

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: P653584

Luminaire Tested: **GLAN-SA9D-840-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P653584
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-SA9D-840-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1200mA 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: 30764.6 lumens
Efficiency: N/A
Efficacy: 55.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

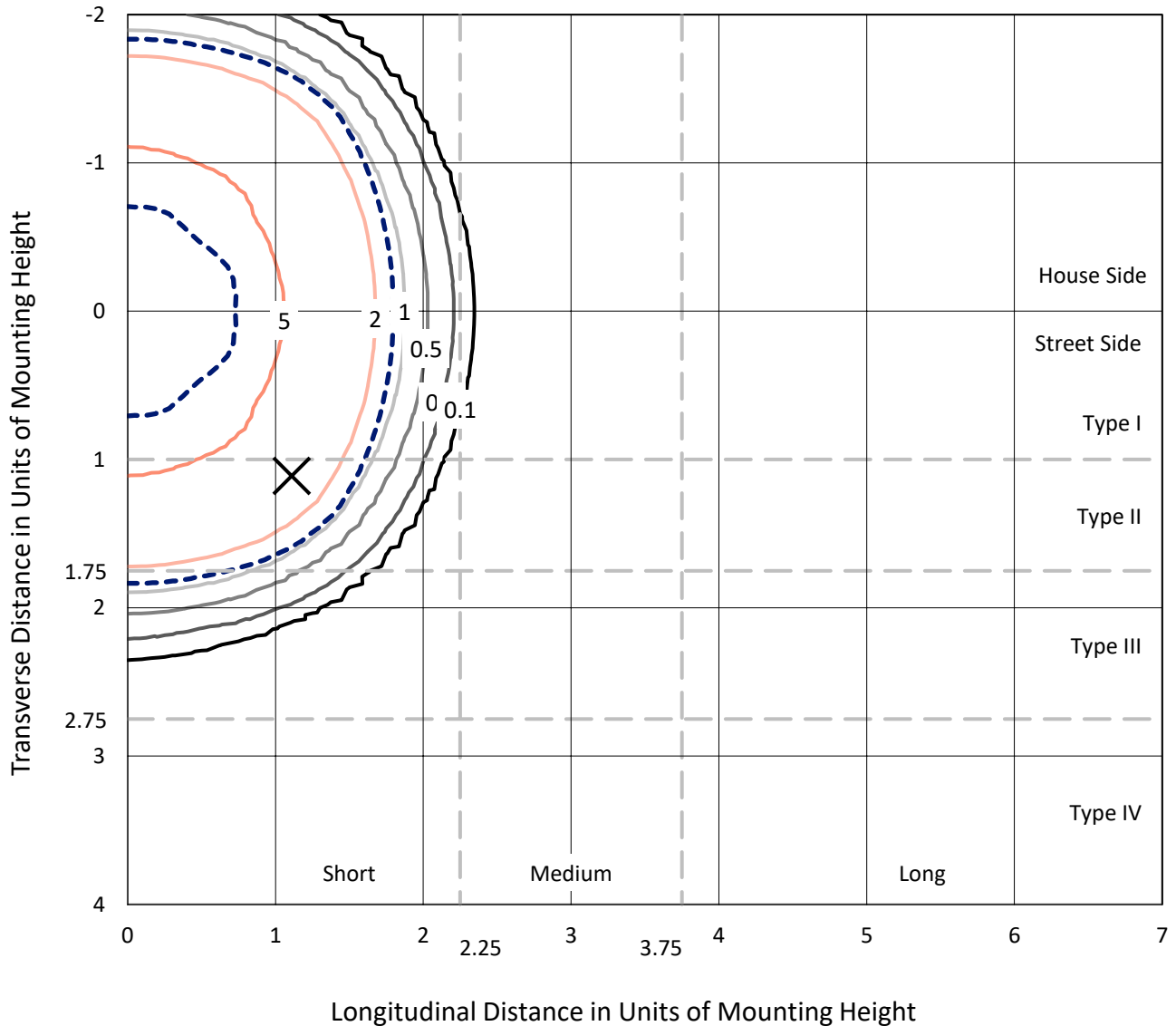
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

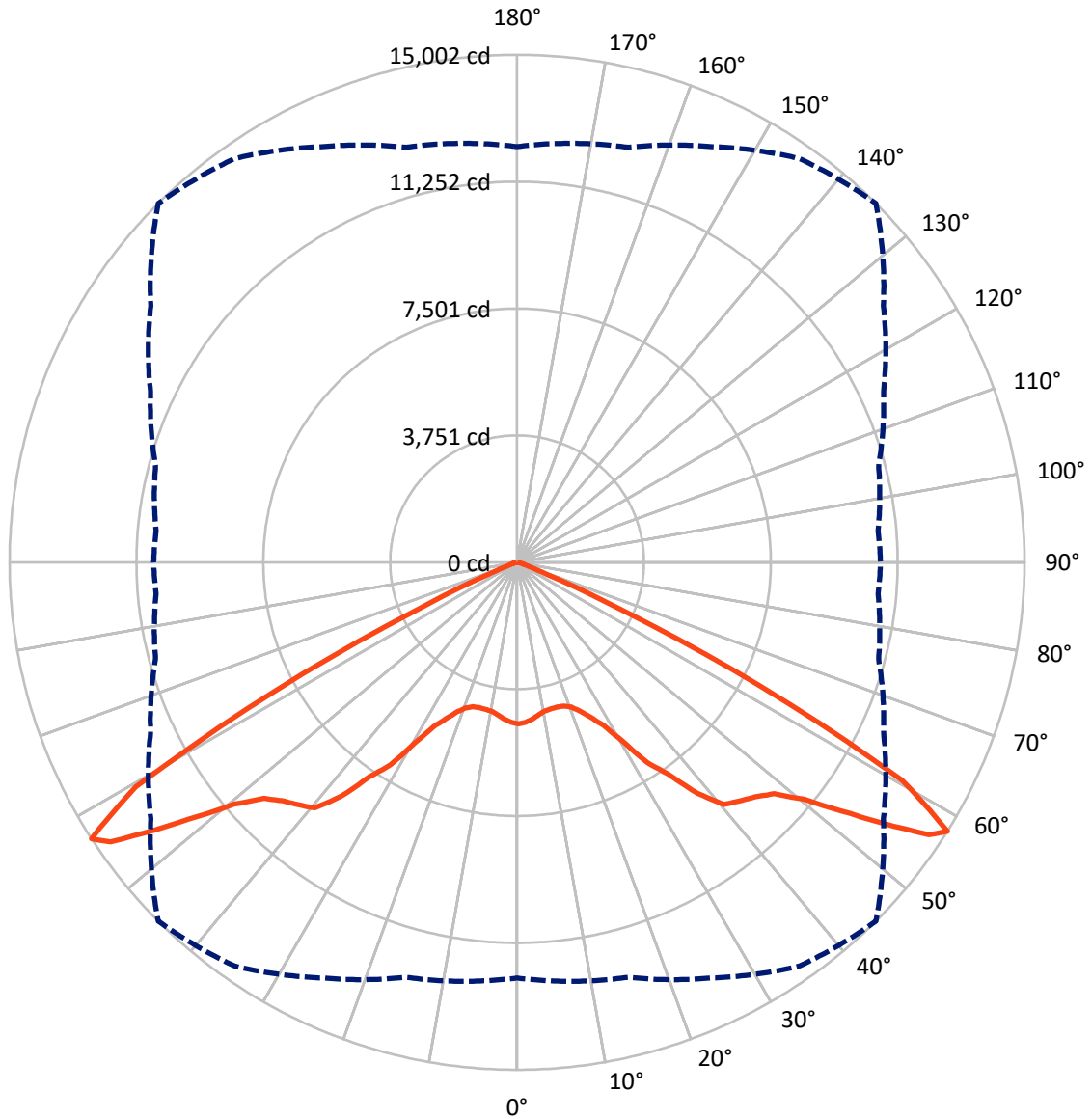
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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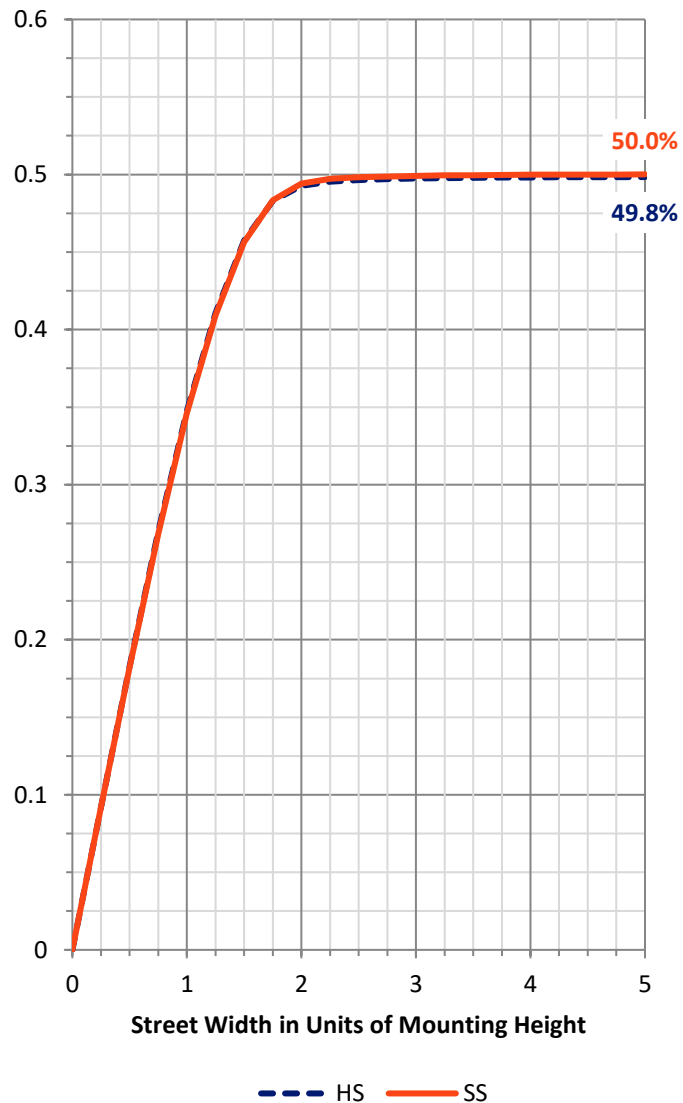
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 15382.3 | 0.0 | 15382.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 15382.3 | 0.0 | 15382.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 30764.6 | 0.0 | 30764.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 438.5 | 1.4 |
| 10°-20° | 1267.5 | 4.1 |
| 20°-30° | 2339.7 | 7.6 |
| 30°-40° | 4601.2 | 15.0 |
| 40°-50° | 7494.1 | 24.4 |
| 50°-60° | 10687.5 | 34.7 |
