

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: P316615

Luminaire Tested: **GAN-SA1D-827-U-5MQ**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P316615  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1D-827-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 6274 lumens  
Efficiency: N/A  
Efficacy: 93.6 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

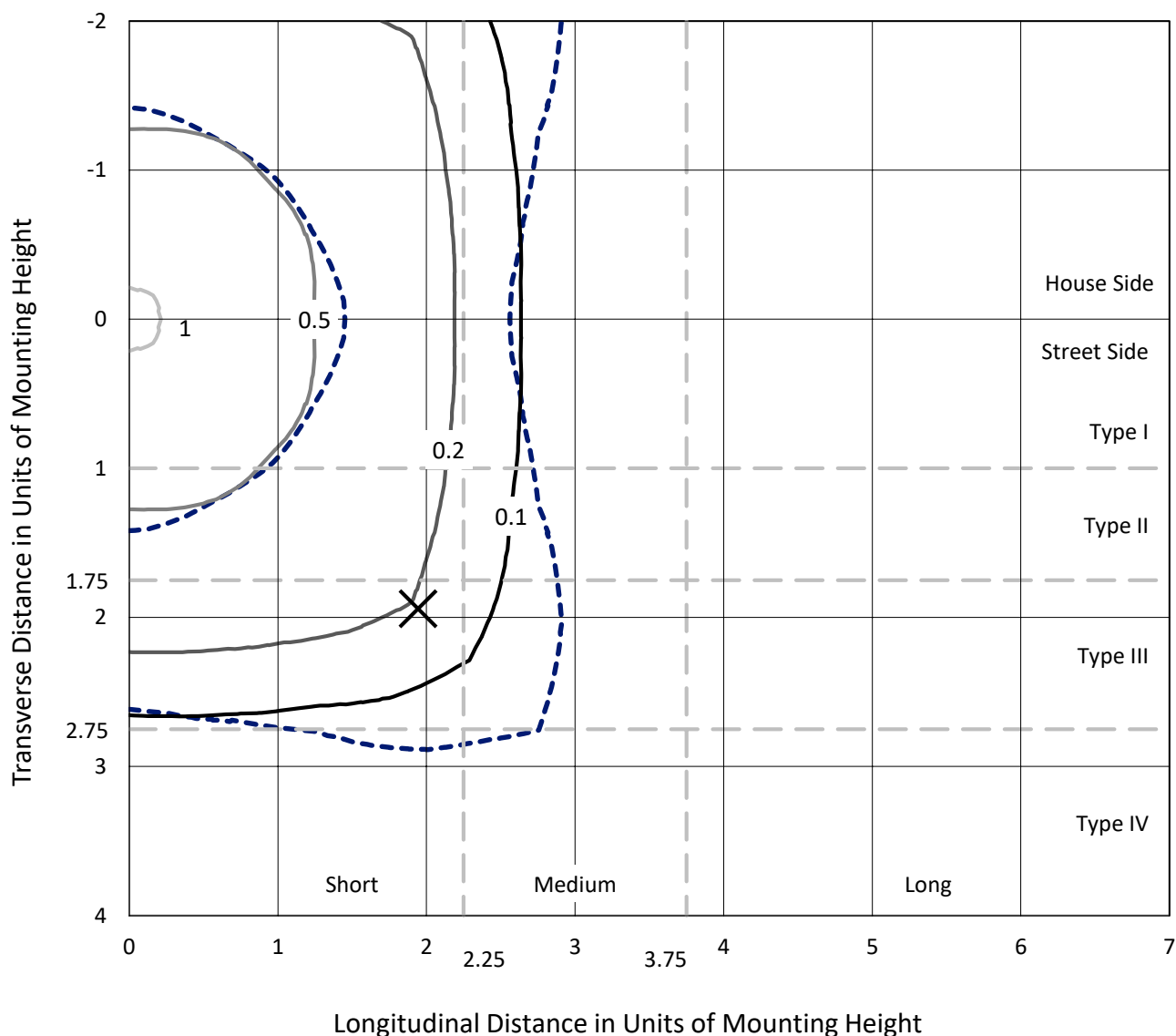
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

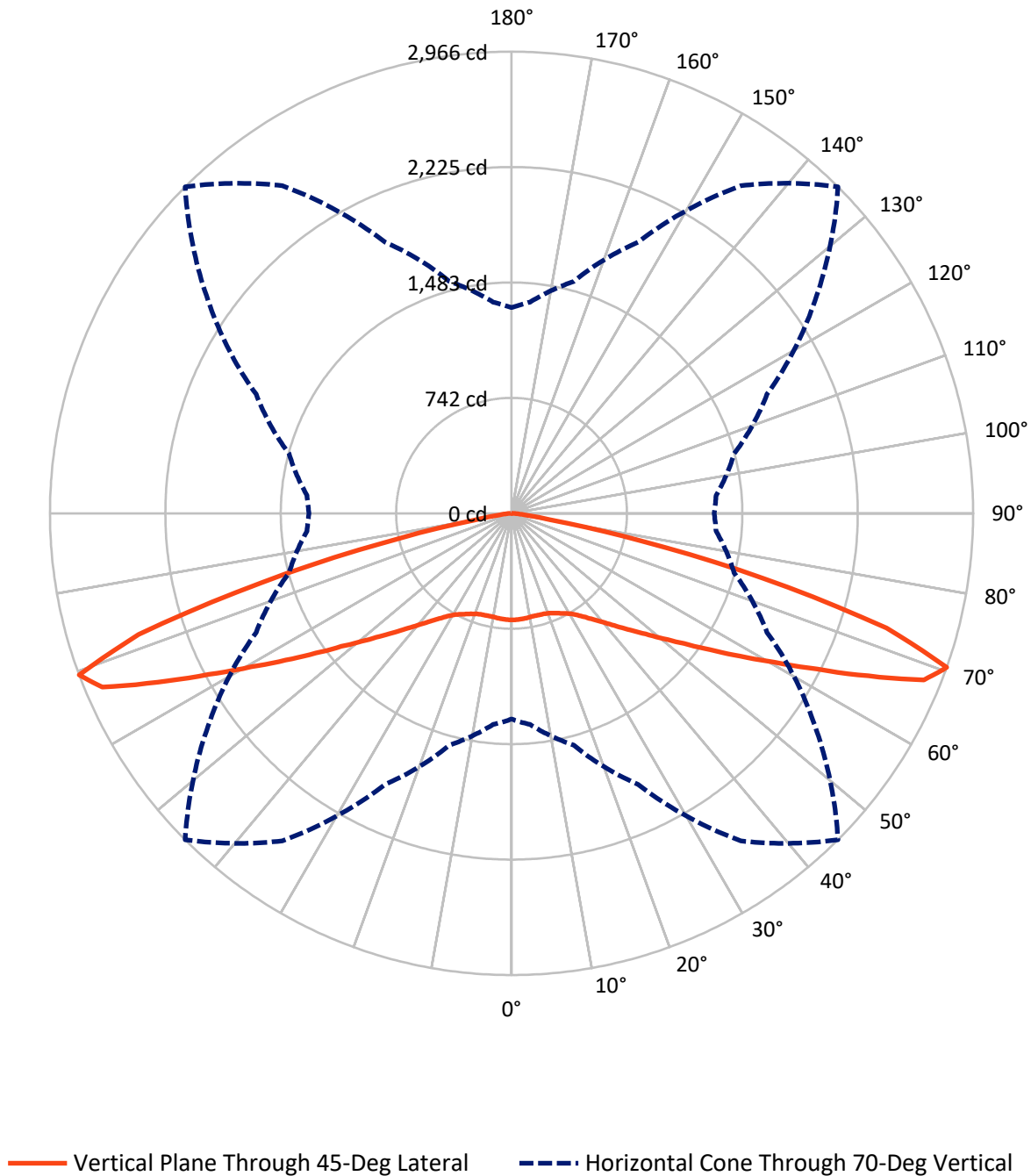
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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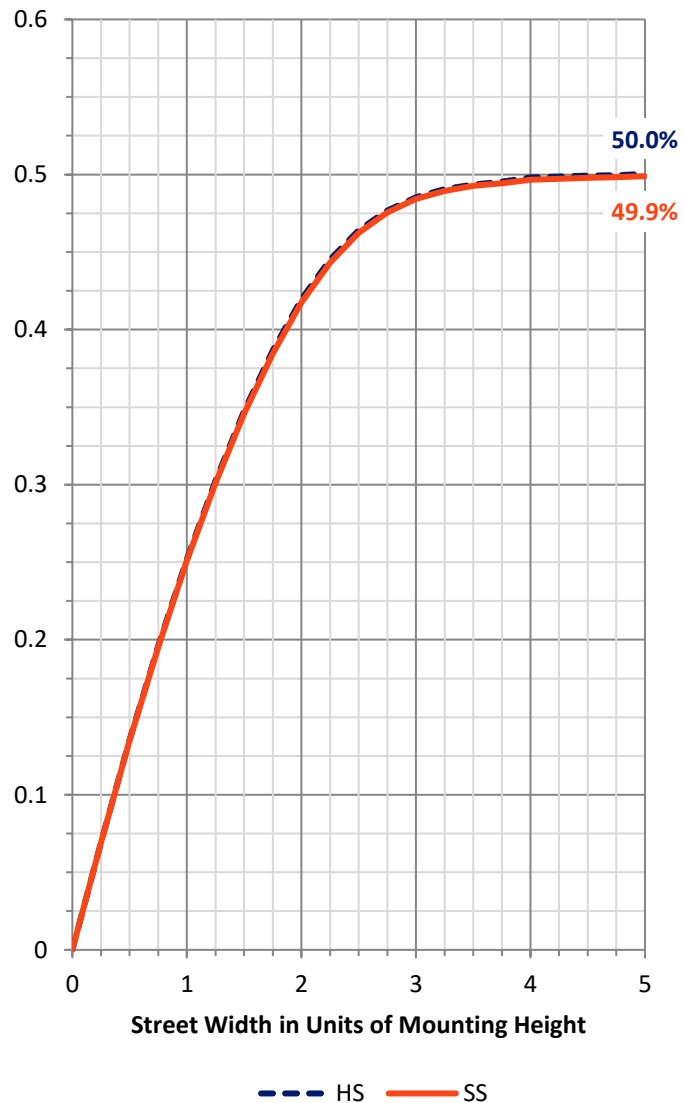
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3137.0   | 0.0    | 3137.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3137.0   | 0.0    | 3137.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 6274.0   | 0.0    | 6274.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 64.9   | 1.0       |
| 10°-20°   | 190.5  | 3.0       |
| 20°-30°   | 324.3  | 5.2       |
| 30°-40°   | 514.4  | 8.2       |
| 40°-50°   | 837.1  | 13.3      |
| 50°-60°   | 1380.2 | 22.0      |
| 60°-70°   | 2026.1 | 32.3      |
| 70°-80°   | 895.9  | 14.3      |
