

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: P528095

Luminaire Tested: **GLAN-SA3A-830-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528095  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA3A-830-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5659 lumens  
Efficiency: N/A  
Efficacy: 60.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G0

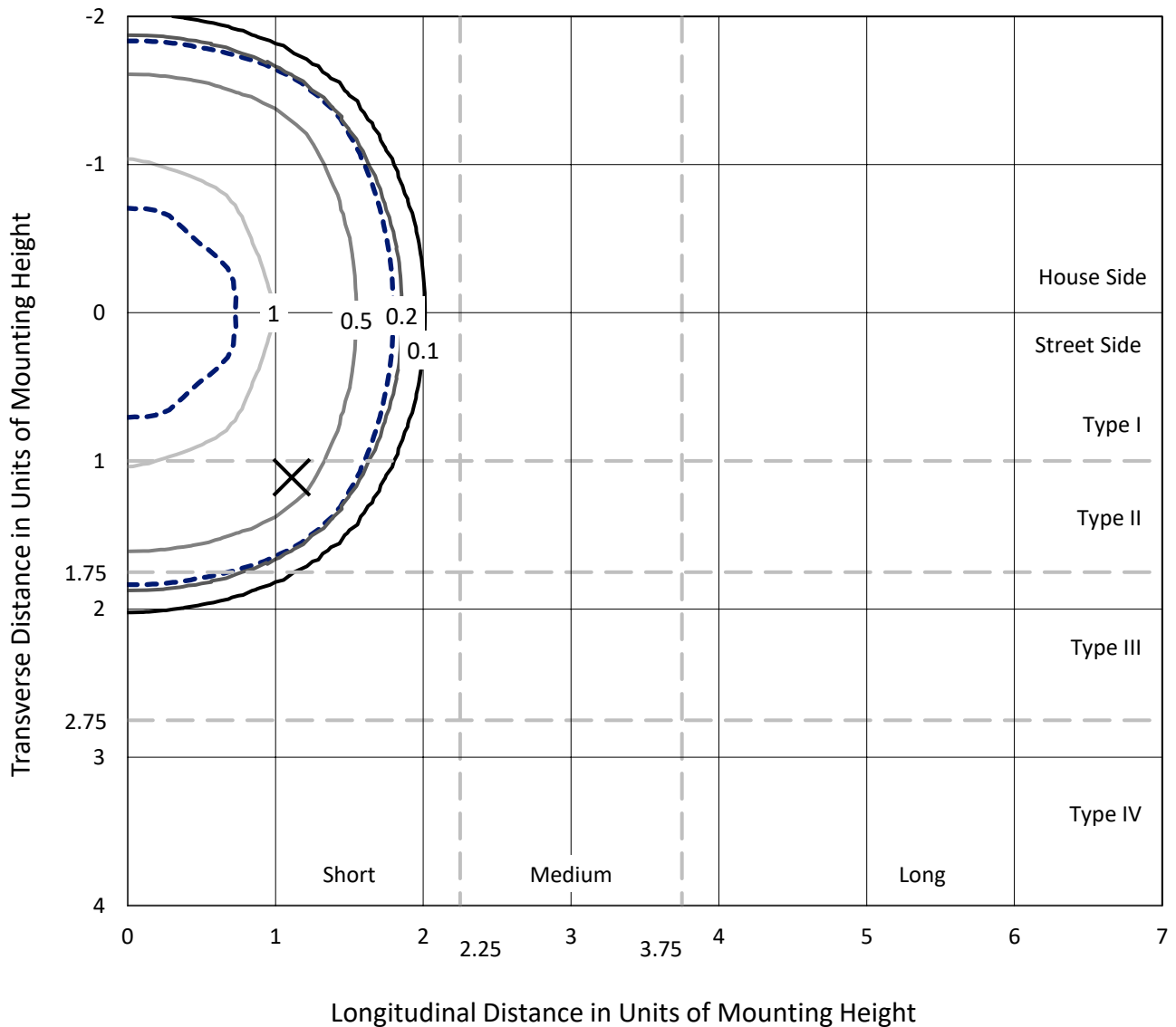
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

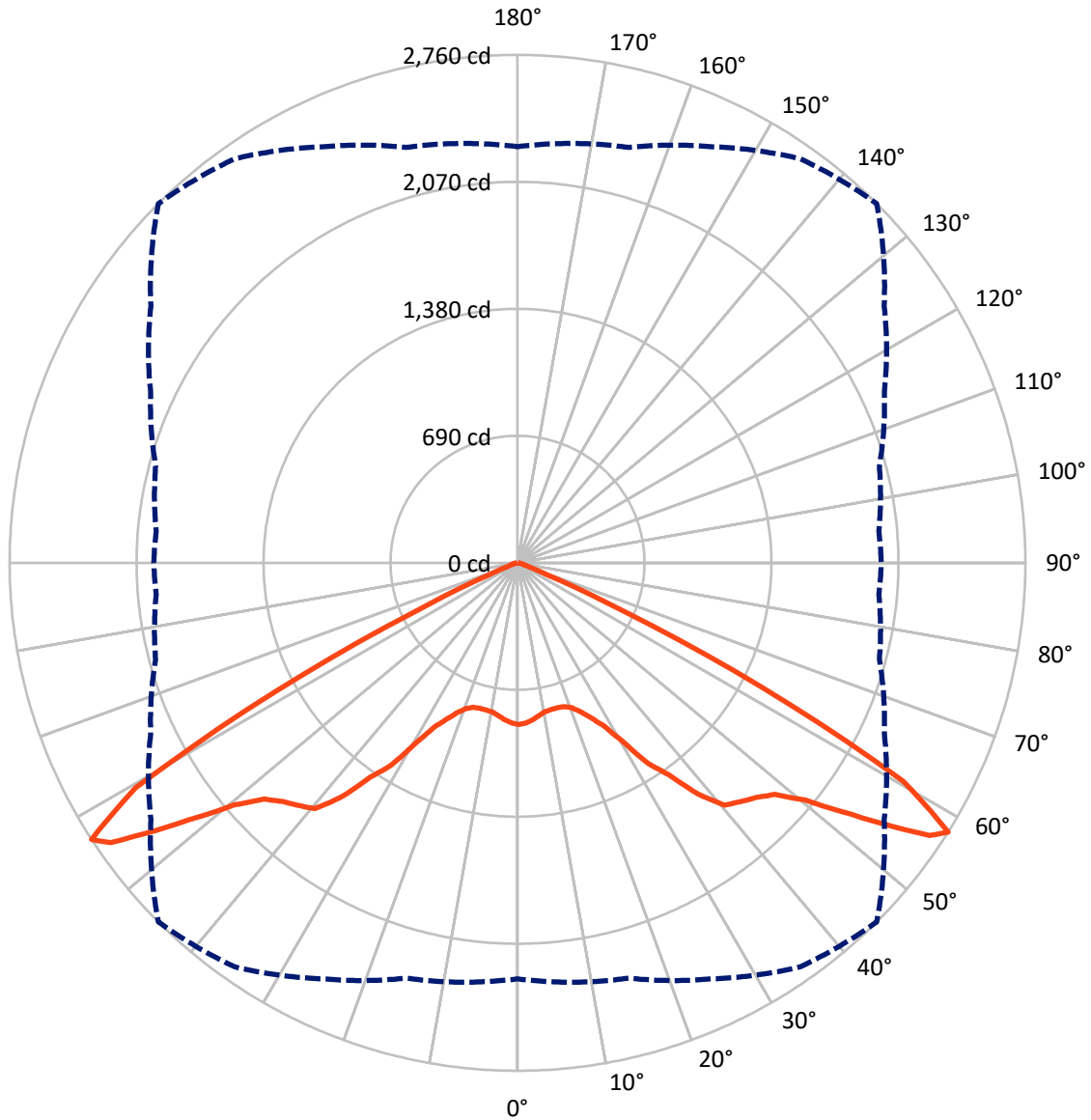
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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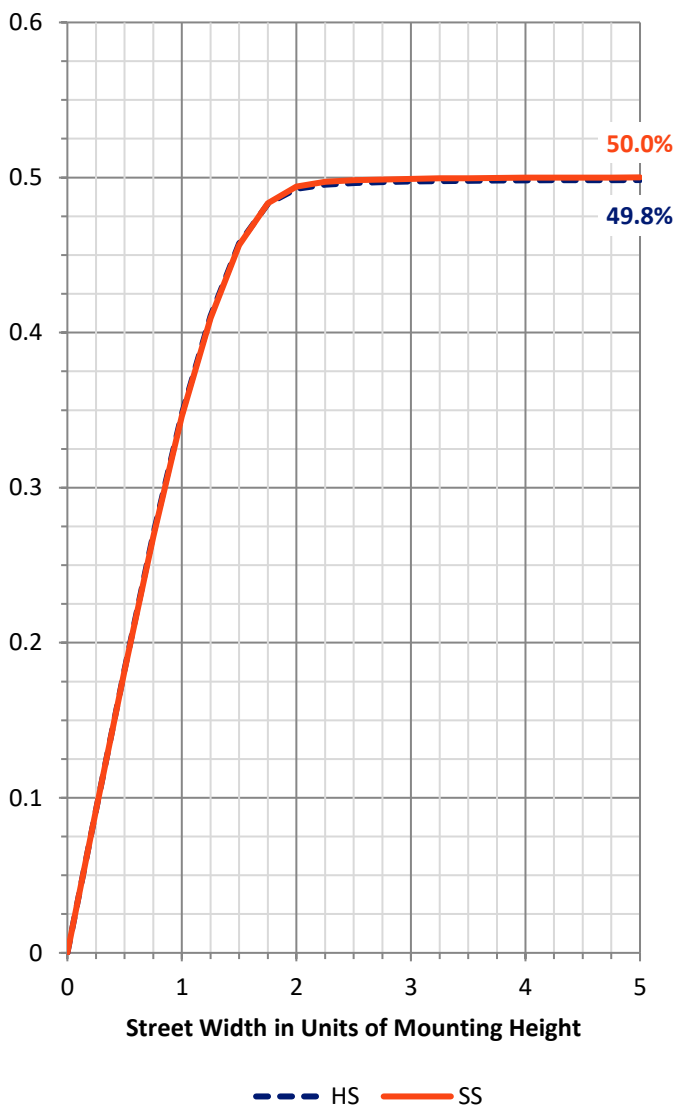
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2829.5   | 0.0    | 2829.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2829.5   | 0.0    | 2829.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5659.0   | 0.0    | 5659.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 80.7   | 1.4       |
| 10°-20°   | 233.2  | 4.1       |
| 20°-30°   | 430.4  | 7.6       |
| 30°-40°   | 846.4  | 15.0      |
| 40°-50°   | 1378.5 | 24.4      |
| 50°-60°   | 1965.9 | 34.7      |
| 60°-70°   | 680.7  | 12.0      |
| 70°-80°   | 36.5   | 0.6       |
