

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: P553558

Luminaire Tested: **VERD-G-CA2-150-727-U-T5**

Issue Date: 7/12/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553558  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/12/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-150-727-U-T5  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1380mA LEDS AND TYPE V OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18859 lumens  
Efficiency: N/A  
Efficacy: 123.9 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

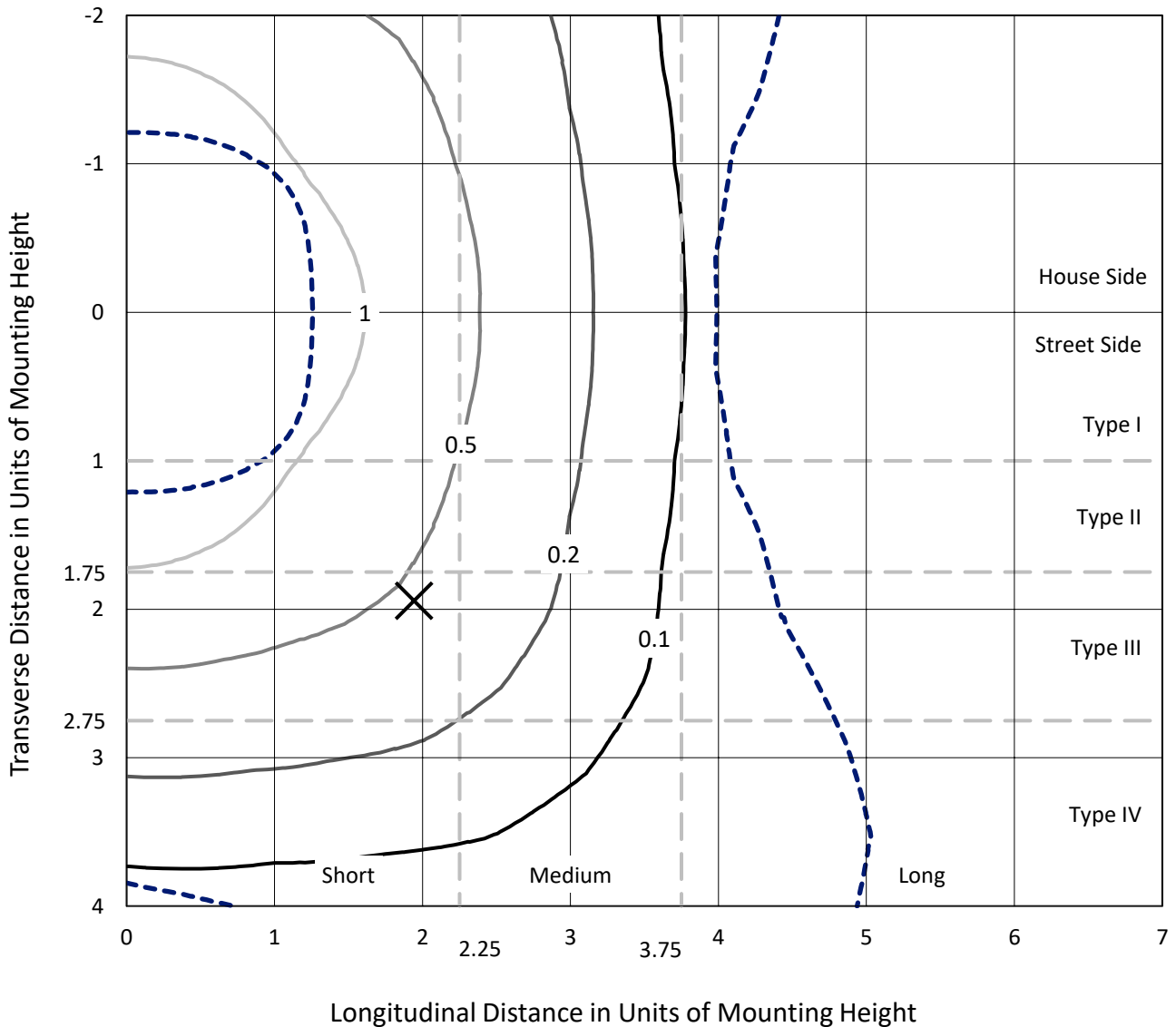
Input Watts (W): 152.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

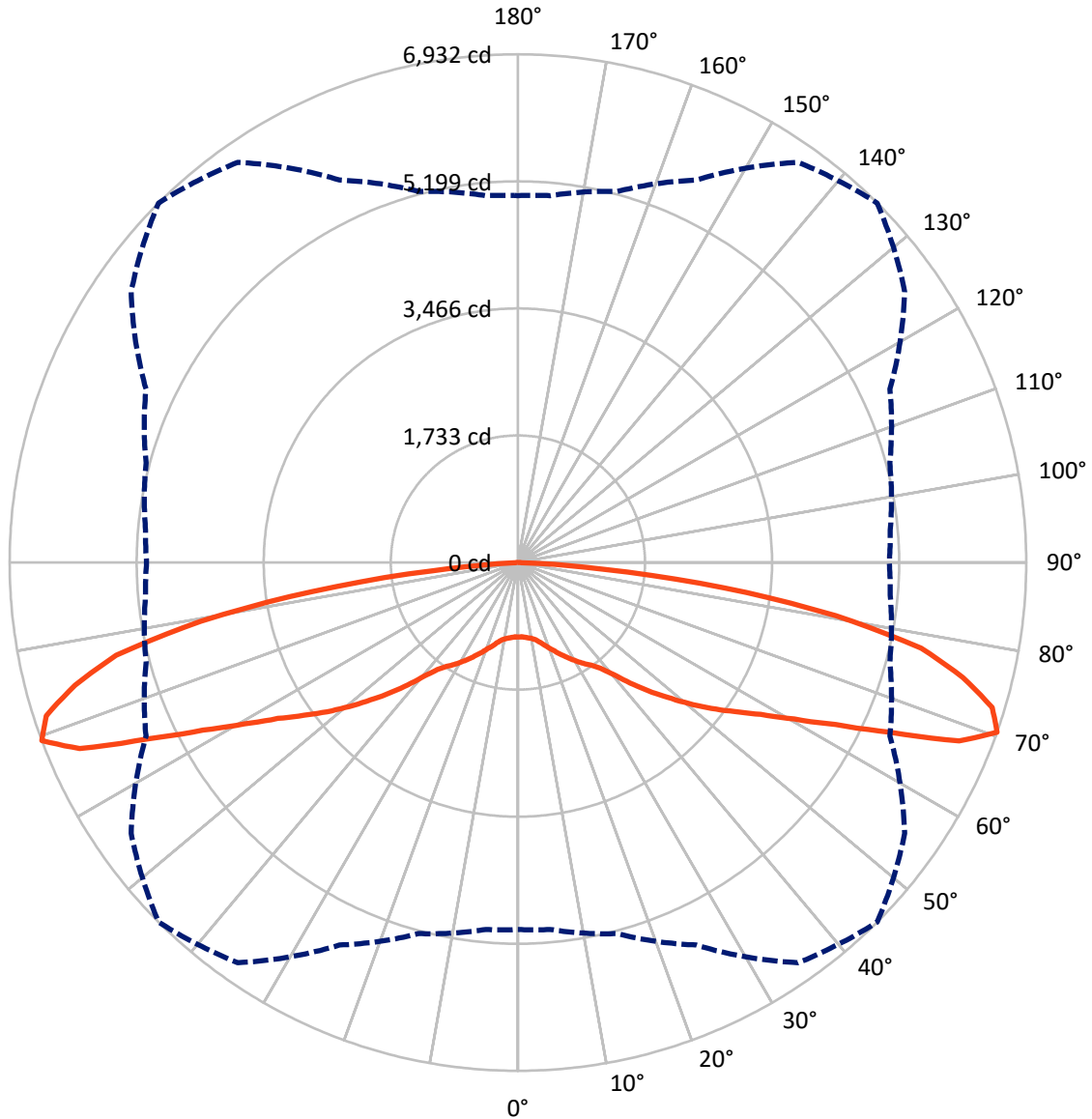
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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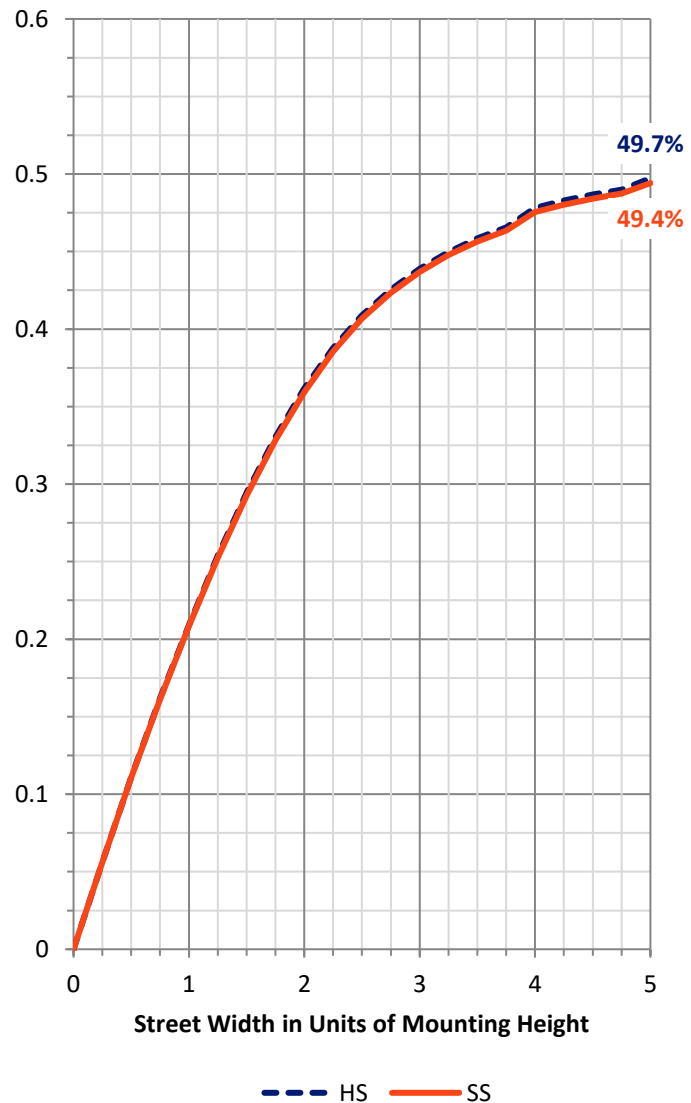
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9429.5   | 0.0    | 9429.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 9429.5   | 0.0    | 9429.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 18859.0  | 0.0    | 18859.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 99.0    | 0.5       |
| 10°-20°   | 324.0   | 1.7       |
| 20°-30°   | 637.5   | 3.4       |
| 30°-40°   | 1091.7  | 5.8       |