| 80°-90°   | 40.6   | 0.6       |
| 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°    | 6274.0 | 100.0     |
| 0°-180°   | 6274.0 | 100.0     |

**Coefficient of Utilization**



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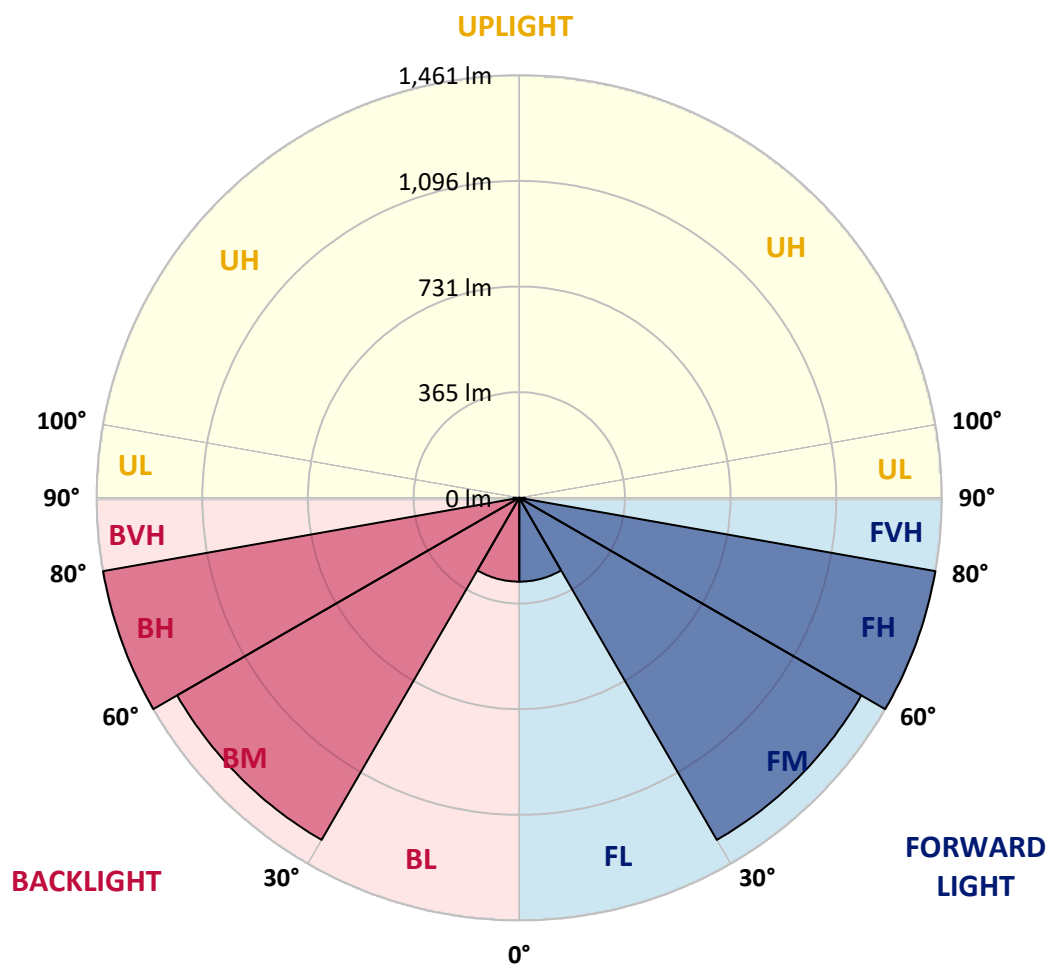
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 289.9  | 4.6       |                         |      |         |
| FM   | (30°-60°)   | 1365.8 | 21.8      |                         |      |         |
| FH   | (60°-80°)   | 1461.0 | 23.3      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 20.3   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 289.9  | 4.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1365.8 | 21.8      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1461.0 | 23.3      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 20.3   | 0.3       |                         |      | 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°    | 685.2  | 685.2  | 685.2  | 685.2  | 685.2  | 685.2  | 685.2  | 685.2  | 685.2  | 685.2  | 685.2  |
| 2.5°  | 684.2  | 683.6  | 685.0  | 684.8  | 683.6  | 683.8  | 683.8  | 684.4  | 684.4  | 684.0  | 684.0  |
| 5°    | 681.7  | 681.3  | 682.9  | 682.9  | 681.7  | 682.1  | 682.5  | 683.1  | 682.9  | 682.5  | 682.3  |
