

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: P397814

Luminaire Tested: **ARCH-S-PA1-50-722-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-50-722-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5910 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 54
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

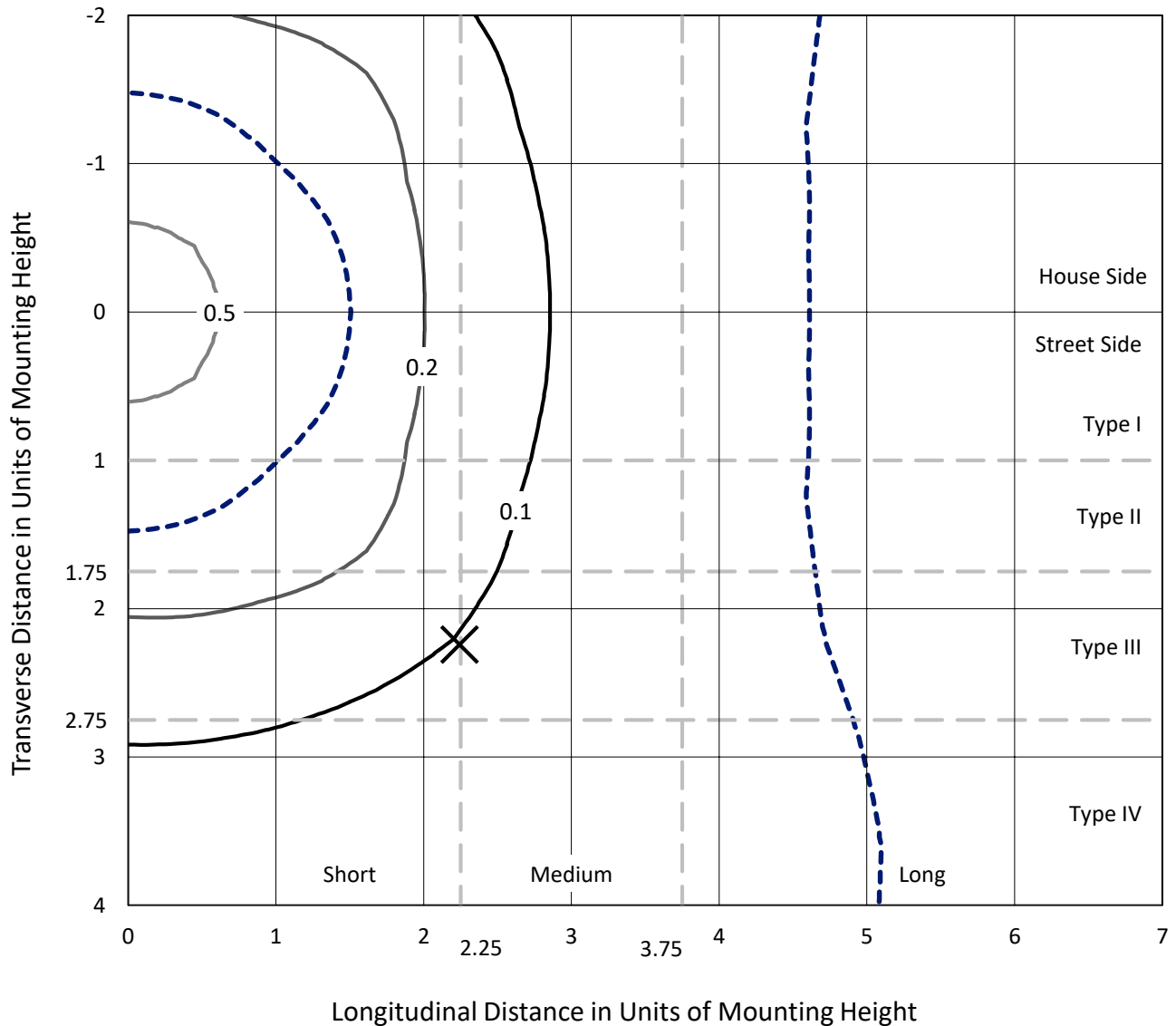


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

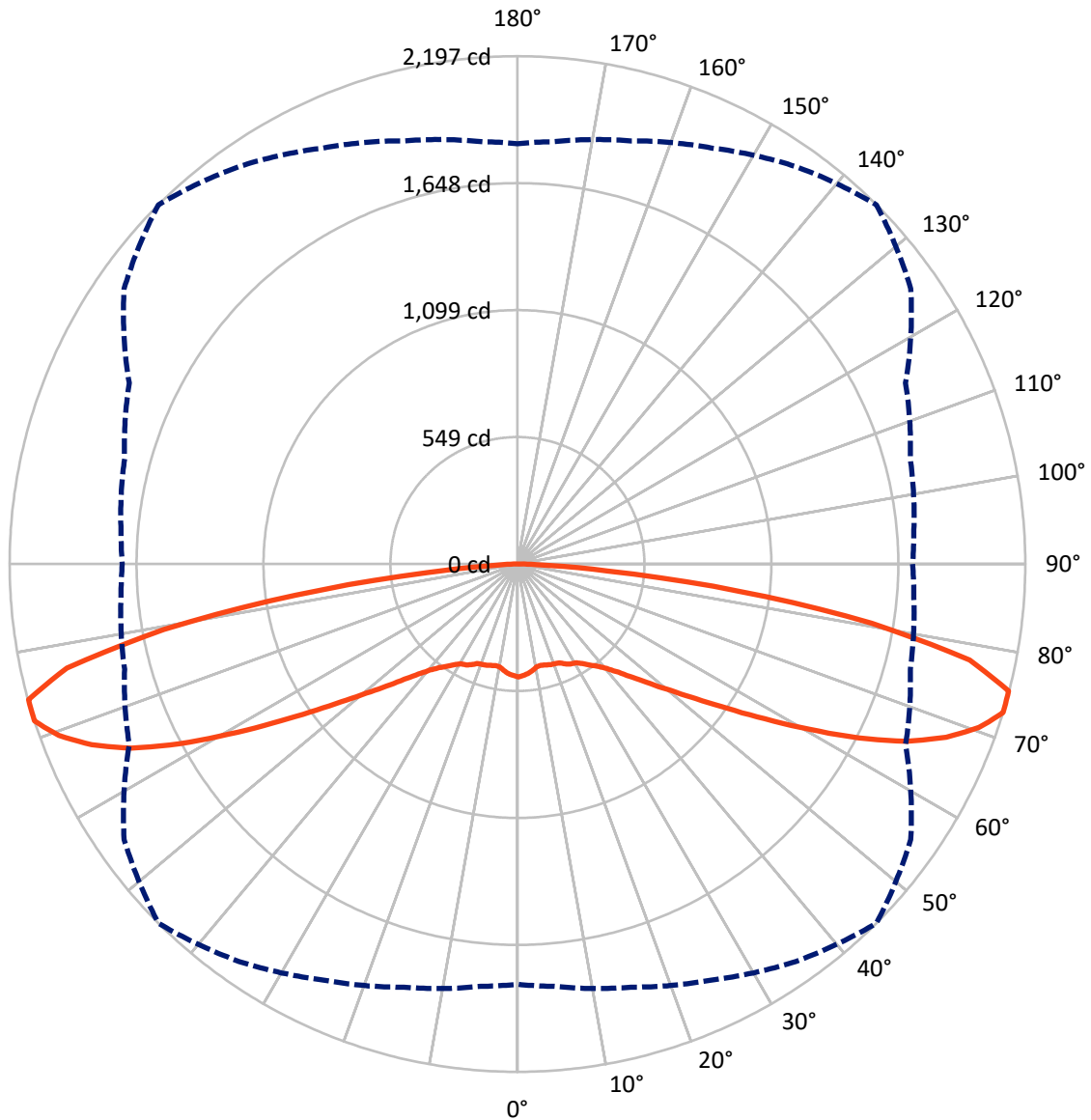


Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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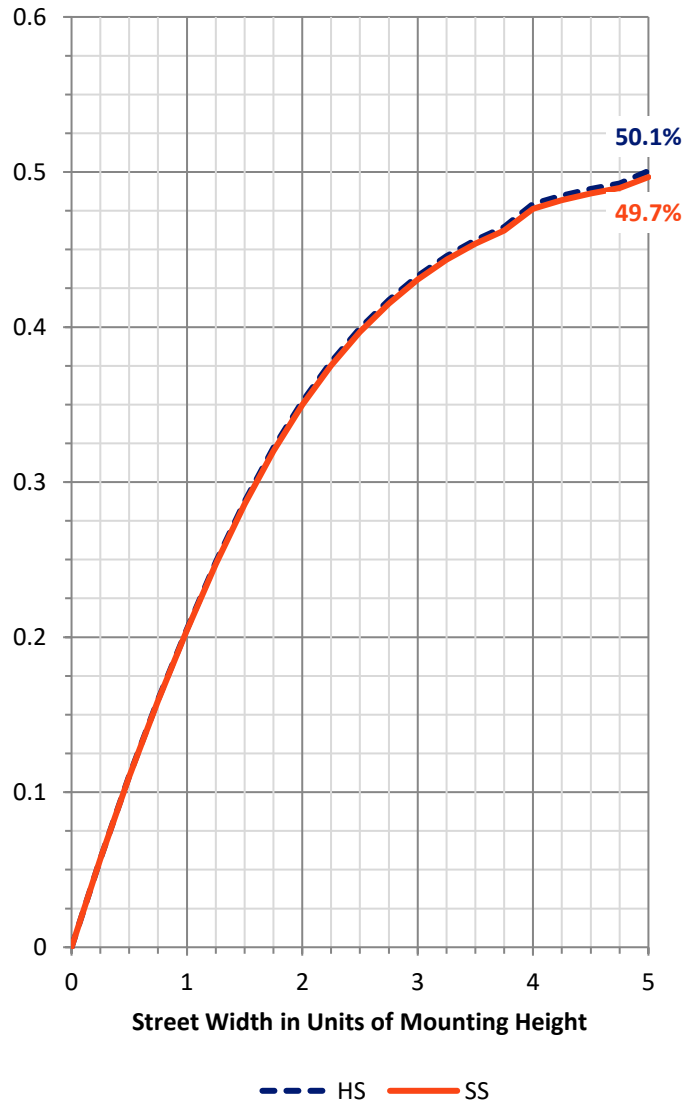
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2955.0 | 0.0 | 2955.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2955.0 | 0.0 | 2955.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 5910.0 | 0.0 | 5910.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.8 | 0.8 |
| 10°-20° | 130.2 | 2.2 |
| 20°-30° | 221.2 | 3.7 |
| 30°-40° | 337.4 | 5.7 |
| 40°-50° | 555.5 | 9.4 |
| 50°-60° | 970.1 | 16.4 |
| 60°-70° | 1626.4 | 27.5 |
| 70°-80° | 1740.6 | 29.5 |
