

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: P650621

Luminaire Tested: **GLAN-SA9B-835-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650621
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-SA9B-835-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA 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: 26102.9 lumens
Efficiency: N/A
Efficacy: 71.7 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

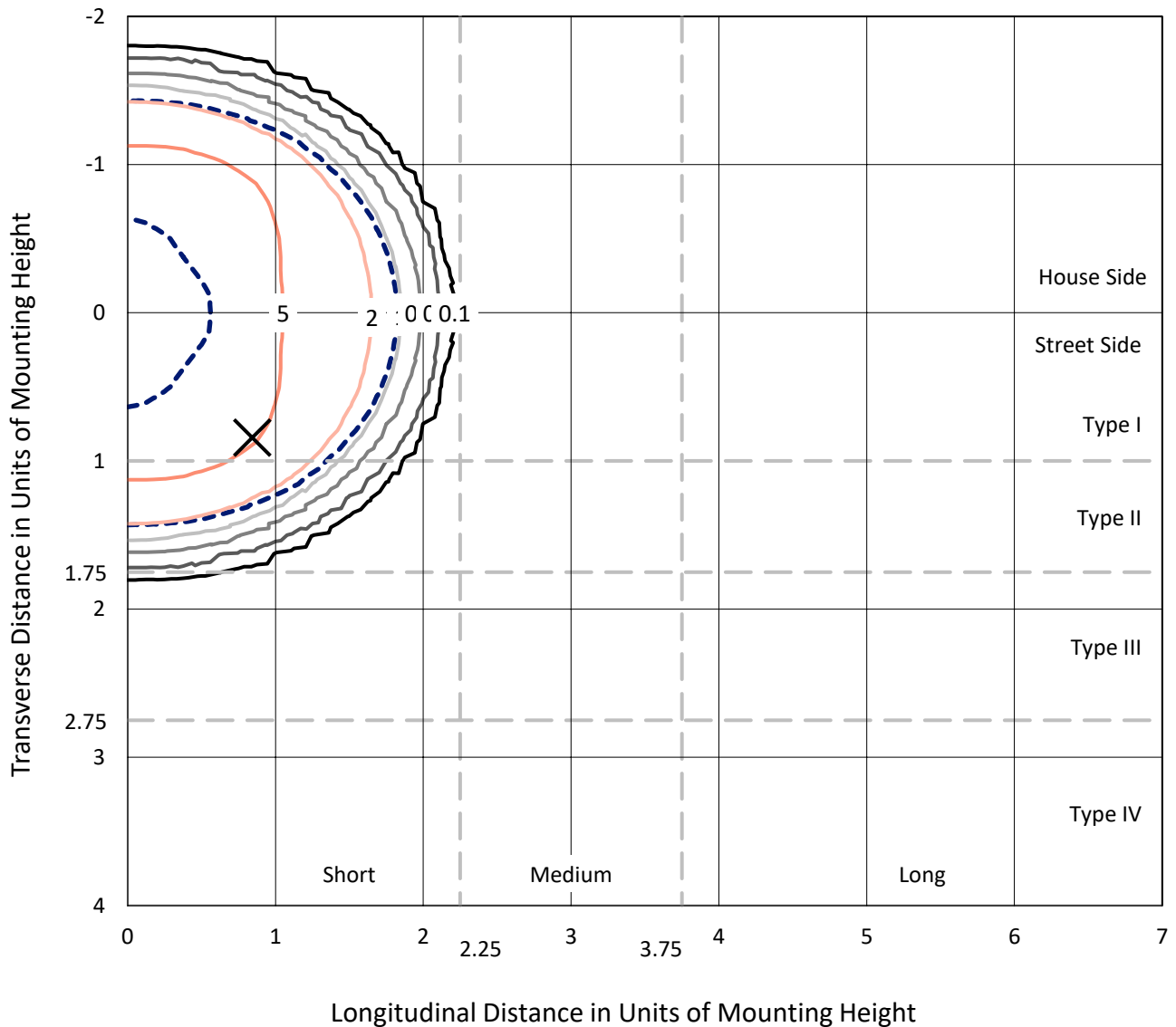
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

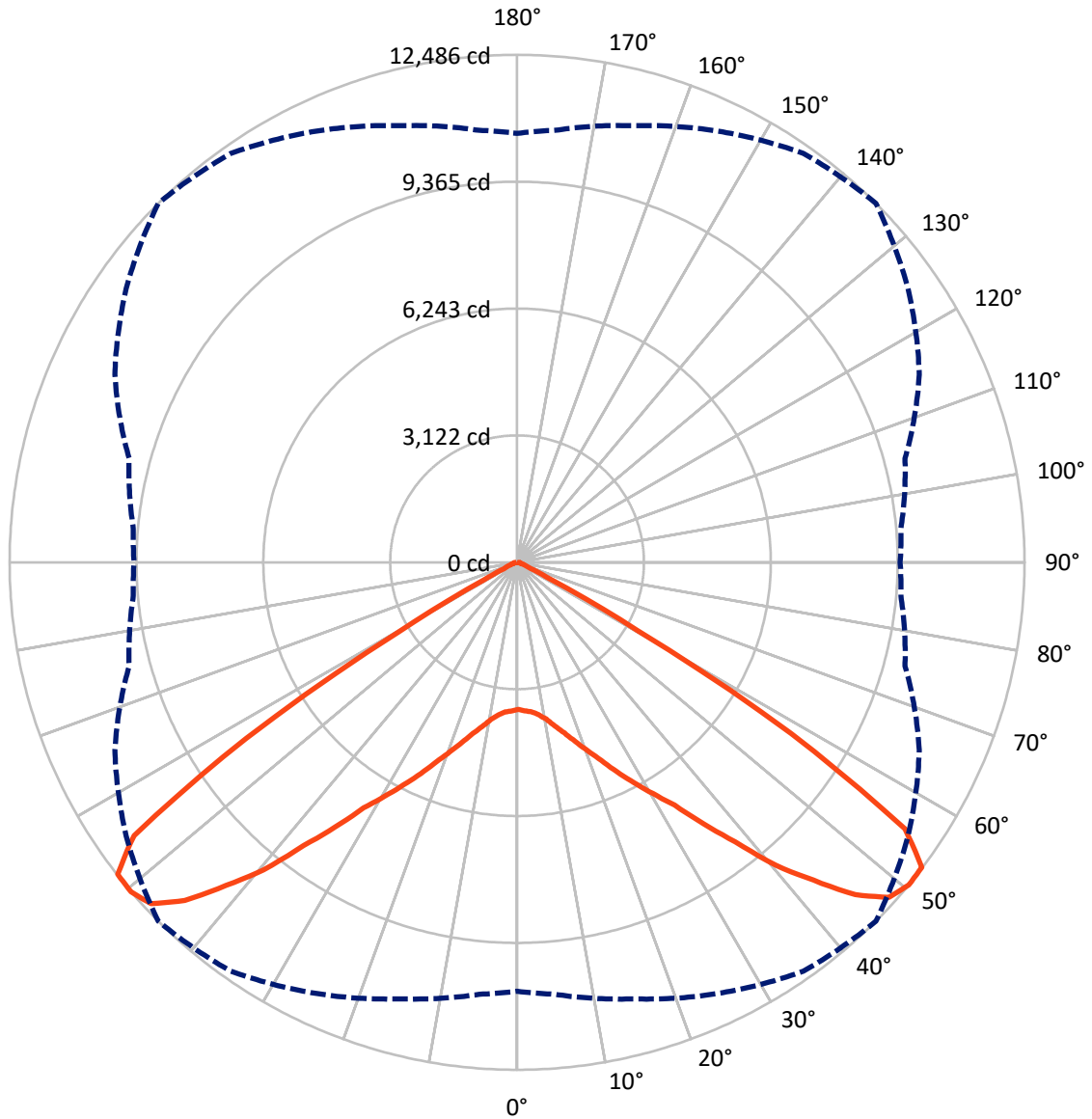
× Max cd
 - - - 1/2 Max cd



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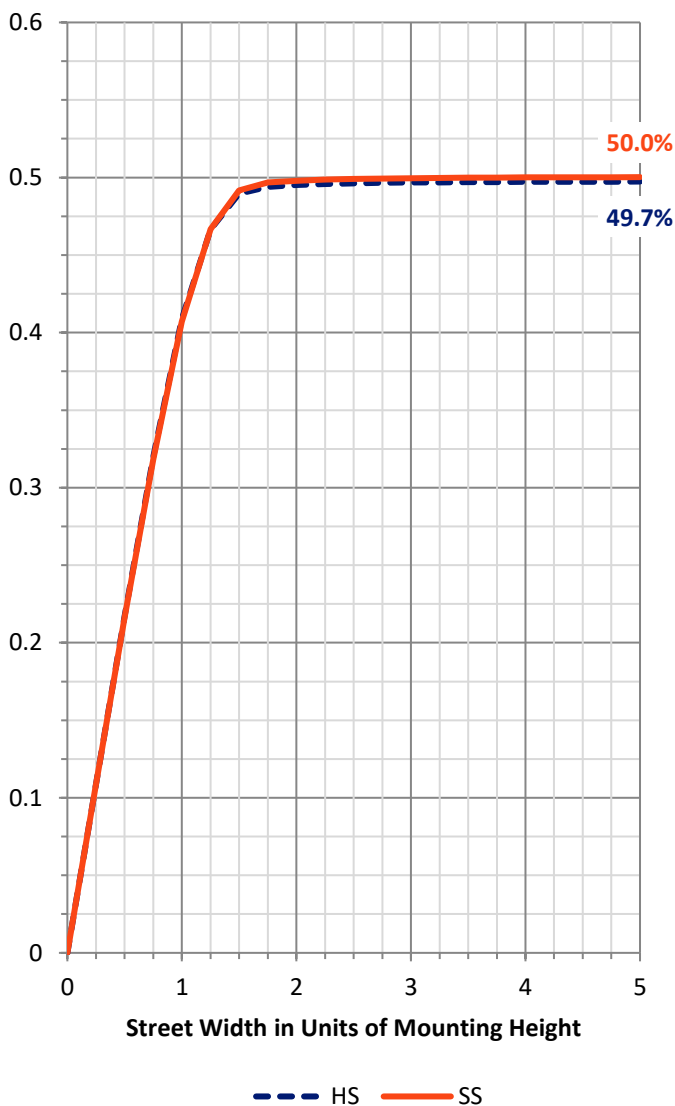
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 13051.4 | 0.0 | 13051.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 13051.4 | 0.0 | 13051.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 26102.9 | 0.0 | 26102.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 360.0 | 1.4 |
| 10°-20° | 1240.8 | 4.8 |
| 20°-30° | 2534.3 | 9.7 |
| 30°-40° | 4832.9 | 18.5 |
| 40°-50° | 8144.2 | 31.2 |
