

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386686

Luminaire Tested: GAW-SA2B-827-U-5MQ

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386686  
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  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2B-827-U-5MQ  
Description: GALLEON WALL LUMINAIRE  
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9210 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

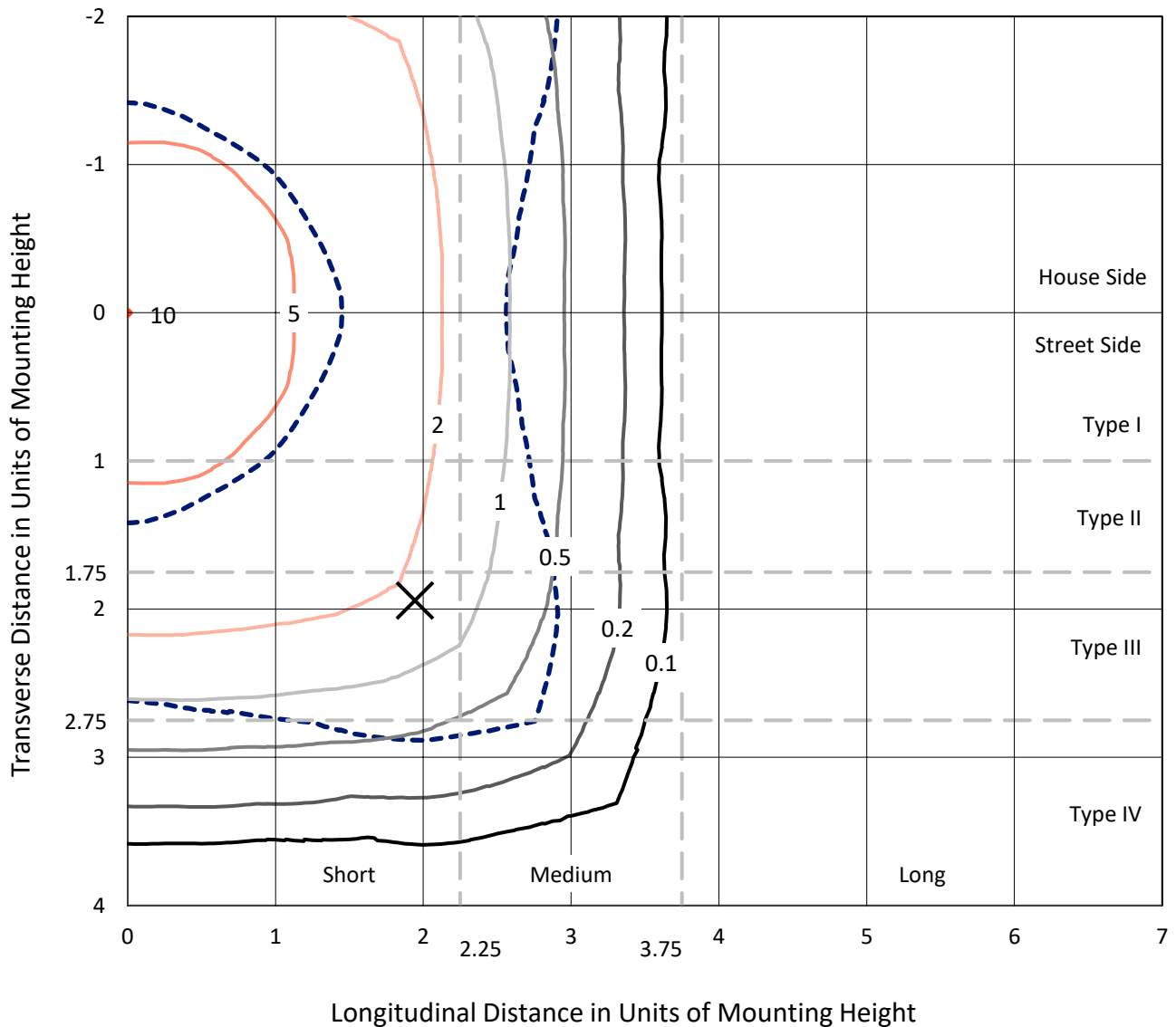
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

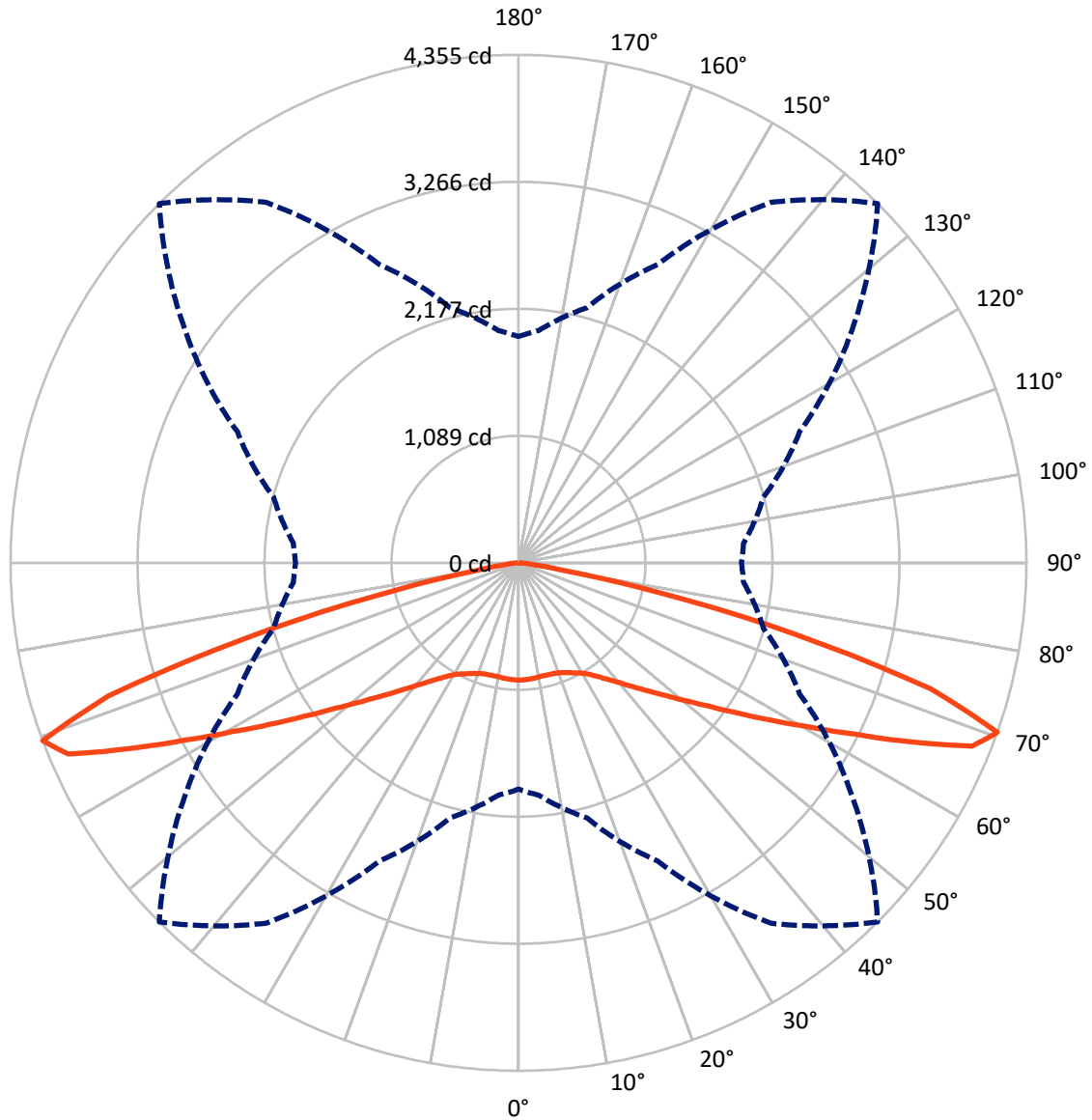
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 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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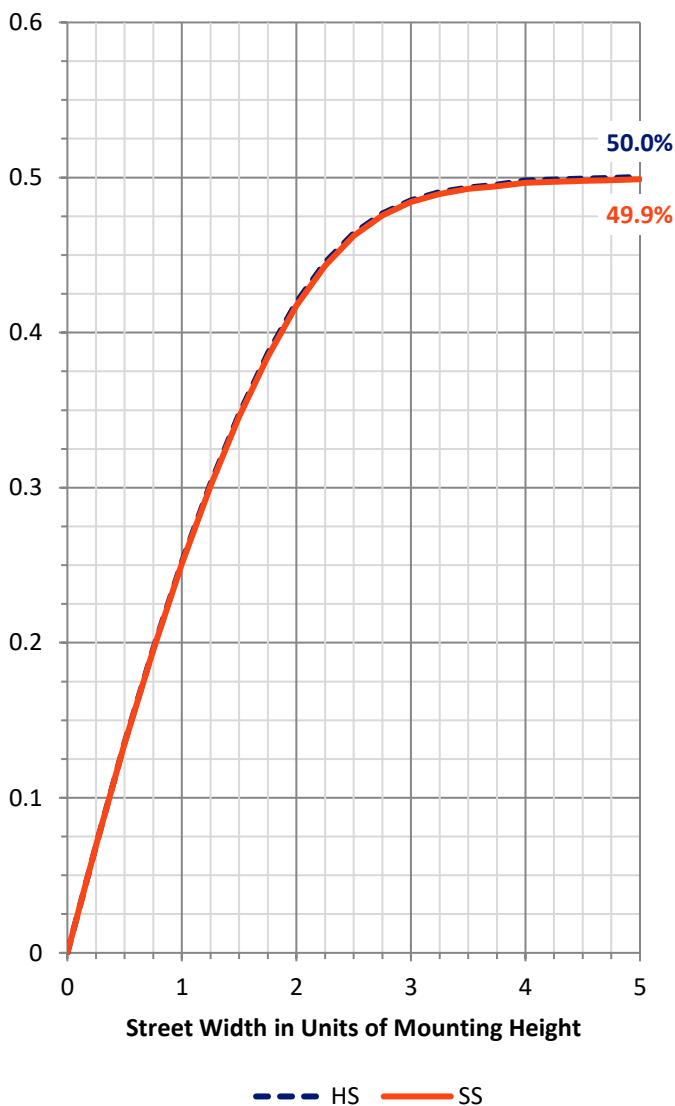
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4605.0   | 0.0    | 4605.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4605.0   | 0.0    | 4605.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 9210.0   | 0.0    | 9210.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 95.3   | 1.0       |
| 10°-20°   | 279.7  | 3.0       |
| 20°-30°   | 476.1  | 5.2       |
| 30°-40°   | 755.1  | 8.2       |
| 40°-50°   | 1228.8 | 13.3      |
| 50°-60°   | 2026.0 | 22.0      |
