

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: P648691

Luminaire Tested: **GLAN-SA1C-835-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1C-835-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5829.5 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

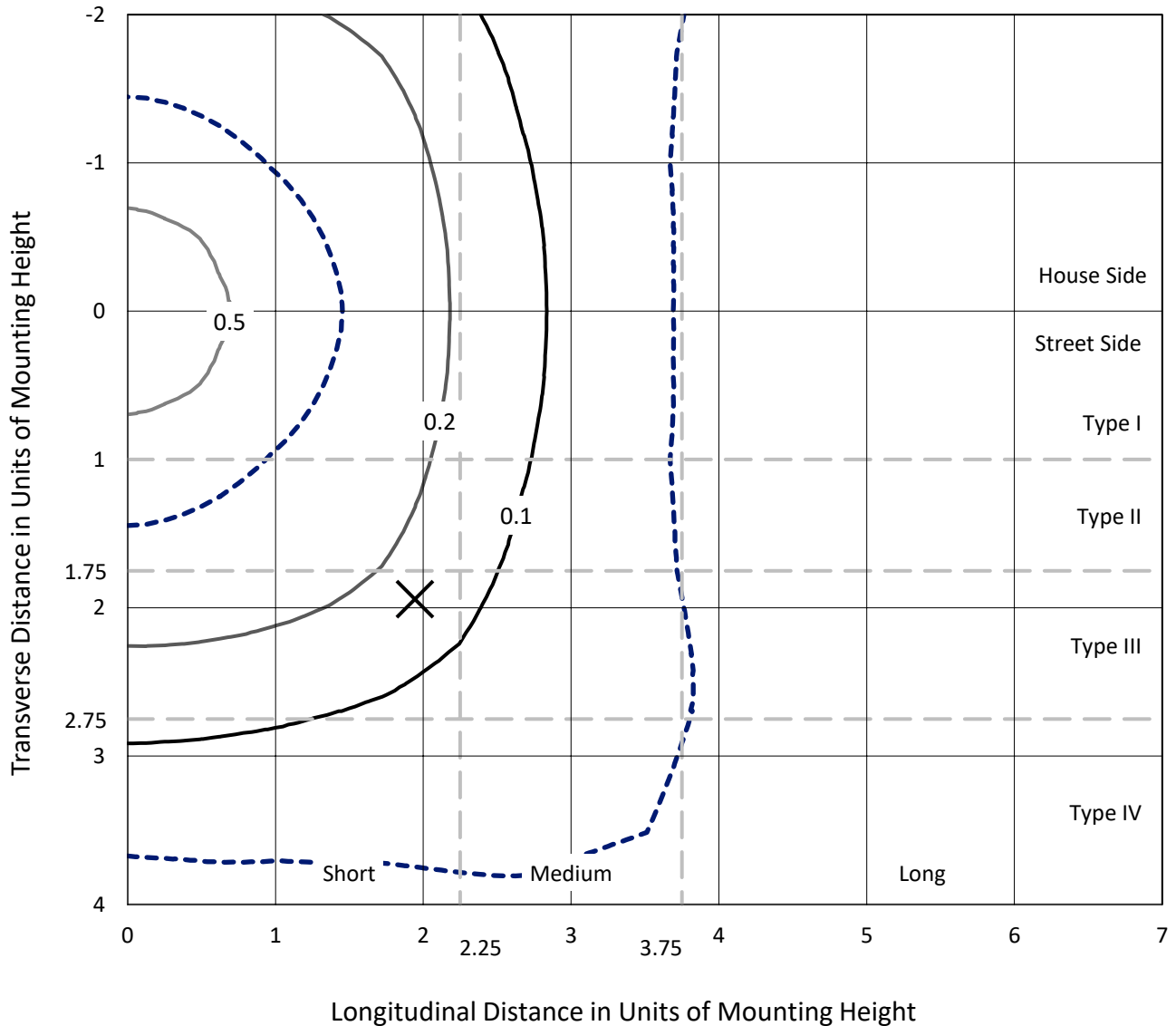
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

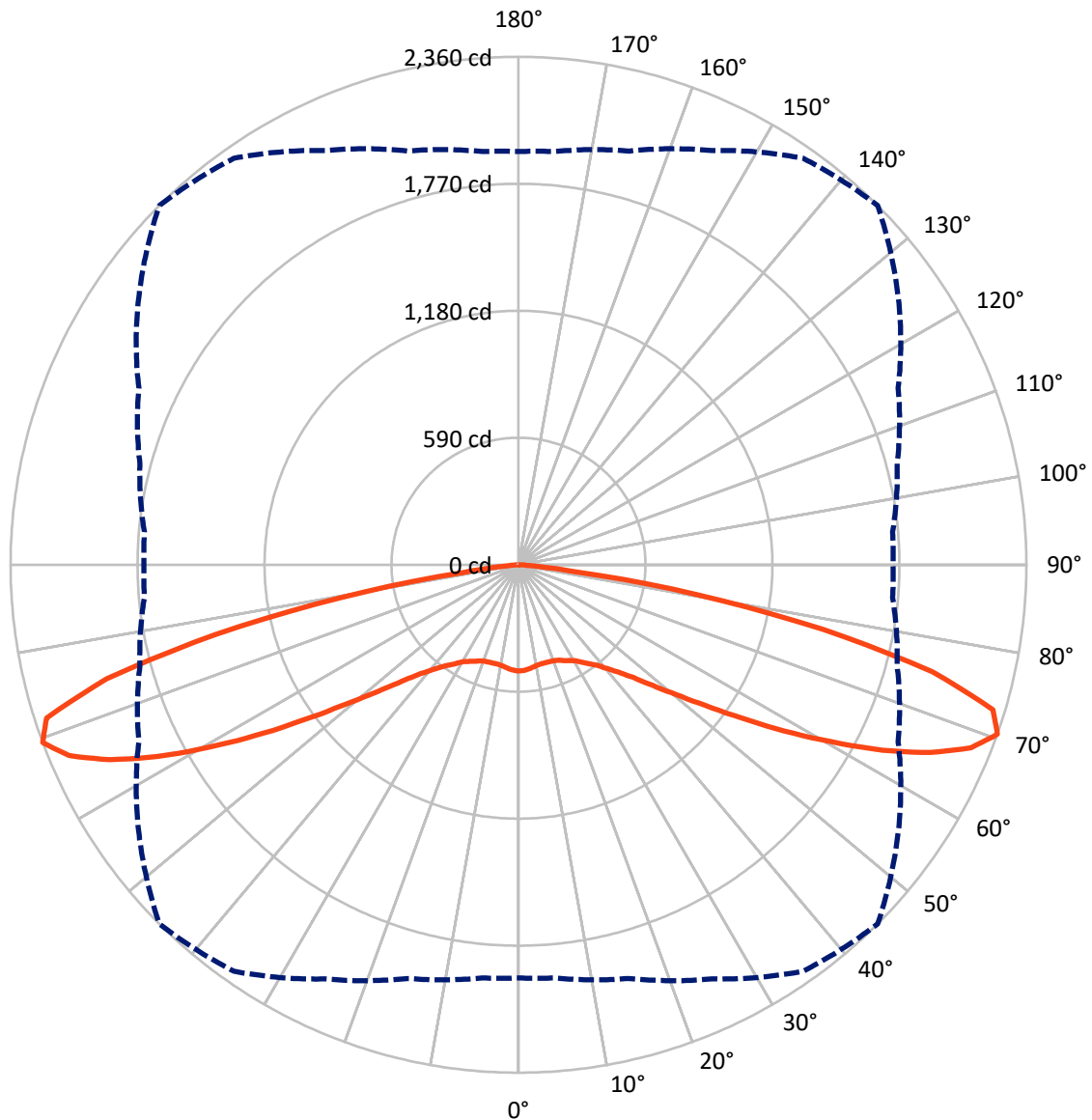
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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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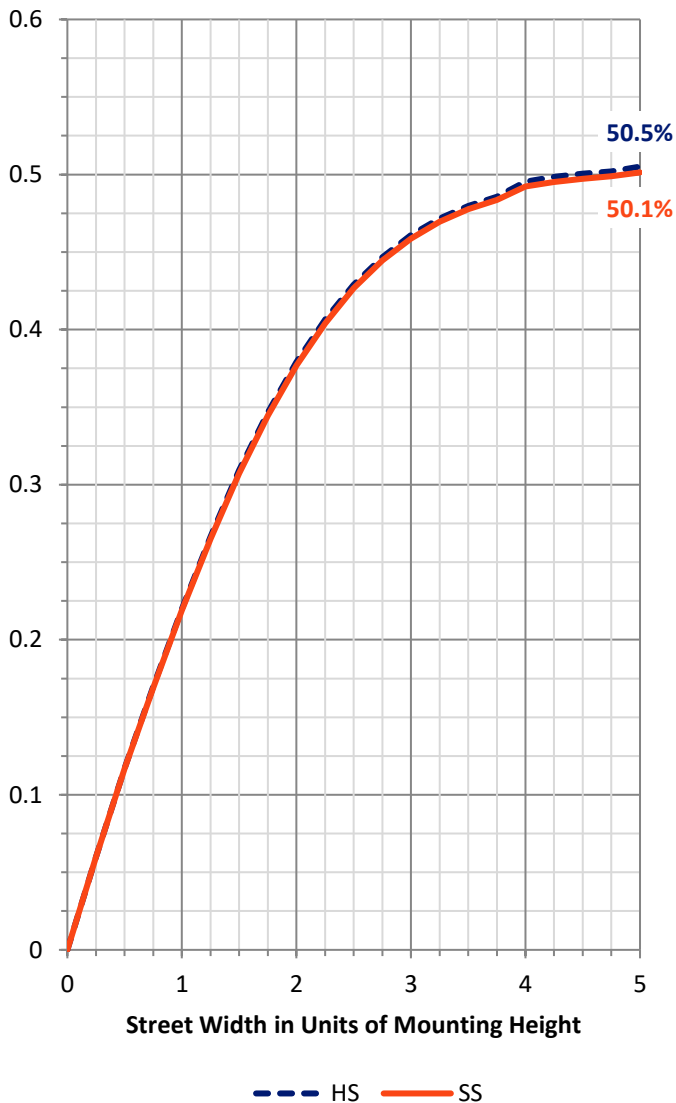
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2914.7 | 0.0 | 2914.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2914.7 | 0.0 | 2914.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 5829.5 | 0.0 | 5829.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 46.2 | 0.8 |
| 10°-20° | 135.1 | 2.3 |
| 20°-30° | 230.2 | 3.9 |
| 30°-40° | 356.8 | 6.1 |
| 40°-50° | 600.6 | 10.3 |
| 50°-60° | 1092.8 | 18.7 |
| 60°-70° | 1850.0 | 31.7 |