| 80°-90°   | 6.9    | 0.1       |
| 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°    | 5659.0 | 100.0     |
| 0°-180°   | 5659.0 | 100.0     |

**Coefficient of Utilization**

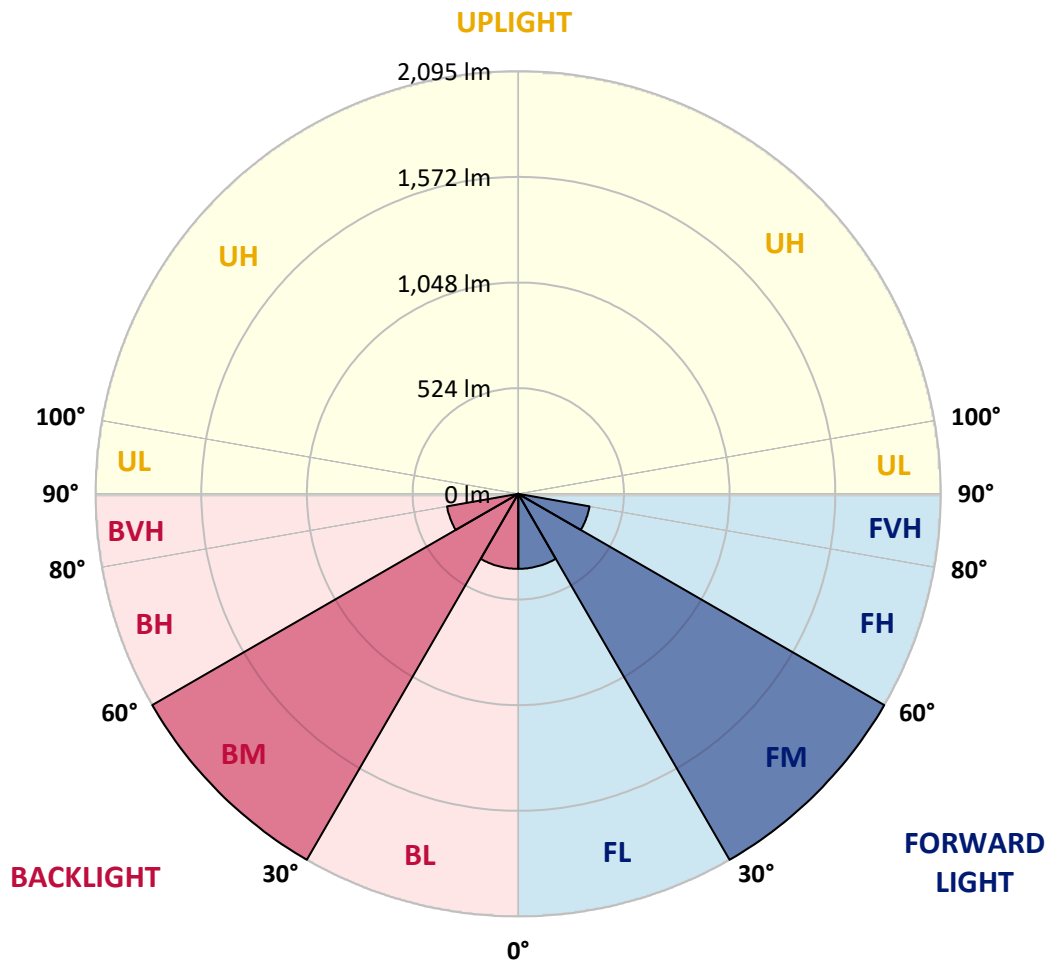


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 372.1  | 6.6       |                         |      |        |
| FM (30°-60°)   | 2095.4 | 37.0      |                         |      |        |
| FH (60°-80°)   | 358.6  | 6.3       |                         |      | G0/660 |
| FVH (80°-90°)  | 3.4    | 0.1       |                         |      | G0/10  |
| BL (0°-30°)    | 372.1  | 6.6       | B1/500                  |      |        |
| BM (30°-60°)   | 2095.4 | 37.0      | B2/2500                 |      |        |
| BH (60°-80°)   | 358.6  | 6.3       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 3.4    | 0.1       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G0**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 877.8  | 877.8  | 877.8  | 877.8  | 877.8  | 877.8  | 877.8  | 877.8  | 877.8  | 877.8  | 877.8  |
| 2.5°  | 875.4  | 880.1  | 874.2  | 871.9  | 870.7  | 870.7  | 867.2  | 867.2  | 866.0  | 867.2  | 862.4  |
| 5°    | 861.3  | 866.0  | 866.0  | 864.8  | 857.7  | 856.5  | 853.0  | 850.6  | 851.8  | 847.1  | 850.6  |