| 60°-70° | 3700.3 | 12.0 |
| 70°-80° | 198.5 | 0.6 |
| 80°-90° | 37.3 | 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° | 30764.6 | 100.0 |
| 0°-180° | 30764.6 | 100.0 |

Coefficient of Utilization



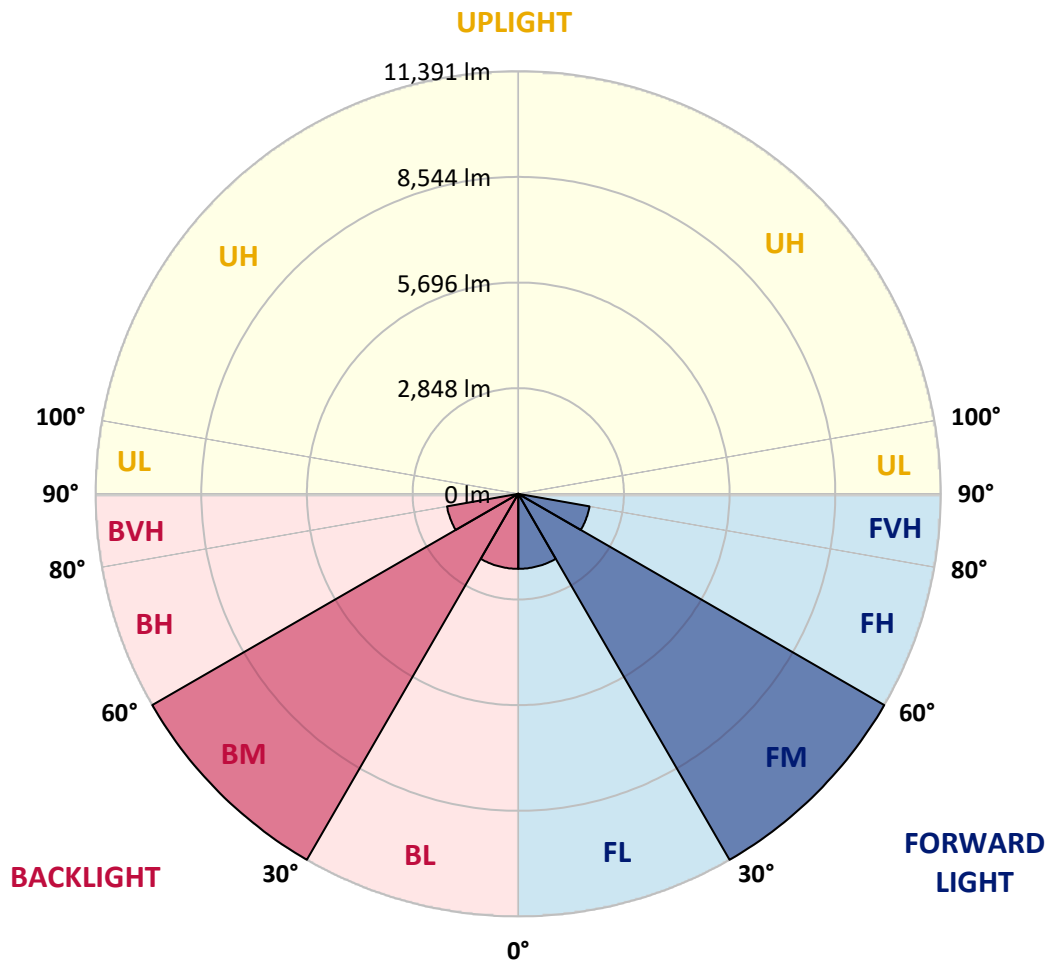
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2022.8 | 6.6 | | | |
| FM (30°-60°) | 11391.4 | 37.0 | | | |
| FH (60°-80°) | 1949.4 | 6.3 | | | G2/5000 |
| FVH (80°-90°) | 18.6 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2022.8 | 6.6 | B3/2500 | | |
| BM (30°-60°) | 11391.4 | 37.0 | B5 | | |
| BH (60°-80°) | 1949.4 | 6.3 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 18.6 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4771.9 | 4771.9 | 4771.9 | 4771.9 | 4771.9 | 4771.9 | 4771.9 | 4771.9 | 4771.9 | 4771.9 | 4771.9 |
| 2.5° | 4759.1 | 4784.7 | 4752.7 | 4739.9 | 4733.4 | 4733.4 | 4714.2 | 4714.2 | 4707.7 | 4714.2 | 4688.6 |
| 5° | 4682.1 | 4707.7 | 4707.7 | 4701.4 | 4662.8 | 4656.4 | 4637.2 | 4624.4 | 4630.8 | 4605.1 | 4624.4 |
| 7.5° | 4605.1 | 4624.4 | 4598.8 | 4592.4 | 4579.5 | 4553.8 | 4547.5 | 4489.7 | 4496.2 | 4496.2 | 4508.9 |
