

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: P458485

Luminaire Tested: **GLAN-SA9D-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9D-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58160 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

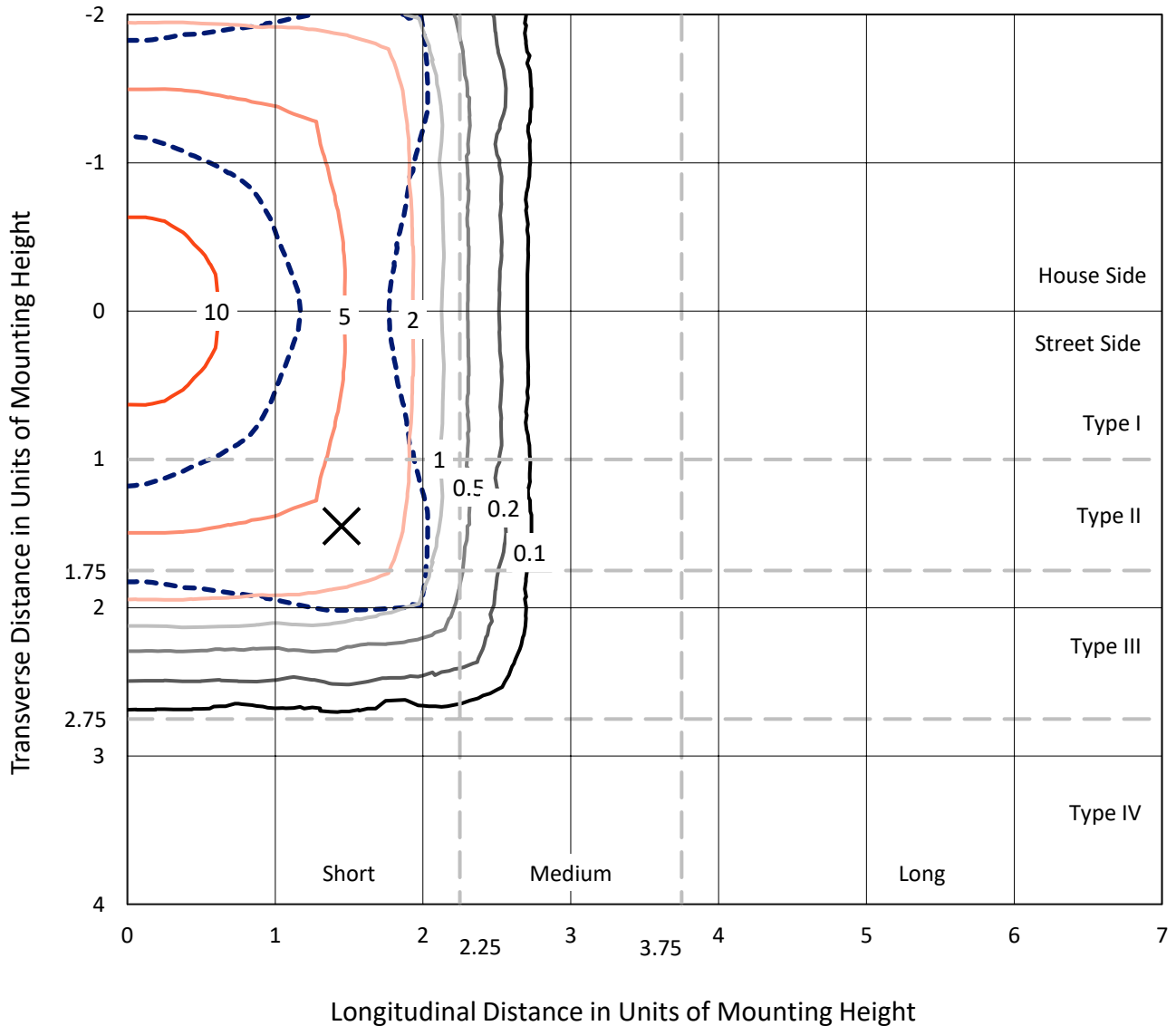
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

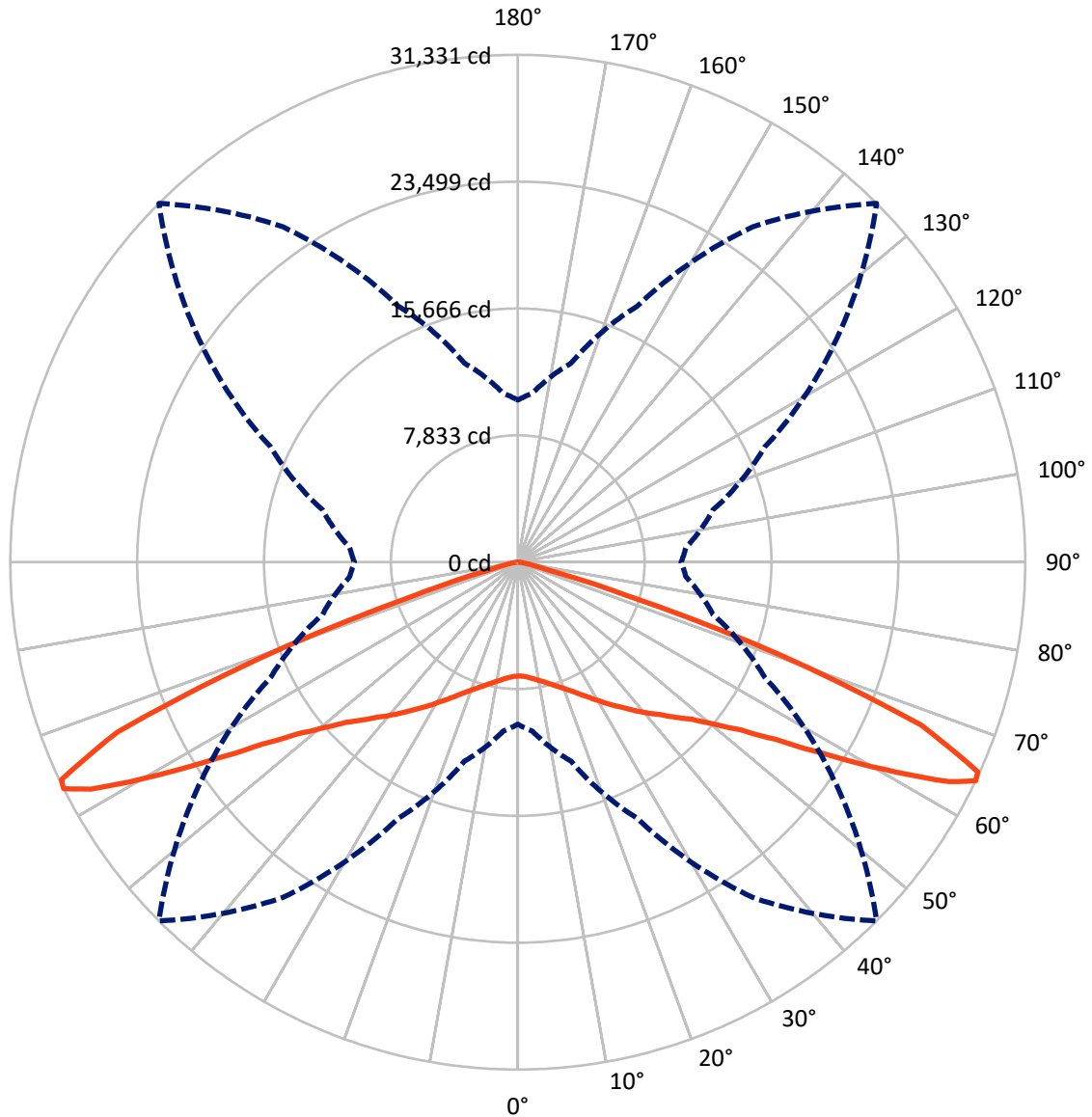
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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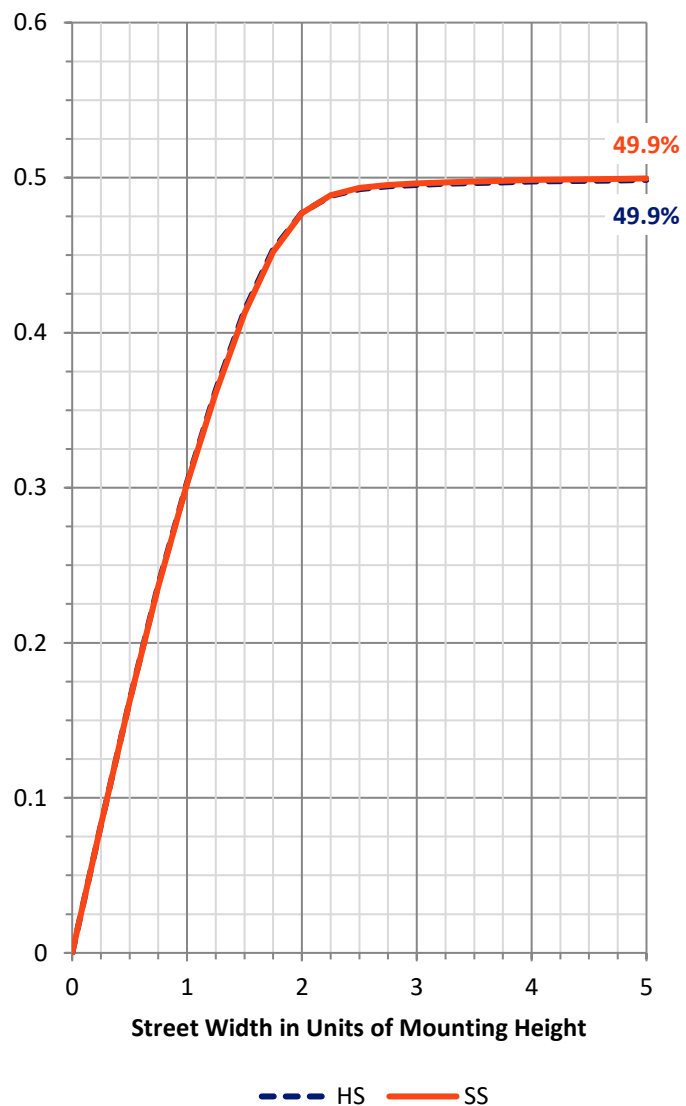
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 29080.0 | 0.0 | 29080.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 29080.0 | 0.0 | 29080.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 58160.0 | 0.0 | 58160.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 690.6 | 1.2 |
| 10°-20° | 2227.7 | 3.8 |
| 20°-30° | 4209.7 | 7.2 |
| 30°-40° | 6971.7 | 12.0 |
| 40°-50° | 10883.9 | 18.7 |
| 50°-60° | 16826.2 | 28.9 |
| 60°-70° | 14509.1 | 24.9 |
| 70°-80° | 1644.3 | 2.8 |
| 80°-90° | 197.0 | 0.3 |
| 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° | 58160.0 | 100.0 |
| 0°-180° | 58160.0 | 100.0 |

