

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: P528096

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528096  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)  
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-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9204 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

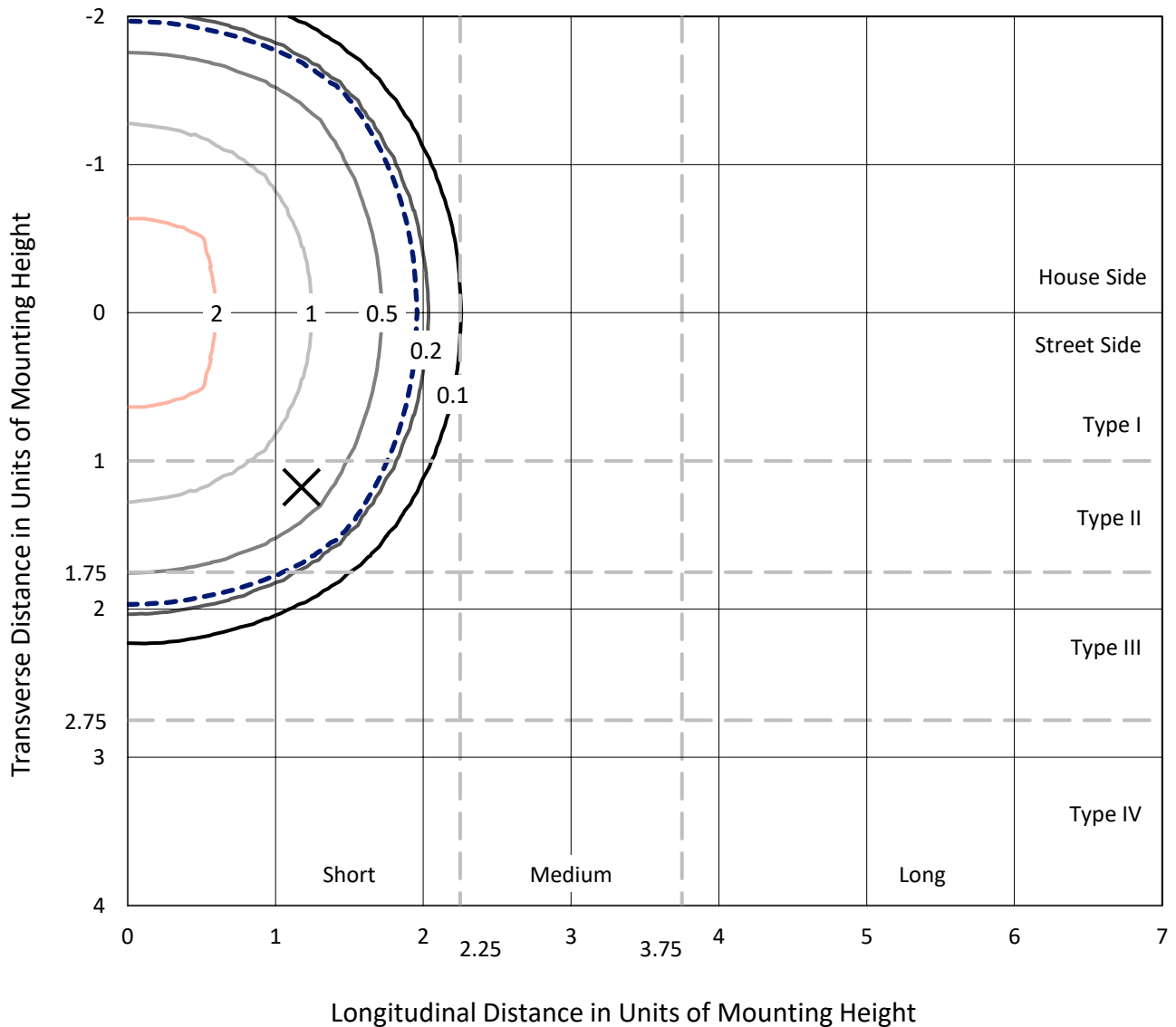
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

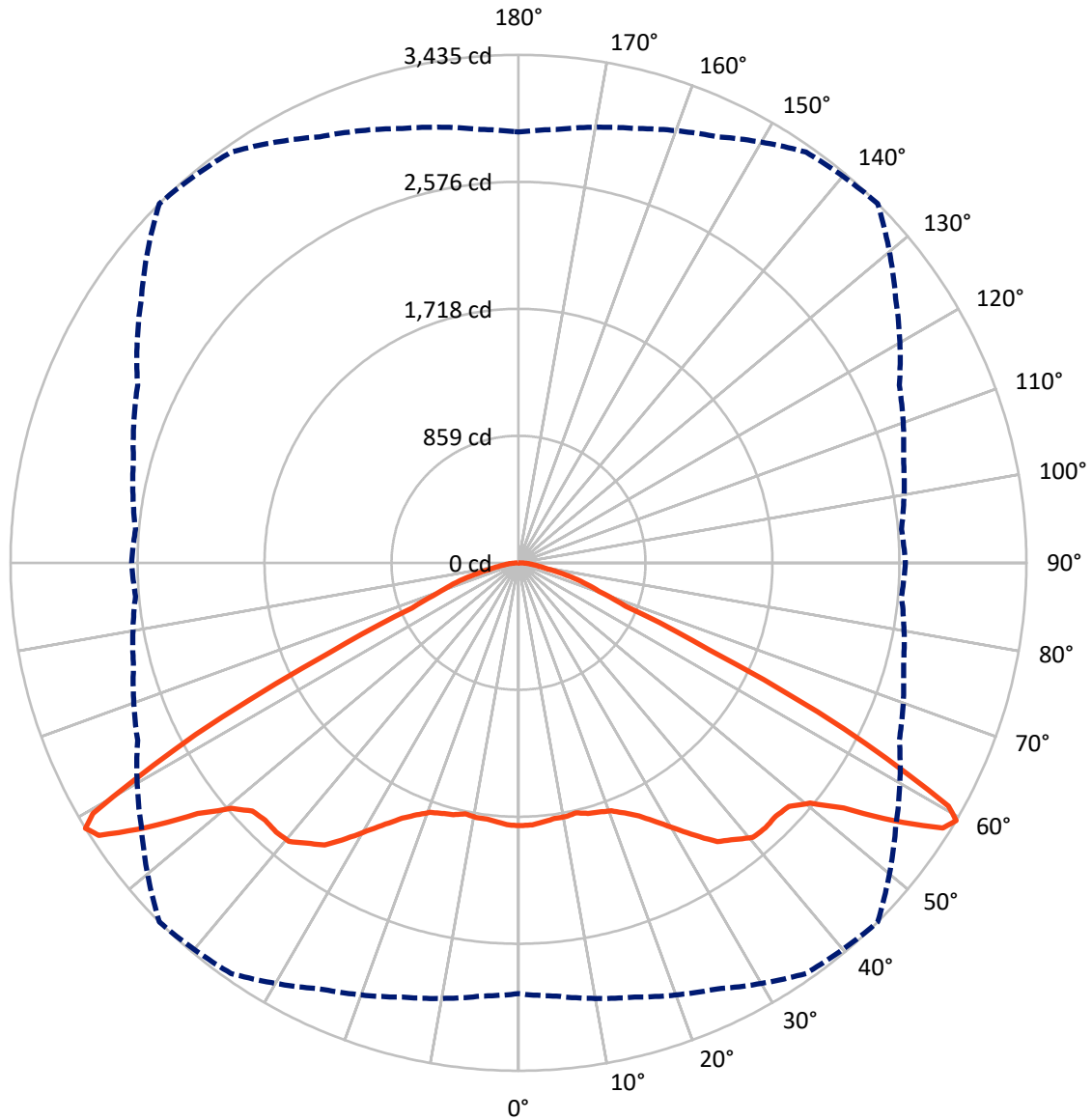
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 59-Deg Vertical

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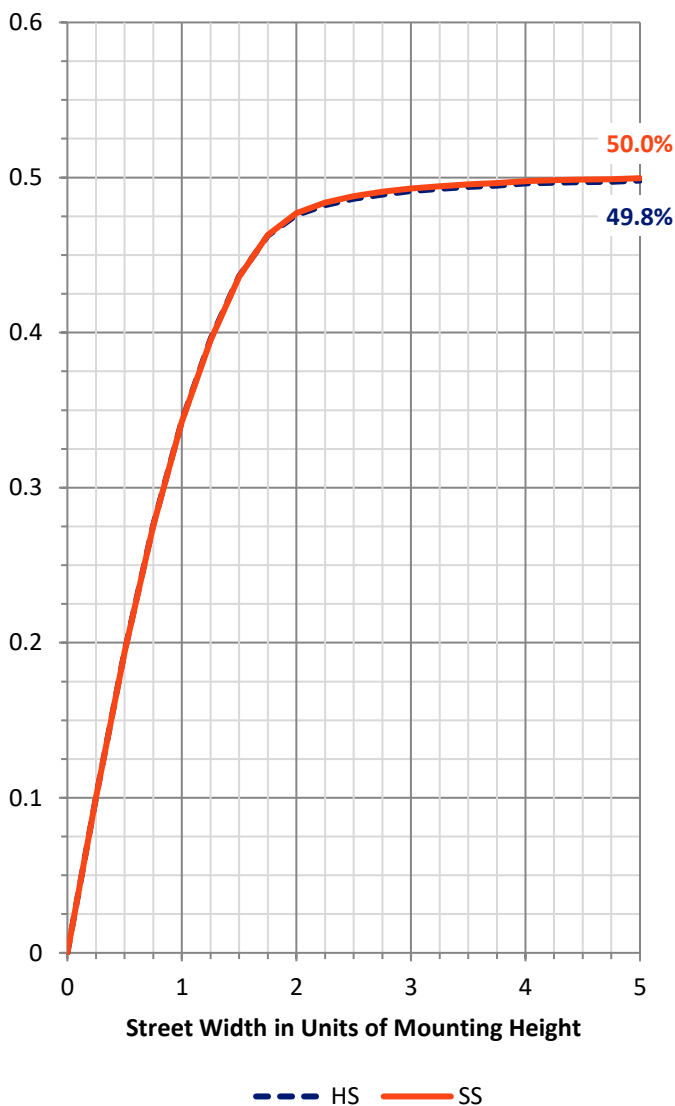
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4602.0   | 0.0    | 4602.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4602.0   | 0.0    | 4602.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 9204.0   | 0.0    | 9204.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 167.6  | 1.8       |
| 10°-20°   | 498.4  | 5.4       |
| 20°-30°   | 870.2  | 9.5       |
| 30°-40°   | 1389.9 | 15.1      |
| 40°-50°   | 1893.3 | 20.6      |
| 50°-60°   | 2560.2 | 27.8      |
| 60°-70°   | 1404.0 | 15.3      |
| 70°-80°   | 359.2  | 3.9       |
| 80°-90°   | 61.3   | 0.7       |