| 50°-60° | 7766.9 | 29.8 |
| 60°-70° | 1084.2 | 4.2 |
| 70°-80° | 103.7 | 0.4 |
| 80°-90° | 35.8 | 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° | 26102.9 | 100.0 |
| 0°-180° | 26102.9 | 100.0 |

Coefficient of Utilization



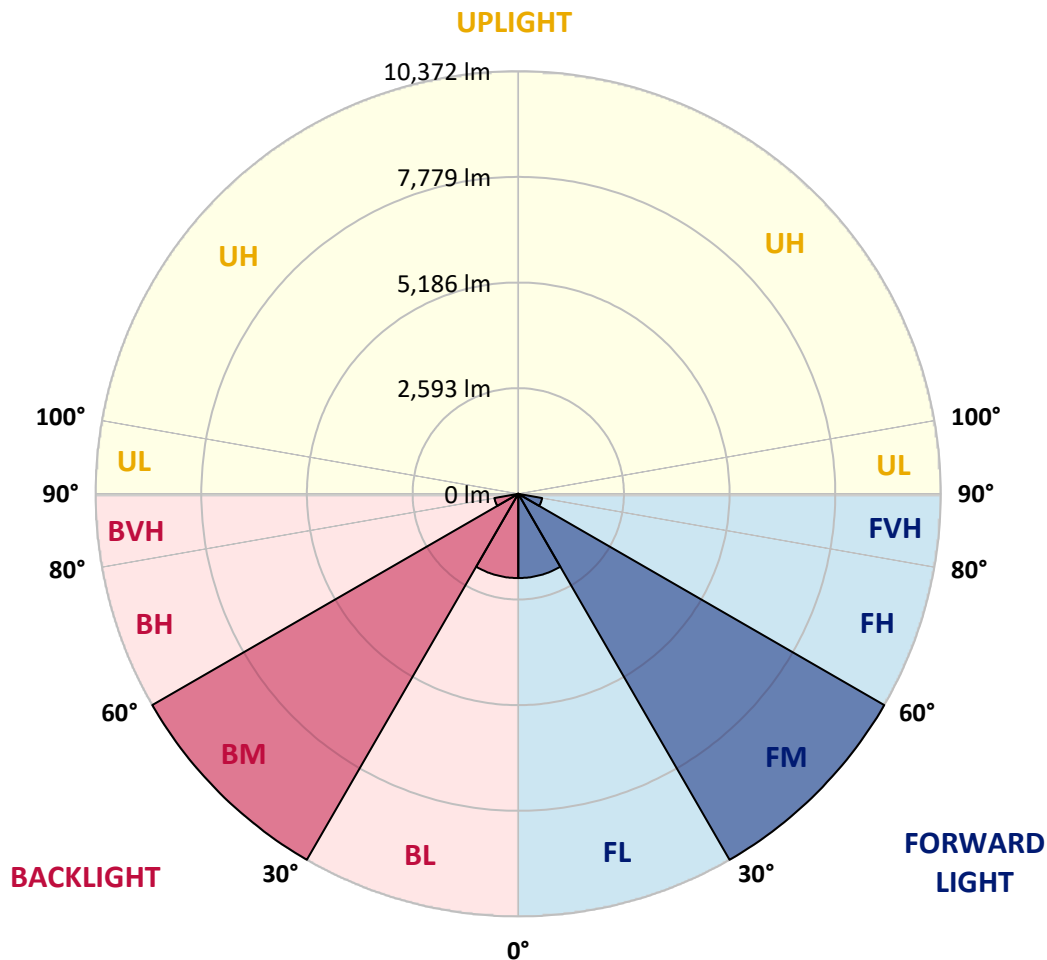
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2067.6 | 7.9 | | | |
| FM (30°-60°) | 10372.0 | 39.7 | | | |
| FH (60°-80°) | 594.0 | 2.3 | | | G0/660 |
| FVH (80°-90°) | 17.9 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2067.6 | 7.9 | B3/2500 | | |
| BM (30°-60°) | 10372.0 | 39.7 | B5 | | |
| BH (60°-80°) | 594.0 | 2.3 | B2/1000 | | G0/660 |
| BVH (80°-90°) | 17.9 | 0.1 | | | 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° | 3618.9 | 3618.9 | 3618.9 | 3618.9 | 3618.9 | 3618.9 | 3618.9 | 3618.9 | 3618.9 | 3618.9 | 3618.9 |
| 2.5° | 3605.7 | 3605.7 | 3601.3 | 3636.4 | 3618.9 | 3658.4 | 3654.0 | 3667.2 | 3680.3 | 3676.0 | 3711.1 |
| 5° | 3574.9 | 3570.6 | 3570.6 | 3610.1 | 3649.6 | 3693.6 | 3733.0 | 3759.4 | 3803.3 | 3803.3 | 3847.3 |
| 7.5° | 3605.7 | 3583.7 | 3614.5 | 3632.0 | 3706.7 | 3781.3 | 3847.3 | 3900.0 | 4001.0 | 4036.1 | 4022.9 |
