

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386100

Luminaire Tested: GAW-SA1D-727-U-5WQ

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA1D-727-U-5WQ
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7300 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

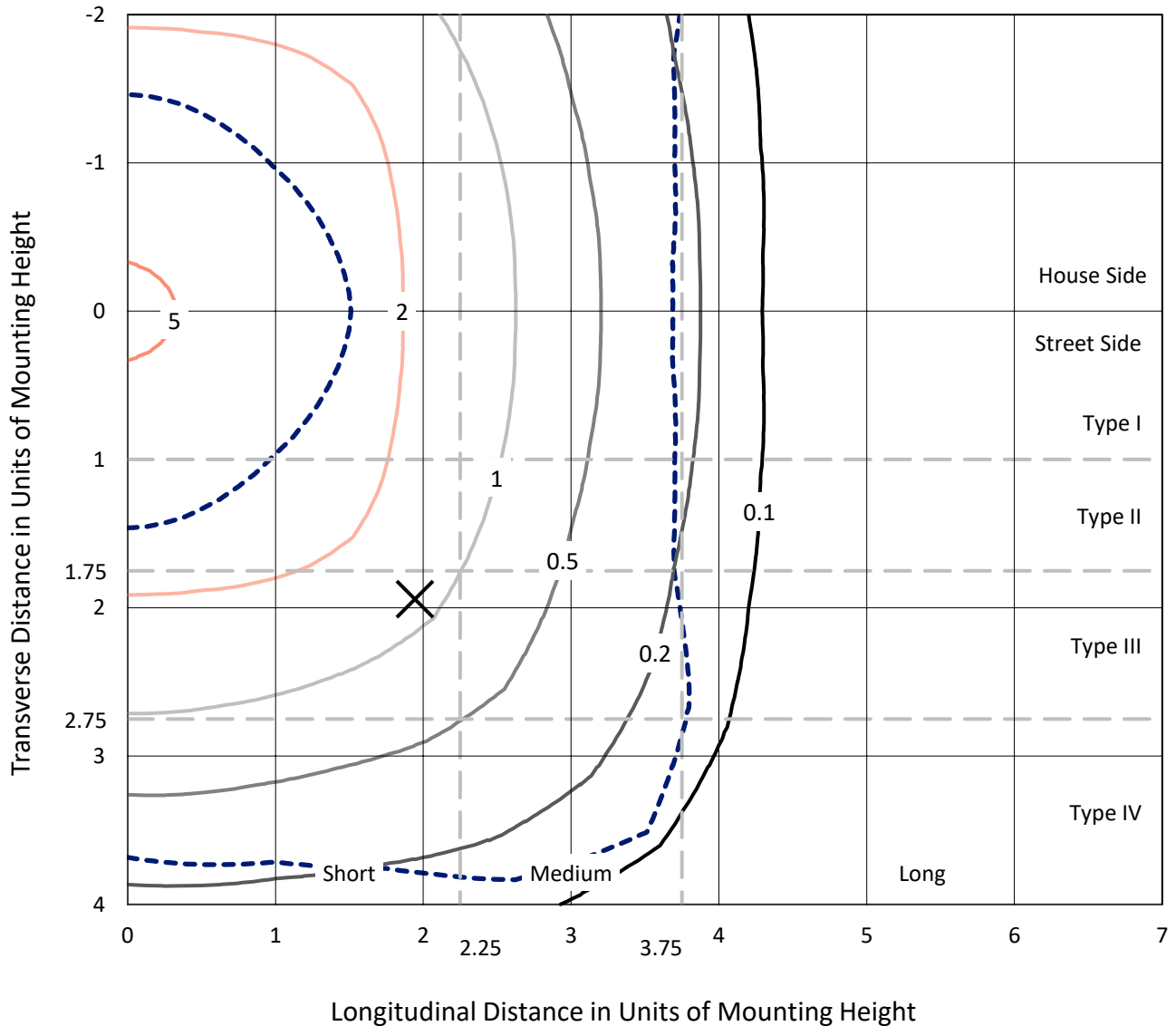
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

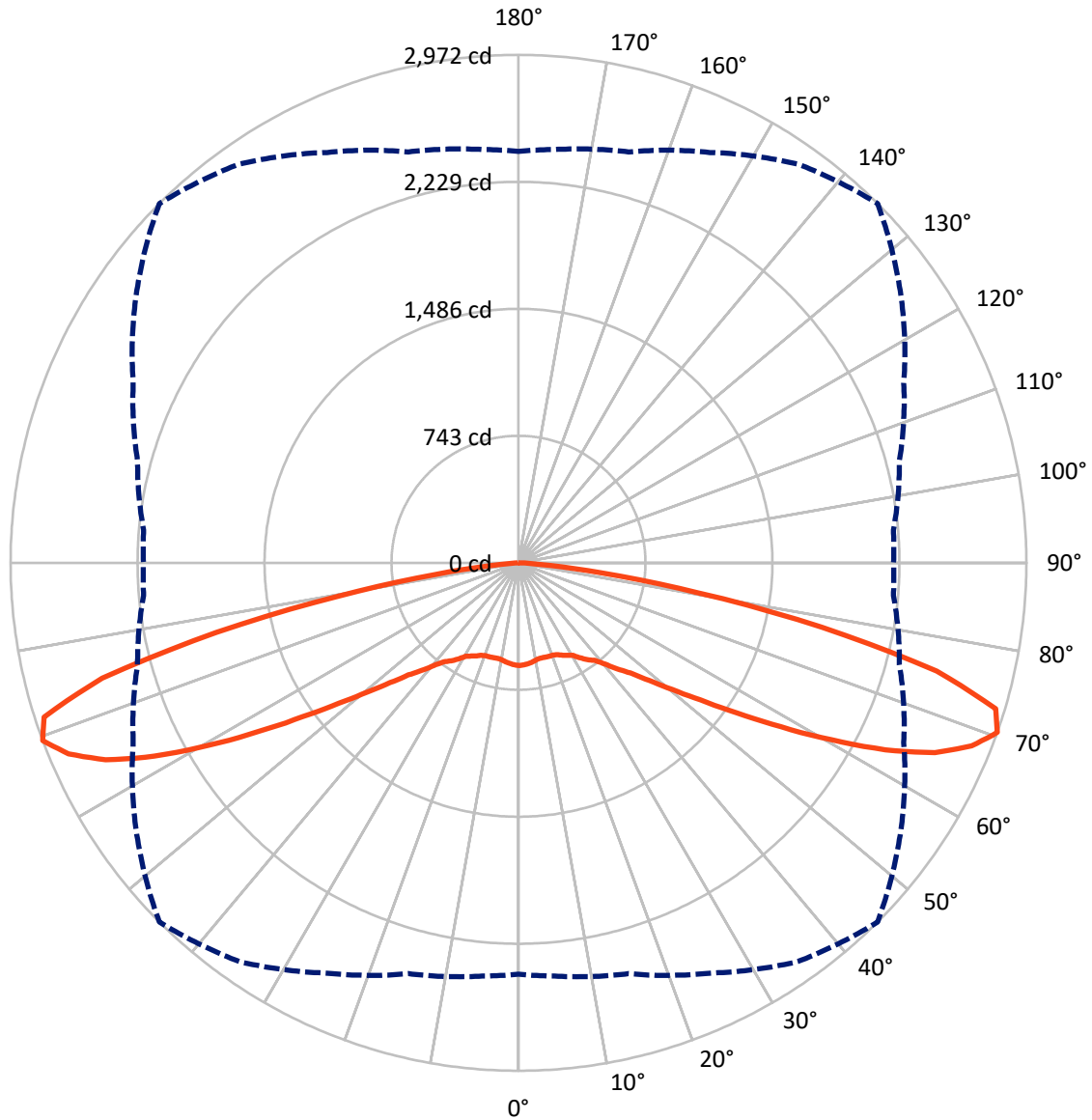
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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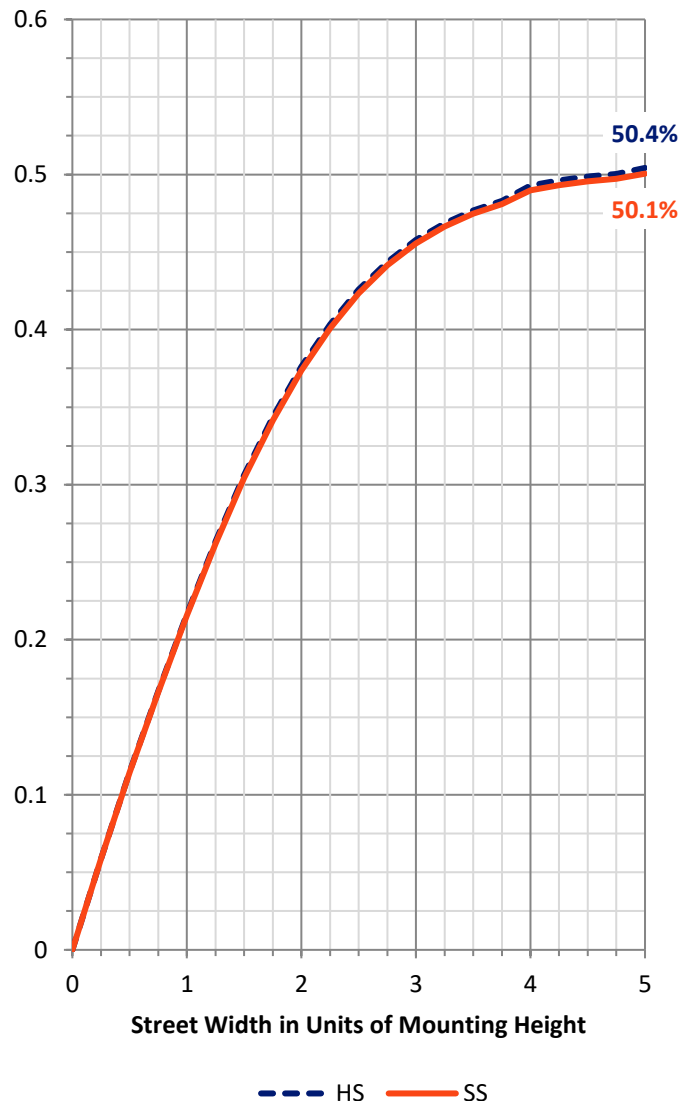
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3650.0 | 0.0 | 3650.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3650.0 | 0.0 | 3650.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 7300.0 | 0.0 | 7300.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 56.1 | 0.8 |
| 10°-20° | 163.8 | 2.2 |
| 20°-30° | 279.3 | 3.8 |
| 30°-40° | 436.4 | 6.0 |
| 40°-50° | 739.5 | 10.1 |
| 50°-60° | 1348.6 | 18.5 |
| 60°-70° | 2321.7 | 31.8 |
| 70°-80° | 1819.8 | 24.9 |
| 80°-90° | 134.9 | 1.8 |