| 60°-70°   | 2974.3 | 32.3      |
| 70°-80°   | 1315.2 | 14.3      |
| 80°-90°   | 59.6   | 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°    | 9210.0 | 100.0     |
| 0°-180°   | 9210.0 | 100.0     |

**Coefficient of Utilization**



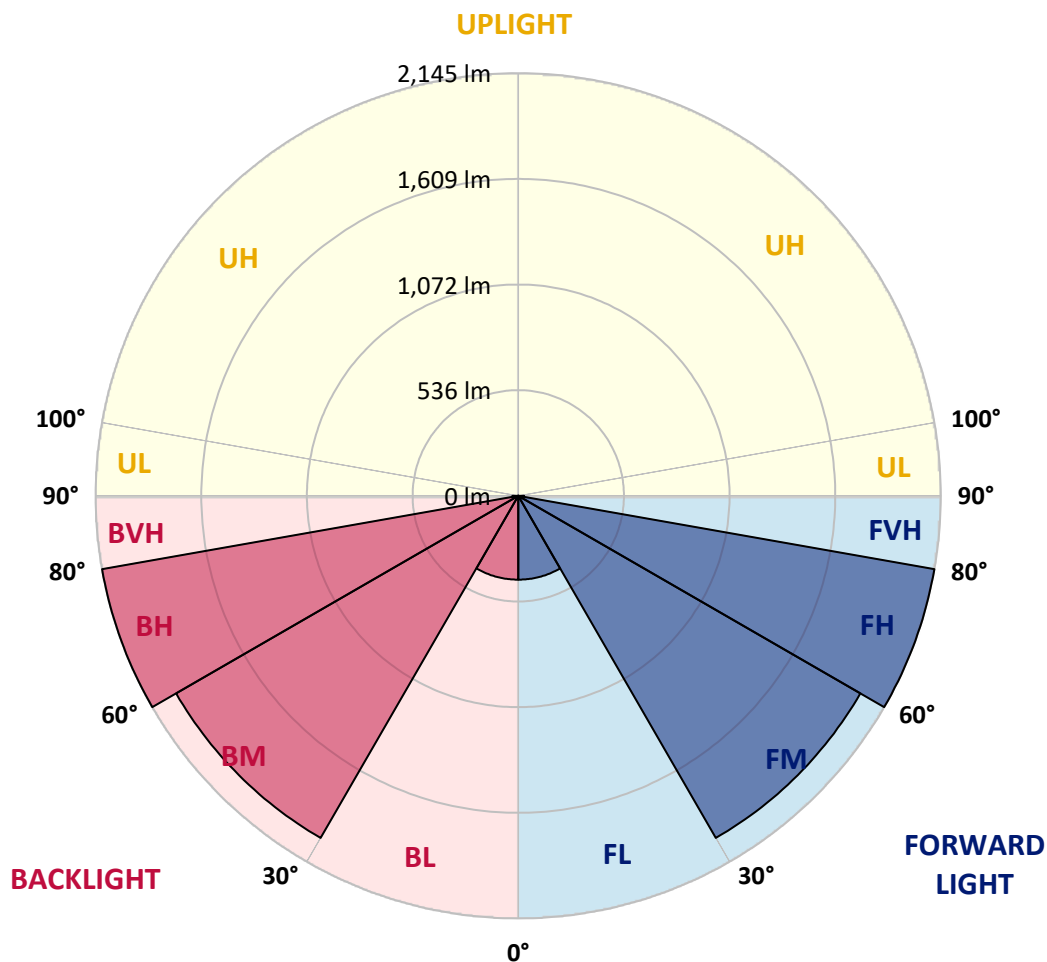
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 425.5  | 4.6       |                         |      |         |
| FM (30°-60°)   | 2004.9 | 21.8      |                         |      |         |
| FH (60°-80°)   | 2144.7 | 23.3      |                         |      | G2/5000 |
| FVH (80°-90°)  | 29.8   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 425.5  | 4.6       | B1/500                  |      |         |
| BM (30°-60°)   | 2004.9 | 21.8      | B2/2500                 |      |         |
| BH (60°-80°)   | 2144.7 | 23.3      | B3/2500                 |      | G2/5000 |
| BVH (80°-90°)  | 29.8   | 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-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1005.9 | 1005.9 | 1005.9 | 1005.9 | 1005.9 | 1005.9 | 1005.9 | 1005.9 | 1005.9 | 1005.9 | 1005.9 |
| 2.5°  | 1004.4 | 1003.4 | 1005.6 | 1005.3 | 1003.4 | 1003.7 | 1003.7 | 1004.7 | 1004.7 | 1004.0 | 1004.0 |