| 40°-50°   | 2036.7  | 10.8      |
| 50°-60°   | 3438.9  | 18.2      |
| 60°-70°   | 5393.2  | 28.6      |
| 70°-80°   | 4868.6  | 25.8      |
| 80°-90°   | 969.6   | 5.1       |
| 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°    | 18859.0 | 100.0     |
| 0°-180°   | 18859.0 | 100.0     |



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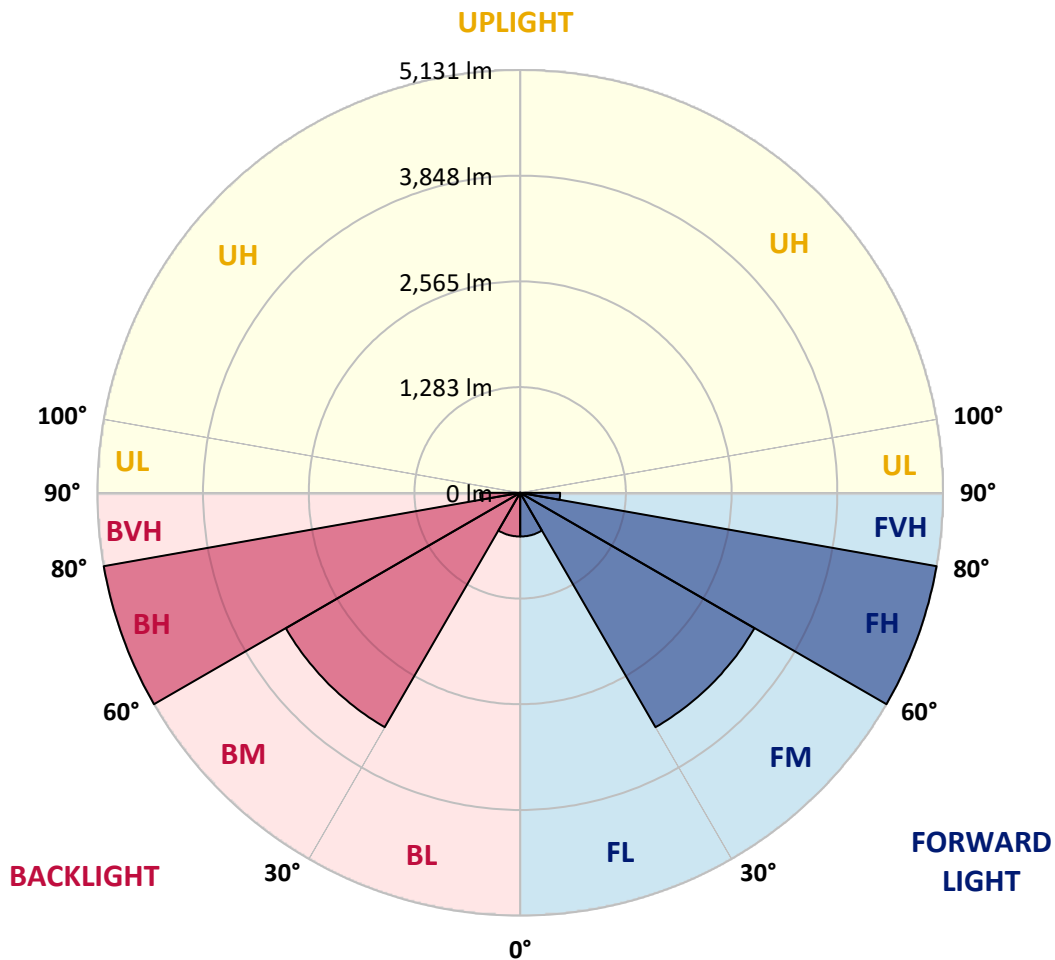
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 530.2  | 2.8       |                         |      |         |
| FM (30°-60°)   | 3283.6 | 17.4      |                         |      |         |
| FH (60°-80°)   | 5130.9 | 27.2      |                         |      | G3/7500 |
| FVH (80°-90°)  | 484.8  | 2.6       |                         |      | G3/500  |
| BL (0°-30°)    | 530.2  | 2.8       | B2/1000                 |      |         |
| BM (30°-60°)   | 3283.6 | 17.4      | B3/5000                 |      |         |
| BH (60°-80°)   | 5130.9 | 27.2      | B5                      |      | G3/7500 |
| BVH (80°-90°)  | 484.8  | 2.6       |                         |      | G3/500  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1015.7 | 1015.7 | 1015.7 | 1015.7 | 1015.7 | 1015.7 | 1015.7 | 1015.7 | 1015.7 | 1015.7 | 1015.7 |
