

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: P386716

Luminaire Tested: GAW-SA2B-830-U-5WQ

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386716  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2B-830-U-5WQ  
Description: GALLEON WALL LUMINAIRE  
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9983 lumens  
Efficiency: N/A  
Efficacy: 117.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

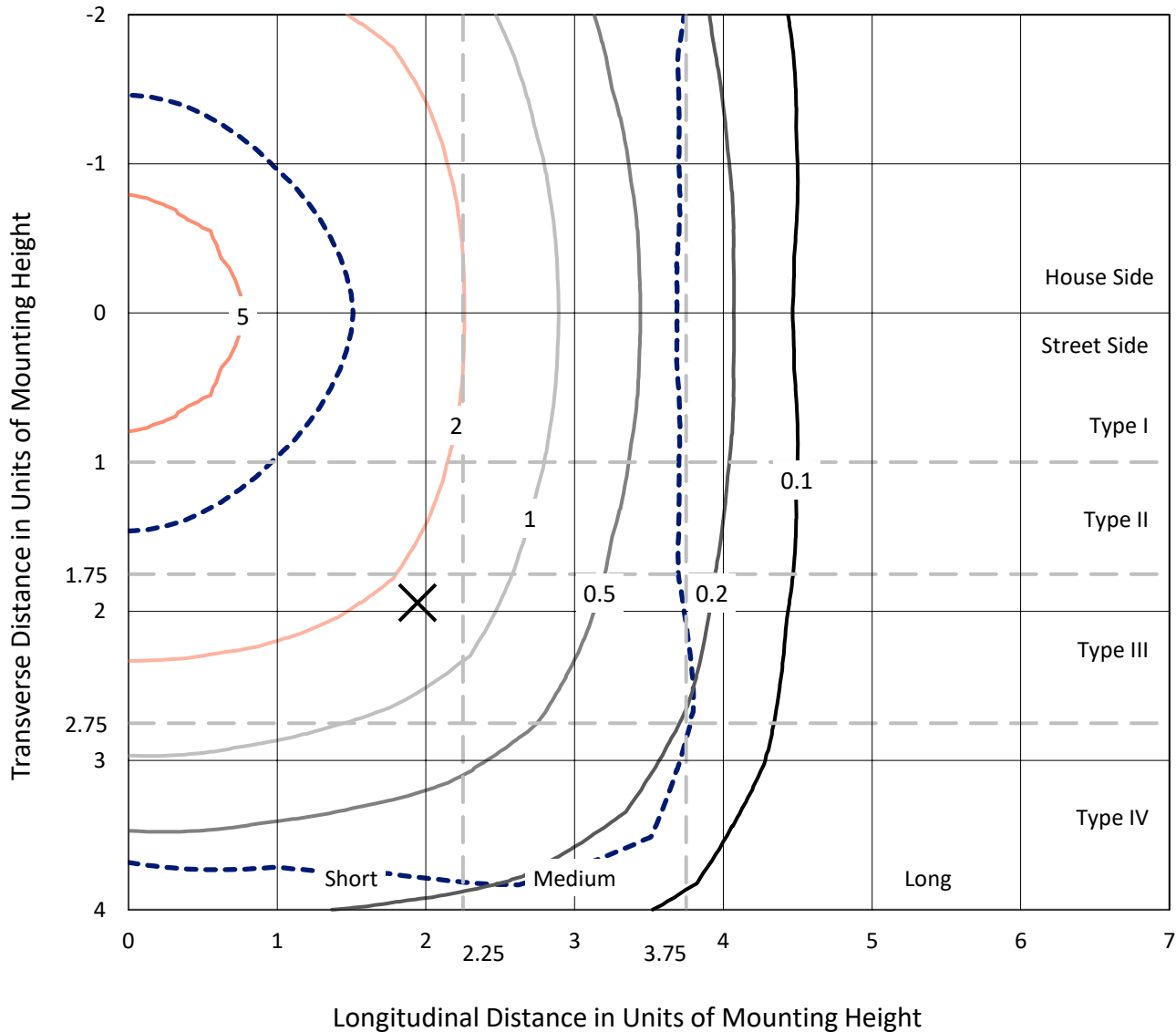
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

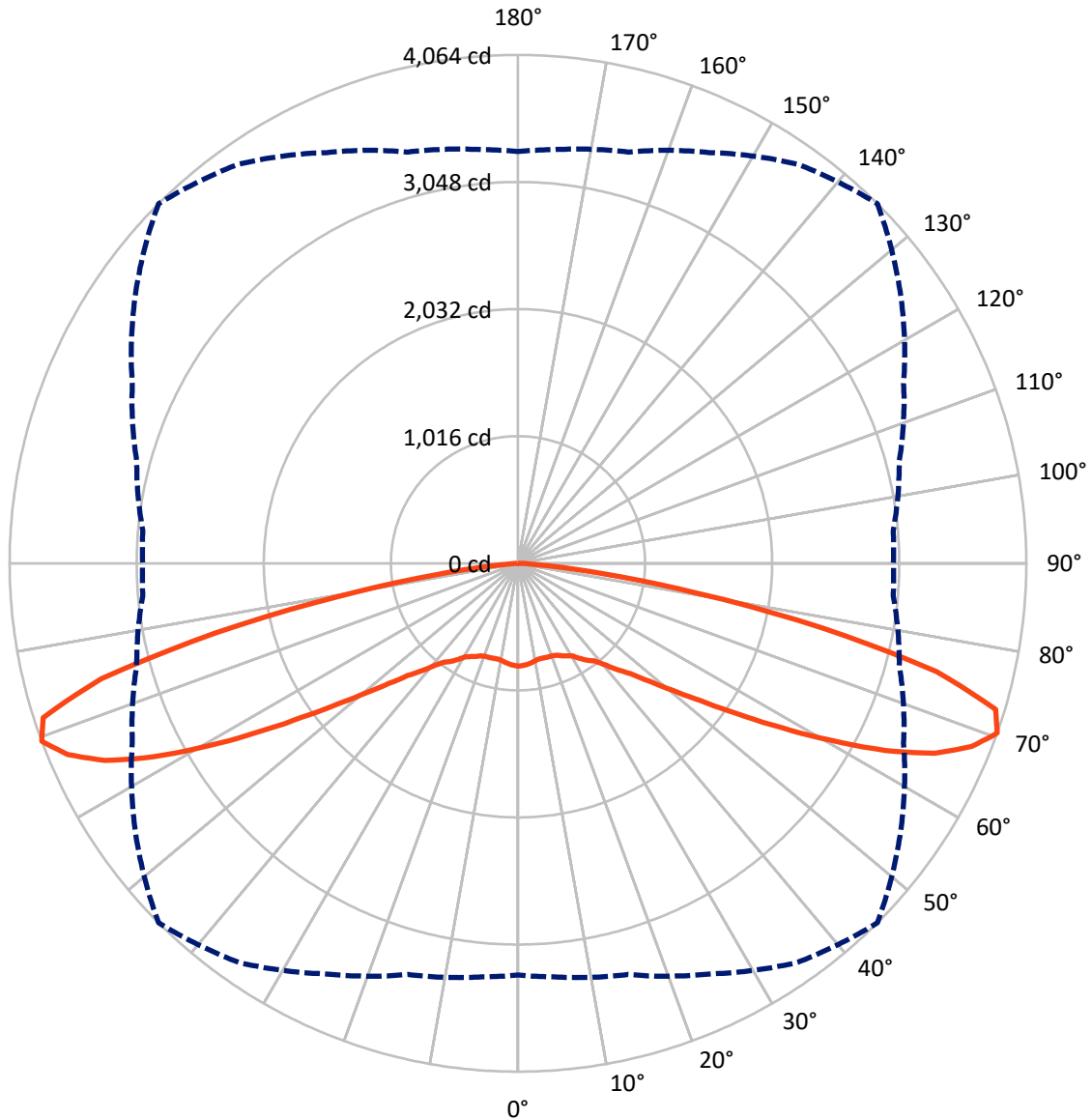
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.2 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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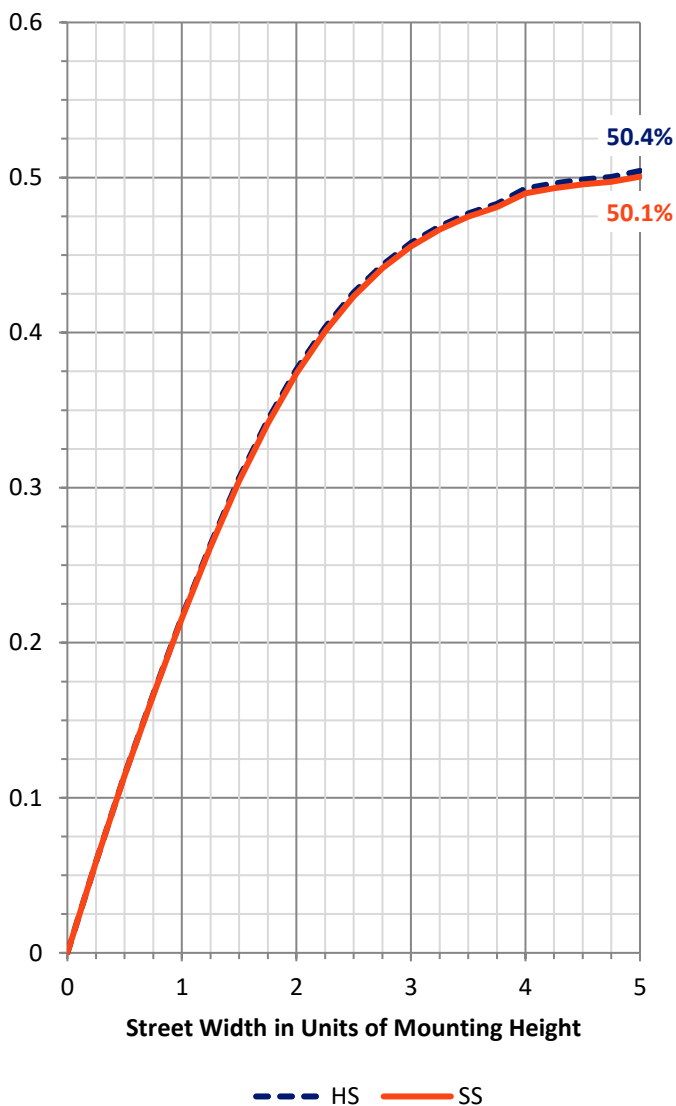
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4991.5   | 0.0    | 4991.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4991.5   | 0.0    | 4991.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 9983.0   | 0.0    | 9983.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 76.7   | 0.8       |
| 10°-20°   | 224.0  | 2.2       |
| 20°-30°   | 381.9  | 3.8       |
| 30°-40°   | 596.7  | 6.0       |
| 40°-50°   | 1011.3 | 10.1      |
| 50°-60°   | 1844.2 | 18.5      |