| 5°    | 1000.7 | 1000.1 | 1002.5 | 1002.5 | 1000.7 | 1001.3 | 1001.9 | 1002.8 | 1002.5 | 1001.9 | 1001.6 |
| 7.5°  | 996.1  | 995.8  | 998.3  | 998.3  | 997.0  | 997.6  | 997.0  | 997.3  | 996.7  | 996.1  | 995.2  |
| 10°   | 988.5  | 989.1  | 991.2  | 991.9  | 991.9  | 992.2  | 991.5  | 990.0  | 989.1  | 988.2  | 987.3  |
| 12.5° | 981.5  | 981.2  | 984.2  | 985.8  | 988.2  | 990.9  | 989.1  | 984.8  | 983.0  | 981.2  | 980.6  |
| 15°   | 976.9  | 977.2  | 980.3  | 983.0  | 987.3  | 993.1  | 990.9  | 984.2  | 980.6  | 978.4  | 977.8  |
| 17.5° | 976.0  | 976.6  | 980.6  | 985.5  | 990.0  | 996.4  | 995.2  | 988.5  | 982.4  | 978.4  | 977.5  |
| 20°   | 978.1  | 978.4  | 984.5  | 991.5  | 999.5  | 1005.6 | 1002.8 | 995.5  | 987.3  | 981.2  | 979.7  |
| 22.5° | 982.1  | 983.3  | 990.9  | 1001.9 | 1014.1 | 1022.3 | 1019.0 | 1006.5 | 993.7  | 986.1  | 983.9  |
| 25°   | 994.6  | 994.9  | 1005.3 | 1020.2 | 1034.8 | 1044.3 | 1040.3 | 1022.6 | 1006.2 | 997.6  | 994.9  |
| 27.5° | 1020.5 | 1021.4 | 1031.8 | 1049.2 | 1061.7 | 1067.8 | 1065.3 | 1051.0 | 1037.0 | 1027.8 | 1028.7 |
| 30°   | 1058.0 | 1059.2 | 1070.8 | 1090.0 | 1097.6 | 1099.1 | 1098.5 | 1091.8 | 1079.0 | 1066.8 | 1067.8 |
| 32.5° | 1103.7 | 1104.3 | 1119.9 | 1137.2 | 1143.3 | 1144.6 | 1143.3 | 1137.2 | 1122.0 | 1105.5 | 1106.5 |
