

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: P509306

Luminaire Tested: **VERD-CA2-70-727-U-T5**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509306  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-70-727-U-T5  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 980mA LEDS AND TYPE V OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9189 lumens  
Efficiency: N/A  
Efficacy: 124.9 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

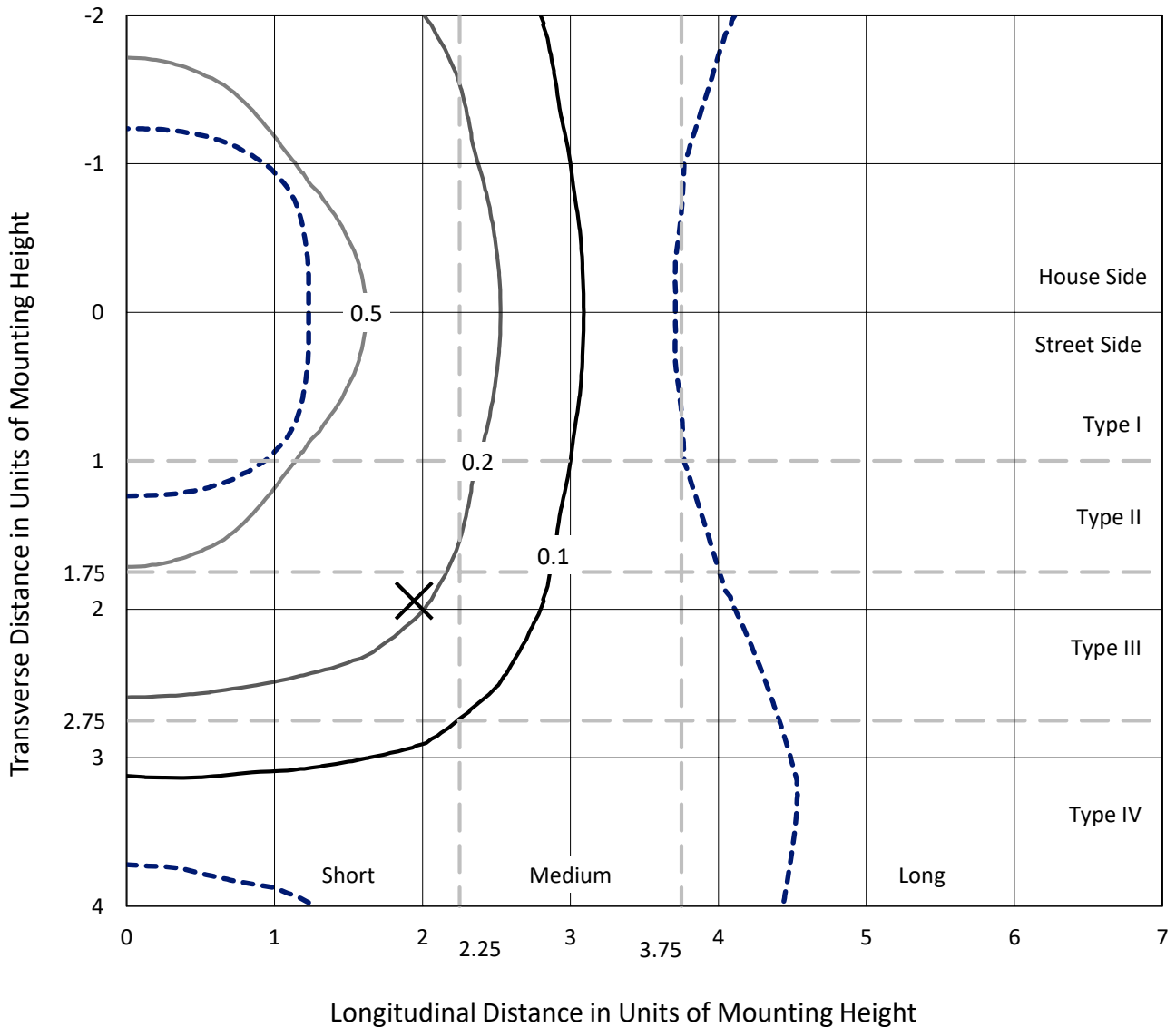
Input Watts (W): 73.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

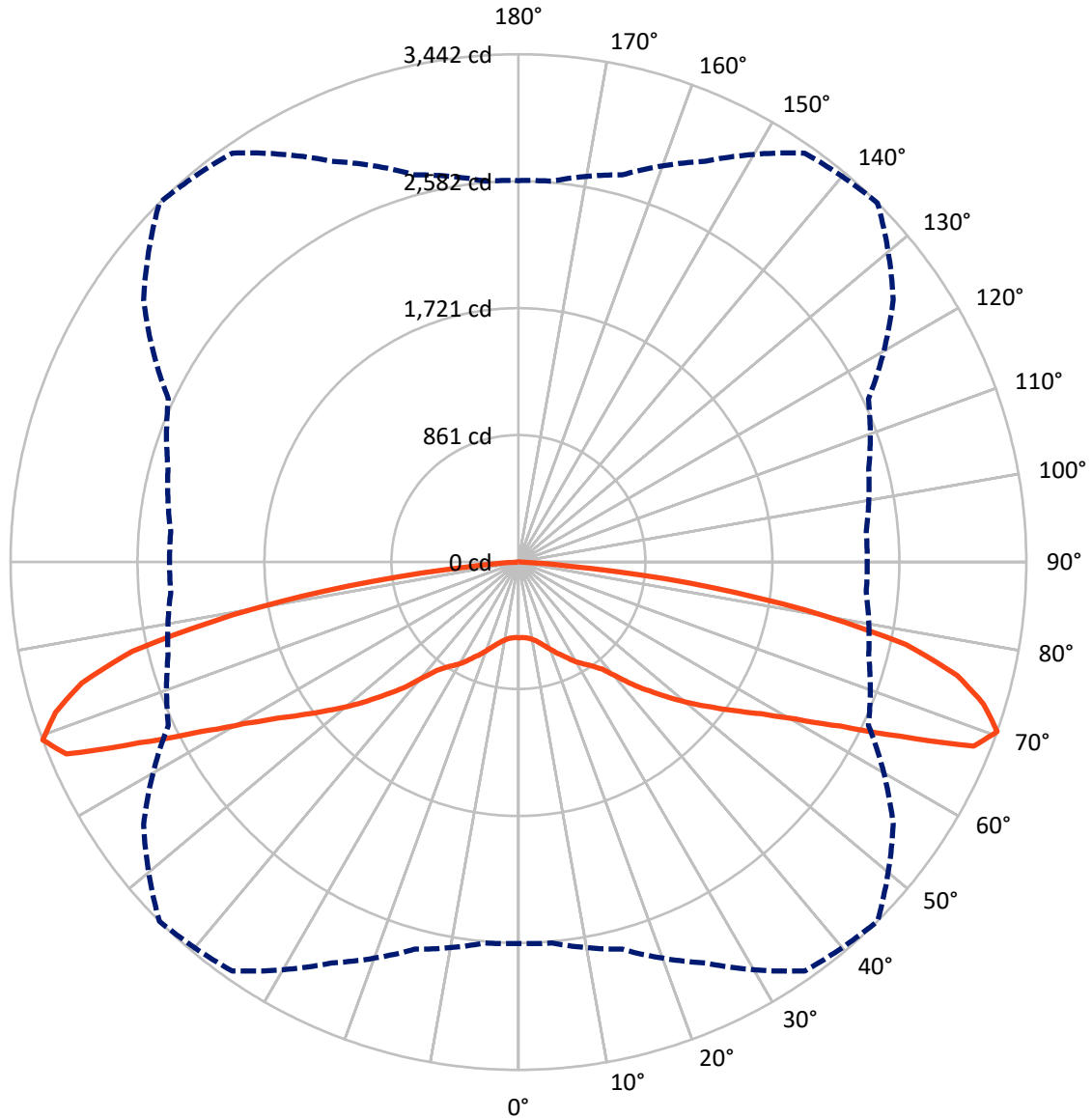
✕ Max cd  
 - - - 1/2 Max cd



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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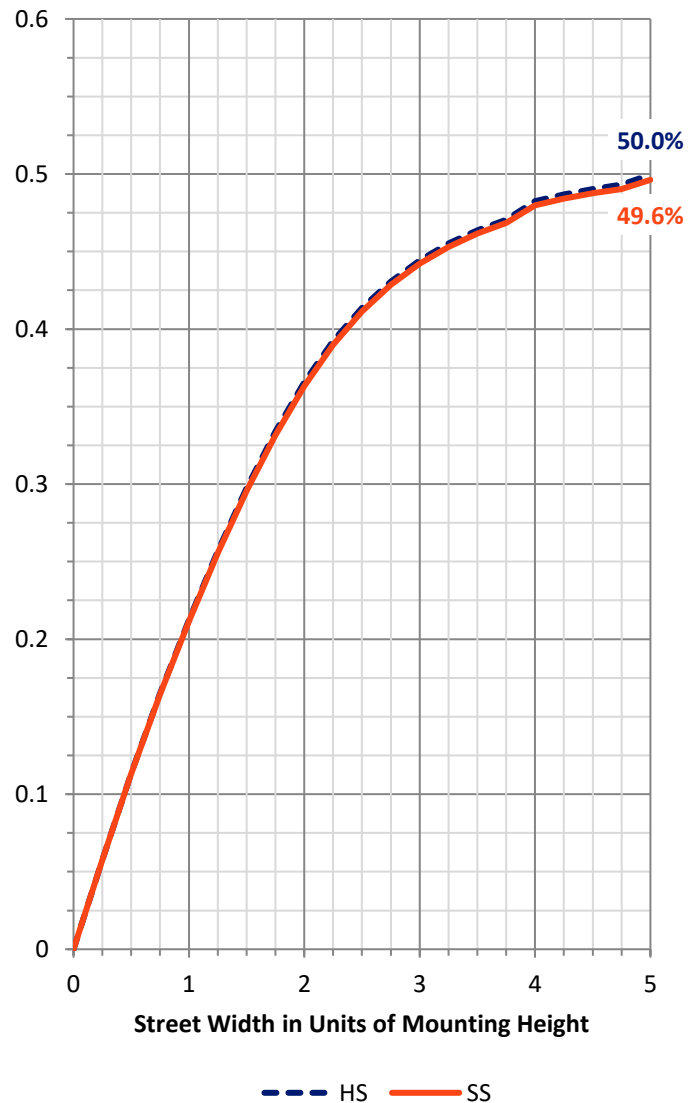
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4594.5   | 0.0    | 4594.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4594.5   | 0.0    | 4594.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 9189.0   | 0.0    | 9189.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 49.9   | 0.5       |
| 10°-20°   | 164.1  | 1.8       |
| 20°-30°   | 322.4  | 3.5       |
| 30°-40°   | 553.0  | 6.0       |
| 40°-50°   | 1015.4 | 11.0      |
