

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: P383635

Luminaire Tested: **GAN-SA9B-735-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-735-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49091.6 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

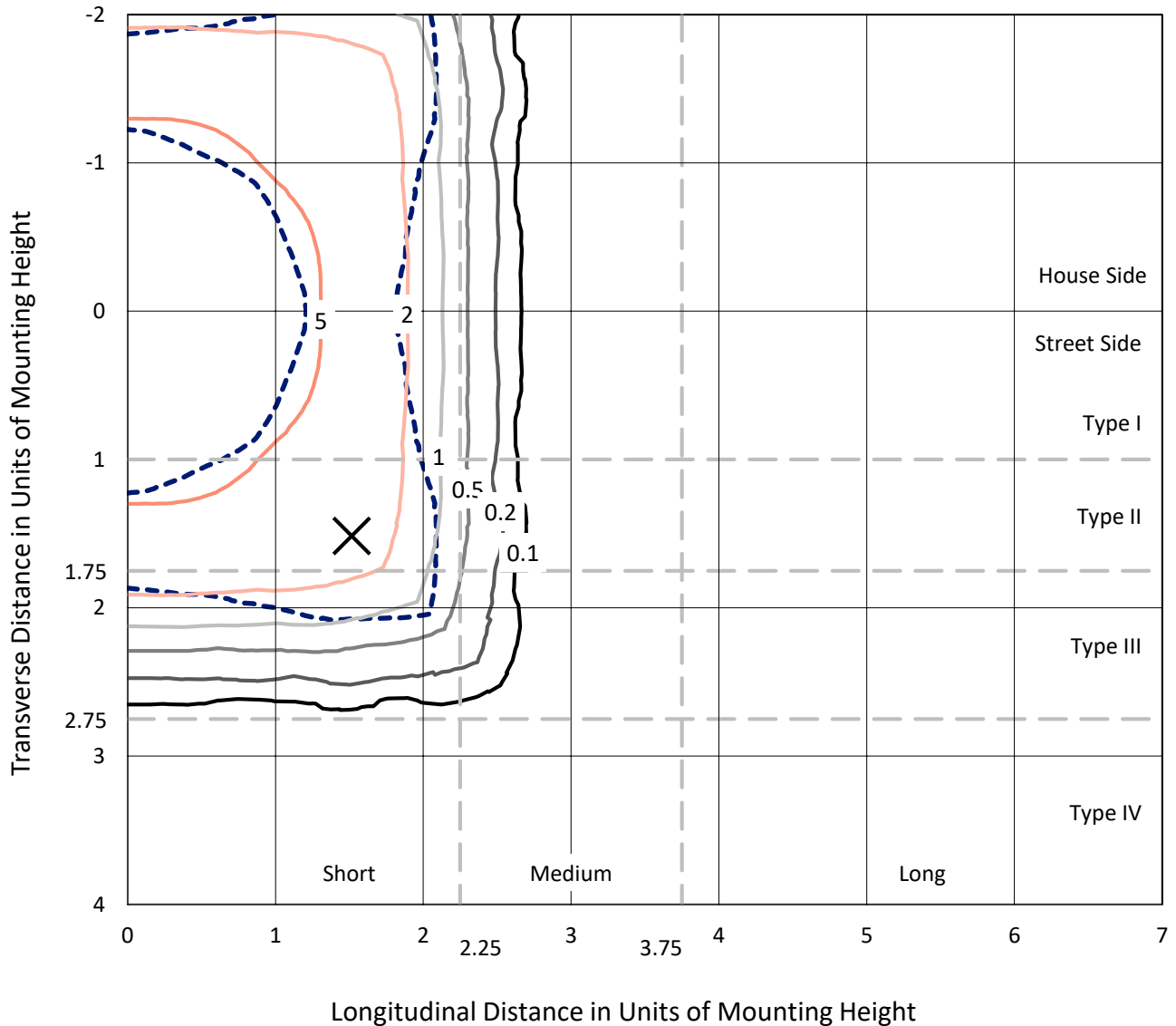
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

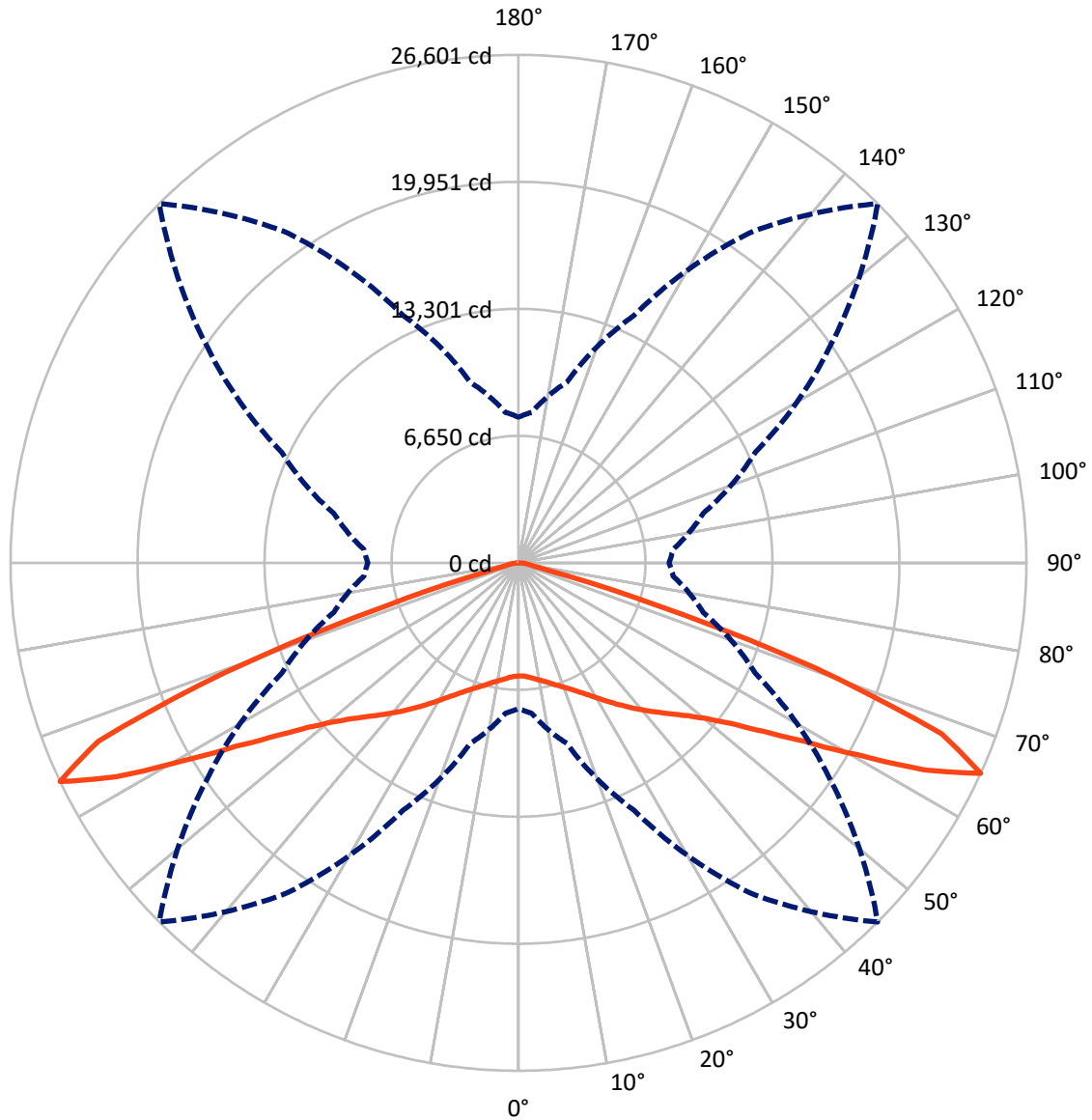
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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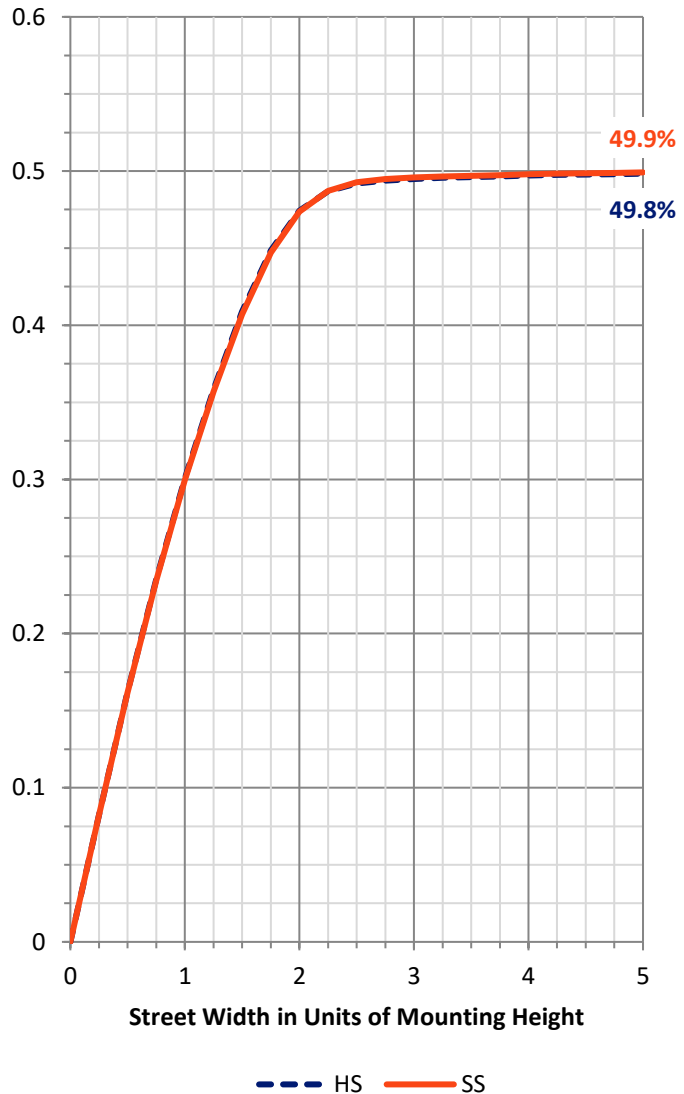
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 24545.8 | 0.0 | 24545.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 24545.8 | 0.0 | 24545.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 49091.6 | 0.0 | 49091.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 581.6 | 1.2 |
| 10°-20° | 1869.6 | 3.8 |
| 20°-30° | 3507.7 | 7.1 |
| 30°-40° | 5801.1 | 11.8 |
| 40°-50° | 8985.1 | 18.3 |
| 50°-60° | 13780.6 | 28.1 |
| 60°-70° | 12858.9 | 26.2 |
| 70°-80° | 1496.6 | 3.0 |
| 80°-90° | 210.3 | 0.4 |
| 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° | 49091.6 | 100.0 |