| 80°-90° | 283.9 | 4.8 |
| 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° | 5910.0 | 100.0 |
| 0°-180° | 5910.0 | 100.0 |



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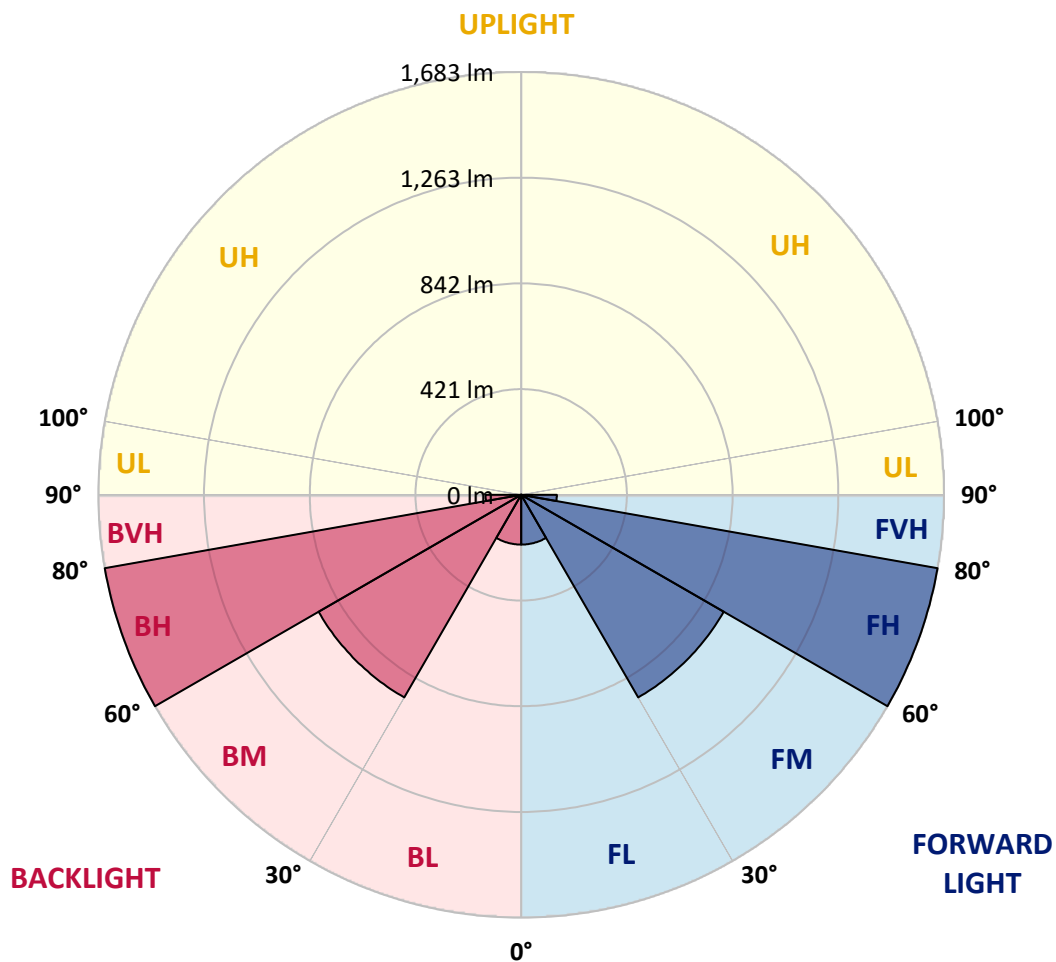
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 198.1 | 3.4 | | | |
| FM (30°-60°) | 931.5 | 15.8 | | | |
| FH (60°-80°) | 1683.5 | 28.5 | | | G1/1800 |
| FVH (80°-90°) | 141.9 | 2.4 | | | G2/225 |
| BL (0°-30°) | 198.1 | 3.4 | B1/500 | | |
| BM (30°-60°) | 931.5 | 15.8 | B1/1000 | | |
| BH (60°-80°) | 1683.5 | 28.5 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 141.9 | 2.4 | | | G2/225 |
| 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° | 489.1 | 489.1 | 489.1 | 489.1 | 489.1 | 489.1 | 489.1 | 489.1 | 489.1 | 489.1 | 489.1 |
| 2.5° | 486.0 | 486.0 | 486.0 | 485.3 | 483.8 | 483.0 | 481.5 | 482.3 | 482.3 | 482.3 | 482.3 |
| 5° | 480.0 | 480.0 | 479.2 | 478.5 | 477.0 | 476.2 | 474.7 | 476.2 | 476.2 | 476.2 | 476.2 |
| 7.5° | 468.7 | 469.4 | 469.4 | 468.7 | 466.4 | 465.7 | 463.4 | 464.2 | 464.2 | 464.9 | 464.2 |
