

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: P799151

Luminaire Tested: **ARCH1-60-740-U-5WQ**

Issue Date: 4/4/2024

### Test Information

Test Method: LM-79-08  
Report Number: P799151  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH1-60-740-U-5WQ  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 7452 lumens  
Efficiency: N/A  
Efficacy: 124.2 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
IES Classification: Type V - Medium  
BUG Rating: B3 - U0 - G1

Input Watts (W): 60  
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

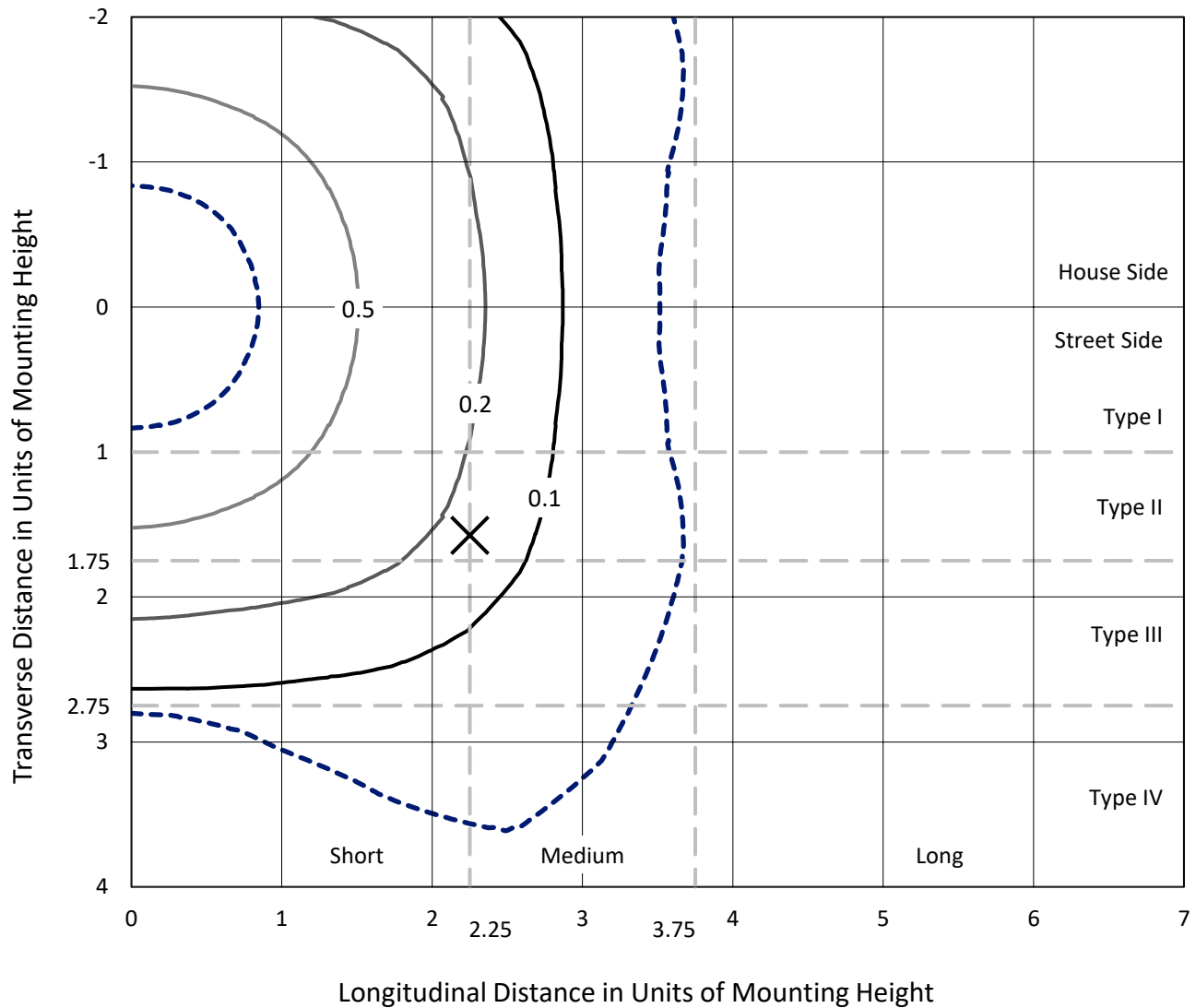


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

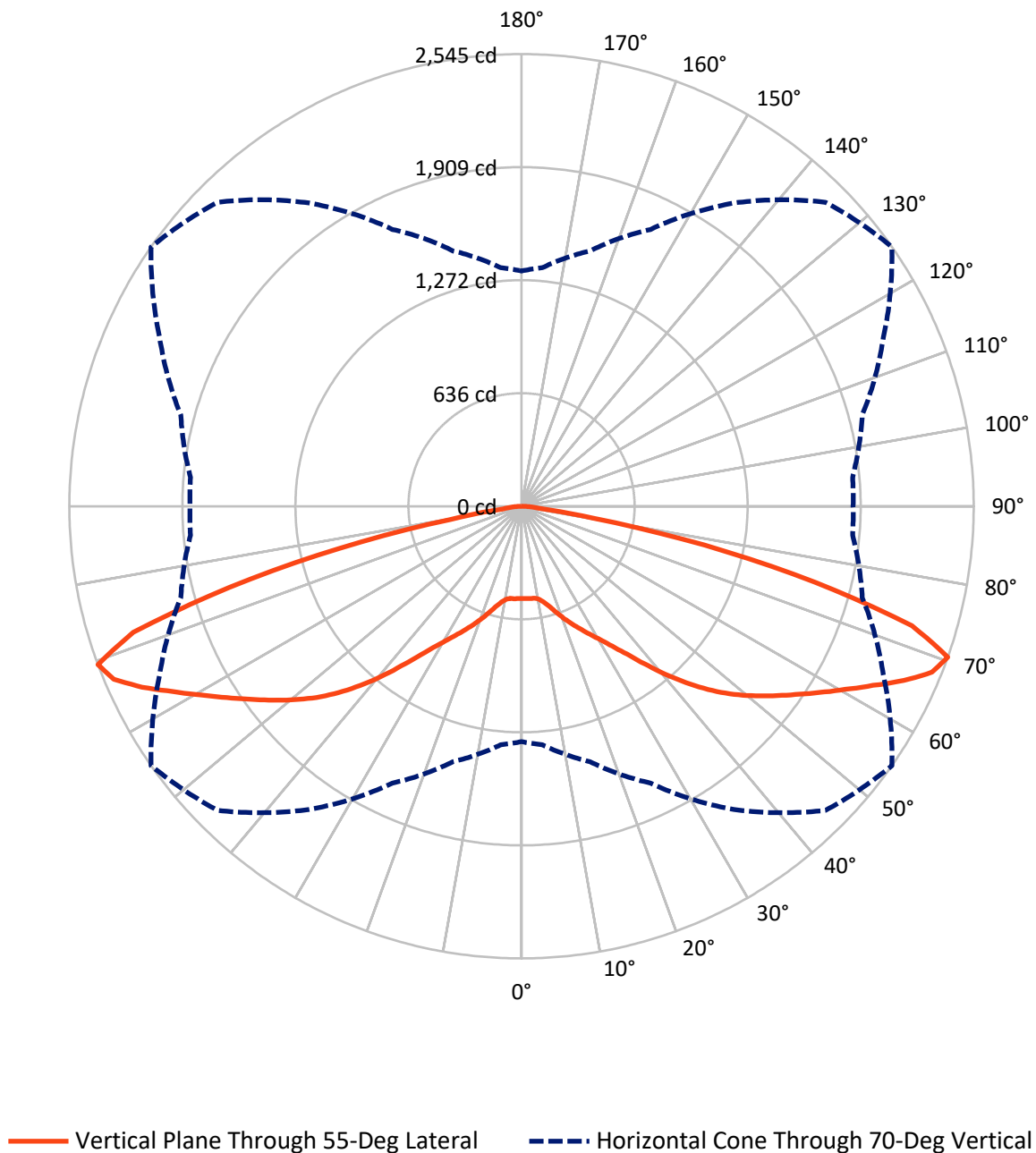


Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
Type V - Medium - N/A

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## Luminous Intensity Polar Plot



