

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: McGRAW-EDISON

Report Number: P316266

Luminaire Tested: **GLEON-SA2A-827-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316266  
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 (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2A-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7383 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

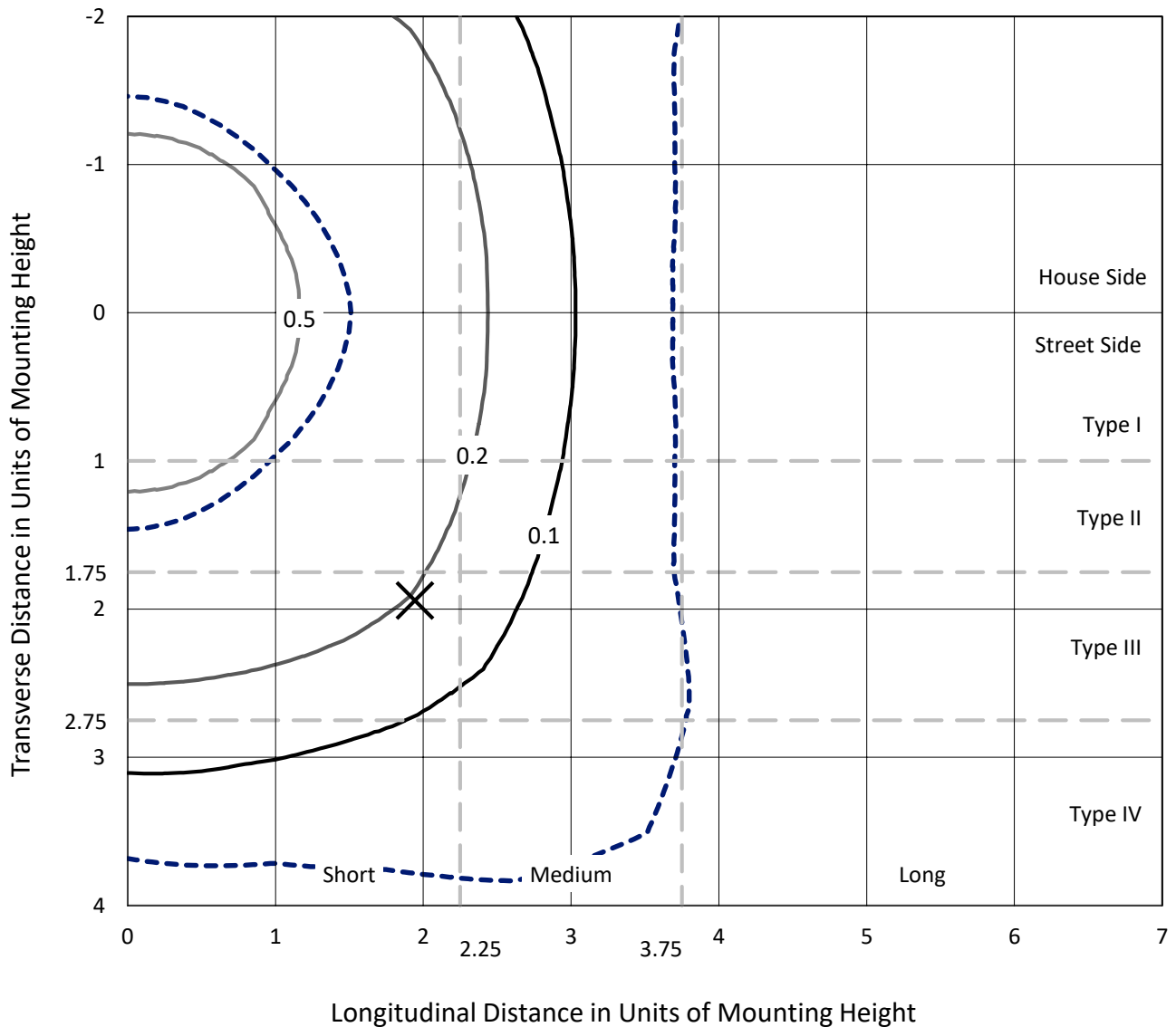
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