| 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°    | 9204.0 | 100.0     |
| 0°-180°   | 9204.0 | 100.0     |

**Coefficient of Utilization**



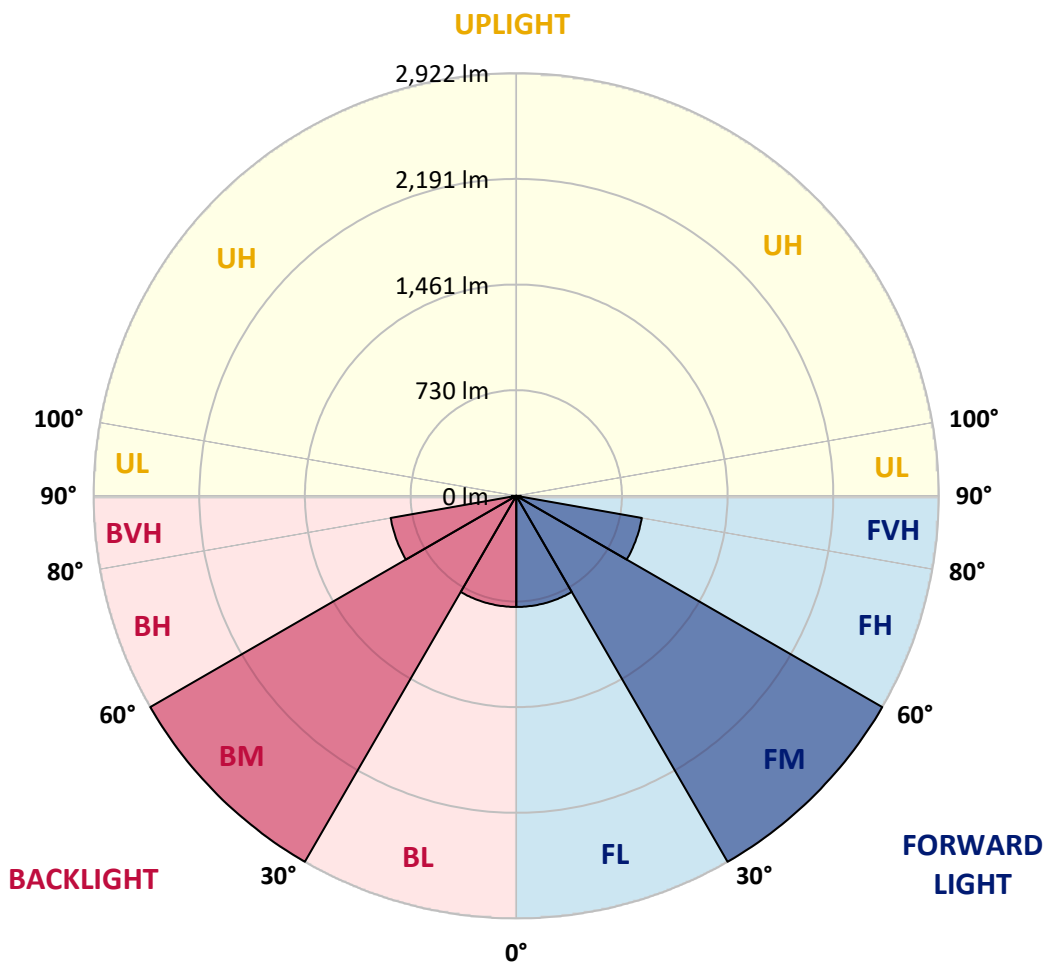
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 768.1  | 8.3       |                         |      |         |
| FM (30°-60°)   | 2921.7 | 31.7      |                         |      |         |
| FH (60°-80°)   | 881.6  | 9.6       |                         |      | G1/1800 |
| FVH (80°-90°)  | 30.6   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 768.1  | 8.3       | B2/1000                 |      |         |
| BM (30°-60°)   | 2921.7 | 31.7      | B3/5000                 |      |         |
| BH (60°-80°)   | 881.6  | 9.6       | B2/1000                 |      | G1/1800 |
| BVH (80°-90°)  | 30.6   | 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°    | 1777.8 | 1777.8 | 1777.8 | 1777.8 | 1777.8 | 1777.8 | 1777.8 | 1777.8 | 1777.8 | 1777.8 | 1777.8 |
| 2.5°  | 1767.2 | 1780.1 | 1770.7 | 1779.0 | 1777.8 | 1774.2 | 1768.3 | 1764.8 | 1760.1 | 1767.2 | 1755.4 |
| 5°    | 1760.1 | 1770.7 | 1781.3 | 1767.2 | 1767.2 | 1760.1 | 1756.5 | 1749.5 | 1749.5 | 1748.3 | 1747.1 |