| 35°   | 1162.5 | 1164.4 | 1179.3 | 1196.1 | 1201.0 | 1203.4 | 1201.3 | 1193.3 | 1177.5 | 1161.3 | 1160.7 |
| 37.5° | 1235.1 | 1235.4 | 1250.9 | 1268.3 | 1274.4 | 1275.0 | 1272.6 | 1267.4 | 1247.6 | 1233.0 | 1232.0 |
| 40°   | 1319.2 | 1320.4 | 1338.7 | 1357.3 | 1359.8 | 1357.0 | 1360.4 | 1357.3 | 1336.9 | 1320.1 | 1322.9 |
| 42.5° | 1421.6 | 1424.4 | 1446.3 | 1464.6 | 1457.6 | 1456.1 | 1458.2 | 1459.1 | 1442.7 | 1422.2 | 1420.4 |
| 45°   | 1540.8 | 1543.3 | 1570.7 | 1585.3 | 1580.7 | 1570.7 | 1575.0 | 1582.3 | 1559.4 | 1534.1 | 1536.6 |
| 47.5° | 1676.8 | 1682.9 | 1712.1 | 1725.8 | 1714.6 | 1700.8 | 1709.1 | 1720.0 | 1693.2 | 1661.8 | 1660.3 |
| 50°   | 1827.9 | 1835.6 | 1874.6 | 1893.8 | 1882.5 | 1857.2 | 1870.9 | 1878.2 | 1839.5 | 1799.0 | 1795.6 |
| 52.5° | 1989.2 | 1996.8 | 2045.9 | 2085.5 | 2078.2 | 2038.9 | 2058.1 | 2050.5 | 2006.0 | 1951.4 | 1947.1 |
| 55°   | 2171.8 | 2174.8 | 2227.9 | 2291.9 | 2299.2 | 2270.2 | 2269.0 | 2256.5 | 2190.7 | 2127.6 | 2124.5 |
| 57.5° | 2359.5 | 2361.7 | 2430.3 | 2505.8 | 2540.3 | 2540.3 | 2506.2 | 2479.6 | 2392.2 | 2319.0 | 2311.4 |
| 60°   | 2562.2 | 2569.9 | 2645.8 | 2748.5 | 2828.9 | 2852.7 | 2792.4 | 2720.1 | 2625.0 | 2535.7 | 2526.9 |