| 7.5°  | 847.1  | 850.6  | 845.9  | 844.7  | 842.4  | 837.7  | 836.5  | 825.9  | 827.0  | 827.0  | 829.4  |
| 10°   | 844.7  | 843.6  | 836.5  | 830.6  | 823.5  | 822.3  | 818.8  | 816.4  | 816.4  | 815.2  | 818.8  |
| 12.5° | 844.7  | 838.8  | 837.7  | 824.7  | 812.9  | 817.6  | 808.2  | 802.3  | 810.5  | 812.9  | 817.6  |
| 15°   | 843.6  | 849.5  | 829.4  | 823.5  | 815.2  | 816.4  | 808.2  | 802.3  | 807.0  | 809.3  | 812.9  |
| 17.5° | 850.6  | 847.1  | 841.2  | 829.4  | 825.9  | 821.1  | 810.5  | 805.8  | 805.8  | 811.7  | 812.9  |
| 20°   | 869.5  | 860.1  | 848.3  | 842.4  | 845.9  | 840.0  | 827.0  | 809.3  | 814.1  | 818.8  | 822.3  |
| 22.5° | 887.2  | 880.1  | 871.9  | 868.3  | 888.4  | 878.9  | 856.5  | 836.5  | 829.4  | 837.7  | 843.6  |
| 25°   | 921.4  | 921.4  | 906.1  | 910.8  | 933.2  | 934.4  | 908.4  | 873.1  | 868.3  | 871.9  | 874.2  |
| 27.5° | 991.0  | 994.6  | 981.6  | 986.3  | 995.8  | 1004.0 | 981.6  | 952.1  | 941.5  | 940.3  | 943.8  |
| 30°   | 1066.5 | 1073.6 | 1072.4 | 1092.5 | 1119.6 | 1124.3 | 1091.3 | 1042.9 | 1011.1 | 1005.2 | 1009.9 |
| 32.5° | 1165.6 | 1169.2 | 1166.8 | 1190.4 | 1263.6 | 1297.8 | 1211.7 | 1143.2 | 1100.8 | 1111.4 | 1100.8 |
