

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: P316861

Luminaire Tested: **GAN-SA7D-750-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316861
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-SA7D-750-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 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: 56610 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

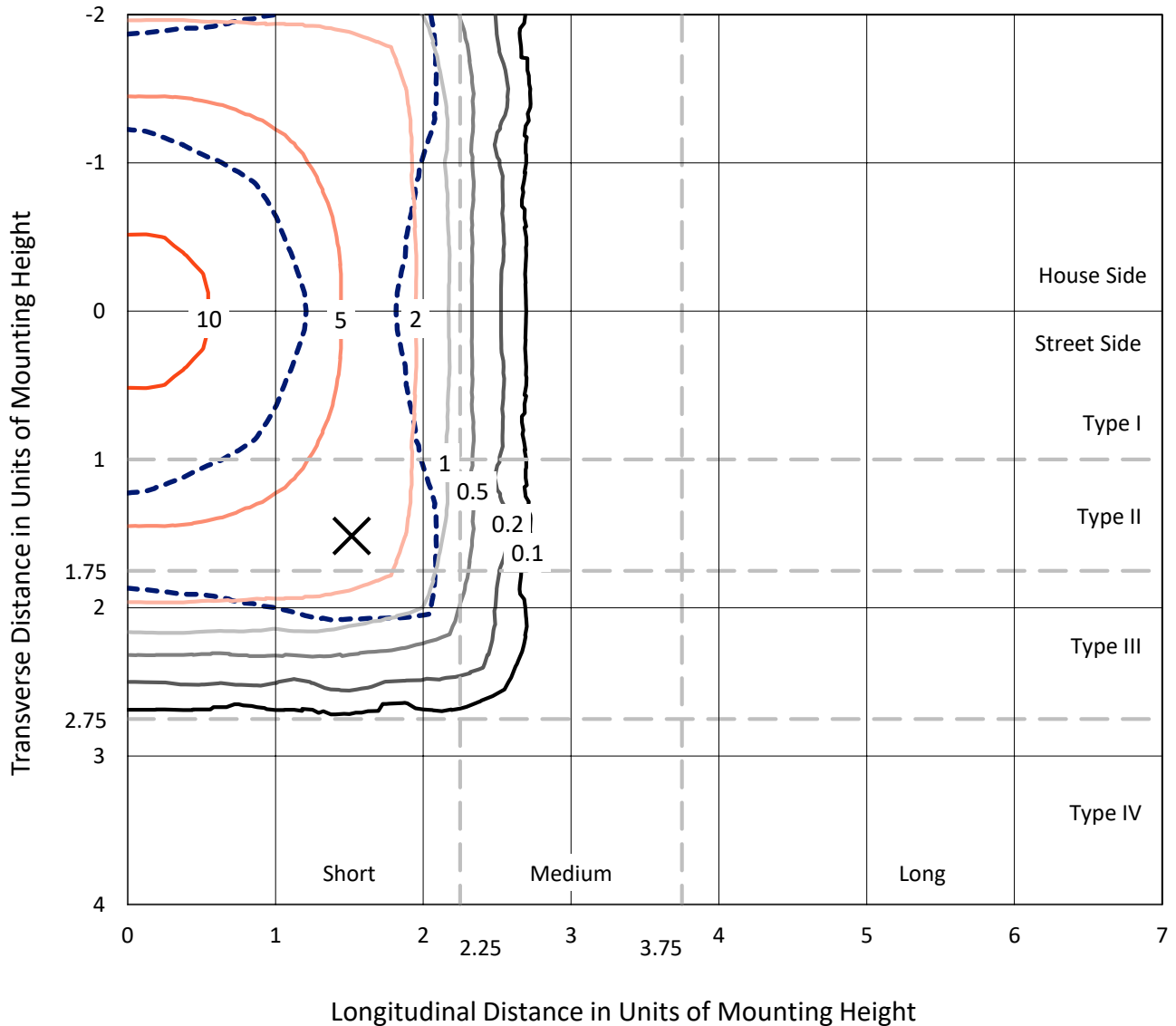
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

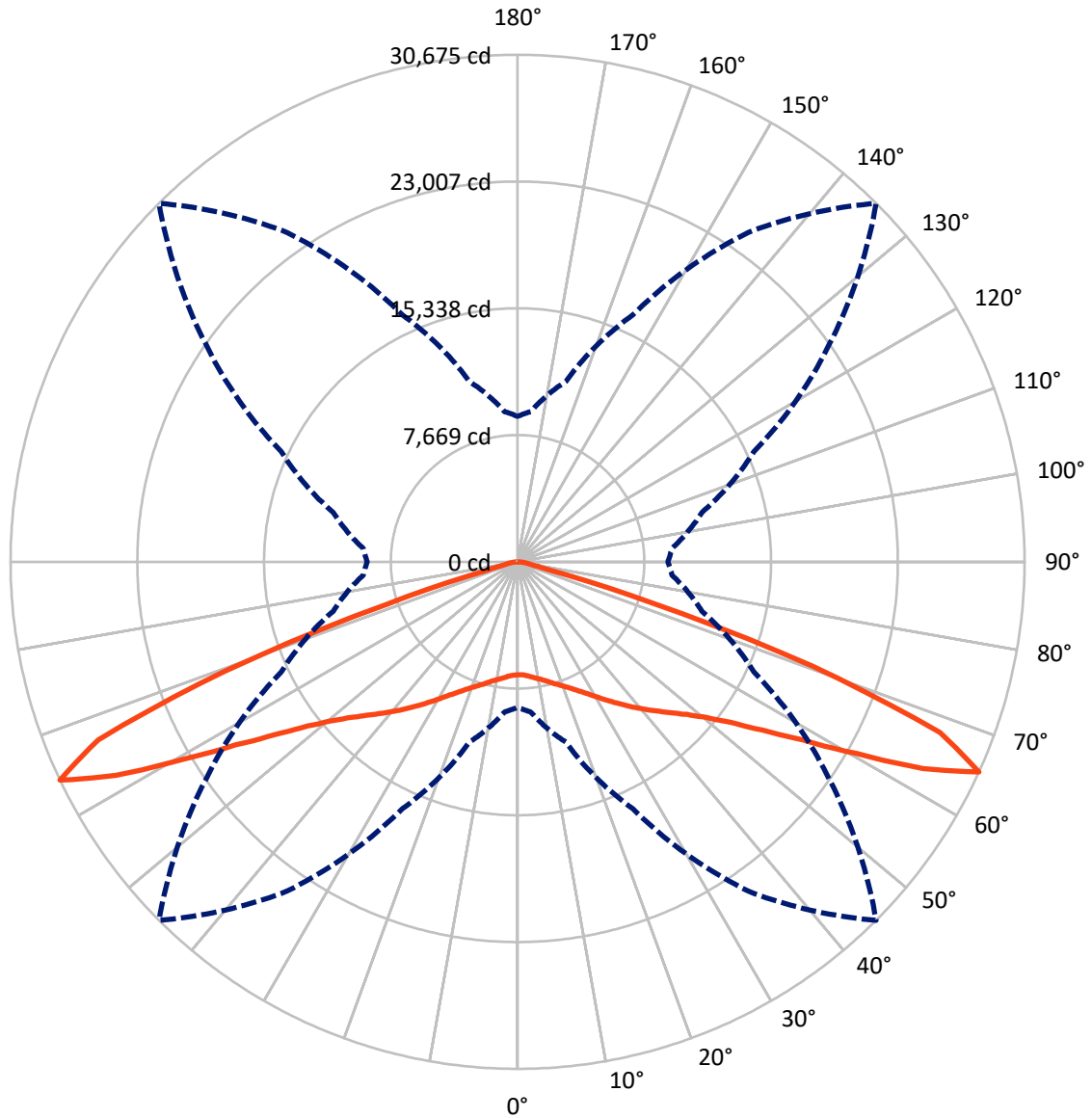
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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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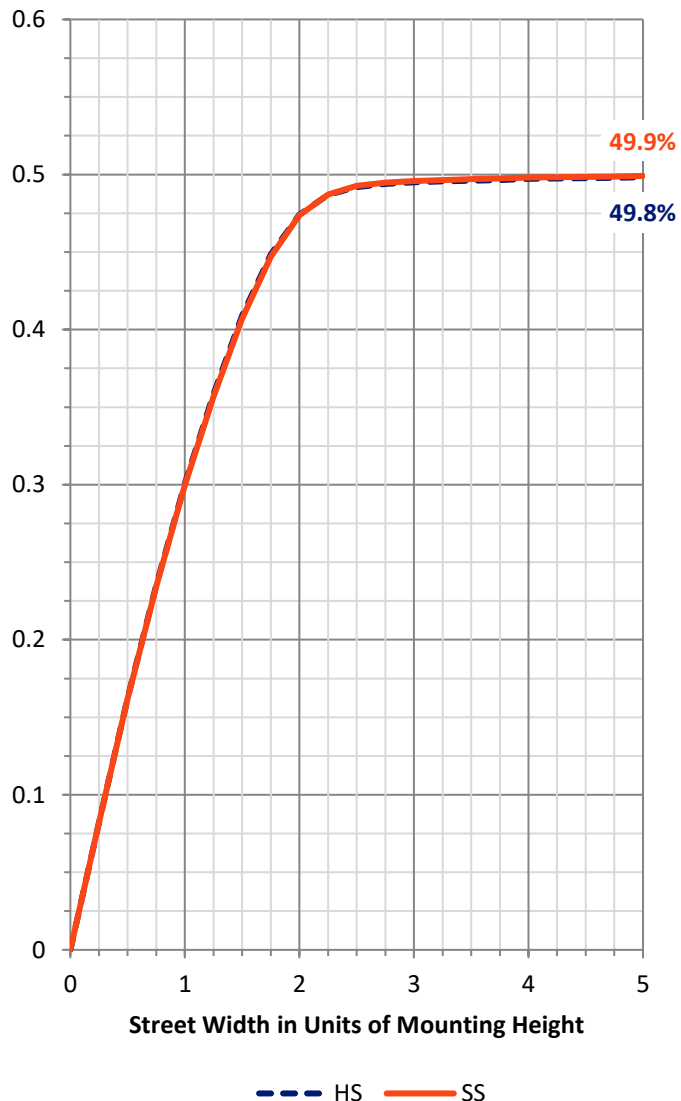
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 28305.0 | 0.0 | 28305.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 28305.0 | 0.0 | 28305.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 56610.0 | 0.0 | 56610.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 670.7 | 1.2 |
| 10°-20° | 2155.9 | 3.8 |
| 20°-30° | 4045.0 | 7.1 |
| 30°-40° | 6689.5 | 11.8 |
| 40°-50° | 10361.2 | 18.3 |
| 50°-60° | 15891.1 | 28.1 |
| 60°-70° | 14828.2 | 26.2 |