| 60°-70°   | 3175.0 | 31.8      |
| 70°-80°   | 2488.6 | 24.9      |
| 80°-90°   | 184.5  | 1.8       |
| 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°    | 9983.0 | 100.0     |
| 0°-180°   | 9983.0 | 100.0     |

**Coefficient of Utilization**



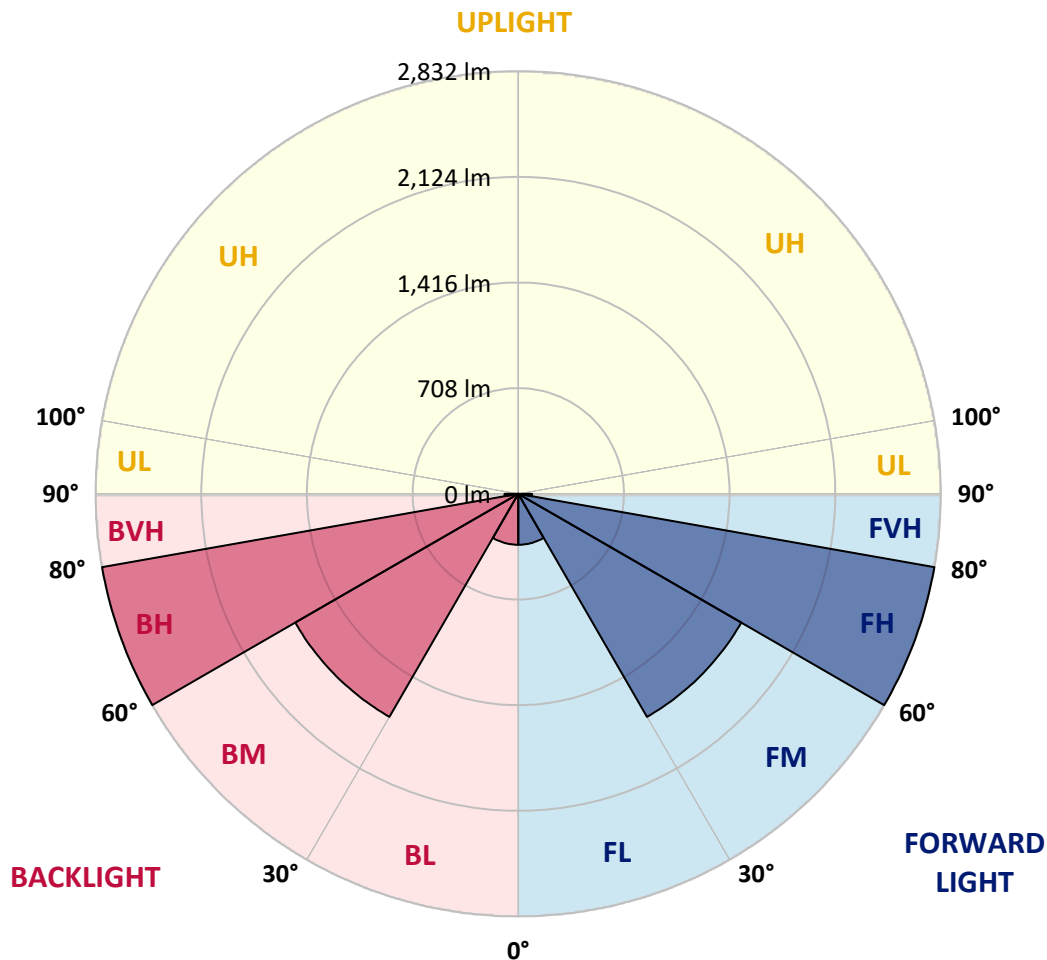
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 341.3  | 3.4       |                         |      |         |
| FM (30°-60°)   | 1726.1 | 17.3      |                         |      |         |
| FH (60°-80°)   | 2831.8 | 28.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 92.3   | 0.9       |                         |      | G1/100  |
| BL (0°-30°)    | 341.3  | 3.4       | B1/500                  |      |         |
| BM (30°-60°)   | 1726.1 | 17.3      | B2/2500                 |      |         |
| BH (60°-80°)   | 2831.8 | 28.4      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 92.3   | 0.9       |                         |      | G1/100  |
| 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°    | 821.6  | 821.6  | 821.6  | 821.6  | 821.6  | 821.6  | 821.6  | 821.6  | 821.6  | 821.6  | 821.6  |
| 2.5°  | 818.0  | 819.0  | 818.0  | 818.6  | 817.0  | 817.6  | 817.6  | 817.6  | 817.3  | 817.6  | 817.0  |