| 50°-60°   | 1708.8 | 18.6      |
| 60°-70°   | 2699.9 | 29.4      |
| 70°-80°   | 2304.0 | 25.1      |
| 80°-90°   | 371.5  | 4.0       |
| 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°    | 9189.0 | 100.0     |
| 0°-180°   | 9189.0 | 100.0     |



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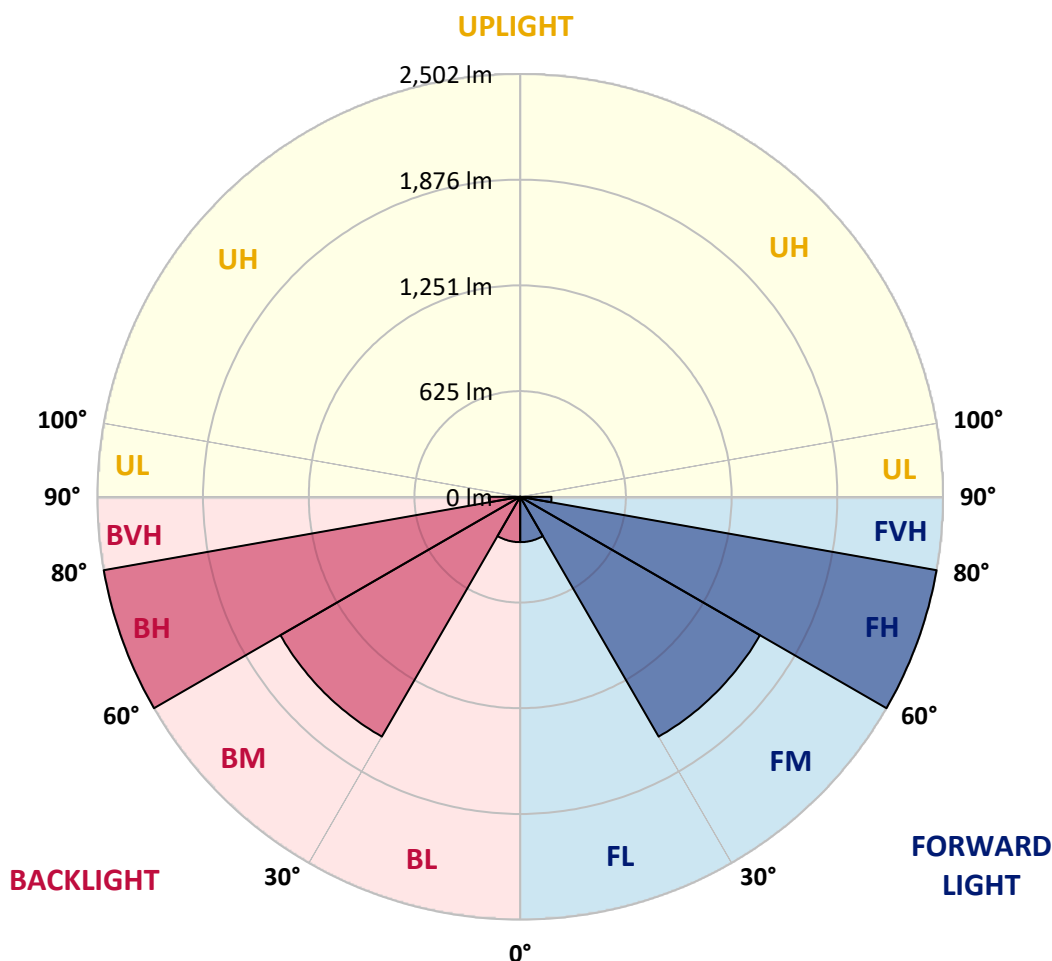
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 268.2  | 2.9       |                         |      |         |
| FM   | (30°-60°)   | 1638.6 | 17.8      |                         |      |         |
| FH   | (60°-80°)   | 2502.0 | 27.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 185.7  | 2.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 268.2  | 2.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1638.6 | 17.8      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 2502.0 | 27.2      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 185.7  | 2.0       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 513.6  | 513.6  | 513.6  | 513.6  | 513.6  | 513.6  | 513.6  | 513.6  | 513.6  | 513.6  | 513.6  |
| 2.5°  | 514.6  | 517.5  | 514.6  | 514.6  | 512.7  | 511.7  | 511.7  | 511.7  | 513.6  | 515.6  | 515.6  |