| 7.5°  | 1771.9 | 1761.3 | 1756.5 | 1758.9 | 1761.3 | 1745.9 | 1756.5 | 1742.4 | 1730.6 | 1738.8 | 1748.3 |
| 10°   | 1761.3 | 1766.0 | 1748.3 | 1756.5 | 1743.6 | 1745.9 | 1738.8 | 1748.3 | 1735.3 | 1735.3 | 1735.3 |
| 12.5° | 1771.9 | 1758.9 | 1764.8 | 1758.9 | 1755.4 | 1735.3 | 1744.7 | 1734.1 | 1732.9 | 1744.7 | 1734.1 |
| 15°   | 1793.1 | 1771.9 | 1767.2 | 1755.4 | 1758.9 | 1758.9 | 1749.5 | 1750.6 | 1737.7 | 1744.7 | 1747.1 |
| 17.5° | 1786.0 | 1774.2 | 1770.7 | 1756.5 | 1768.3 | 1771.9 | 1754.2 | 1742.4 | 1750.6 | 1749.5 | 1748.3 |
| 20°   | 1791.9 | 1796.6 | 1793.1 | 1795.5 | 1800.2 | 1790.7 | 1774.2 | 1757.7 | 1747.1 | 1762.4 | 1761.3 |
| 22.5° | 1829.7 | 1825.0 | 1822.6 | 1820.2 | 1828.5 | 1837.9 | 1815.5 | 1789.6 | 1789.6 | 1800.2 | 1804.9 |
| 25°   | 1860.4 | 1859.2 | 1858.0 | 1868.6 | 1896.9 | 1896.9 | 1868.6 | 1835.6 | 1827.3 | 1834.4 | 1828.5 |
| 27.5° | 1905.2 | 1918.2 | 1913.4 | 1932.3 | 1973.6 | 1983.0 | 1945.3 | 1906.4 | 1883.9 | 1875.7 | 1886.3 |
| 30°   | 2007.8 | 1992.5 | 1996.0 | 2016.1 | 2052.6 | 2083.3 | 2025.5 | 1984.2 | 1953.5 | 1952.4 | 1957.1 |
| 32.5° | 2076.2 | 2088.0 | 2098.6 | 2117.5 | 2175.3 | 2198.9 | 2129.3 | 2062.1 | 2043.2 | 2032.6 | 2036.1 |
| 35°   | 2213.1 | 2202.5 | 2200.1 | 2219.0 | 2276.8 | 2315.7 | 2228.4 | 2169.4 | 2144.7 | 2168.2 | 2168.2 |