| 7.5°  | 678.6  | 678.4  | 680.0  | 680.0  | 679.2  | 679.6  | 679.2  | 679.4  | 679.0  | 678.6  | 678.0  |
| 10°   | 673.4  | 673.8  | 675.3  | 675.7  | 675.7  | 675.9  | 675.5  | 674.4  | 673.8  | 673.2  | 672.6  |
| 12.5° | 668.6  | 668.4  | 670.5  | 671.5  | 673.2  | 675.0  | 673.8  | 670.9  | 669.6  | 668.4  | 668.0  |
| 15°   | 665.5  | 665.7  | 667.8  | 669.6  | 672.6  | 676.5  | 675.0  | 670.5  | 668.0  | 666.5  | 666.1  |
| 17.5° | 664.9  | 665.3  | 668.0  | 671.3  | 674.4  | 678.8  | 678.0  | 673.4  | 669.2  | 666.5  | 665.9  |
| 20°   | 666.3  | 666.5  | 670.7  | 675.5  | 680.9  | 685.0  | 683.1  | 678.2  | 672.6  | 668.4  | 667.4  |
| 22.5° | 669.0  | 669.9  | 675.0  | 682.5  | 690.8  | 696.4  | 694.1  | 685.6  | 676.9  | 671.7  | 670.3  |
| 25°   | 677.5  | 677.7  | 684.8  | 695.0  | 704.9  | 711.4  | 708.7  | 696.6  | 685.4  | 679.6  | 677.7  |
| 27.5° | 695.2  | 695.8  | 702.9  | 714.7  | 723.2  | 727.4  | 725.7  | 715.9  | 706.4  | 700.2  | 700.8  |
| 30°   | 720.7  | 721.6  | 729.4  | 742.5  | 747.7  | 748.8  | 748.3  | 743.8  | 735.1  | 726.7  | 727.4  |
| 32.5° | 751.9  | 752.3  | 762.9  | 774.7  | 778.9  | 779.7  | 778.9  | 774.7  | 764.3  | 753.1  | 753.7  |