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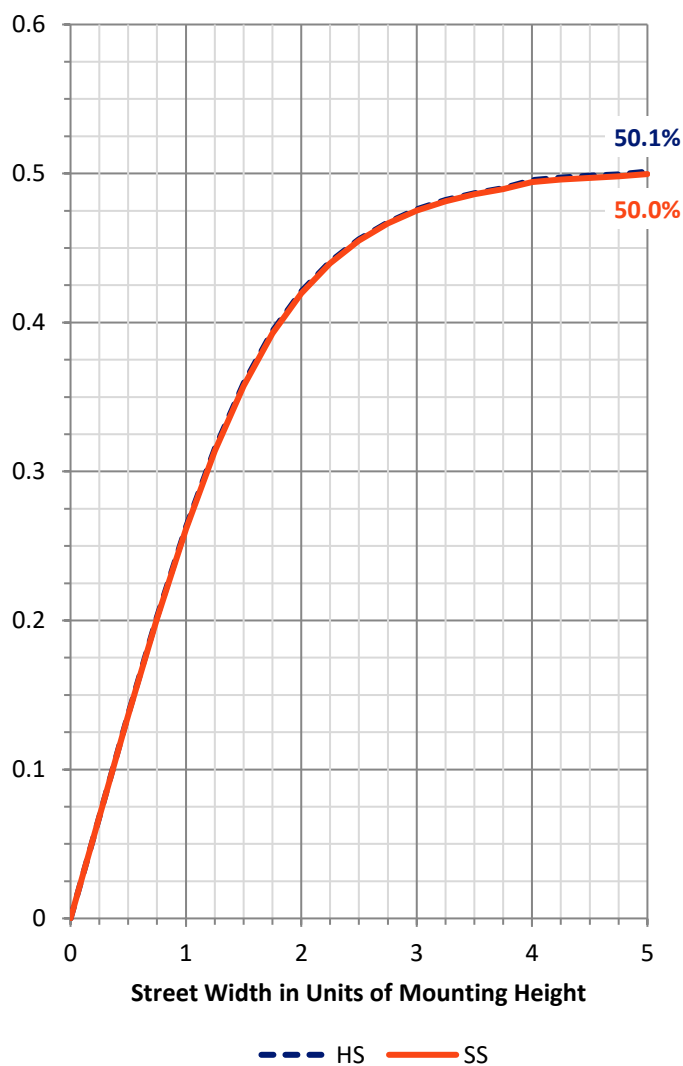
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3726.0   | 0.0    | 3726.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3726.0   | 0.0    | 3726.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 7452.0   | 0.0    | 7452.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 50.2   | 0.7       |
| 10°-20°   | 170.7  | 2.3       |
| 20°-30°   | 354.7  | 4.8       |
| 30°-40°   | 655.0  | 8.8       |
| 40°-50°   | 1150.7 | 15.4      |
| 50°-60°   | 1659.6 | 22.3      |
| 60°-70°   | 2031.2 | 27.3      |
| 70°-80°   | 1292.5 | 17.3      |
| 80°-90°   | 87.4   | 1.2       |
| 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°    | 7452.0 | 100.0     |
| 0°-180°   | 7452.0 | 100.0     |