| 70°-80° | 1432.0 | 24.6 |
| 80°-90° | 85.8 | 1.5 |
| 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° | 5829.5 | 100.0 |
| 0°-180° | 5829.5 | 100.0 |



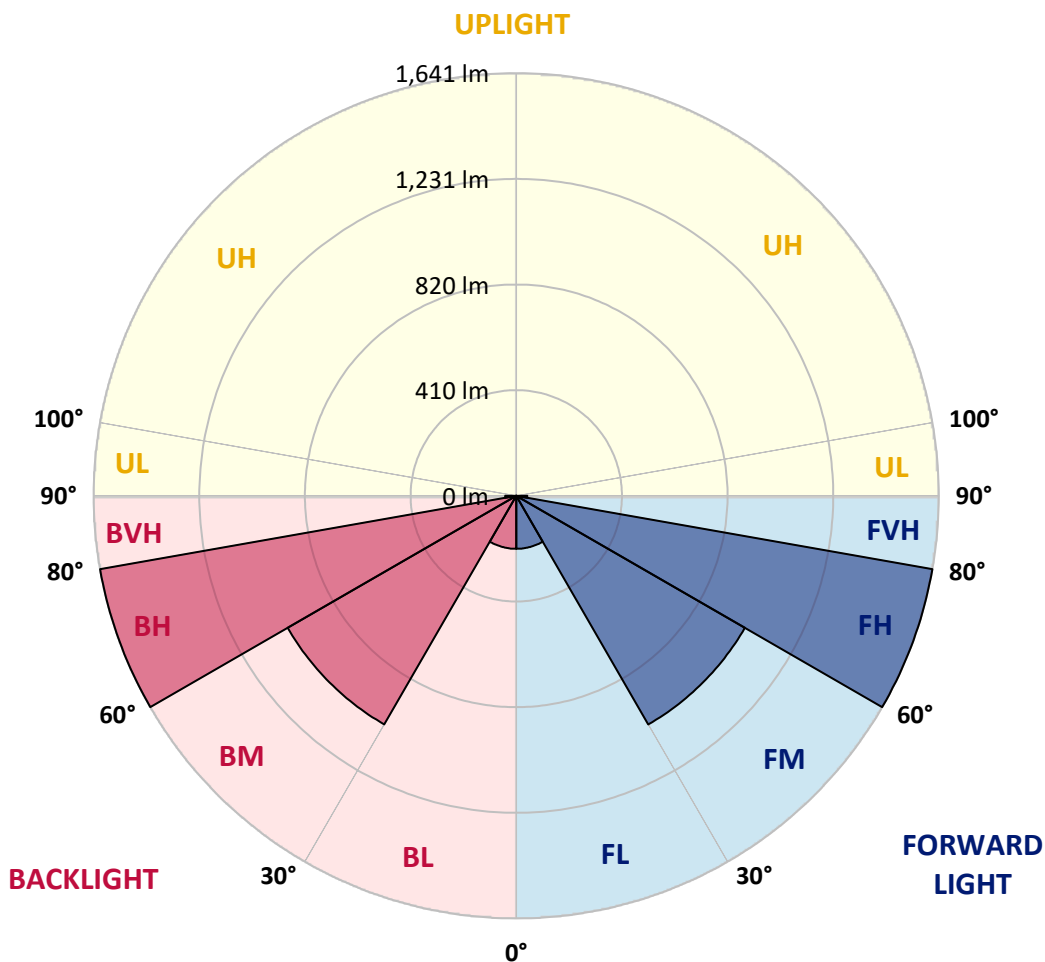
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 205.7 | 3.5 | | | |
| FM (30°-60°) | 1025.1 | 17.6 | | | |
| FH (60°-80°) | 1641.0 | 28.1 | | | G1/1800 |
| FVH (80°-90°) | 42.9 | 0.7 | | | G1/100 |
| BL (0°-30°) | 205.7 | 3.5 | B1/500 | | |
| BM (30°-60°) | 1025.1 | 17.6 | B2/2500 | | |
| BH (60°-80°) | 1641.0 | 28.1 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 42.9 | 0.7 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 493.5 | 493.5 | 493.5 | 493.5 | 493.5 | 493.5 | 493.5 | 493.5 | 493.5 | 493.5 | 493.5 |
| 2.5° | 492.3 | 492.6 | 492.6 | 492.0 | 491.7 | 491.7 | 491.4 | 491.4 | 492.3 | 492.6 | 492.9 |
| 5° | 488.0 | 488.0 | 488.0 | 487.7 | 487.1 | 487.1 | 486.5 | 486.5 | 486.8 | 487.7 | 487.1 |
| 7.5° | 482.2 | 482.7 | 482.7 | 481.5 | 480.6 | 480.6 | 480.3 | 480.6 | 480.9 | 481.9 | 481.5 |