| 10° | 3614.5 | 3640.9 | 3662.8 | 3715.5 | 3807.7 | 3921.9 | 3979.0 | 4110.8 | 4224.9 | 4304.0 | 4321.5 |
| 12.5° | 3671.6 | 3711.1 | 3772.6 | 3900.0 | 3983.4 | 4132.8 | 4211.8 | 4339.2 | 4497.2 | 4585.1 | 4646.6 |
| 15° | 3781.3 | 3794.6 | 3873.6 | 4036.1 | 4216.1 | 4352.3 | 4475.3 | 4567.6 | 4721.3 | 4822.3 | 4826.6 |
| 17.5° | 3921.9 | 3979.0 | 4088.8 | 4242.5 | 4431.4 | 4633.4 | 4730.0 | 4831.0 | 4888.1 | 5024.3 | 5055.0 |
| 20° | 4203.0 | 4211.8 | 4317.1 | 4519.2 | 4756.3 | 4940.8 | 5011.1 | 5063.8 | 5041.8 | 5182.4 | 5208.8 |
| 22.5° | 4466.5 | 4475.3 | 4607.0 | 4879.3 | 5134.1 | 5292.1 | 5322.9 | 5292.1 | 5226.3 | 5327.3 | 5336.1 |
| 25° | 4734.4 | 4813.5 | 4910.1 | 5182.4 | 5498.6 | 5709.4 | 5713.8 | 5630.3 | 5494.2 | 5511.8 | 5555.7 |
| 27.5° | 5151.6 | 5208.8 | 5309.8 | 5560.1 | 5907.0 | 6144.2 | 6104.7 | 6003.7 | 5827.9 | 5841.2 | 5827.9 |
| 30° | 5639.1 | 5691.9 | 5775.3 | 6095.9 | 6350.6 | 6609.7 | 6666.8 | 6570.2 | 6306.7 | 6249.6 | 6315.4 |
| 32.5° | 6227.6 | 6302.3 | 6456.0 | 6750.2 | 6965.5 | 7123.6 | 7163.1 | 7128.0 | 6882.0 | 6860.0 | 6903.9 |
