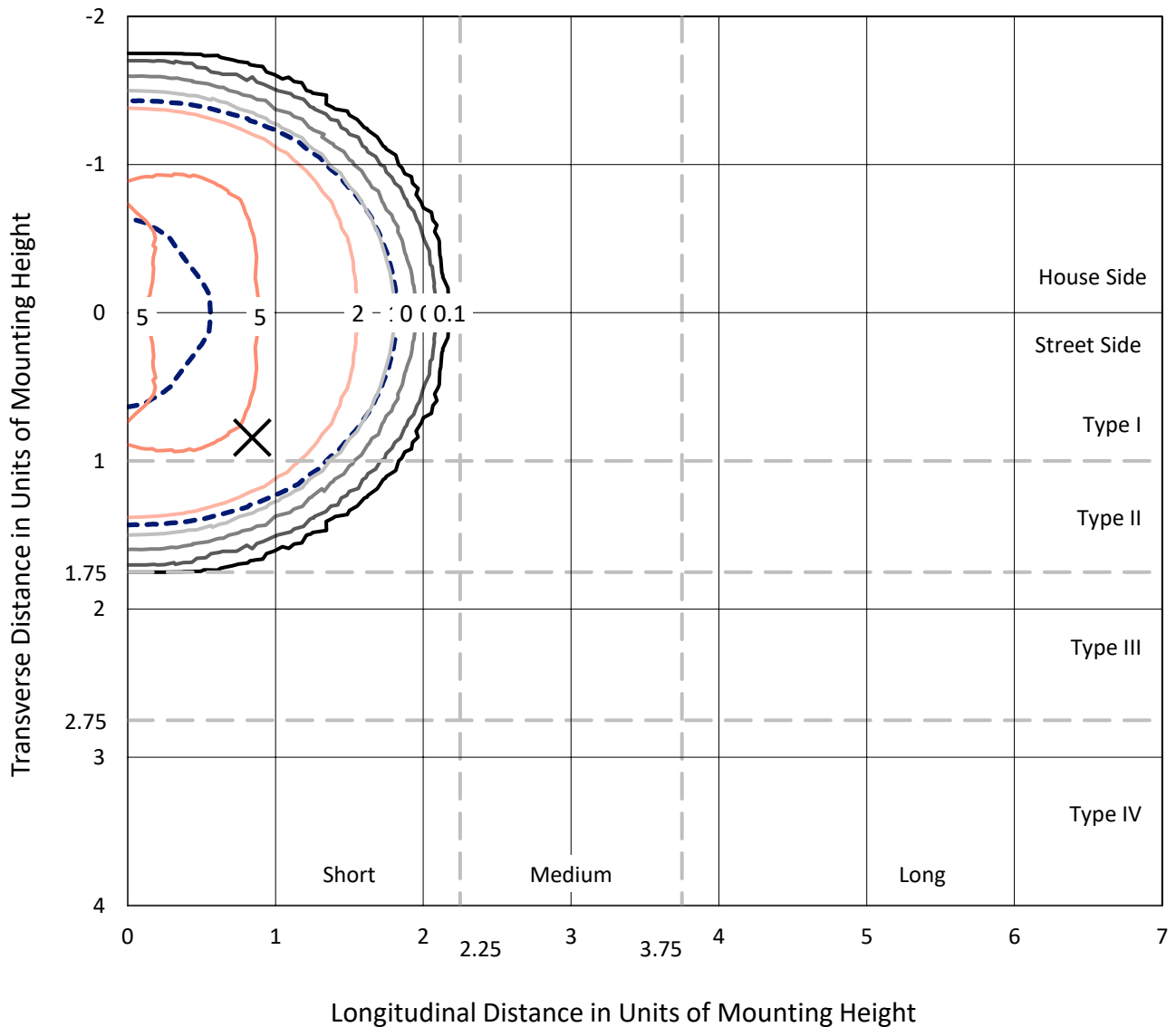
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

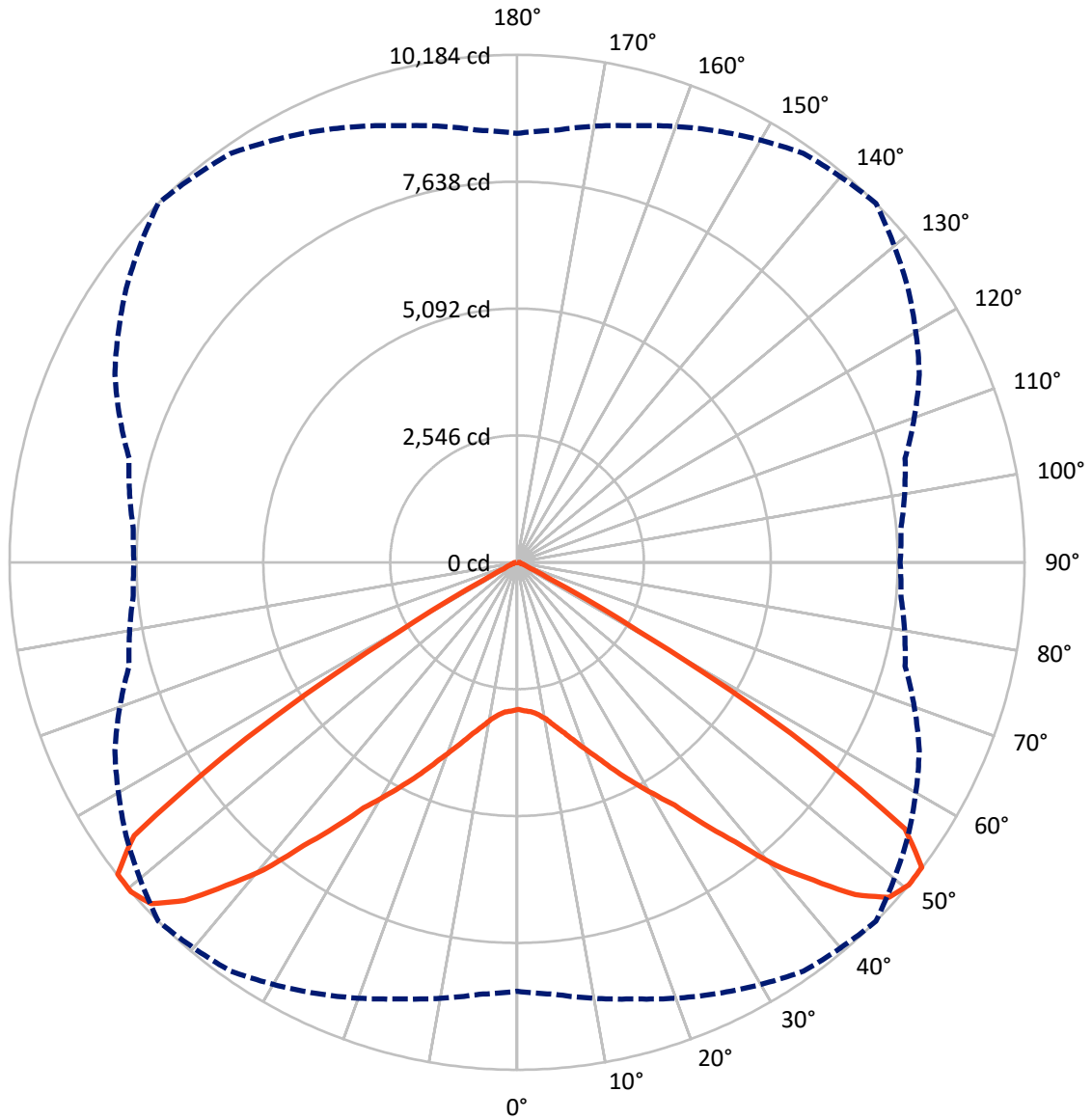
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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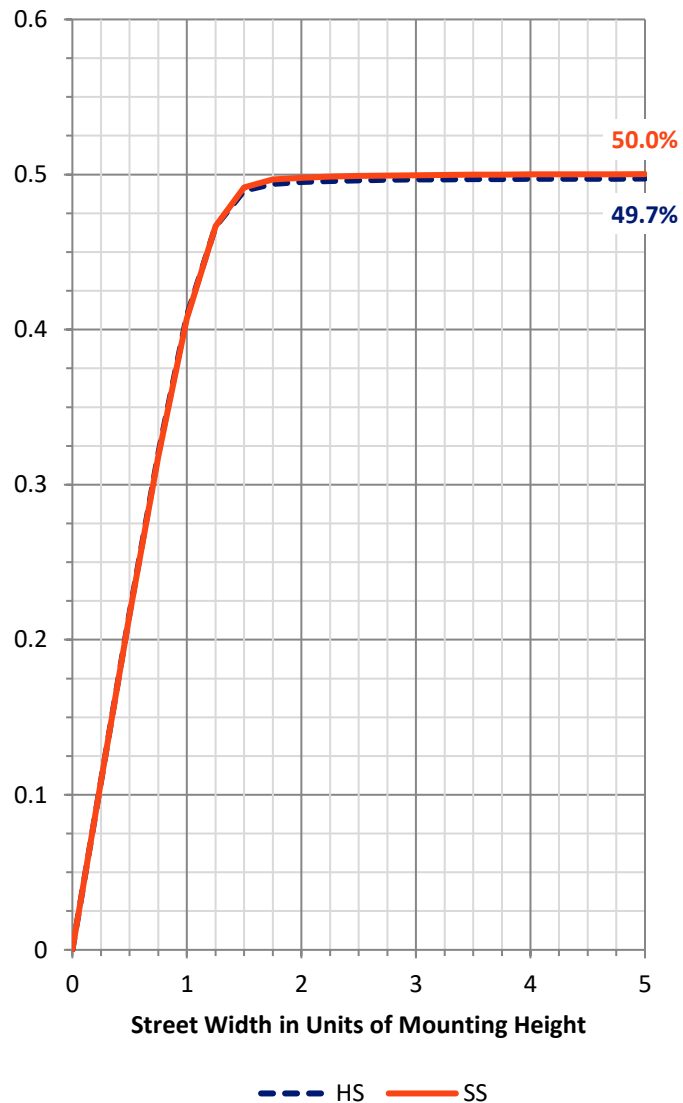
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10645.0 | 0.0 | 10645.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 10645.0 | 0.0 | 10645.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 21290.0 | 0.0 | 21290.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 293.6 | 1.4 |
| 10°-20° | 1012.1 | 4.8 |
| 20°-30° | 2067.0 | 9.7 |
| 30°-40° | 3941.8 | 18.5 |
| 40°-50° | 6642.5 | 31.2 |
| 50°-60° | 6334.8 | 29.8 |
| 60°-70° | 884.3 | 4.2 |
| 70°-80° | 84.6 | 0.4 |
| 80°-90° | 29.2 | 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° | 21290.0 | 100.0 |
| 0°-180° | 21290.0 | 100.0 |

Coefficient of Utilization



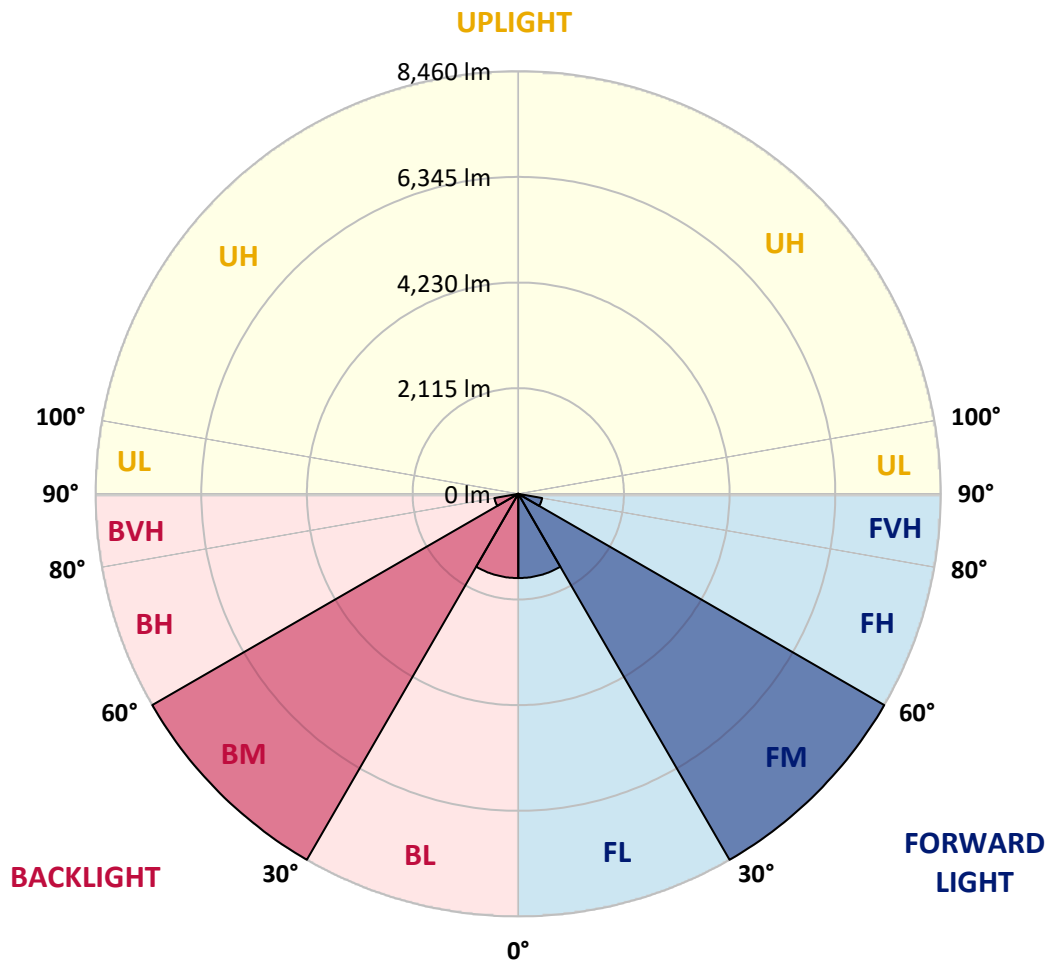
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1686.4 | 7.9 | | | |