| 10° | 480.3 | 480.6 | 479.0 | 476.9 | 475.4 | 474.4 | 474.7 | 475.4 | 476.9 | 477.6 | 477.9 |
| 12.5° | 481.5 | 481.5 | 478.7 | 475.7 | 472.9 | 471.7 | 471.4 | 473.6 | 476.3 | 478.2 | 478.7 |
| 15° | 483.0 | 482.5 | 479.0 | 475.0 | 472.3 | 472.0 | 471.7 | 473.2 | 477.2 | 480.9 | 481.2 |
| 17.5° | 484.0 | 483.7 | 479.4 | 474.4 | 472.9 | 472.9 | 472.6 | 473.8 | 478.2 | 482.7 | 483.0 |
| 20° | 487.1 | 486.2 | 481.2 | 476.0 | 474.7 | 475.4 | 474.4 | 476.0 | 480.6 | 486.2 | 487.3 |
| 22.5° | 493.2 | 492.3 | 487.3 | 482.2 | 481.5 | 481.5 | 481.2 | 482.7 | 487.7 | 493.5 | 494.5 |
| 25° | 500.7 | 499.7 | 495.1 | 491.4 | 492.0 | 493.2 | 492.6 | 492.9 | 496.9 | 501.8 | 503.4 |
| 27.5° | 510.4 | 509.0 | 505.0 | 501.8 | 503.7 | 503.7 | 503.7 | 503.4 | 505.8 | 510.4 | 512.0 |
| 30° | 522.5 | 521.9 | 517.6 | 517.2 | 518.8 | 517.2 | 517.2 | 517.6 | 517.9 | 522.2 | 523.7 |
| 32.5° | 538.2 | 537.0 | 534.8 | 534.2 | 538.5 | 539.7 | 535.4 | 531.4 | 533.5 | 537.8 | 538.8 |
| 35° | 564.1 | 562.2 | 559.1 | 555.7 | 559.1 | 564.9 | 555.7 | 552.6 | 558.2 | 564.1 | 564.6 |