| 0°-180° | 49091.6 | 100.0 |

Coefficient of Utilization

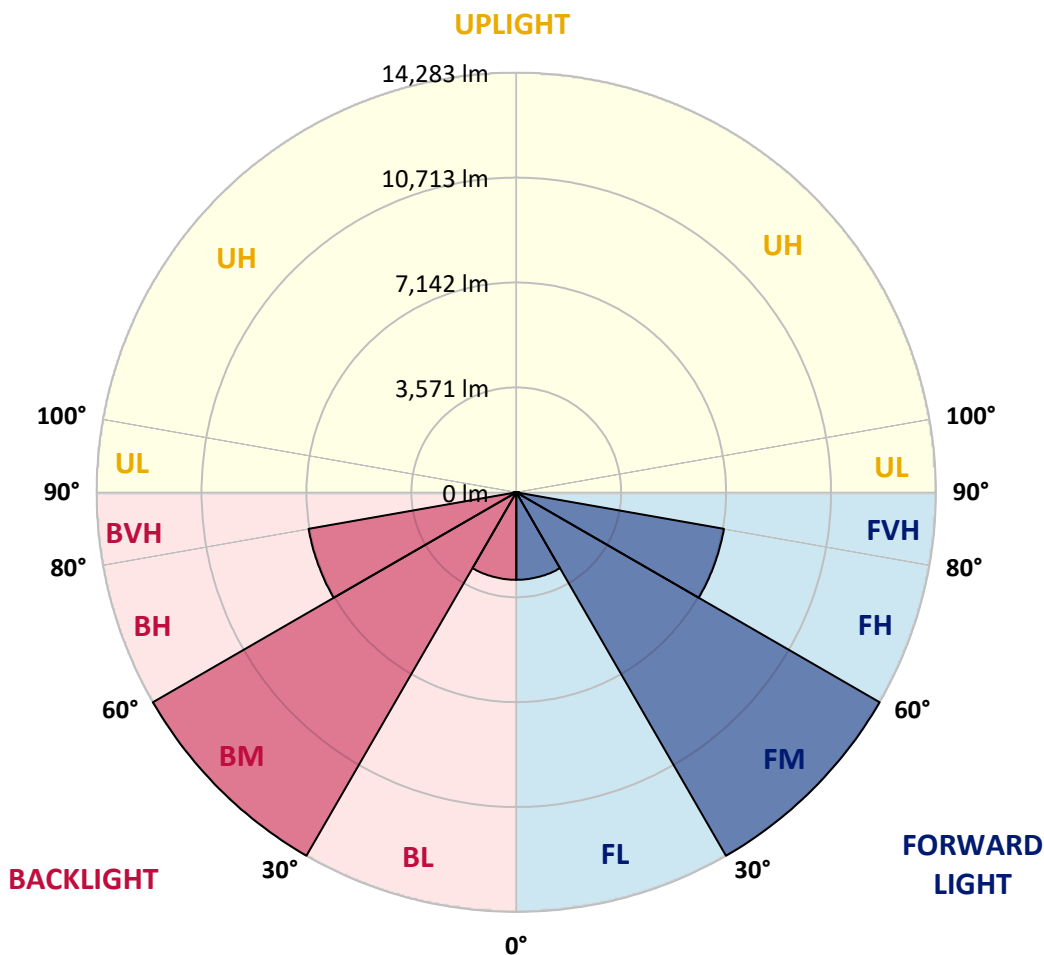


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2979.5 | 6.1 | | | |
| FM (30°-60°) | 14283.4 | 29.1 | | | |
| FH (60°-80°) | 7177.7 | 14.6 | | | G3/7500 |
| FVH (80°-90°) | 105.2 | 0.2 | | | G2/225 |
| BL (0°-30°) | 2979.5 | 6.1 | B4/5000 | | |
| BM (30°-60°) | 14283.4 | 29.1 | B5 | | |
| BH (60°-80°) | 7177.7 | 14.6 | B5 | | G3/7500 |
| BVH (80°-90°) | 105.2 | 0.2 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5928.5 | 5928.5 | 5928.5 | 5928.5 | 5928.5 | 5928.5 | 5928.5 | 5928.5 | 5928.5 | 5928.5 | 5928.5 |
| 2.5° | 5948.0 | 5944.8 | 5948.0 | 5949.6 | 5939.8 | 5944.8 | 5943.1 | 5951.3 | 5954.5 | 5951.3 | 5951.3 |
| 5° | 6016.4 | 6011.6 | 6018.1 | 6026.2 | 6013.1 | 6016.4 | 6011.6 | 6021.3 | 6024.6 | 6018.1 | 6022.9 |
| 7.5° | 6111.0 | 6112.5 | 6119.1 | 6133.8 | 6125.6 | 6132.1 | 6122.3 | 6124.0 | 6122.3 | 6112.5 | 6114.2 |
| 10° | 6213.6 | 6215.3 | 6226.7 | 6246.2 | 6249.5 | 6249.5 | 6243.0 | 6238.0 | 6231.5 | 6225.1 | 6226.7 |