| 35°   | 1352.0 | 1348.5 | 1322.6 | 1327.3 | 1387.4 | 1412.2 | 1329.6 | 1286.0 | 1265.9 | 1287.2 | 1282.4 |
| 37.5° | 1512.5 | 1499.5 | 1478.3 | 1509.0 | 1571.5 | 1593.9 | 1507.8 | 1431.1 | 1394.5 | 1429.9 | 1445.3 |
| 40°   | 1648.2 | 1615.1 | 1585.6 | 1616.3 | 1700.1 | 1730.8 | 1604.5 | 1542.0 | 1527.8 | 1553.8 | 1586.8 |
| 42.5° | 1762.6 | 1741.4 | 1702.4 | 1704.8 | 1760.3 | 1774.4 | 1673.0 | 1636.4 | 1622.2 | 1663.5 | 1680.0 |
| 45°   | 1844.0 | 1824.0 | 1787.4 | 1785.0 | 1827.5 | 1818.1 | 1727.2 | 1702.4 | 1710.7 | 1737.8 | 1746.1 |
| 47.5° | 1885.3 | 1895.9 | 1874.7 | 1880.6 | 1903.0 | 1880.6 | 1808.6 | 1808.6 | 1789.8 | 1806.3 | 1798.0 |
| 50°   | 2004.5 | 1971.4 | 1998.6 | 1998.6 | 2022.2 | 2024.5 | 1952.6 | 1926.6 | 1875.9 | 1847.6 | 1847.6 |
| 52.5° | 2143.7 | 2146.1 | 2156.7 | 2195.6 | 2235.7 | 2269.9 | 2167.3 | 2056.4 | 1971.4 | 1934.9 | 1930.2 |
| 55°   | 2258.1 | 2281.7 | 2324.2 | 2397.4 | 2513.0 | 2560.2 | 2383.2 | 2185.0 | 2081.2 | 2024.5 | 2012.7 |
| 56°   | 2320.7 | 2298.2 | 2371.4 | 2471.7 | 2622.7 | 2684.0 | 2418.6 | 2210.9 | 2096.5 | 2032.8 | 2031.6 |
| 57.5° | 2260.5 | 2285.3 | 2336.0 | 2494.1 | 2679.3 | 2759.5 | 2431.6 | 2199.1 | 2035.2 | 1970.3 | 1976.2 |