| 2.5°  | 1032.7 | 1032.7 | 1021.8 | 1015.7 | 1016.9 | 1013.3 | 1013.3 | 1012.1 | 1015.7 | 1015.7 | 1012.1 |
| 5°    | 1038.7 | 1043.6 | 1032.7 | 1024.2 | 1026.6 | 1024.2 | 1023.0 | 1024.2 | 1030.2 | 1032.7 | 1027.8 |
| 7.5°  | 1050.8 | 1055.7 | 1042.4 | 1032.7 | 1036.3 | 1037.5 | 1032.7 | 1036.3 | 1039.9 | 1042.4 | 1036.3 |
| 10°   | 1070.2 | 1071.4 | 1063.0 | 1049.6 | 1055.7 | 1053.3 | 1052.1 | 1049.6 | 1050.8 | 1052.1 | 1050.8 |
| 12.5° | 1098.1 | 1093.3 | 1083.6 | 1079.9 | 1086.0 | 1081.1 | 1075.1 | 1073.9 | 1078.7 | 1075.1 | 1078.7 |
| 15°   | 1133.3 | 1129.6 | 1128.4 | 1124.8 | 1134.5 | 1128.4 | 1126.0 | 1122.4 | 1126.0 | 1118.7 | 1123.6 |
| 17.5° | 1172.0 | 1176.9 | 1178.1 | 1181.7 | 1190.2 | 1189.0 | 1180.5 | 1178.1 | 1179.3 | 1172.0 | 1172.0 |
| 20°   | 1229.0 | 1231.4 | 1235.1 | 1236.3 | 1250.8 | 1248.4 | 1238.7 | 1230.2 | 1232.7 | 1220.5 | 1216.9 |
| 22.5° | 1293.3 | 1293.3 | 1292.0 | 1301.7 | 1321.1 | 1321.1 | 1300.5 | 1290.8 | 1294.5 | 1286.0 | 1278.7 |
| 25°   | 1356.3 | 1356.3 | 1351.4 | 1364.8 | 1395.1 | 1393.9 | 1373.2 | 1355.1 | 1361.1 | 1356.3 | 1355.1 |
| 27.5° | 1421.7 | 1421.7 | 1414.5 | 1419.3 | 1471.4 | 1475.1 | 1446.0 | 1429.0 | 1427.8 | 1432.6 | 1432.6 |
| 30°   | 1493.2 | 1489.6 | 1483.5 | 1477.5 | 1536.9 | 1555.1 | 1515.1 | 1501.7 | 1502.9 | 1510.2 | 1512.6 |