| 5°    | 810.7  | 811.4  | 810.0  | 810.7  | 809.7  | 810.7  | 811.0  | 810.7  | 810.0  | 810.4  | 809.1  |
| 7.5°  | 799.8  | 800.5  | 799.5  | 800.5  | 799.1  | 800.8  | 800.5  | 799.5  | 798.5  | 798.5  | 797.2  |
| 10°   | 793.9  | 794.2  | 791.6  | 790.6  | 787.6  | 788.2  | 789.2  | 790.2  | 791.2  | 793.2  | 792.9  |
| 12.5° | 794.2  | 794.2  | 790.2  | 785.9  | 781.6  | 782.6  | 784.3  | 787.9  | 791.9  | 795.5  | 795.8  |
| 15°   | 797.5  | 797.2  | 791.2  | 784.3  | 781.3  | 784.3  | 785.3  | 787.6  | 793.9  | 800.1  | 800.5  |
| 17.5° | 799.8  | 799.8  | 790.6  | 782.6  | 782.3  | 786.9  | 786.6  | 787.6  | 794.5  | 803.8  | 804.1  |
| 20°   | 804.1  | 804.1  | 792.2  | 783.6  | 783.6  | 788.6  | 788.9  | 790.6  | 797.5  | 807.7  | 809.4  |
| 22.5° | 813.7  | 814.0  | 801.5  | 794.5  | 795.2  | 798.2  | 799.1  | 801.8  | 808.1  | 819.3  | 821.3  |
| 25°   | 827.2  | 827.9  | 815.0  | 811.0  | 813.3  | 819.0  | 818.3  | 820.3  | 827.2  | 838.1  | 840.1  |
| 27.5° | 846.0  | 844.4  | 832.5  | 830.8  | 833.2  | 837.1  | 836.8  | 837.1  | 842.7  | 852.6  | 855.0  |
| 30°   | 870.5  | 869.8  | 861.2  | 862.2  | 861.2  | 859.9  | 860.2  | 862.9  | 865.9  | 873.8  | 876.1  |
| 32.5° | 894.3  | 894.9  | 889.6  | 894.6  | 901.8  | 906.8  | 899.2  | 891.9  | 888.6  | 892.9  | 894.9  |