| 5°    | 518.5  | 520.4  | 517.5  | 517.5  | 515.6  | 515.6  | 515.6  | 515.6  | 517.5  | 519.4  | 518.5  |
| 7.5°  | 525.2  | 528.1  | 525.2  | 525.2  | 523.3  | 521.4  | 521.4  | 522.3  | 523.3  | 524.3  | 523.3  |
| 10°   | 536.8  | 540.7  | 536.8  | 538.7  | 534.9  | 533.9  | 533.0  | 533.0  | 533.9  | 533.9  | 533.9  |
| 12.5° | 551.3  | 554.2  | 552.3  | 554.2  | 550.3  | 550.3  | 547.4  | 547.4  | 546.5  | 546.5  | 546.5  |
| 15°   | 570.6  | 574.5  | 572.5  | 575.4  | 573.5  | 573.5  | 570.6  | 567.7  | 566.7  | 566.7  | 566.7  |
| 17.5° | 593.8  | 597.6  | 596.7  | 601.5  | 599.6  | 601.5  | 595.7  | 590.9  | 591.8  | 591.8  | 590.9  |
| 20°   | 620.8  | 624.7  | 624.7  | 631.4  | 631.4  | 633.4  | 625.6  | 620.8  | 618.9  | 619.8  | 618.9  |
| 22.5° | 650.7  | 654.6  | 653.6  | 664.3  | 670.1  | 670.1  | 659.4  | 655.6  | 651.7  | 652.7  | 650.7  |
| 25°   | 683.6  | 688.4  | 683.6  | 693.2  | 702.9  | 703.8  | 695.2  | 685.5  | 685.5  | 690.3  | 688.4  |
| 27.5° | 711.6  | 717.4  | 714.5  | 718.3  | 739.6  | 745.4  | 731.8  | 721.2  | 723.2  | 727.0  | 724.1  |
| 30°   | 745.4  | 750.2  | 745.4  | 748.3  | 768.5  | 787.8  | 762.7  | 759.8  | 763.7  | 767.6  | 767.6  |
| 32.5° | 788.8  | 794.6  | 785.9  | 788.8  | 795.6  | 825.5  | 803.3  | 807.2  | 815.8  | 824.5  | 824.5  |