| 32.5° | 1574.4 | 1578.1 | 1568.4 | 1557.5 | 1603.5 | 1639.9 | 1584.1 | 1590.2 | 1593.8 | 1604.7 | 1613.2 |
| 35°   | 1692.0 | 1692.0 | 1670.2 | 1656.9 | 1684.7 | 1717.5 | 1688.4 | 1701.7 | 1723.5 | 1739.3 | 1746.6 |
| 37.5° | 1824.1 | 1830.2 | 1799.9 | 1770.8 | 1801.1 | 1826.6 | 1825.3 | 1859.3 | 1902.9 | 1956.2 | 1945.3 |
| 40°   | 2045.9 | 2047.1 | 1995.0 | 1950.2 | 1959.9 | 2003.5 | 2036.2 | 2099.3 | 2162.3 | 2224.1 | 2220.5 |
| 42.5° | 2348.9 | 2330.8 | 2288.3 | 2231.4 | 2224.1 | 2244.7 | 2317.4 | 2382.9 | 2466.5 | 2511.4 | 2521.1 |
| 45°   | 2670.1 | 2666.5 | 2608.3 | 2517.4 | 2494.4 | 2495.6 | 2557.4 | 2650.7 | 2744.1 | 2791.3 | 2798.6 |
| 47.5° | 3018.0 | 3016.8 | 2927.1 | 2836.2 | 2769.5 | 2745.3 | 2798.6 | 2891.9 | 2990.1 | 3048.3 | 3043.4 |
| 50°   | 3385.2 | 3370.7 | 3287.1 | 3168.3 | 3078.6 | 3021.6 | 3050.7 | 3150.1 | 3234.9 | 3291.9 | 3291.9 |
| 52.5° | 3754.9 | 3739.2 | 3659.2 | 3521.0 | 3381.6 | 3304.0 | 3290.7 | 3382.8 | 3485.8 | 3547.7 | 3546.4 |
| 55°   | 4165.8 | 4134.3 | 4039.7 | 3891.9 | 3730.7 | 3586.4 | 3553.7 | 3626.4 | 3753.7 | 3827.6 | 3851.9 |
| 57.5° | 4558.5 | 4537.9 | 4449.4 | 4285.8 | 4104.0 | 3904.0 | 3847.0 | 3936.7 | 4066.4 | 4147.6 | 4169.4 |
| 60°   | 4956.1 | 4925.8 | 4849.4 | 4728.2 | 4531.8 | 4331.9 | 4240.9 | 4294.3 | 4437.3 | 4528.2 | 4511.2 |