| 10° | 462.6 | 462.6 | 461.9 | 458.1 | 454.3 | 452.8 | 452.1 | 454.3 | 456.6 | 458.9 | 458.9 |
| 12.5° | 462.6 | 462.6 | 461.1 | 455.1 | 449.8 | 449.8 | 449.8 | 452.8 | 457.4 | 461.9 | 462.6 |
| 15° | 464.9 | 464.9 | 461.9 | 455.1 | 452.1 | 452.8 | 452.8 | 455.9 | 461.1 | 467.2 | 467.9 |
| 17.5° | 466.4 | 466.4 | 462.6 | 455.9 | 455.9 | 458.1 | 456.6 | 458.9 | 464.2 | 470.9 | 471.7 |
| 20° | 468.7 | 468.7 | 463.4 | 458.1 | 458.1 | 460.4 | 460.4 | 462.6 | 467.2 | 474.0 | 474.7 |
| 22.5° | 473.2 | 472.5 | 467.2 | 462.6 | 462.6 | 464.2 | 465.7 | 468.7 | 472.5 | 478.5 | 480.0 |
| 25° | 478.5 | 478.5 | 474.0 | 473.2 | 474.7 | 478.5 | 477.7 | 477.0 | 478.5 | 483.8 | 486.0 |
| 27.5° | 481.5 | 481.5 | 478.5 | 480.8 | 486.8 | 489.8 | 486.0 | 483.0 | 483.0 | 488.3 | 489.1 |
| 30° | 491.3 | 490.6 | 487.5 | 489.1 | 494.3 | 495.9 | 493.6 | 489.8 | 492.1 | 498.1 | 498.9 |
| 32.5° | 507.9 | 507.9 | 503.4 | 503.4 | 507.2 | 513.2 | 505.7 | 503.4 | 506.4 | 513.2 | 514.0 |
| 35° | 533.6 | 533.6 | 527.5 | 524.5 | 527.5 | 535.9 | 524.5 | 523.8 | 529.1 | 536.6 | 537.4 |