| 10° | 4592.4 | 4585.9 | 4547.5 | 4515.3 | 4476.9 | 4470.5 | 4451.2 | 4438.4 | 4438.4 | 4432.0 | 4451.2 |
| 12.5° | 4592.4 | 4560.2 | 4553.8 | 4483.3 | 4419.1 | 4444.8 | 4393.5 | 4361.4 | 4406.3 | 4419.1 | 4444.8 |
| 15° | 4585.9 | 4618.0 | 4508.9 | 4476.9 | 4432.0 | 4438.4 | 4393.5 | 4361.4 | 4387.1 | 4399.9 | 4419.1 |
| 17.5° | 4624.4 | 4605.1 | 4573.1 | 4508.9 | 4489.7 | 4464.0 | 4406.3 | 4380.7 | 4380.7 | 4412.7 | 4419.1 |
| 20° | 4727.0 | 4675.7 | 4611.5 | 4579.5 | 4598.8 | 4566.6 | 4496.2 | 4399.9 | 4425.6 | 4451.2 | 4470.5 |
| 22.5° | 4823.2 | 4784.7 | 4739.9 | 4720.6 | 4829.6 | 4778.3 | 4656.4 | 4547.5 | 4508.9 | 4553.8 | 4585.9 |
| 25° | 5009.2 | 5009.2 | 4925.8 | 4951.5 | 5073.3 | 5079.8 | 4938.7 | 4746.3 | 4720.6 | 4739.9 | 4752.7 |
| 27.5° | 5387.6 | 5406.9 | 5336.3 | 5362.0 | 5413.3 | 5458.2 | 5336.3 | 5176.0 | 5118.2 | 5111.9 | 5131.1 |
| 30° | 5798.1 | 5836.6 | 5830.2 | 5939.2 | 6086.7 | 6112.4 | 5932.8 | 5669.9 | 5496.7 | 5464.6 | 5490.3 |
| 32.5° | 6336.9 | 6356.1 | 6343.3 | 6471.6 | 6869.3 | 7055.2 | 6587.0 | 6215.1 | 5984.1 | 6041.8 | 5984.1 |
| 35° | 7350.3 | 7331.1 | 7190.0 | 7215.6 | 7542.7 | 7677.4 | 7228.4 | 6991.1 | 6882.1 | 6997.5 | 6971.9 |