| 62.5° | 5393.6 | 5382.7 | 5318.5 | 5205.7 | 5087.0 | 4865.2 | 4724.6 | 4779.1 | 4929.4 | 5003.3 | 4975.4 |
| 65°   | 5730.6 | 5746.3 | 5765.7 | 5779.0 | 5746.3 | 5576.6 | 5417.8 | 5482.1 | 5541.5 | 5548.7 | 5506.3 |
| 67.5° | 5470.0 | 5540.3 | 5685.7 | 5998.4 | 6363.2 | 6491.7 | 6177.8 | 5749.9 | 5523.3 | 5468.7 | 5403.3 |
| 70°   | 5004.5 | 5022.7 | 5238.5 | 5754.8 | 6662.6 | 6931.7 | 6438.4 | 5596.0 | 5249.4 | 5096.7 | 5063.9 |
| 72.5° | 4358.5 | 4456.7 | 4716.1 | 5408.1 | 6448.1 | 6763.2 | 6291.7 | 5262.7 | 4745.2 | 4545.2 | 4505.2 |
| 75°   | 3602.2 | 3731.9 | 4032.5 | 4826.4 | 5922.1 | 6268.7 | 5840.8 | 4653.0 | 4001.0 | 3794.9 | 3784.0 |
| 77.5° | 2671.3 | 2725.9 | 3157.4 | 3973.1 | 5255.4 | 5621.5 | 5151.2 | 3844.6 | 3195.0 | 2866.5 | 2878.6 |
| 80°   | 1481.1 | 1545.4 | 1965.9 | 2738.0 | 3998.5 | 4394.9 | 3919.8 | 2769.5 | 2121.1 | 1860.5 | 1841.1 |
| 82.5° | 652.1  | 701.8  | 989.0  | 1545.4 | 2483.5 | 2827.7 | 2347.7 | 1462.9 | 985.4  | 745.4  | 717.5  |
| 85°   | 195.1  | 215.7  | 340.6  | 619.4  | 1185.4 | 1170.8 | 749.0  | 335.7  | 134.5  | 73.9   | 70.3   |
| 87.5° | 46.1   | 50.9   | 92.1   | 141.8  | 151.5  | 57.0   | 26.7   | 23.0   | 23.0   | 23.0   | 23.0   |
| 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)