| 37.5° | 566.0 | 566.0 | 562.3 | 554.7 | 555.5 | 560.8 | 550.9 | 550.2 | 560.0 | 568.3 | 568.3 |
| 40° | 606.8 | 609.1 | 605.3 | 596.2 | 593.2 | 594.0 | 586.4 | 587.2 | 598.5 | 608.3 | 608.3 |
| 42.5° | 657.4 | 658.9 | 652.8 | 646.0 | 642.3 | 640.0 | 632.5 | 634.0 | 647.6 | 660.4 | 660.4 |
| 45° | 718.5 | 719.2 | 713.2 | 704.9 | 700.4 | 698.9 | 691.3 | 695.1 | 710.2 | 723.8 | 723.0 |
| 47.5° | 787.2 | 787.9 | 781.9 | 773.6 | 770.6 | 772.8 | 765.3 | 765.3 | 778.9 | 790.2 | 788.7 |
| 50° | 864.9 | 866.4 | 859.6 | 855.9 | 853.6 | 859.6 | 850.6 | 842.3 | 851.3 | 862.6 | 861.1 |
| 52.5° | 950.9 | 954.7 | 950.2 | 951.7 | 960.0 | 967.6 | 952.5 | 934.3 | 938.9 | 946.4 | 944.2 |
| 55° | 1055.1 | 1059.6 | 1061.1 | 1066.4 | 1088.3 | 1101.1 | 1076.2 | 1046.0 | 1043.8 | 1044.5 | 1040.8 |
| 57.5° | 1172.1 | 1175.1 | 1184.9 | 1197.0 | 1242.3 | 1262.6 | 1223.4 | 1171.3 | 1154.7 | 1144.9 | 1142.6 |
| 60° | 1289.8 | 1295.1 | 1319.3 | 1344.2 | 1413.6 | 1450.6 | 1390.2 | 1302.6 | 1267.2 | 1249.1 | 1245.3 |
| 62.5° | 1408.3 | 1418.9 | 1458.1 | 1500.4 | 1601.5 | 1656.6 | 1563.8 | 1437.0 | 1385.7 | 1363.0 | 1357.0 |