| 70°-80° | 1725.8 | 3.0 |
| 80°-90° | 242.5 | 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° | 56610.0 | 100.0 |
| 0°-180° | 56610.0 | 100.0 |

Coefficient of Utilization

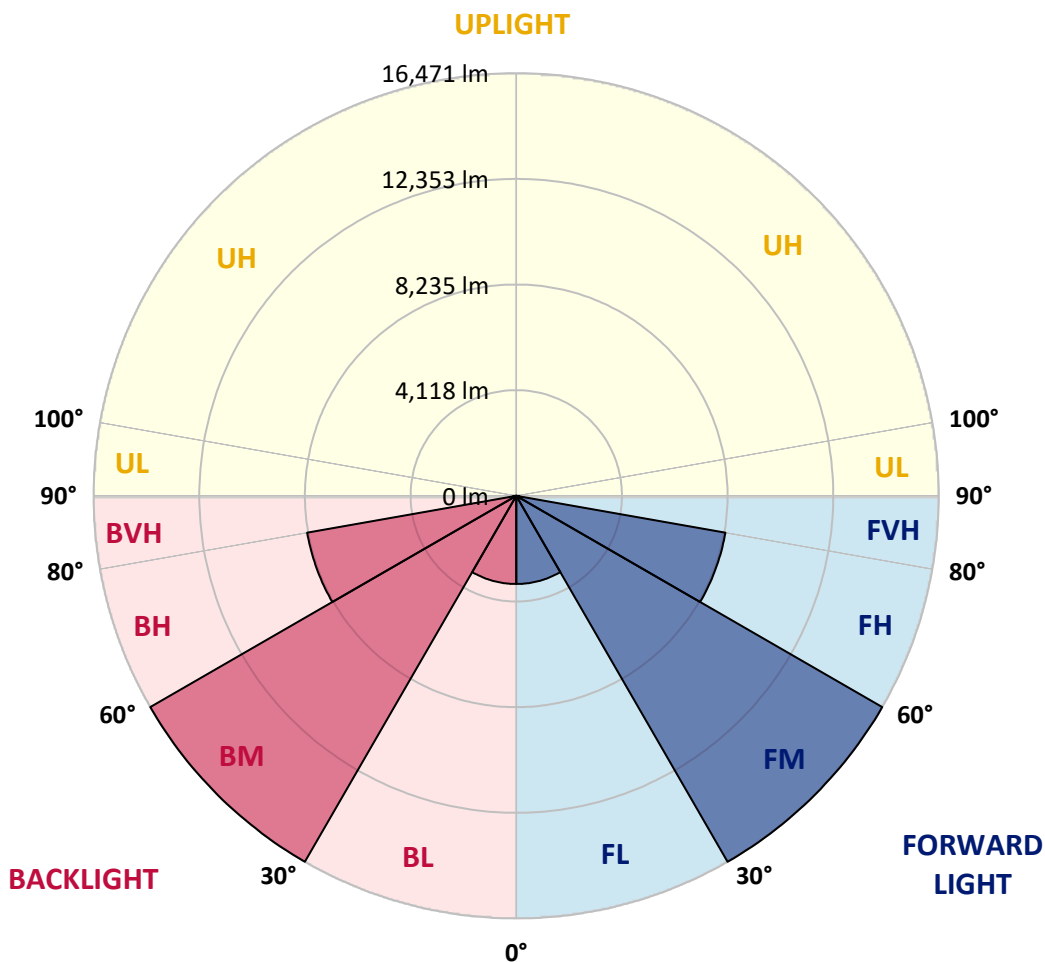


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3435.8 | 6.1 | | | |
| FM (30°-60°) | 16470.9 | 29.1 | | | |
| FH (60°-80°) | 8277.0 | 14.6 | | | G4/12000 |
| FVH (80°-90°) | 121.2 | 0.2 | | | G2/225 |
| BL (0°-30°) | 3435.8 | 6.1 | B4/5000 | | |
| BM (30°-60°) | 16470.9 | 29.1 | B5 | | |
| BH (60°-80°) | 8277.0 | 14.6 | B5 | | G4/12000 |
| BVH (80°-90°) | 121.2 | 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-G4
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6836.4 | 6836.4 | 6836.4 | 6836.4 | 6836.4 | 6836.4 | 6836.4 | 6836.4 | 6836.4 | 6836.4 | 6836.4 |
| 2.5° | 6858.9 | 6855.2 | 6858.9 | 6860.8 | 6849.5 | 6855.2 | 6853.3 | 6862.7 | 6866.4 | 6862.7 | 6862.7 |
| 5° | 6937.8 | 6932.2 | 6939.7 | 6949.1 | 6934.1 | 6937.8 | 6932.2 | 6943.5 | 6947.2 | 6939.7 | 6945.4 |
| 7.5° | 7046.8 | 7048.7 | 7056.2 | 7073.1 | 7063.8 | 7071.3 | 7060.0 | 7061.9 | 7060.0 | 7048.7 | 7050.6 |