| FM (30°-60°) | 8459.6 | 39.7 | | | |
| FH (60°-80°) | 484.4 | 2.3 | | | G0/660 |
| FVH (80°-90°) | 14.6 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1686.4 | 7.9 | B3/2500 | | |
| BM (30°-60°) | 8459.6 | 39.7 | B4/8500 | | |
| BH (60°-80°) | 484.4 | 2.3 | B1/500 | | G0/660 |
| BVH (80°-90°) | 14.6 | 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° | 2951.6 | 2951.6 | 2951.6 | 2951.6 | 2951.6 | 2951.6 | 2951.6 | 2951.6 | 2951.6 | 2951.6 | 2951.6 |
| 2.5° | 2940.9 | 2940.9 | 2937.3 | 2966.0 | 2951.6 | 2983.9 | 2980.3 | 2991.0 | 3001.8 | 2998.2 | 3026.8 |
| 5° | 2915.8 | 2912.2 | 2912.2 | 2944.5 | 2976.7 | 3012.5 | 3044.8 | 3066.3 | 3102.1 | 3102.1 | 3137.9 |
| 7.5° | 2940.9 | 2923.0 | 2948.0 | 2962.4 | 3023.3 | 3084.2 | 3137.9 | 3180.9 | 3263.3 | 3291.9 | 3281.2 |
| 10° | 2948.0 | 2969.5 | 2987.4 | 3030.4 | 3105.7 | 3198.8 | 3245.4 | 3352.8 | 3445.9 | 3510.4 | 3524.8 |
| 12.5° | 2994.6 | 3026.8 | 3077.0 | 3180.9 | 3248.9 | 3370.7 | 3435.2 | 3539.1 | 3668.0 | 3739.7 | 3789.8 |