| 35°   | 791.9  | 793.2  | 803.4  | 814.8  | 818.1  | 819.8  | 818.3  | 812.9  | 802.1  | 791.1  | 790.7  |
| 37.5° | 841.4  | 841.6  | 852.2  | 864.0  | 868.2  | 868.6  | 866.9  | 863.4  | 849.9  | 839.9  | 839.3  |
| 40°   | 898.7  | 899.5  | 912.0  | 924.6  | 926.3  | 924.4  | 926.7  | 924.6  | 910.7  | 899.3  | 901.2  |
| 42.5° | 968.4  | 970.3  | 985.3  | 997.7  | 992.9  | 991.9  | 993.4  | 994.0  | 982.8  | 968.9  | 967.6  |
| 45°   | 1049.6 | 1051.3 | 1070.0 | 1079.9 | 1076.8 | 1070.0 | 1072.9 | 1077.9 | 1062.3 | 1045.1 | 1046.7 |
| 47.5° | 1142.2 | 1146.4 | 1166.3 | 1175.7 | 1168.0 | 1158.6 | 1164.2 | 1171.7 | 1153.5 | 1132.1 | 1131.0 |
| 50°   | 1245.2 | 1250.4 | 1277.0 | 1290.1 | 1282.4 | 1265.2 | 1274.5 | 1279.5 | 1253.1 | 1225.5 | 1223.2 |
| 52.5° | 1355.1 | 1360.3 | 1393.7 | 1420.7 | 1415.7 | 1388.9 | 1402.0 | 1396.8 | 1366.5 | 1329.3 | 1326.4 |
| 55°   | 1479.4 | 1481.5 | 1517.7 | 1561.3 | 1566.2 | 1546.5 | 1545.7 | 1537.2 | 1492.3 | 1449.3 | 1447.3 |
| 57.5° | 1607.4 | 1608.8 | 1655.5 | 1707.0 | 1730.5 | 1730.5 | 1707.2 | 1689.2 | 1629.6 | 1579.7 | 1574.5 |
| 60°   | 1745.4 | 1750.6 | 1802.3 | 1872.3 | 1927.1 | 1943.3 | 1902.2 | 1853.0 | 1788.2 | 1727.4 | 1721.4 |