| 12.5° | 6337.5 | 6345.6 | 6353.7 | 6378.2 | 6378.2 | 6391.3 | 6388.0 | 6375.0 | 6363.5 | 6353.7 | 6353.7 |
| 15° | 6505.3 | 6503.7 | 6513.5 | 6537.9 | 6549.3 | 6570.5 | 6570.5 | 6552.6 | 6537.9 | 6528.1 | 6524.8 |
| 17.5° | 6681.3 | 6686.2 | 6692.7 | 6722.0 | 6739.9 | 6764.4 | 6767.7 | 6753.0 | 6743.2 | 6730.2 | 6722.0 |
| 20° | 6886.7 | 6894.8 | 6920.8 | 6932.3 | 6948.6 | 6971.3 | 6979.5 | 6976.3 | 6966.5 | 6960.0 | 6961.5 |
| 22.5° | 7126.2 | 7147.4 | 7163.7 | 7180.0 | 7199.6 | 7215.8 | 7224.0 | 7235.3 | 7225.5 | 7220.7 | 7217.4 |
| 25° | 7416.2 | 7431.0 | 7463.5 | 7492.8 | 7505.9 | 7510.8 | 7520.6 | 7536.9 | 7535.2 | 7523.8 | 7523.8 |
| 27.5° | 7745.4 | 7773.1 | 7813.8 | 7856.2 | 7856.2 | 7839.9 | 7872.5 | 7900.3 | 7890.5 | 7875.8 | 7856.2 |
| 30° | 8144.7 | 8170.8 | 8218.0 | 8276.7 | 8247.4 | 8235.9 | 8280.0 | 8330.5 | 8315.7 | 8291.3 | 8288.1 |
| 32.5° | 8574.9 | 8599.3 | 8661.3 | 8724.8 | 8687.3 | 8671.0 | 8718.3 | 8791.6 | 8765.6 | 8716.7 | 8687.3 |
| 35° | 9040.9 | 9065.4 | 9153.4 | 9230.0 | 9166.4 | 9138.8 | 9177.8 | 9257.7 | 9212.1 | 9120.8 | 9098.0 |
| 37.5° | 9547.7 | 9560.8 | 9674.9 | 9753.1 | 9709.1 | 9635.7 | 9684.6 | 9743.3 | 9704.2 | 9593.4 | 9549.4 |