| 35°   | 937.2  | 938.8  | 930.6  | 927.3  | 937.2  | 951.7  | 930.2  | 918.4  | 925.0  | 930.6  | 932.2  |
| 37.5° | 1010.2 | 1011.2 | 997.3  | 984.1  | 976.8  | 990.7  | 969.2  | 970.2  | 993.3  | 1003.9 | 1003.6 |
| 40°   | 1093.4 | 1093.7 | 1084.5 | 1072.9 | 1060.4 | 1063.7 | 1055.1 | 1057.7 | 1072.9 | 1082.5 | 1085.1 |
| 42.5° | 1192.4 | 1191.5 | 1176.9 | 1160.4 | 1156.8 | 1160.1 | 1145.6 | 1143.6 | 1161.1 | 1178.2 | 1178.6 |
| 45°   | 1320.9 | 1318.6 | 1299.8 | 1281.6 | 1264.1 | 1256.8 | 1253.2 | 1262.8 | 1286.9 | 1302.7 | 1303.1 |
| 47.5° | 1459.3 | 1453.0 | 1443.1 | 1428.6 | 1413.4 | 1406.1 | 1400.2 | 1404.8 | 1422.3 | 1428.6 | 1429.2 |
| 50°   | 1601.6 | 1602.9 | 1604.9 | 1599.3 | 1593.7 | 1591.4 | 1575.8 | 1566.9 | 1572.2 | 1560.6 | 1559.0 |
| 52.5° | 1770.3 | 1773.0 | 1792.1 | 1808.3 | 1817.9 | 1822.8 | 1793.5 | 1762.7 | 1745.6 | 1723.1 | 1716.5 |
| 55°   | 1969.5 | 1973.8 | 2001.8 | 2046.7 | 2093.0 | 2117.4 | 2064.2 | 2006.8 | 1953.6 | 1911.7 | 1898.1 |
| 57.5° | 2191.4 | 2199.0 | 2237.6 | 2323.8 | 2418.6 | 2476.4 | 2386.5 | 2282.2 | 2179.5 | 2119.1 | 2108.5 |
| 60°   | 2451.6 | 2458.9 | 2512.4 | 2635.9 | 2789.4 | 2876.3 | 2740.2 | 2569.5 | 2441.7 | 2383.9 | 2364.4 |