Coefficient of Utilization



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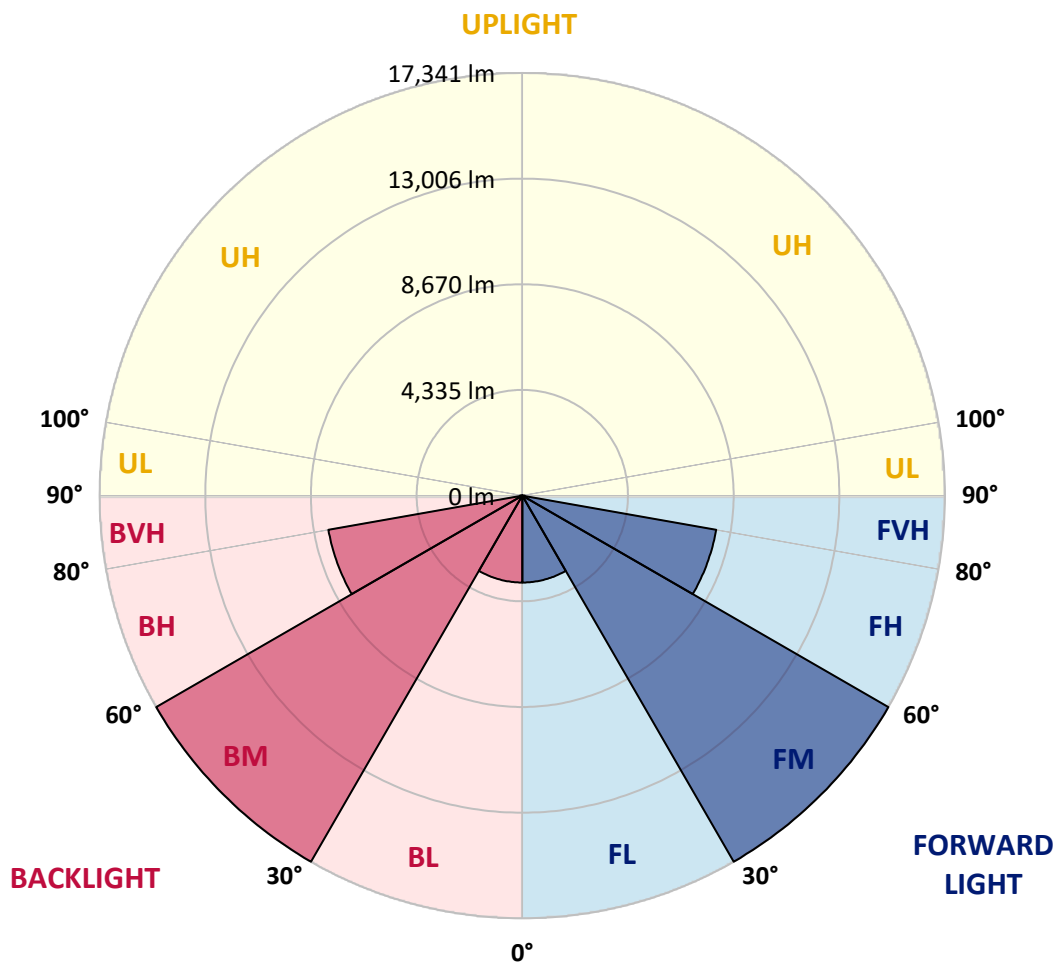
CATALOG NUMBER: GLAN-SA9D-830-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 3564.0 | 6.1 | | | |
| FM | (30°-60°) | 17340.9 | 29.8 | | | |
| FH | (60°-80°) | 8076.7 | 13.9 | | | G4/12000 |
| FVH | (80°-90°) | 98.5 | 0.2 | | | G1/100 |
| BL | (0°-30°) | 3564.0 | 6.1 | B4/5000 | | |
| BM | (30°-60°) | 17340.9 | 29.8 | B5 | | |
| BH | (60°-80°) | 8076.7 | 13.9 | B5 | | G4/12000 |
| BVH | (80°-90°) | 98.5 | 0.2 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7029.6 | 7029.6 | 7029.6 | 7029.6 | 7029.6 | 7029.6 | 7029.6 | 7029.6 | 7029.6 | 7029.6 | 7029.6 |
| 2.5° | 7057.3 | 7072.7 | 7060.4 | 7057.3 | 7054.3 | 7054.3 | 7054.3 | 7057.3 | 7069.7 | 7078.9 | 7072.7 |
| 5° | 7146.7 | 7159.0 | 7152.8 | 7149.8 | 7146.7 | 7149.8 | 7143.6 | 7140.5 | 7149.8 | 7149.8 | 7146.7 |
| 7.5° | 7257.6 | 7273.0 | 7266.8 | 7273.0 | 7276.1 | 7279.1 | 7263.7 | 7251.4 | 7248.3 | 7257.6 | 7251.4 |
| 10° | 7408.5 | 7420.8 | 7423.9 | 7427.0 | 7433.2 | 7430.1 | 7411.6 | 7390.0 | 7386.9 | 7383.9 | 7380.8 |
| 12.5° | 7577.9 | 7587.2 | 7590.3 | 7602.6 | 7611.8 | 7614.9 | 7593.3 | 7574.9 | 7544.1 | 7550.2 | 7537.9 |