| 62.5° | 1868.4 | 1874.4 | 1953.5 | 2057.7 | 2145.8 | 2204.7 | 2104.2 | 2024.1 | 1906.2 | 1808.6 | 1797.1 |
| 65°   | 1883.9 | 1900.1 | 2015.4 | 2204.1 | 2401.2 | 2518.9 | 2326.2 | 2128.7 | 1913.8 | 1778.2 | 1766.6 |
| 67.5° | 1720.5 | 1747.9 | 1903.7 | 2197.5 | 2604.7 | 2857.4 | 2468.0 | 2068.9 | 1776.0 | 1626.0 | 1613.2 |
| 70°   | 1322.1 | 1361.9 | 1541.5 | 1922.1 | 2569.6 | 2966.4 | 2379.2 | 1811.3 | 1480.7 | 1319.4 | 1301.3 |
| 72.5° | 725.3  | 741.7  | 903.2  | 1316.2 | 2060.0 | 2520.8 | 1984.4 | 1339.3 | 981.9  | 799.0  | 768.7  |
| 75°   | 230.1  | 235.9  | 318.1  | 538.6  | 1165.3 | 1669.6 | 1260.6 | 657.4  | 361.9  | 266.8  | 263.7  |
| 77.5° | 102.2  | 102.8  | 115.0  | 157.2  | 401.4  | 845.9  | 482.1  | 179.0  | 123.3  | 107.8  | 111.3  |
| 80°   | 64.6   | 64.6   | 71.2   | 77.9   | 109.2  | 245.6  | 130.4  | 85.1   | 72.7   | 67.5   | 68.9   |
| 82.5° | 30.9   | 34.3   | 46.3   | 49.8   | 60.0   | 82.6   | 66.9   | 55.6   | 48.6   | 36.1   | 33.6   |
| 85°   | 20.3   | 17.0   | 29.3   | 33.0   | 34.9   | 39.7   | 38.8   | 36.8   | 31.8   | 18.1   | 20.1   |
| 87.5° | 9.1    | 8.7    | 15.2   | 13.9   | 13.1   | 10.0   | 15.0   | 18.5   | 17.9   | 8.9    | 8.9    |
| 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)