| 35°   | 840.0  | 845.8  | 837.1  | 837.1  | 840.0  | 865.1  | 858.3  | 869.9  | 887.3  | 905.6  | 909.5  |
| 37.5° | 904.7  | 907.6  | 897.9  | 894.0  | 899.8  | 920.1  | 929.8  | 955.8  | 983.8  | 1017.6 | 1023.4 |
| 40°   | 992.5  | 996.4  | 982.9  | 979.0  | 982.9  | 1011.8 | 1038.9 | 1085.2 | 1123.8 | 1159.6 | 1163.4 |
| 42.5° | 1122.9 | 1134.5 | 1120.9 | 1108.4 | 1108.4 | 1134.5 | 1172.1 | 1228.1 | 1277.3 | 1300.5 | 1306.3 |
| 45°   | 1266.7 | 1277.3 | 1248.4 | 1232.0 | 1225.2 | 1246.5 | 1288.0 | 1353.6 | 1400.0 | 1437.6 | 1434.7 |
| 47.5° | 1437.6 | 1433.8 | 1406.7 | 1377.8 | 1356.5 | 1370.0 | 1408.7 | 1465.6 | 1515.8 | 1549.6 | 1550.6 |
| 50°   | 1628.8 | 1627.8 | 1592.1 | 1535.1 | 1494.6 | 1500.4 | 1526.4 | 1587.3 | 1637.5 | 1669.3 | 1677.1 |
| 52.5° | 1832.5 | 1825.8 | 1778.4 | 1712.8 | 1652.0 | 1632.7 | 1643.3 | 1697.3 | 1751.4 | 1788.1 | 1788.1 |
| 55°   | 2036.2 | 2027.5 | 1988.0 | 1901.1 | 1828.6 | 1776.5 | 1768.8 | 1822.9 | 1884.6 | 1929.1 | 1932.0 |
| 57.5° | 2246.7 | 2248.6 | 2206.2 | 2131.8 | 2020.8 | 1940.6 | 1919.4 | 1981.2 | 2046.8 | 2087.4 | 2098.0 |
| 60°   | 2461.0 | 2459.1 | 2426.3 | 2374.2 | 2263.1 | 2158.8 | 2124.1 | 2159.8 | 2242.8 | 2274.7 | 2287.3 |