| 15° | 3084.2 | 3094.9 | 3159.4 | 3291.9 | 3438.8 | 3549.8 | 3650.1 | 3725.4 | 3850.7 | 3933.1 | 3936.7 |
| 17.5° | 3198.8 | 3245.4 | 3334.9 | 3460.3 | 3614.3 | 3779.1 | 3857.9 | 3940.3 | 3986.8 | 4097.9 | 4123.0 |
| 20° | 3428.0 | 3435.2 | 3521.2 | 3685.9 | 3879.4 | 4029.8 | 4087.1 | 4130.1 | 4112.2 | 4226.8 | 4248.3 |
| 22.5° | 3643.0 | 3650.1 | 3757.6 | 3979.7 | 4187.4 | 4316.4 | 4341.5 | 4316.4 | 4262.7 | 4345.0 | 4352.2 |
| 25° | 3861.5 | 3925.9 | 4004.8 | 4226.8 | 4484.7 | 4656.7 | 4660.3 | 4592.2 | 4481.2 | 4495.5 | 4531.3 |
| 27.5° | 4201.8 | 4248.3 | 4330.7 | 4534.9 | 4817.9 | 5011.3 | 4979.1 | 4896.7 | 4753.4 | 4764.2 | 4753.4 |
| 30° | 4599.4 | 4642.4 | 4710.4 | 4971.9 | 5179.7 | 5391.0 | 5437.6 | 5358.8 | 5143.9 | 5097.3 | 5151.0 |
| 32.5° | 5079.4 | 5140.3 | 5265.6 | 5505.6 | 5681.2 | 5810.1 | 5842.4 | 5813.7 | 5613.1 | 5595.2 | 5631.0 |
| 35° | 5663.2 | 5745.6 | 5860.3 | 6071.6 | 6214.9 | 6447.7 | 6447.7 | 6351.0 | 6168.3 | 6189.8 | 6186.2 |