| 37.5° | 8222.5 | 8152.0 | 8036.6 | 8203.4 | 8543.3 | 8665.2 | 8196.9 | 7780.0 | 7581.2 | 7773.6 | 7857.0 |
| 40° | 8960.2 | 8780.5 | 8620.2 | 8787.0 | 9242.3 | 9409.1 | 8722.9 | 8382.9 | 8306.0 | 8447.1 | 8626.6 |
| 42.5° | 9582.4 | 9466.9 | 9255.2 | 9268.1 | 9569.5 | 9646.4 | 9094.8 | 8896.0 | 8819.1 | 9043.5 | 9133.3 |
| 45° | 10024.9 | 9915.8 | 9717.0 | 9704.2 | 9935.1 | 9883.8 | 9389.9 | 9255.2 | 9300.1 | 9447.6 | 9492.5 |
| 47.5° | 10249.4 | 10307.0 | 10191.7 | 10223.7 | 10345.6 | 10223.7 | 9832.5 | 9832.5 | 9729.9 | 9819.6 | 9774.7 |
| 50° | 10897.2 | 10717.5 | 10865.0 | 10865.0 | 10993.4 | 11006.2 | 10614.9 | 10473.8 | 10198.1 | 10044.1 | 10044.1 |
| 52.5° | 11654.0 | 11666.9 | 11724.5 | 11936.2 | 12154.3 | 12340.2 | 11782.2 | 11179.3 | 10717.5 | 10518.7 | 10493.1 |
| 55° | 12276.2 | 12404.4 | 12635.4 | 13033.0 | 13661.5 | 13918.0 | 12956.0 | 11878.5 | 11314.1 | 11006.2 | 10942.1 |
| 56° | 12616.1 | 12494.2 | 12891.9 | 13437.1 | 14258.1 | 14591.5 | 13148.4 | 12019.6 | 11397.4 | 11051.1 | 11044.7 |
| 57.5° | 12288.9 | 12423.7 | 12699.4 | 13558.9 | 14565.9 | 15002.0 | 13219.0 | 11955.4 | 11063.9 | 10711.1 | 10743.2 |