| 37.5° | 599.2 | 598.2 | 593.3 | 587.1 | 586.9 | 593.0 | 583.4 | 583.1 | 593.6 | 600.6 | 601.6 |
| 40° | 643.2 | 644.1 | 637.9 | 632.1 | 629.0 | 633.9 | 626.6 | 629.3 | 639.5 | 647.5 | 646.8 |
| 42.5° | 705.0 | 701.6 | 692.1 | 686.6 | 683.2 | 681.4 | 679.5 | 683.8 | 695.2 | 703.8 | 710.6 |
| 45° | 777.4 | 776.2 | 764.1 | 757.4 | 750.0 | 747.2 | 746.6 | 754.3 | 768.2 | 778.6 | 779.6 |
| 47.5° | 859.3 | 856.5 | 848.9 | 841.7 | 839.0 | 835.6 | 832.5 | 838.4 | 852.2 | 859.6 | 861.8 |
| 50° | 943.7 | 944.3 | 944.3 | 943.0 | 945.8 | 946.4 | 938.1 | 940.3 | 948.0 | 947.4 | 946.7 |
| 52.5° | 1040.1 | 1043.4 | 1059.4 | 1061.0 | 1074.2 | 1083.1 | 1068.0 | 1059.1 | 1056.3 | 1039.7 | 1040.9 |
| 55° | 1153.4 | 1156.4 | 1180.5 | 1204.4 | 1240.1 | 1255.2 | 1223.5 | 1195.8 | 1176.1 | 1150.9 | 1152.1 |
| 57.5° | 1294.6 | 1296.2 | 1319.0 | 1365.2 | 1421.8 | 1457.2 | 1401.5 | 1346.7 | 1306.7 | 1282.6 | 1273.1 |
| 60° | 1446.7 | 1448.2 | 1481.5 | 1537.9 | 1625.9 | 1669.0 | 1600.1 | 1510.5 | 1460.0 | 1423.3 | 1425.8 |
| 62.5° | 1629.3 | 1635.5 | 1665.4 | 1742.9 | 1849.8 | 1898.1 | 1806.6 | 1686.9 | 1618.5 | 1573.0 | 1574.8 |