| 37.5° | 6279.4 | 6401.2 | 6580.3 | 6795.2 | 6988.6 | 7114.0 | 7074.6 | 6992.2 | 6809.5 | 6762.9 | 6809.5 |
| 40° | 7053.1 | 7114.0 | 7339.7 | 7619.1 | 7855.5 | 7998.8 | 7830.4 | 7651.3 | 7214.3 | 7282.3 | 7407.7 |
| 42.5° | 7758.8 | 7855.5 | 8027.4 | 8335.5 | 8604.1 | 8722.3 | 8521.7 | 8167.1 | 7640.6 | 7586.8 | 7680.0 |
| 45° | 8360.5 | 8464.4 | 8690.1 | 9130.7 | 9413.7 | 9517.6 | 9073.4 | 8500.2 | 7898.5 | 7762.3 | 7801.7 |
| 47.5° | 8761.7 | 8815.5 | 9130.7 | 9549.8 | 9807.7 | 10044.1 | 9406.5 | 8729.5 | 8020.3 | 7762.3 | 7748.0 |
| 50° | 8607.7 | 8700.8 | 9069.8 | 9546.2 | 10015.5 | 10183.8 | 9574.9 | 8905.0 | 8059.7 | 7730.1 | 7687.1 |
| 52.5° | 7644.1 | 7805.3 | 8217.3 | 8858.5 | 9567.7 | 10169.5 | 9807.7 | 8847.7 | 8045.3 | 7762.3 | 7826.8 |
| 55° | 5319.4 | 5323.0 | 5824.4 | 6770.1 | 8023.8 | 9442.3 | 9467.4 | 8912.2 | 8138.5 | 7962.9 | 7966.5 |
| 57.5° | 2138.5 | 2246.0 | 2629.2 | 3578.5 | 4735.5 | 6483.5 | 7708.6 | 8267.4 | 8149.2 | 8106.2 | 8217.3 |
| 60° | 540.9 | 544.5 | 662.7 | 1010.1 | 1665.7 | 2779.7 | 4037.0 | 5462.7 | 6290.1 | 6573.1 | 6612.5 |