| 15° | 7768.9 | 7787.4 | 7784.3 | 7802.8 | 7827.5 | 7833.6 | 7812.1 | 7781.2 | 7753.5 | 7738.1 | 7728.9 |
| 17.5° | 8003.0 | 8015.4 | 8009.2 | 8027.7 | 8058.5 | 8073.9 | 8055.4 | 8015.4 | 7987.6 | 7953.8 | 7935.3 |
| 20° | 8280.3 | 8301.8 | 8308.0 | 8308.0 | 8335.7 | 8351.1 | 8323.4 | 8311.1 | 8268.0 | 8243.3 | 8227.9 |
| 22.5° | 8594.5 | 8603.7 | 8622.2 | 8640.7 | 8668.4 | 8662.3 | 8653.0 | 8634.5 | 8594.5 | 8572.9 | 8548.3 |
| 25° | 8948.7 | 8958.0 | 9004.2 | 9044.2 | 9053.5 | 9047.3 | 9035.0 | 9025.8 | 8988.8 | 8939.5 | 8921.0 |
| 27.5° | 9361.5 | 9380.0 | 9441.6 | 9478.6 | 9478.6 | 9481.7 | 9457.0 | 9487.8 | 9407.7 | 9349.2 | 9343.0 |
| 30° | 9879.0 | 9891.4 | 9943.7 | 9980.7 | 9962.2 | 9946.8 | 9940.7 | 9971.5 | 9885.2 | 9780.5 | 9755.8 |
| 32.5° | 10390.4 | 10433.5 | 10479.7 | 10559.8 | 10495.1 | 10467.4 | 10461.2 | 10482.8 | 10384.2 | 10267.2 | 10233.3 |
| 35° | 10938.7 | 10969.5 | 11055.8 | 11123.5 | 11065.0 | 11000.3 | 11028.1 | 11095.8 | 10978.8 | 10821.7 | 10815.5 |
| 37.5° | 11545.6 | 11573.3 | 11684.2 | 11755.0 | 11711.9 | 11601.0 | 11647.2 | 11727.3 | 11610.3 | 11416.2 | 11376.1 |