**Coefficient of Utilization**



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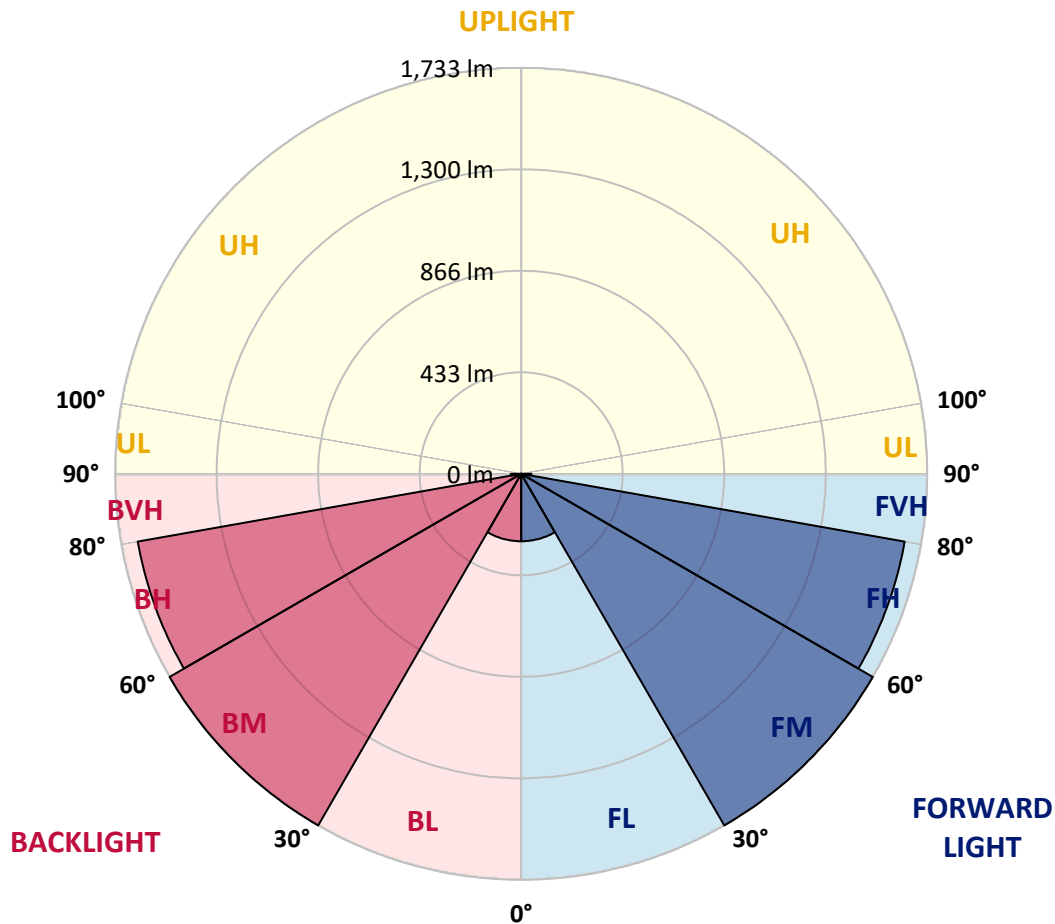
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 287.7  | 3.9       |                         |      |         |
| FM   | (30°-60°)   | 1732.7 | 23.3      |                         |      |         |
| FH   | (60°-80°)   | 1661.8 | 22.3      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 43.7   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 287.7  | 3.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1732.7 | 23.3      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1661.8 | 22.3      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 43.7   | 0.6       |                         |      | 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 Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 519.5  | 519.5  | 519.5  | 519.5  | 519.5  | 519.5  | 519.5  | 519.5  | 519.5  | 519.5  | 519.5  |
| 2.5°  | 526.4  | 526.4  | 525.0  | 525.0  | 522.2  | 520.9  | 519.5  | 519.5  | 518.1  | 518.1  | 516.7  |
| 5°    | 529.2  | 529.2  | 529.2  | 527.8  | 526.4  | 525.0  | 522.2  | 519.5  | 518.1  | 516.7  | 515.3  |
| 7.5°  | 530.6  | 530.6  | 529.2  | 529.2  | 527.8  | 526.4  | 522.2  | 518.1  | 516.7  | 515.3  | 515.3  |
| 10°   | 541.6  | 540.3  | 538.9  | 536.1  | 536.1  | 536.1  | 530.6  | 526.4  | 525.0  | 525.0  | 525.0  |
| 12.5° | 568.0  | 566.6  | 563.8  | 559.6  | 559.6  | 561.0  | 552.7  | 547.2  | 547.2  | 545.8  | 545.8  |
| 15°   | 606.7  | 605.4  | 602.6  | 595.7  | 594.3  | 597.0  | 584.6  | 579.0  | 579.0  | 579.0  | 577.7  |
| 17.5° | 649.7  | 646.9  | 642.8  | 637.2  | 637.2  | 637.2  | 624.8  | 617.8  | 613.7  | 613.7  | 612.3  |
| 20°   | 685.7  | 684.3  | 684.3  | 682.9  | 687.1  | 687.1  | 670.5  | 659.4  | 649.7  | 644.1  | 642.8  |
| 22.5° | 717.6  | 716.2  | 719.0  | 724.5  | 732.8  | 735.6  | 716.2  | 699.6  | 684.3  | 673.2  | 670.5  |
| 25°   | 760.5  | 759.1  | 757.7  | 766.1  | 779.9  | 784.1  | 763.3  | 742.5  | 727.3  | 721.7  | 719.0  |
| 27.5° | 806.2  | 807.6  | 809.0  | 817.3  | 828.4  | 835.3  | 814.5  | 795.1  | 782.7  | 774.4  | 771.6  |
| 30°   | 857.5  | 860.3  | 864.4  | 876.9  | 885.2  | 888.0  | 869.9  | 856.1  | 845.0  | 838.1  | 833.9  |
| 32.5° | 922.6  | 928.1  | 933.7  | 944.8  | 948.9  | 946.1  | 937.8  | 928.1  | 919.8  | 910.1  | 908.7  |