| 40° | 10074.1 | 10121.4 | 10253.4 | 10344.6 | 10268.0 | 10152.3 | 10233.8 | 10315.3 | 10256.6 | 10114.8 | 10039.8 |
| 42.5° | 10688.5 | 10724.3 | 10900.3 | 10981.8 | 10857.9 | 10695.0 | 10805.8 | 10916.6 | 10857.9 | 10721.1 | 10655.9 |
| 45° | 11327.2 | 11382.7 | 11592.9 | 11674.3 | 11495.1 | 11288.1 | 11423.4 | 11617.3 | 11612.4 | 11415.3 | 11346.8 |
| 47.5° | 12023.1 | 12078.5 | 12329.4 | 12437.0 | 12243.1 | 11966.0 | 12156.7 | 12430.5 | 12410.9 | 12194.2 | 12138.8 |
| 50° | 12826.5 | 12885.2 | 13198.0 | 13333.2 | 13152.4 | 12829.7 | 13116.6 | 13357.7 | 13321.9 | 13054.6 | 13059.6 |
| 52.5° | 13835.2 | 13831.9 | 14221.4 | 14456.0 | 14270.3 | 13985.1 | 14249.1 | 14483.8 | 14335.5 | 13965.6 | 13954.1 |
| 55° | 14718.5 | 14772.2 | 15254.6 | 15699.5 | 15688.0 | 15578.8 | 15684.7 | 15694.5 | 15270.9 | 14778.7 | 14718.5 |
| 57.5° | 15298.5 | 15401.2 | 16080.7 | 16885.8 | 17488.7 | 17633.7 | 17428.4 | 16806.0 | 15813.5 | 15026.4 | 14930.3 |
| 60° | 14941.7 | 15098.2 | 16165.5 | 17806.5 | 19582.7 | 20435.0 | 19276.4 | 17345.3 | 15391.4 | 14294.7 | 14164.4 |