| 62.5° | 2742.7 | 2751.5 | 2867.7 | 3020.7 | 3149.9 | 3236.5 | 3089.0 | 2971.3 | 2798.2 | 2654.9 | 2638.1 |
| 65°   | 2765.5 | 2789.3 | 2958.5 | 3235.6 | 3524.8 | 3697.7 | 3414.8 | 3124.9 | 2809.4 | 2610.4 | 2593.3 |
| 67.5° | 2525.7 | 2565.9 | 2794.5 | 3225.8 | 3823.5 | 4194.5 | 3623.0 | 3037.1 | 2607.0 | 2387.0 | 2368.1 |
| 70°   | 1940.7 | 1999.3 | 2262.9 | 2821.6 | 3772.0 | 4354.5 | 3492.5 | 2658.9 | 2173.6 | 1936.8 | 1910.2 |
| 72.5° | 1064.7 | 1088.8 | 1325.9 | 1932.2 | 3024.0 | 3700.4 | 2913.1 | 1966.0 | 1441.4 | 1172.9 | 1128.4 |
| 75°   | 337.7  | 346.3  | 467.0  | 790.7  | 1710.6 | 2451.0 | 1850.5 | 965.0  | 531.3  | 391.7  | 387.1  |
| 77.5° | 150.0  | 150.9  | 168.9  | 230.7  | 589.2  | 1241.8 | 707.8  | 262.7  | 181.1  | 158.2  | 163.4  |
| 80°   | 94.8   | 94.8   | 104.6  | 114.3  | 160.3  | 360.6  | 191.4  | 125.0  | 106.7  | 99.1   | 101.2  |
| 82.5° | 45.4   | 50.3   | 68.0   | 73.2   | 88.1   | 121.3  | 98.1   | 81.7   | 71.3   | 53.0   | 49.4   |
| 85°   | 29.9   | 25.0   | 43.0   | 48.5   | 51.2   | 58.2   | 57.0   | 54.0   | 46.6   | 26.5   | 29.6   |
| 87.5° | 13.4   | 12.8   | 22.3   | 20.4   | 19.2   | 14.6   | 21.9   | 27.1   | 26.2   | 13.1   | 13.1   |
| 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)