| 10° | 7165.2 | 7167.1 | 7180.3 | 7202.8 | 7206.6 | 7206.6 | 7199.1 | 7193.4 | 7185.9 | 7178.4 | 7180.3 |
| 12.5° | 7308.0 | 7317.4 | 7326.8 | 7355.0 | 7355.0 | 7370.1 | 7366.3 | 7351.3 | 7338.1 | 7326.8 | 7326.8 |
| 15° | 7501.6 | 7499.7 | 7511.0 | 7539.2 | 7552.3 | 7576.8 | 7576.8 | 7556.1 | 7539.2 | 7527.9 | 7524.1 |
| 17.5° | 7704.5 | 7710.2 | 7717.7 | 7751.5 | 7772.2 | 7800.4 | 7804.1 | 7787.2 | 7776.0 | 7760.9 | 7751.5 |
| 20° | 7941.3 | 7950.7 | 7980.8 | 7993.9 | 8012.7 | 8039.0 | 8048.4 | 8044.7 | 8033.4 | 8025.9 | 8027.8 |
| 22.5° | 8217.6 | 8242.0 | 8260.8 | 8279.6 | 8302.1 | 8320.9 | 8330.3 | 8343.5 | 8332.2 | 8326.5 | 8322.8 |
| 25° | 8552.0 | 8569.0 | 8606.5 | 8640.4 | 8655.4 | 8661.0 | 8672.3 | 8691.1 | 8689.2 | 8676.1 | 8676.1 |
| 27.5° | 8931.6 | 8963.6 | 9010.6 | 9059.4 | 9059.4 | 9040.6 | 9078.2 | 9110.2 | 9098.9 | 9082.0 | 9059.4 |
| 30° | 9392.0 | 9422.1 | 9476.6 | 9544.2 | 9510.4 | 9497.3 | 9548.0 | 9606.3 | 9589.3 | 9561.2 | 9557.4 |
| 32.5° | 9888.1 | 9916.3 | 9987.7 | 10061.0 | 10017.8 | 9999.0 | 10053.5 | 10138.1 | 10108.0 | 10051.6 | 10017.8 |
| 35° | 10425.6 | 10453.8 | 10555.2 | 10643.5 | 10570.3 | 10538.3 | 10583.4 | 10675.5 | 10622.9 | 10517.6 | 10491.3 |