| 40° | 12177.1 | 12235.6 | 12374.2 | 12448.1 | 12377.3 | 12229.4 | 12315.7 | 12401.9 | 12297.2 | 12072.3 | 11983.0 |
| 42.5° | 12885.6 | 12978.0 | 13178.2 | 13215.2 | 13079.6 | 12879.4 | 13030.4 | 13169.0 | 13095.0 | 12836.3 | 12802.4 |
| 45° | 13714.2 | 13769.7 | 14016.1 | 14096.2 | 13908.3 | 13658.8 | 13846.7 | 14099.3 | 14043.8 | 13745.0 | 13680.3 |
| 47.5° | 14641.4 | 14693.8 | 14949.5 | 15069.6 | 14832.4 | 14496.7 | 14835.5 | 15165.1 | 15131.2 | 14810.9 | 14780.1 |
| 50° | 15738.1 | 15750.4 | 16104.7 | 16240.2 | 16003.0 | 15713.4 | 16015.3 | 16425.0 | 16289.5 | 15879.8 | 15873.6 |
| 52.5° | 16939.5 | 16954.9 | 17401.5 | 17663.4 | 17530.9 | 17204.4 | 17561.7 | 17811.2 | 17466.2 | 16930.2 | 16890.2 |
| 55° | 17980.7 | 18057.7 | 18667.6 | 19363.8 | 19545.5 | 19308.3 | 19416.2 | 19299.1 | 18448.9 | 17697.3 | 17580.2 |
| 57.5° | 18405.8 | 18556.7 | 19483.9 | 20783.9 | 21966.8 | 22317.9 | 21486.2 | 20371.1 | 18840.1 | 17777.3 | 17663.4 |
| 60° | 17367.6 | 17530.9 | 18969.5 | 21436.9 | 24455.8 | 25980.6 | 23642.5 | 20552.8 | 17949.9 | 16455.8 | 16277.2 |
| 62.5° | 13908.3 | 13954.5 | 16070.8 | 19899.8 | 25906.7 | 29855.8 | 24551.3 | 19003.4 | 15359.2 | 13329.2 | 13258.3 |