| 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° | 7300.0 | 100.0 |
| 0°-180° | 7300.0 | 100.0 |

Coefficient of Utilization



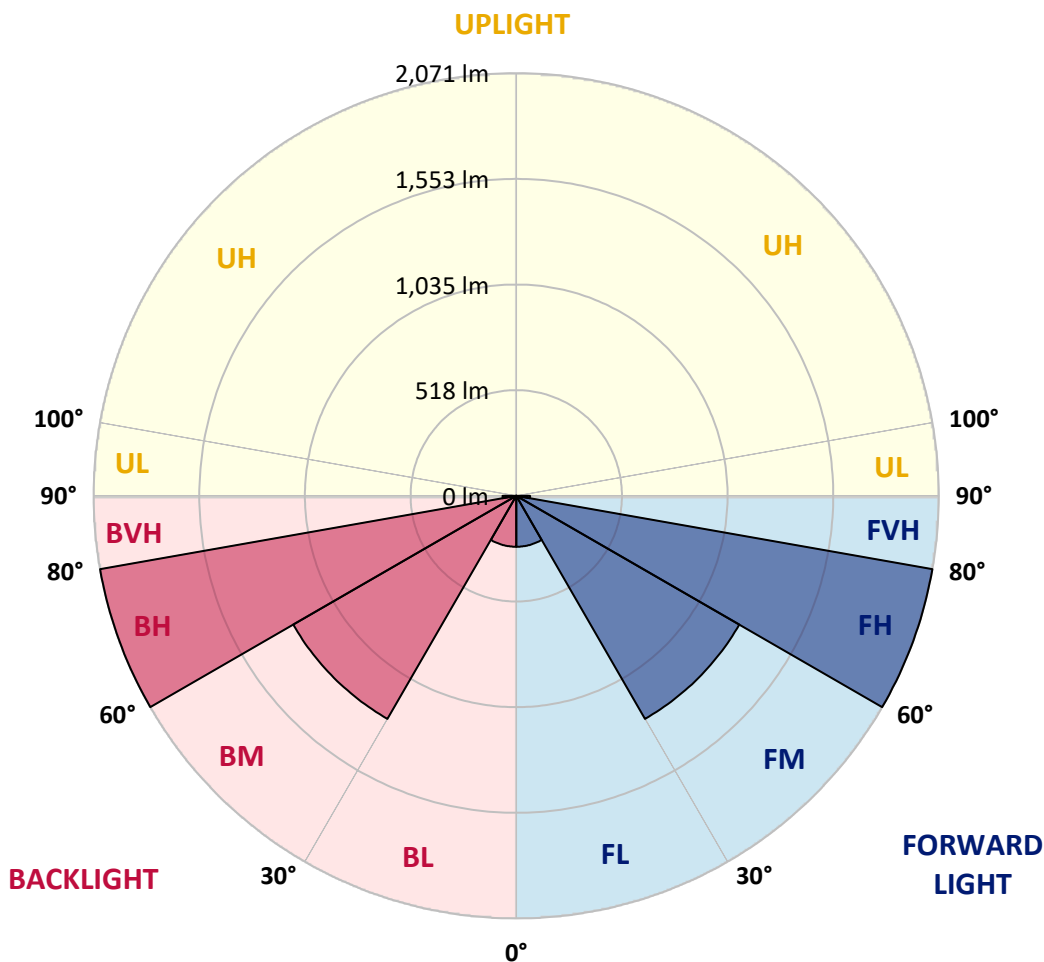
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 249.6 | 3.4 | | | |
| FM (30°-60°) | 1262.2 | 17.3 | | | |
| FH (60°-80°) | 2070.7 | 28.4 | | | G2/5000 |
| FVH (80°-90°) | 67.5 | 0.9 | | | G1/100 |
| BL (0°-30°) | 249.6 | 3.4 | B1/500 | | |
| BM (30°-60°) | 1262.2 | 17.3 | B2/2500 | | |
| BH (60°-80°) | 2070.7 | 28.4 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 67.5 | 0.9 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 600.8 | 600.8 | 600.8 | 600.8 | 600.8 | 600.8 | 600.8 | 600.8 | 600.8 | 600.8 | 600.8 |
| 2.5° | 598.1 | 598.9 | 598.1 | 598.6 | 597.4 | 597.9 | 597.9 | 597.9 | 597.7 | 597.9 | 597.4 |
| 5° | 592.8 | 593.3 | 592.3 | 592.8 | 592.1 | 592.8 | 593.1 | 592.8 | 592.3 | 592.6 | 591.6 |
| 7.5° | 584.9 | 585.3 | 584.6 | 585.3 | 584.4 | 585.6 | 585.3 | 584.6 | 583.9 | 583.9 | 582.9 |
| 10° | 580.5 | 580.7 | 578.8 | 578.1 | 575.9 | 576.4 | 577.1 | 577.9 | 578.6 | 580.0 | 579.8 |