| 37.5° | 2342.8 | 2313.3 | 2290.9 | 2315.7 | 2368.8 | 2373.5 | 2299.2 | 2267.3 | 2254.4 | 2281.5 | 2280.3 |
| 40°   | 2404.2 | 2401.8 | 2349.9 | 2364.1 | 2434.9 | 2441.9 | 2372.3 | 2334.6 | 2332.2 | 2367.6 | 2403.0 |
| 42.5° | 2467.9 | 2445.5 | 2393.6 | 2403.0 | 2446.6 | 2449.0 | 2382.9 | 2372.3 | 2398.3 | 2432.5 | 2434.9 |
| 45°   | 2478.5 | 2459.6 | 2426.6 | 2403.0 | 2434.9 | 2441.9 | 2403.0 | 2410.1 | 2412.4 | 2453.7 | 2453.7 |
| 47.5° | 2499.7 | 2497.4 | 2478.5 | 2460.8 | 2466.7 | 2460.8 | 2436.0 | 2446.6 | 2482.0 | 2502.1 | 2492.7 |
| 50°   | 2558.7 | 2533.9 | 2552.8 | 2537.5 | 2538.7 | 2555.2 | 2532.8 | 2543.4 | 2536.3 | 2518.6 | 2506.8 |
| 52.5° | 2688.5 | 2676.7 | 2693.2 | 2703.8 | 2715.6 | 2753.4 | 2727.4 | 2670.8 | 2617.7 | 2570.5 | 2569.3 |
| 55°   | 2878.4 | 2886.7 | 2918.5 | 2972.8 | 3018.8 | 3079.0 | 2953.9 | 2818.2 | 2733.3 | 2659.0 | 2663.7 |
| 57.5° | 3057.7 | 3051.8 | 3095.5 | 3219.3 | 3353.8 | 3384.5 | 3139.1 | 2945.7 | 2807.6 | 2760.4 | 2740.4 |
| 59°   | 2913.8 | 2942.1 | 3041.2 | 3179.2 | 3390.4 | 3435.2 | 3114.3 | 2841.8 | 2695.6 | 2600.0 | 2616.5 |
| 60°   | 2687.3 | 2697.9 | 2786.4 | 2978.7 | 3264.2 | 3340.8 | 2948.0 | 2681.4 | 2486.8 | 2431.3 | 2456.1 |