| 62.5° | 2734.3 | 2741.0 | 2692.8 | 2656.1 | 2550.8 | 2450.4 | 2384.8 | 2419.5 | 2501.6 | 2546.0 | 2547.0 |
| 65°   | 2882.0 | 2895.5 | 2916.8 | 2983.4 | 2948.6 | 2846.3 | 2763.2 | 2722.7 | 2697.6 | 2683.1 | 2674.4 |
| 67.5° | 2799.0 | 2799.9 | 2891.7 | 3061.6 | 3262.4 | 3328.1 | 3011.4 | 2727.5 | 2623.2 | 2594.3 | 2586.6 |
| 70°   | 2585.6 | 2591.4 | 2716.9 | 2997.9 | 3383.1 | 3442.0 | 3101.2 | 2617.5 | 2458.1 | 2365.5 | 2364.5 |
| 72.5° | 2160.8 | 2231.3 | 2396.4 | 2812.5 | 3304.9 | 3298.1 | 2957.3 | 2439.8 | 2188.8 | 2097.1 | 2086.4 |
| 75°   | 1709.9 | 1730.2 | 1959.0 | 2427.3 | 3015.2 | 3071.2 | 2747.8 | 2121.2 | 1829.6 | 1708.9 | 1702.2 |
| 77.5° | 1092.9 | 1111.3 | 1363.3 | 1883.7 | 2547.9 | 2684.1 | 2344.2 | 1694.4 | 1368.1 | 1199.1 | 1194.3 |
| 80°   | 533.9  | 586.1  | 777.2  | 1226.2 | 1839.3 | 1967.7 | 1649.1 | 1083.3 | 810.0  | 650.7  | 637.2  |
| 82.5° | 219.2  | 230.8  | 378.5  | 678.7  | 1079.4 | 1166.3 | 842.9  | 504.0  | 299.3  | 197.9  | 183.4  |
| 85°   | 65.7   | 66.6   | 115.9  | 242.3  | 454.7  | 329.2  | 169.9  | 72.4   | 31.9   | 23.2   | 22.2   |
| 87.5° | 11.6   | 12.6   | 21.2   | 29.0   | 28.0   | 12.6   | 11.6   | 10.6   | 10.6   | 10.6   | 11.6   |
| 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)