| 12.5° | 580.7 | 580.7 | 577.9 | 574.7 | 571.6 | 572.3 | 573.5 | 576.2 | 579.1 | 581.7 | 582.0 |
| 15° | 583.2 | 582.9 | 578.6 | 573.5 | 571.3 | 573.5 | 574.2 | 575.9 | 580.5 | 585.1 | 585.3 |
| 17.5° | 584.9 | 584.9 | 578.1 | 572.3 | 572.1 | 575.4 | 575.2 | 575.9 | 581.0 | 587.8 | 588.0 |
| 20° | 588.0 | 588.0 | 579.3 | 573.0 | 573.0 | 576.6 | 576.9 | 578.1 | 583.2 | 590.6 | 591.9 |
| 22.5° | 595.0 | 595.2 | 586.1 | 581.0 | 581.5 | 583.6 | 584.4 | 586.3 | 590.9 | 599.1 | 600.5 |
| 25° | 604.9 | 605.4 | 596.0 | 593.1 | 594.8 | 598.9 | 598.4 | 599.8 | 604.9 | 612.9 | 614.3 |
| 27.5° | 618.7 | 617.5 | 608.8 | 607.6 | 609.2 | 612.1 | 611.9 | 612.1 | 616.2 | 623.5 | 625.2 |
| 30° | 636.5 | 636.0 | 629.8 | 630.5 | 629.8 | 628.8 | 629.0 | 631.0 | 633.1 | 638.9 | 640.6 |
| 32.5° | 653.9 | 654.4 | 650.5 | 654.2 | 659.5 | 663.1 | 657.5 | 652.2 | 649.8 | 652.9 | 654.4 |
| 35° | 685.3 | 686.5 | 680.5 | 678.1 | 685.3 | 695.9 | 680.2 | 671.5 | 676.4 | 680.5 | 681.7 |
| 37.5° | 738.7 | 739.4 | 729.3 | 719.6 | 714.3 | 724.4 | 708.7 | 709.5 | 726.4 | 734.1 | 733.8 |