| 37.5° | 11010.0 | 11025.0 | 11156.6 | 11246.8 | 11196.0 | 11111.5 | 11167.8 | 11235.5 | 11190.4 | 11062.6 | 11011.9 |
| 40° | 11617.0 | 11671.4 | 11823.7 | 11928.9 | 11840.6 | 11707.2 | 11801.1 | 11895.1 | 11827.4 | 11663.9 | 11577.5 |
| 42.5° | 12325.4 | 12366.7 | 12569.7 | 12663.6 | 12520.8 | 12332.9 | 12460.7 | 12588.5 | 12520.8 | 12363.0 | 12287.8 |
| 45° | 13062.0 | 13125.9 | 13368.3 | 13462.3 | 13255.6 | 13016.9 | 13172.9 | 13396.5 | 13390.9 | 13163.5 | 13084.6 |
| 47.5° | 13864.4 | 13928.3 | 14217.7 | 14341.7 | 14118.1 | 13798.7 | 14018.5 | 14334.2 | 14311.7 | 14061.7 | 13997.8 |
| 50° | 14790.8 | 14858.5 | 15219.3 | 15375.3 | 15166.7 | 14794.6 | 15125.3 | 15403.5 | 15362.1 | 15053.9 | 15059.6 |
| 52.5° | 15954.0 | 15950.3 | 16399.4 | 16670.0 | 16455.8 | 16126.9 | 16431.4 | 16702.0 | 16530.9 | 16104.4 | 16091.2 |
| 55° | 16972.5 | 17034.6 | 17590.8 | 18103.8 | 18090.6 | 17964.7 | 18086.9 | 18098.2 | 17609.6 | 17042.1 | 16972.5 |
| 57.5° | 17641.5 | 17759.9 | 18543.5 | 19471.8 | 20167.1 | 20334.4 | 20097.6 | 19379.7 | 18235.3 | 17327.7 | 17216.8 |
| 60° | 17230.0 | 17410.4 | 18641.2 | 20533.6 | 22581.8 | 23564.6 | 22228.6 | 20001.8 | 17748.6 | 16484.0 | 16333.6 |
