

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: P533897

Luminaire Tested: **GLAN-SA9B-760-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533897
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-760-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 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: 33337 lumens
Efficiency: N/A
Efficacy: 91.6 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

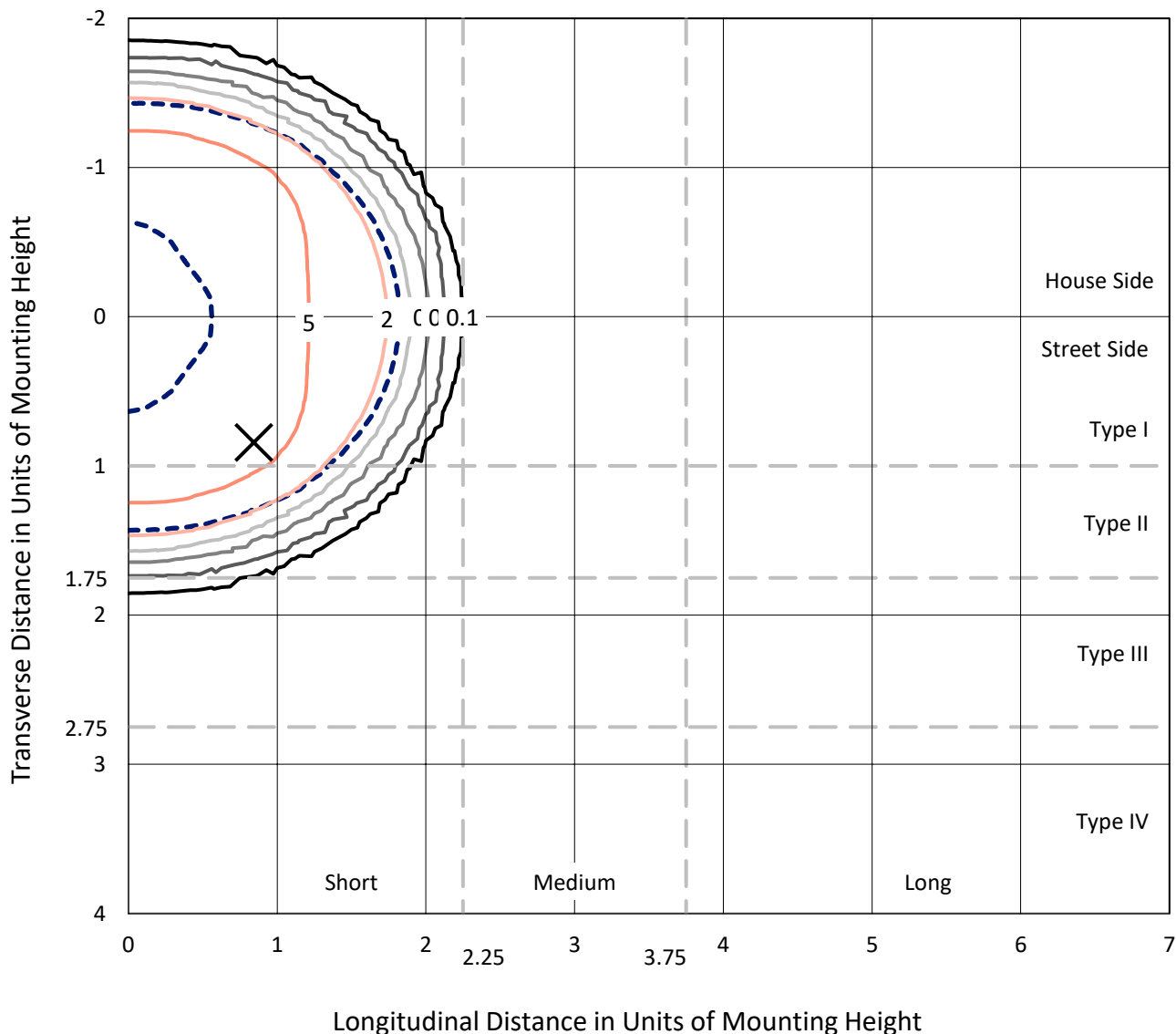
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

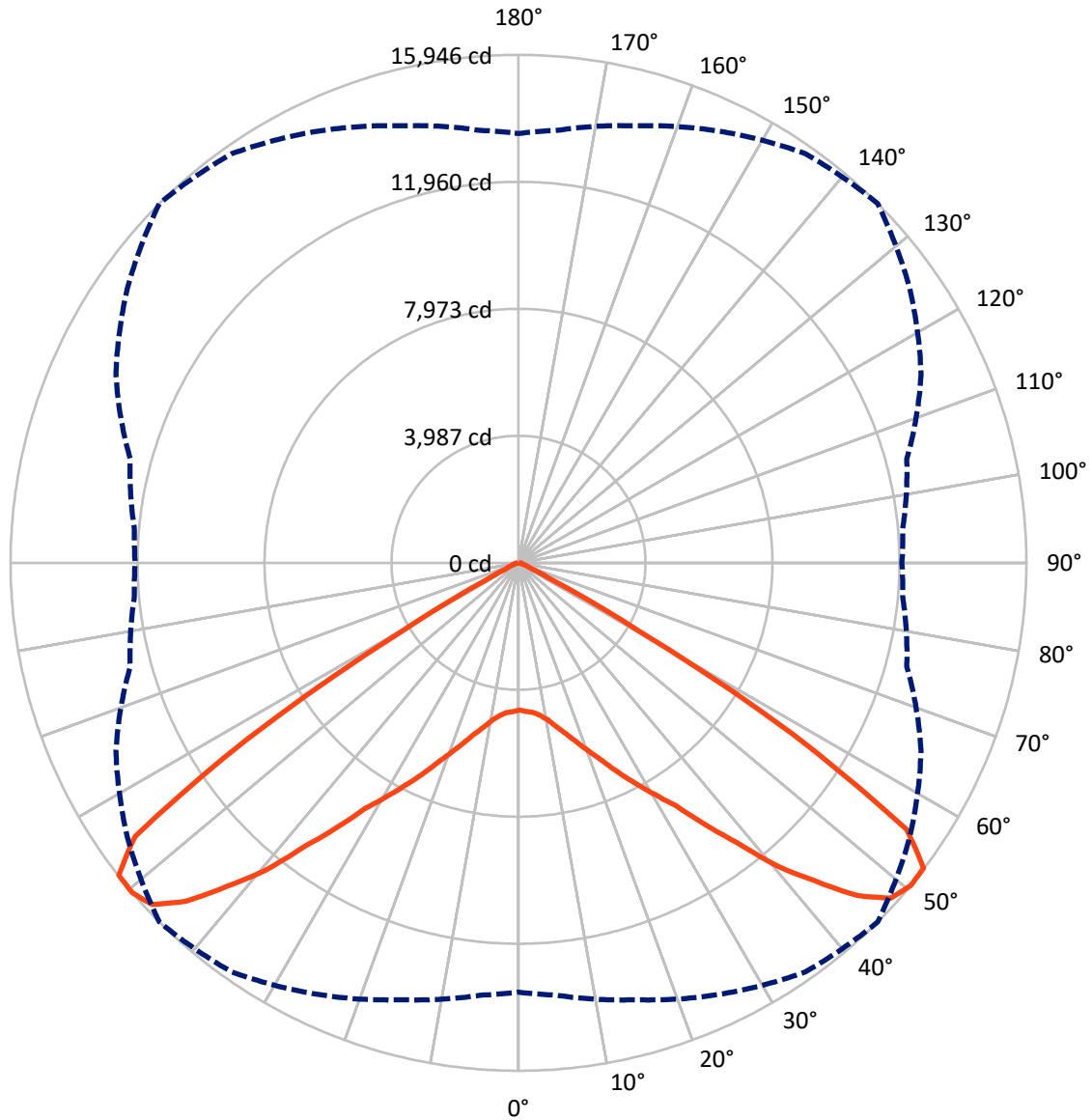
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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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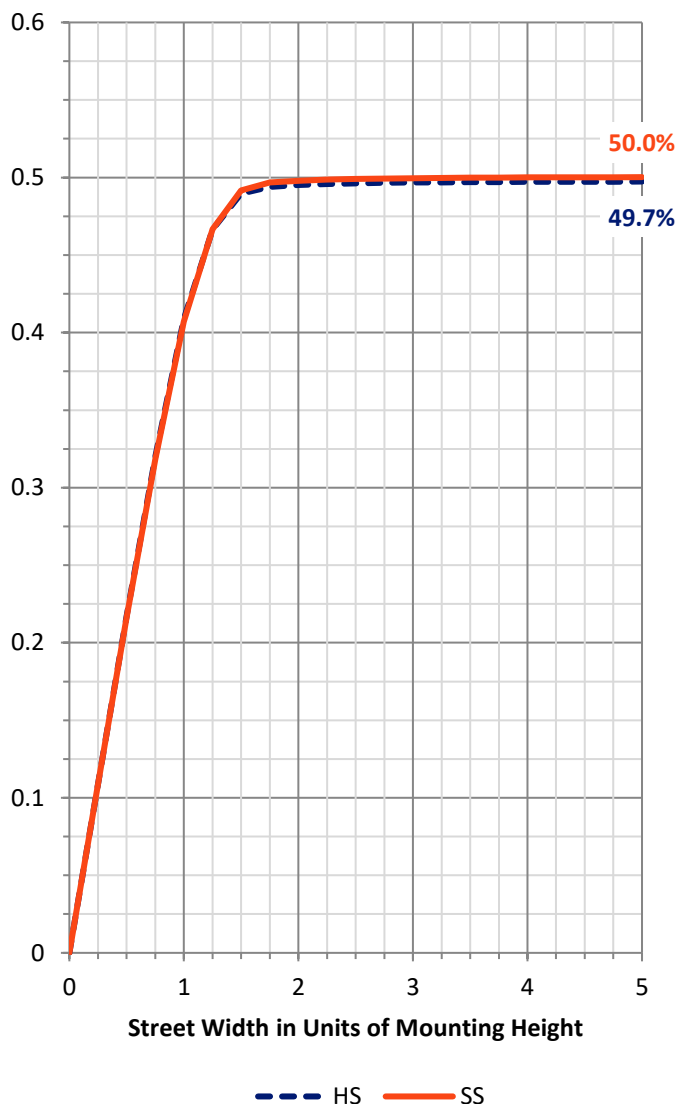
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 16668.5 | 0.0 | 16668.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 16668.5 | 0.0 | 16668.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 33337.0 | 0.0 | 33337.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 459.8 | 1.4 |
| 10°-20° | 1584.7 | 4.8 |
| 20°-30° | 3236.7 | 9.7 |
| 30°-40° | 6172.3 | 18.5 |