| 40° | 799.5 | 799.8 | 793.0 | 784.6 | 775.4 | 777.8 | 771.5 | 773.4 | 784.6 | 791.6 | 793.5 |
| 42.5° | 872.0 | 871.2 | 860.6 | 848.5 | 845.9 | 848.3 | 837.7 | 836.2 | 849.0 | 861.6 | 861.8 |
| 45° | 965.9 | 964.2 | 950.4 | 937.2 | 924.4 | 919.1 | 916.4 | 923.4 | 941.0 | 952.6 | 952.9 |
| 47.5° | 1067.1 | 1062.5 | 1055.2 | 1044.6 | 1033.5 | 1028.2 | 1023.9 | 1027.2 | 1040.0 | 1044.6 | 1045.1 |
| 50° | 1171.2 | 1172.1 | 1173.6 | 1169.5 | 1165.4 | 1163.7 | 1152.3 | 1145.8 | 1149.7 | 1141.2 | 1140.0 |
| 52.5° | 1294.6 | 1296.5 | 1310.5 | 1322.3 | 1329.3 | 1332.9 | 1311.5 | 1289.0 | 1276.4 | 1260.0 | 1255.2 |
| 55° | 1440.2 | 1443.3 | 1463.8 | 1496.7 | 1530.5 | 1548.3 | 1509.5 | 1467.4 | 1428.6 | 1397.9 | 1388.0 |
| 57.5° | 1602.4 | 1608.0 | 1636.2 | 1699.3 | 1768.6 | 1810.8 | 1745.1 | 1668.8 | 1593.7 | 1549.5 | 1541.8 |
| 60° | 1792.7 | 1798.0 | 1837.1 | 1927.5 | 2039.7 | 2103.3 | 2003.8 | 1878.9 | 1785.5 | 1743.2 | 1729.0 |
| 62.5° | 2019.2 | 2019.7 | 2067.8 | 2173.3 | 2321.5 | 2409.9 | 2275.2 | 2108.3 | 2012.0 | 1961.0 | 1947.3 |