| 35° | 6943.5 | 7044.5 | 7185.0 | 7444.1 | 7619.8 | 7905.3 | 7905.3 | 7786.7 | 7562.8 | 7589.1 | 7584.7 |
| 37.5° | 7698.9 | 7848.2 | 8067.8 | 8331.4 | 8568.4 | 8722.2 | 8673.9 | 8572.8 | 8348.9 | 8291.8 | 8348.9 |
| 40° | 8647.5 | 8722.2 | 8998.9 | 9341.4 | 9631.3 | 9807.0 | 9600.6 | 9381.0 | 8845.2 | 8928.6 | 9082.3 |
| 42.5° | 9512.7 | 9631.3 | 9842.1 | 10219.8 | 10549.2 | 10694.1 | 10448.2 | 10013.4 | 9367.8 | 9301.9 | 9416.1 |
| 45° | 10250.6 | 10377.9 | 10654.6 | 11194.8 | 11541.7 | 11669.1 | 11124.6 | 10421.8 | 9684.0 | 9517.1 | 9565.4 |
| 47.5° | 10742.4 | 10808.3 | 11194.8 | 11708.7 | 12024.8 | 12314.7 | 11533.0 | 10702.9 | 9833.3 | 9517.1 | 9499.5 |
| 50° | 10553.6 | 10667.7 | 11120.2 | 11704.3 | 12279.6 | 12486.0 | 11739.4 | 10918.2 | 9881.6 | 9477.6 | 9424.9 |
| 52.5° | 9372.2 | 9569.8 | 10074.9 | 10861.0 | 11730.6 | 12468.4 | 12024.8 | 10847.8 | 9864.1 | 9517.1 | 9596.1 |
| 55° | 6521.9 | 6526.3 | 7141.1 | 8300.6 | 9837.7 | 11576.9 | 11607.7 | 10926.9 | 9978.2 | 9763.1 | 9767.5 |
| 57.5° | 2622.0 | 2753.7 | 3223.6 | 4387.5 | 5806.0 | 7949.3 | 9451.2 | 10136.4 | 9991.5 | 9938.7 | 10074.9 |