| 40°-50° | 10401.2 | 31.2 |
| 50°-60° | 9919.4 | 29.8 |
| 60°-70° | 1384.7 | 4.2 |
| 70°-80° | 132.4 | 0.4 |
| 80°-90° | 45.8 | 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° | 33337.0 | 100.0 |
| 0°-180° | 33337.0 | 100.0 |

Coefficient of Utilization



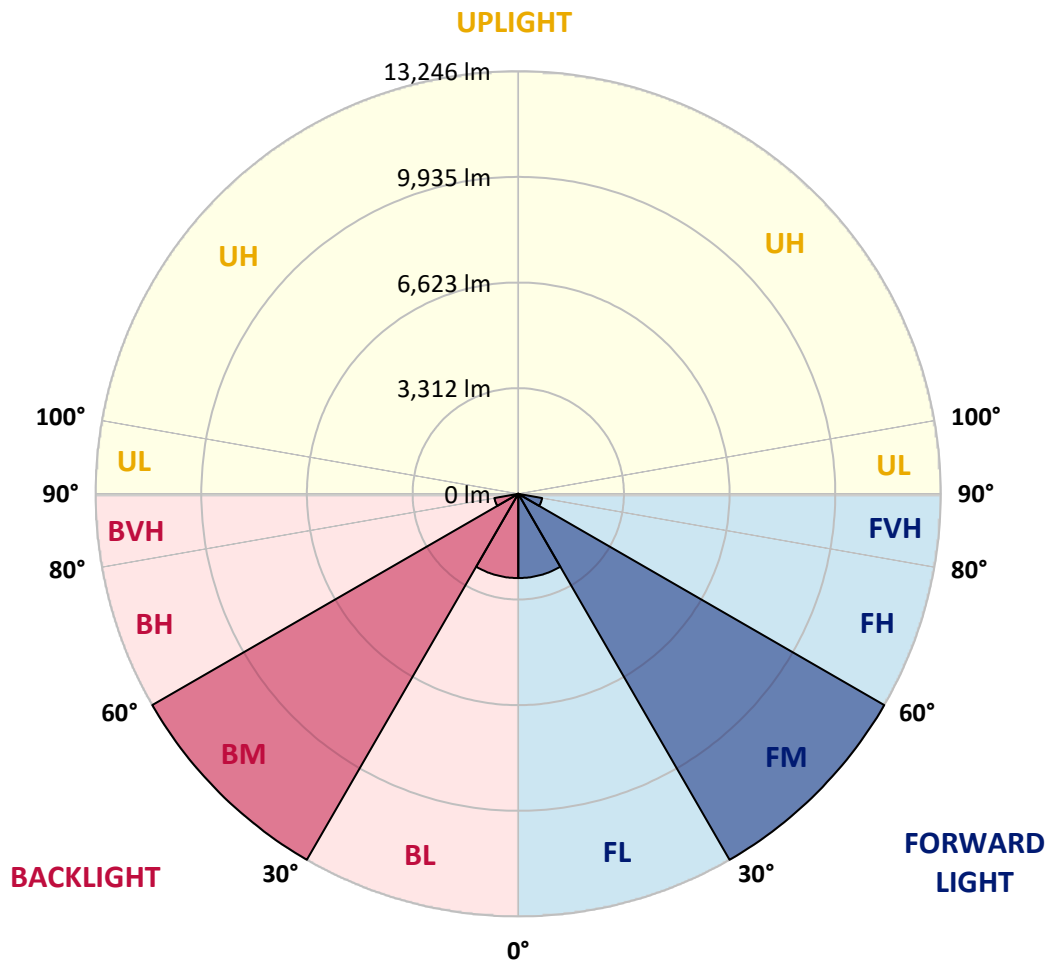
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2640.6 | 7.9 | | | |
| FM (30°-60°) | 13246.5 | 39.7 | | | |
| FH (60°-80°) | 758.6 | 2.3 | | | G1/1800 |
| FVH (80°-90°) | 22.9 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2640.6 | 7.9 | B4/5000 | | |
| BM (30°-60°) | 13246.5 | 39.7 | B5 | | |
| BH (60°-80°) | 758.6 | 2.3 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 22.9 | 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° | 4621.8 | 4621.8 | 4621.8 | 4621.8 | 4621.8 | 4621.8 | 4621.8 | 4621.8 | 4621.8 | 4621.8 | 4621.8 |
| 2.5° | 4605.0 | 4605.0 | 4599.4 | 4644.2 | 4621.8 | 4672.3 | 4666.7 | 4683.5 | 4700.3 | 4694.7 | 4739.6 |
| 5° | 4565.7 | 4560.1 | 4560.1 | 4610.6 | 4661.1 | 4717.2 | 4767.6 | 4801.3 | 4857.4 | 4857.4 | 4913.5 |
| 7.5° | 4605.0 | 4576.9 | 4616.2 | 4638.6 | 4734.0 | 4829.3 | 4913.5 | 4980.8 | 5109.8 | 5154.7 | 5137.8 |