| 65° | 1824.8 | 1835.3 | 1867.9 | 1953.2 | 2051.7 | 2103.8 | 1991.7 | 1853.4 | 1768.5 | 1712.7 | 1718.6 |
| 67.5° | 1951.6 | 1960.9 | 2008.0 | 2102.2 | 2225.1 | 2268.2 | 2123.4 | 1962.4 | 1856.2 | 1789.7 | 1777.4 |
| 70° | 1919.4 | 1927.0 | 1989.8 | 2123.4 | 2305.4 | 2359.9 | 2154.9 | 1946.5 | 1821.4 | 1744.8 | 1739.8 |
| 72.5° | 1694.3 | 1678.3 | 1770.0 | 1961.8 | 2213.7 | 2305.1 | 2056.0 | 1777.7 | 1620.3 | 1541.6 | 1532.3 |
| 75° | 1122.8 | 1157.7 | 1293.1 | 1519.1 | 1872.9 | 1986.2 | 1754.9 | 1427.3 | 1229.4 | 1163.8 | 1153.6 |
| 77.5° | 375.3 | 402.1 | 522.5 | 861.1 | 1276.8 | 1447.1 | 1278.6 | 933.5 | 660.4 | 532.0 | 534.5 |
| 80° | 99.4 | 98.2 | 127.2 | 236.8 | 551.7 | 838.0 | 642.2 | 316.2 | 173.0 | 125.3 | 118.9 |
| 82.5° | 35.7 | 40.0 | 51.4 | 65.6 | 146.3 | 260.5 | 183.8 | 88.6 | 65.0 | 48.0 | 46.5 |
| 85° | 15.7 | 15.4 | 22.2 | 26.2 | 36.6 | 48.6 | 43.1 | 37.6 | 33.0 | 21.8 | 20.4 |
| 87.5° | 3.4 | 3.4 | 5.2 | 4.0 | 6.5 | 6.5 | 8.0 | 9.6 | 9.9 | 6.5 | 5.2 |
| 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)