| 60° | 9704.2 | 9832.5 | 10204.4 | 11166.5 | 12744.3 | 13084.3 | 11185.8 | 9858.1 | 9062.8 | 8556.1 | 8562.5 |
| 62.5° | 5490.3 | 5586.5 | 5875.1 | 6766.6 | 7748.0 | 8075.0 | 6971.9 | 6086.7 | 5535.1 | 5253.0 | 5163.2 |
| 65° | 2020.3 | 1981.9 | 2026.8 | 2482.1 | 3085.0 | 3360.9 | 2899.1 | 2450.1 | 2161.5 | 2058.9 | 2020.3 |
| 67.5° | 756.8 | 699.1 | 654.2 | 699.1 | 878.7 | 930.0 | 853.0 | 711.9 | 667.1 | 686.3 | 699.1 |
| 70° | 468.2 | 442.5 | 352.8 | 333.5 | 327.1 | 320.7 | 339.9 | 359.2 | 410.5 | 481.1 | 493.8 |
| 72.5° | 327.1 | 307.9 | 250.1 | 237.3 | 224.5 | 218.1 | 250.1 | 275.8 | 320.7 | 372.0 | 378.4 |
| 75° | 128.3 | 134.7 | 128.3 | 141.1 | 147.5 | 153.9 | 179.6 | 198.8 | 218.1 | 218.1 | 211.7 |
| 77.5° | 25.7 | 25.7 | 38.5 | 51.3 | 64.2 | 83.3 | 121.9 | 141.1 | 147.5 | 141.1 | 121.9 |
| 80° | 0.0 | 0.0 | 12.9 | 25.7 | 51.3 | 70.6 | 109.1 | 121.9 | 134.7 | 121.9 | 96.2 |
| 82.5° | 0.0 | 0.0 | 12.9 | 32.0 | 51.3 | 64.2 | 102.6 | 128.3 | 147.5 | 134.7 | 102.6 |
| 85° | 0.0 | 0.0 | 12.9 | 25.7 | 38.5 | 44.9 | 44.9 | 32.0 | 32.0 | 19.3 | 12.9 |
| 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)