| 10° | 4616.2 | 4649.9 | 4677.9 | 4745.2 | 4863.0 | 5008.8 | 5081.7 | 5250.0 | 5395.8 | 5496.8 | 5519.2 |
| 12.5° | 4689.1 | 4739.6 | 4818.1 | 4980.8 | 5087.4 | 5278.1 | 5379.0 | 5541.7 | 5743.6 | 5855.8 | 5934.3 |
| 15° | 4829.3 | 4846.2 | 4947.1 | 5154.7 | 5384.6 | 5558.5 | 5715.6 | 5833.4 | 6029.7 | 6158.7 | 6164.3 |
| 17.5° | 5008.8 | 5081.7 | 5222.0 | 5418.3 | 5659.5 | 5917.5 | 6040.9 | 6169.9 | 6242.8 | 6416.7 | 6455.9 |
| 20° | 5367.8 | 5379.0 | 5513.6 | 5771.7 | 6074.5 | 6310.1 | 6399.9 | 6467.2 | 6439.1 | 6618.6 | 6652.3 |
| 22.5° | 5704.3 | 5715.6 | 5883.8 | 6231.6 | 6556.9 | 6758.8 | 6798.1 | 6758.8 | 6674.7 | 6803.7 | 6814.9 |
| 25° | 6046.5 | 6147.5 | 6270.9 | 6618.6 | 7022.5 | 7291.7 | 7297.3 | 7190.7 | 7016.8 | 7039.3 | 7095.4 |
| 27.5° | 6579.3 | 6652.3 | 6781.3 | 7101.0 | 7544.1 | 7847.0 | 7796.5 | 7667.5 | 7443.1 | 7460.0 | 7443.1 |
| 30° | 7201.9 | 7269.3 | 7375.8 | 7785.3 | 8110.6 | 8441.5 | 8514.4 | 8391.1 | 8054.5 | 7981.6 | 8065.7 |
| 32.5° | 7953.5 | 8048.9 | 8245.2 | 8621.0 | 8895.9 | 9097.8 | 9148.3 | 9103.4 | 8789.3 | 8761.2 | 8817.3 |