| 62.5° | 2761.3 | 2762.0 | 2827.7 | 2972.0 | 3174.8 | 3295.7 | 3111.4 | 2883.2 | 2751.4 | 2681.8 | 2662.9 |
| 65°   | 3094.5 | 3096.2 | 3164.2 | 3320.1 | 3529.8 | 3661.2 | 3453.2 | 3215.4 | 3054.3 | 2951.6 | 2937.0 |
| 67.5° | 3330.0 | 3336.9 | 3408.6 | 3596.2 | 3792.3 | 3910.9 | 3695.6 | 3426.8 | 3240.5 | 3118.0 | 3105.8 |
| 70°   | 3292.4 | 3319.4 | 3403.6 | 3622.6 | 3895.3 | 4064.4 | 3734.9 | 3401.7 | 3156.0 | 3011.3 | 3001.1 |
| 72.5° | 2871.3 | 2923.2 | 3035.4 | 3322.7 | 3759.0 | 3991.8 | 3520.5 | 3046.7 | 2768.6 | 2645.4 | 2626.9 |
| 75°   | 1955.3 | 2039.5 | 2208.9 | 2623.3 | 3211.4 | 3456.1 | 2963.8 | 2429.1 | 2167.6 | 1997.2 | 1984.7 |
| 77.5° | 871.8  | 890.9  | 1105.6 | 1582.8 | 2216.1 | 2482.0 | 2153.4 | 1589.0 | 1192.8 | 951.4  | 900.5  |
| 80°   | 243.0  | 246.0  | 328.2  | 589.5  | 1109.2 | 1458.3 | 1190.8 | 619.2  | 348.1  | 245.4  | 231.2  |
| 82.5° | 77.3   | 83.9   | 102.4  | 152.9  | 372.8  | 665.4  | 382.7  | 165.1  | 117.6  | 93.8   | 84.5   |
| 85°   | 37.6   | 37.3   | 51.8   | 62.1   | 95.1   | 147.3  | 101.4  | 76.6   | 67.0   | 44.6   | 40.3   |
| 87.5° | 15.9   | 16.2   | 24.1   | 21.8   | 27.7   | 23.8   | 32.7   | 34.3   | 36.0   | 19.8   | 17.2   |
| 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)