| 64° | 10008.4 | 10482.8 | 12725.4 | 17447.7 | 25272.1 | 31331.4 | 24027.6 | 16831.6 | 12475.9 | 10421.2 | 10088.5 |
| 65° | 7485.5 | 7614.9 | 10257.9 | 14900.2 | 24153.9 | 31220.5 | 23011.1 | 14755.4 | 10331.9 | 7975.3 | 7605.7 |
| 67.5° | 2827.9 | 2843.3 | 3785.9 | 7427.0 | 17195.1 | 26861.6 | 17561.7 | 8027.7 | 4352.7 | 3148.2 | 3034.3 |
| 70° | 1173.7 | 1195.2 | 1389.3 | 2498.3 | 7390.0 | 17247.5 | 8468.2 | 2895.6 | 1592.6 | 1290.7 | 1272.2 |
| 72.5° | 859.4 | 871.8 | 930.3 | 1109.0 | 2273.4 | 7082.0 | 2784.7 | 1229.1 | 933.4 | 834.8 | 825.6 |
| 75° | 674.6 | 680.8 | 723.9 | 816.3 | 1059.7 | 1962.3 | 1158.3 | 844.0 | 711.6 | 640.7 | 634.6 |
| 77.5° | 514.4 | 529.8 | 560.6 | 622.3 | 711.6 | 930.3 | 767.0 | 631.5 | 548.3 | 489.8 | 480.6 |
| 80° | 354.3 | 372.7 | 431.3 | 455.9 | 477.5 | 603.8 | 523.7 | 477.5 | 428.2 | 357.3 | 335.8 |
| 82.5° | 218.7 | 231.0 | 289.6 | 311.1 | 301.9 | 338.9 | 335.8 | 341.9 | 305.0 | 221.8 | 206.4 |
| 85° | 114.0 | 120.1 | 157.1 | 163.3 | 150.9 | 138.6 | 172.5 | 200.2 | 187.9 | 126.3 | 123.2 |
| 87.5° | 24.6 | 27.7 | 33.9 | 30.8 | 33.9 | 33.9 | 43.1 | 64.7 | 67.8 | 43.1 | 40.0 |
| 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)