| 62.5° | 12533.1 | 12797.1 | 14359.9 | 17361.6 | 21385.1 | 23876.7 | 20615.9 | 16480.0 | 13712.9 | 12202.3 | 11979.1 |
| 65° | 7633.0 | 7911.6 | 9795.4 | 14289.8 | 21093.4 | 26601.4 | 20004.8 | 13678.8 | 10008.9 | 8130.0 | 7888.8 |
| 67.5° | 2543.8 | 2625.3 | 3735.0 | 7898.6 | 16577.8 | 23901.2 | 16605.5 | 8188.7 | 4355.9 | 2887.6 | 2802.9 |
| 70° | 995.6 | 1003.8 | 1184.7 | 2289.6 | 7828.5 | 16416.5 | 8638.4 | 2330.3 | 1238.5 | 979.3 | 1000.6 |
| 72.5° | 731.7 | 734.9 | 785.5 | 956.6 | 2040.3 | 7232.1 | 2113.6 | 961.5 | 764.2 | 686.1 | 686.1 |
| 75° | 588.3 | 588.3 | 624.1 | 697.4 | 914.2 | 1658.9 | 927.3 | 689.3 | 598.1 | 547.6 | 541.0 |
| 77.5° | 464.5 | 474.3 | 501.9 | 549.1 | 619.2 | 798.5 | 642.0 | 545.9 | 482.4 | 435.1 | 425.3 |
| 80° | 345.5 | 355.3 | 400.8 | 423.7 | 444.9 | 554.1 | 474.3 | 426.9 | 381.3 | 325.9 | 316.2 |
| 82.5° | 226.6 | 236.3 | 293.3 | 306.4 | 301.4 | 361.8 | 319.4 | 314.5 | 280.3 | 210.3 | 200.5 |
| 85° | 148.3 | 151.6 | 195.5 | 203.7 | 187.4 | 164.6 | 203.7 | 215.1 | 195.5 | 136.8 | 132.0 |
| 87.5° | 70.1 | 70.1 | 99.4 | 92.9 | 84.8 | 68.5 | 92.9 | 109.2 | 110.9 | 66.8 | 65.2 |
| 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)