| 62.5° | 14452.6 | 14757.0 | 16559.1 | 20020.5 | 24660.2 | 27533.4 | 23773.2 | 19003.9 | 15813.1 | 14071.1 | 13813.7 |
| 65° | 8802.0 | 9123.3 | 11295.6 | 16478.3 | 24323.8 | 30675.4 | 23068.5 | 15773.6 | 11541.8 | 9375.1 | 9097.0 |
| 67.5° | 2933.4 | 3027.3 | 4307.0 | 9108.3 | 19116.7 | 27561.6 | 19148.6 | 9442.8 | 5023.0 | 3329.9 | 3232.2 |
| 70° | 1148.2 | 1157.6 | 1366.1 | 2640.2 | 9027.5 | 18930.6 | 9961.4 | 2687.2 | 1428.2 | 1129.4 | 1153.8 |
| 72.5° | 843.7 | 847.5 | 905.8 | 1103.1 | 2352.7 | 8339.7 | 2437.3 | 1108.7 | 881.3 | 791.1 | 791.1 |
| 75° | 678.4 | 678.4 | 719.7 | 804.3 | 1054.2 | 1913.0 | 1069.2 | 794.9 | 689.7 | 631.4 | 623.9 |
| 77.5° | 535.6 | 546.8 | 578.8 | 633.3 | 714.1 | 920.8 | 740.4 | 629.5 | 556.2 | 501.7 | 490.5 |
| 80° | 398.4 | 409.7 | 462.3 | 488.6 | 513.0 | 638.9 | 546.8 | 492.3 | 439.7 | 375.8 | 364.6 |
| 82.5° | 261.2 | 272.5 | 338.2 | 353.3 | 347.6 | 417.2 | 368.3 | 362.7 | 323.2 | 242.4 | 231.1 |
| 85° | 171.0 | 174.8 | 225.5 | 234.9 | 216.1 | 189.8 | 234.9 | 248.0 | 225.5 | 157.8 | 152.2 |
| 87.5° | 80.8 | 80.8 | 114.6 | 107.1 | 97.7 | 78.9 | 107.1 | 125.9 | 127.8 | 77.0 | 75.2 |
| 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)