| 60° | 663.2 | 667.6 | 812.5 | 1238.5 | 2042.2 | 3408.1 | 4949.6 | 6697.5 | 7712.1 | 8059.0 | 8107.3 |
| 62.5° | 338.2 | 342.6 | 377.7 | 439.2 | 557.7 | 913.5 | 1625.0 | 2578.0 | 3667.2 | 4220.5 | 4365.5 |
| 65° | 276.7 | 276.7 | 298.6 | 329.4 | 333.8 | 351.3 | 421.6 | 601.7 | 874.0 | 992.5 | 1005.8 |
| 67.5° | 210.8 | 210.8 | 228.4 | 245.9 | 254.7 | 250.3 | 241.6 | 250.3 | 303.0 | 289.9 | 281.1 |
| 70° | 131.8 | 136.2 | 144.9 | 162.5 | 171.3 | 175.7 | 180.1 | 188.9 | 215.2 | 224.0 | 215.2 |
| 72.5° | 79.1 | 79.1 | 83.5 | 96.6 | 109.8 | 118.5 | 131.8 | 140.5 | 153.7 | 175.7 | 171.3 |
| 75° | 35.2 | 35.2 | 43.9 | 57.1 | 70.2 | 83.5 | 96.6 | 109.8 | 118.5 | 131.8 | 136.2 |
| 77.5° | 8.8 | 13.2 | 21.9 | 39.5 | 52.7 | 70.2 | 87.9 | 101.0 | 109.8 | 109.8 | 105.4 |
| 80° | 4.4 | 4.4 | 17.5 | 30.8 | 57.1 | 74.7 | 96.6 | 105.4 | 118.5 | 109.8 | 96.6 |
| 82.5° | 4.4 | 4.4 | 17.5 | 30.8 | 52.7 | 74.7 | 101.0 | 114.2 | 123.0 | 109.8 | 92.2 |
| 85° | 0.0 | 4.4 | 13.2 | 26.4 | 43.9 | 52.7 | 43.9 | 30.8 | 17.5 | 17.5 | 13.2 |
| 87.5° | 0.0 | 0.0 | 4.4 | 4.4 | 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)