| 62.5° | 275.8 | 279.4 | 308.1 | 358.2 | 454.9 | 745.1 | 1325.4 | 2102.7 | 2991.0 | 3442.4 | 3560.6 |
| 65° | 225.7 | 225.7 | 243.6 | 268.7 | 272.2 | 286.6 | 343.9 | 490.7 | 712.8 | 809.5 | 820.3 |
| 67.5° | 171.9 | 171.9 | 186.3 | 200.6 | 207.8 | 204.2 | 197.0 | 204.2 | 247.2 | 236.4 | 229.3 |
| 70° | 107.5 | 111.0 | 118.2 | 132.5 | 139.7 | 143.3 | 146.9 | 154.0 | 175.5 | 182.7 | 175.5 |
| 72.5° | 64.5 | 64.5 | 68.1 | 78.8 | 89.6 | 96.7 | 107.5 | 114.6 | 125.4 | 143.3 | 139.7 |
| 75° | 28.7 | 28.7 | 35.8 | 46.6 | 57.3 | 68.1 | 78.8 | 89.6 | 96.7 | 107.5 | 111.0 |
| 77.5° | 7.2 | 10.7 | 17.9 | 32.2 | 43.0 | 57.3 | 71.6 | 82.4 | 89.6 | 89.6 | 86.0 |
| 80° | 3.6 | 3.6 | 14.3 | 25.1 | 46.6 | 60.9 | 78.8 | 86.0 | 96.7 | 89.6 | 78.8 |
| 82.5° | 3.6 | 3.6 | 14.3 | 25.1 | 43.0 | 60.9 | 82.4 | 93.1 | 100.3 | 89.6 | 75.2 |
| 85° | 0.0 | 3.6 | 10.7 | 21.5 | 35.8 | 43.0 | 35.8 | 25.1 | 14.3 | 14.3 | 10.7 |
| 87.5° | 0.0 | 0.0 | 3.6 | 3.6 | 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)