| 62.5° | 1899.3 | 1891.0 | 1954.7 | 2111.6 | 2367.6 | 2471.4 | 2191.8 | 2004.3 | 1881.6 | 1820.2 | 1834.4 |
| 65°   | 1009.8 | 1047.6 | 1073.5 | 1171.4 | 1307.1 | 1416.8 | 1301.2 | 1219.8 | 1151.4 | 1100.6 | 1099.5 |
| 67.5° | 681.9  | 677.1  | 683.0  | 705.4  | 751.5  | 782.1  | 779.8  | 738.5  | 732.6  | 723.1  | 733.8  |
| 70°   | 574.5  | 572.1  | 561.5  | 561.5  | 571.0  | 578.0  | 586.3  | 591.0  | 600.5  | 612.3  | 611.1  |
| 72.5° | 466.0  | 460.1  | 453.0  | 449.5  | 461.3  | 464.8  | 475.4  | 480.1  | 488.4  | 487.2  | 497.8  |
| 75°   | 307.9  | 307.9  | 316.2  | 325.6  | 329.1  | 336.2  | 337.4  | 351.5  | 351.5  | 353.9  | 344.5  |
| 77.5° | 172.2  | 167.5  | 173.4  | 182.8  | 191.1  | 204.1  | 217.1  | 227.7  | 233.6  | 231.2  | 231.2  |
| 80°   | 100.3  | 100.3  | 106.2  | 116.8  | 127.4  | 139.2  | 148.6  | 156.9  | 162.8  | 160.4  | 155.7  |
| 82.5° | 62.5   | 62.5   | 68.4   | 79.0   | 87.3   | 94.4   | 107.4  | 118.0  | 125.0  | 122.7  | 116.8  |
| 85°   | 31.9   | 31.9   | 38.9   | 46.0   | 56.6   | 61.3   | 60.2   | 55.4   | 54.3   | 48.4   | 48.4   |
| 87.5° | 8.3    | 8.3    | 11.8   | 13.0   | 10.6   | 11.8   | 11.8   | 11.8   | 11.8   | 11.8   | 13.0   |
| 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)