| 35°   | 1019.6 | 1025.1 | 1023.7 | 1027.9 | 1029.3 | 1026.5 | 1022.3 | 1016.8 | 1012.6 | 1000.2 | 998.8  |
| 37.5° | 1141.5 | 1147.0 | 1138.7 | 1134.5 | 1124.8 | 1126.2 | 1124.8 | 1129.0 | 1130.4 | 1117.9 | 1116.5 |
| 40°   | 1264.7 | 1270.3 | 1259.2 | 1248.1 | 1238.4 | 1234.3 | 1241.2 | 1255.1 | 1255.1 | 1246.7 | 1246.7 |
| 42.5° | 1396.3 | 1400.5 | 1382.5 | 1368.6 | 1356.2 | 1353.4 | 1357.6 | 1374.2 | 1378.3 | 1377.0 | 1377.0 |
| 45°   | 1527.9 | 1525.2 | 1501.6 | 1487.8 | 1476.7 | 1469.8 | 1471.2 | 1483.6 | 1491.9 | 1496.1 | 1496.1 |
| 47.5° | 1629.1 | 1624.9 | 1605.5 | 1594.4 | 1587.5 | 1577.8 | 1577.8 | 1584.7 | 1588.9 | 1590.3 | 1590.3 |
| 50°   | 1709.4 | 1705.3 | 1685.9 | 1684.5 | 1684.5 | 1680.3 | 1676.2 | 1674.8 | 1672.0 | 1673.4 | 1673.4 |
| 52.5° | 1778.7 | 1773.1 | 1759.3 | 1762.1 | 1774.5 | 1777.3 | 1771.8 | 1760.7 | 1749.6 | 1745.4 | 1746.8 |
| 55°   | 1853.5 | 1845.2 | 1834.1 | 1842.4 | 1867.3 | 1878.4 | 1870.1 | 1847.9 | 1828.6 | 1816.1 | 1816.1 |
| 57.5° | 1913.1 | 1903.4 | 1903.4 | 1926.9 | 1972.6 | 1994.8 | 1976.8 | 1935.2 | 1902.0 | 1888.1 | 1889.5 |
| 60°   | 1871.5 | 1863.2 | 1896.4 | 2000.3 | 2086.2 | 2123.6 | 2093.1 | 2019.7 | 1965.7 | 1949.1 | 1951.8 |
| 62.5° | 1789.8 | 1784.2 | 1825.8 | 1986.5 | 2188.7 | 2266.3 | 2220.6 | 2115.3 | 2035.0 | 2015.6 | 2015.6 |
| 65°   | 1669.2 | 1667.9 | 1726.0 | 1924.1 | 2212.3 | 2403.4 | 2364.6 | 2219.2 | 2115.3 | 2089.0 | 2094.5 |
| 67.5° | 1544.6 | 1544.6 | 1597.2 | 1817.5 | 2184.6 | 2461.6 | 2492.1 | 2313.4 | 2154.1 | 2089.0 | 2090.4 |
| 70°   | 1324.3 | 1347.9 | 1487.8 | 1719.1 | 2083.4 | 2420.1 | 2544.7 | 2246.9 | 1985.1 | 1870.1 | 1866.0 |
| 72.5° | 872.7  | 903.2  | 1181.6 | 1547.3 | 1983.7 | 2269.1 | 2296.8 | 1974.0 | 1648.5 | 1514.1 | 1507.2 |
| 75°   | 526.4  | 552.7  | 766.1  | 1208.0 | 1744.0 | 1827.2 | 1705.3 | 1547.3 | 1231.5 | 1126.2 | 1126.2 |
| 77.5° | 155.1  | 173.2  | 353.2  | 766.1  | 1206.6 | 1201.0 | 1051.4 | 911.5  | 728.6  | 619.2  | 627.5  |
| 80°   | 91.4   | 94.2   | 115.0  | 349.1  | 500.1  | 526.4  | 405.9  | 253.5  | 253.5  | 188.4  | 182.9  |
| 82.5° | 70.6   | 70.6   | 73.4   | 87.3   | 120.5  | 134.4  | 102.5  | 87.3   | 99.7   | 84.5   | 80.3   |
| 85°   | 49.9   | 49.9   | 49.9   | 51.3   | 52.6   | 54.0   | 56.8   | 58.2   | 63.7   | 52.6   | 49.9   |
| 87.5° | 15.2   | 16.6   | 18.0   | 20.8   | 24.9   | 26.3   | 27.7   | 24.9   | 24.9   | 23.5   | 22.2   |
| 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)