| 65° | 2262.9 | 2264.1 | 2313.8 | 2427.8 | 2581.1 | 2677.2 | 2525.1 | 2351.2 | 2233.4 | 2158.3 | 2147.7 |
| 67.5° | 2435.0 | 2440.1 | 2492.5 | 2629.7 | 2773.1 | 2859.8 | 2702.4 | 2505.8 | 2369.6 | 2280.0 | 2271.1 |
| 70° | 2407.5 | 2427.3 | 2488.9 | 2649.0 | 2848.4 | 2972.1 | 2731.1 | 2487.4 | 2307.8 | 2202.0 | 2194.5 |
| 72.5° | 2099.6 | 2137.5 | 2219.6 | 2429.7 | 2748.7 | 2919.0 | 2574.4 | 2227.9 | 2024.5 | 1934.5 | 1920.9 |
| 75° | 1429.8 | 1491.4 | 1615.2 | 1918.3 | 2348.3 | 2527.3 | 2167.2 | 1776.3 | 1585.0 | 1460.4 | 1451.3 |
| 77.5° | 637.5 | 651.5 | 808.5 | 1157.4 | 1620.5 | 1814.9 | 1574.7 | 1162.0 | 872.2 | 695.7 | 658.5 |
| 80° | 177.7 | 179.9 | 240.0 | 431.0 | 811.1 | 1066.4 | 870.8 | 452.8 | 254.5 | 179.4 | 169.0 |
| 82.5° | 56.5 | 61.3 | 74.9 | 111.8 | 272.6 | 486.6 | 279.9 | 120.7 | 86.0 | 68.6 | 61.8 |
| 85° | 27.5 | 27.3 | 37.9 | 45.4 | 69.5 | 107.7 | 74.1 | 56.0 | 49.0 | 32.6 | 29.5 |
| 87.5° | 11.6 | 11.8 | 17.6 | 15.9 | 20.3 | 17.4 | 23.9 | 25.1 | 26.3 | 14.5 | 12.6 |
| 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)