| 60°   | 1785.0 | 1808.6 | 1877.1 | 2054.0 | 2344.3 | 2406.8 | 2057.6 | 1813.4 | 1667.1 | 1573.9 | 1575.0 |
| 62.5° | 1009.9 | 1027.6 | 1080.7 | 1244.7 | 1425.2 | 1485.4 | 1282.4 | 1119.6 | 1018.2 | 966.3  | 949.7  |
| 65°   | 371.6  | 364.6  | 372.8  | 456.6  | 567.5  | 618.2  | 533.3  | 450.7  | 397.6  | 378.7  | 371.6  |
| 67.5° | 139.2  | 128.6  | 120.3  | 128.6  | 161.6  | 171.1  | 156.9  | 131.0  | 122.7  | 126.2  | 128.6  |
| 70°   | 86.1   | 81.4   | 64.9   | 61.3   | 60.2   | 59.0   | 62.5   | 66.1   | 75.5   | 88.5   | 90.8   |
| 72.5° | 60.2   | 56.6   | 46.0   | 43.7   | 41.3   | 40.1   | 46.0   | 50.7   | 59.0   | 68.4   | 69.6   |
| 75°   | 23.6   | 24.8   | 23.6   | 26.0   | 27.1   | 28.3   | 33.0   | 36.6   | 40.1   | 40.1   | 38.9   |
| 77.5° | 4.7    | 4.7    | 7.1    | 9.4    | 11.8   | 15.3   | 22.4   | 26.0   | 27.1   | 26.0   | 22.4   |
| 80°   | 0.0    | 0.0    | 2.4    | 4.7    | 9.4    | 13.0   | 20.1   | 22.4   | 24.8   | 22.4   | 17.7   |
| 82.5° | 0.0    | 0.0    | 2.4    | 5.9    | 9.4    | 11.8   | 18.9   | 23.6   | 27.1   | 24.8   | 18.9   |
| 85°   | 0.0    | 0.0    | 2.4    | 4.7    | 7.1    | 8.3    | 8.3    | 5.9    | 5.9    | 3.5    | 2.4    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)