| 65° | 1545.7 | 1558.5 | 1606.0 | 1659.6 | 1772.1 | 1849.8 | 1737.4 | 1575.9 | 1520.8 | 1490.6 | 1483.0 |
| 67.5° | 1706.4 | 1720.0 | 1758.5 | 1818.1 | 1924.5 | 2000.8 | 1901.1 | 1717.7 | 1646.0 | 1607.6 | 1601.5 |
| 70° | 1838.5 | 1850.6 | 1892.1 | 1952.5 | 2031.7 | 2118.5 | 2023.4 | 1831.0 | 1766.0 | 1738.9 | 1735.1 |
| 72.5° | 1818.1 | 1834.0 | 1895.1 | 1985.7 | 2098.9 | 2197.0 | 2077.0 | 1852.8 | 1759.3 | 1721.5 | 1709.4 |
| 75° | 1587.9 | 1605.3 | 1677.7 | 1841.5 | 2048.3 | 2194.7 | 1999.3 | 1707.2 | 1597.0 | 1565.3 | 1559.3 |
| 77.5° | 1051.3 | 1067.9 | 1190.2 | 1448.3 | 1788.7 | 2000.0 | 1764.5 | 1430.2 | 1252.8 | 1176.6 | 1172.1 |
| 80° | 424.9 | 446.0 | 563.0 | 837.0 | 1267.9 | 1554.7 | 1308.7 | 915.5 | 617.4 | 498.1 | 474.0 |
| 82.5° | 98.9 | 117.7 | 171.3 | 308.7 | 649.1 | 968.3 | 705.7 | 341.9 | 198.5 | 141.1 | 126.8 |
| 85° | 41.5 | 42.3 | 73.2 | 100.4 | 203.0 | 390.9 | 230.9 | 124.5 | 101.1 | 74.0 | 72.5 |
| 87.5° | 15.8 | 16.6 | 35.5 | 42.3 | 64.9 | 74.0 | 78.5 | 64.2 | 59.6 | 37.0 | 35.5 |
| 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)