| 35° | 8867.8 | 8996.8 | 9176.3 | 9507.2 | 9731.6 | 10096.2 | 10096.2 | 9944.7 | 9658.7 | 9692.3 | 9686.7 |
| 37.5° | 9832.6 | 10023.3 | 10303.7 | 10640.3 | 10943.1 | 11139.5 | 11077.8 | 10948.7 | 10662.7 | 10589.8 | 10662.7 |
| 40° | 11044.1 | 11139.5 | 11492.8 | 11930.3 | 12300.5 | 12524.9 | 12261.3 | 11980.8 | 11296.5 | 11403.1 | 11599.4 |
| 42.5° | 12149.1 | 12300.5 | 12569.7 | 13052.1 | 13472.8 | 13657.9 | 13343.8 | 12788.5 | 11964.0 | 11879.8 | 12025.7 |
| 45° | 13091.4 | 13254.0 | 13607.4 | 14297.3 | 14740.4 | 14903.1 | 14207.6 | 13310.1 | 12367.8 | 12154.7 | 12216.4 |
| 47.5° | 13719.6 | 13803.7 | 14297.3 | 14953.6 | 15357.4 | 15727.6 | 14729.2 | 13669.1 | 12558.5 | 12154.7 | 12132.2 |
| 50° | 13478.4 | 13624.2 | 14202.0 | 14948.0 | 15682.7 | 15946.4 | 14992.8 | 13944.0 | 12620.2 | 12104.2 | 12036.9 |
| 52.5° | 11969.6 | 12222.0 | 12867.0 | 13871.0 | 14981.6 | 15923.9 | 15357.4 | 13854.2 | 12597.8 | 12154.7 | 12255.6 |
| 55° | 8329.4 | 8335.0 | 9120.2 | 10601.0 | 12564.1 | 14785.3 | 14824.6 | 13955.2 | 12743.6 | 12468.8 | 12474.4 |
| 57.5° | 3348.6 | 3516.8 | 4117.0 | 5603.4 | 7415.1 | 10152.3 | 12070.5 | 12945.6 | 12760.5 | 12693.1 | 12867.0 |
| 60° | 847.0 | 852.6 | 1037.7 | 1581.7 | 2608.2 | 4352.6 | 6321.3 | 8553.7 | 9849.4 | 10292.5 | 10354.2 |
| 62.5° | 431.9 | 437.5 | 482.4 | 560.9 | 712.3 | 1166.7 | 2075.3 | 3292.5 | 4683.5 | 5390.2 | 5575.3 |
| 65° | 353.4 | 353.4 | 381.4 | 420.7 | 426.3 | 448.7 | 538.5 | 768.4 | 1116.2 | 1267.6 | 1284.5 |
| 67.5° | 269.2 | 269.2 | 291.7 | 314.1 | 325.3 | 319.7 | 308.5 | 319.7 | 387.0 | 370.2 | 359.0 |
| 70° | 168.3 | 173.9 | 185.1 | 207.5 | 218.8 | 224.4 | 230.0 | 241.2 | 274.8 | 286.1 | 274.8 |
| 72.5° | 101.0 | 101.0 | 106.6 | 123.4 | 140.2 | 151.4 | 168.3 | 179.5 | 196.3 | 224.4 | 218.8 |
| 75° | 44.9 | 44.9 | 56.1 | 72.9 | 89.7 | 106.6 | 123.4 | 140.2 | 151.4 | 168.3 | 173.9 |
| 77.5° | 11.2 | 16.8 | 28.0 | 50.5 | 67.3 | 89.7 | 112.2 | 129.0 | 140.2 | 140.2 | 134.6 |
| 80° | 5.6 | 5.6 | 22.4 | 39.3 | 72.9 | 95.4 | 123.4 | 134.6 | 151.4 | 140.2 | 123.4 |
| 82.5° | 5.6 | 5.6 | 22.4 | 39.3 | 67.3 | 95.4 | 129.0 | 145.8 | 157.1 | 140.2 | 117.8 |
| 85° | 0.0 | 5.6 | 16.8 | 33.7 | 56.1 | 67.3 | 56.1 | 39.3 | 22.4 | 22.4 | 16.8 |
| 87.5° | 0.0 | 0.0 | 5.6 | 5.6 | 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)