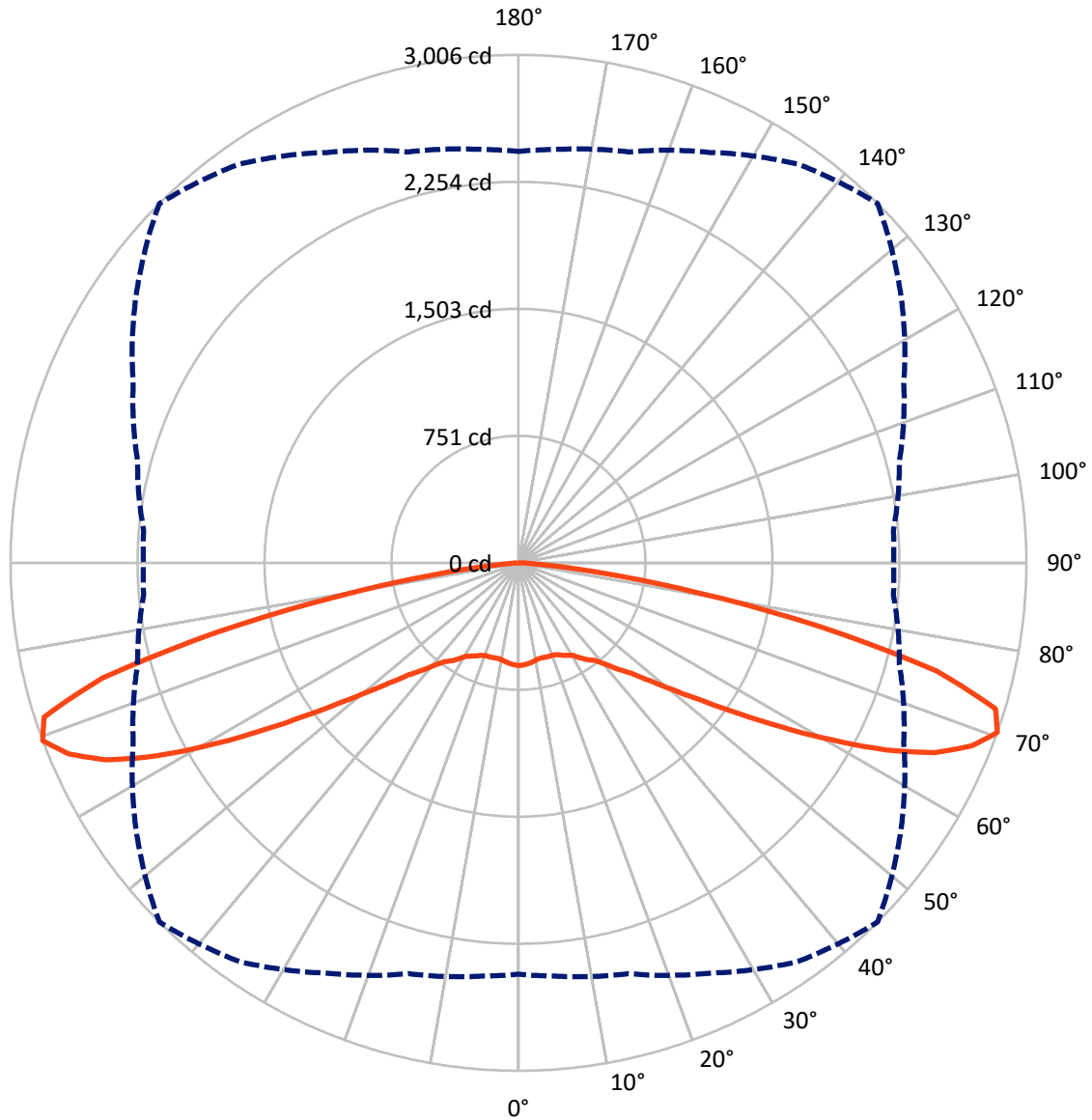
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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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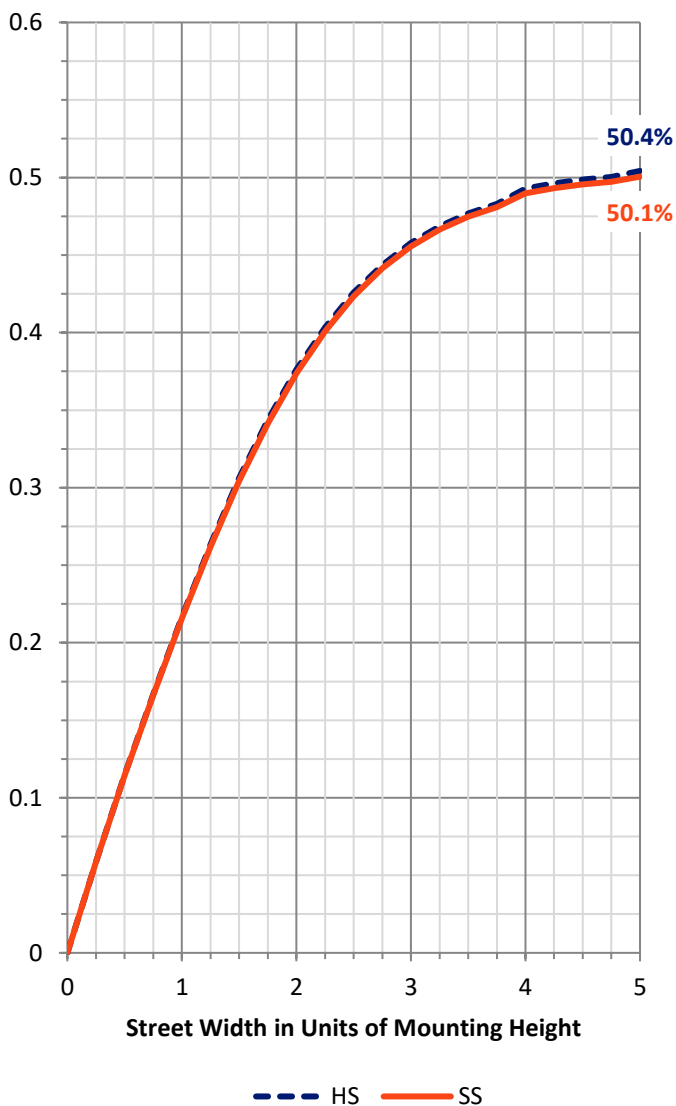
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3691.5   | 0.0    | 3691.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3691.5   | 0.0    | 3691.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 7383.0   | 0.0    | 7383.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 56.7   | 0.8       |
| 10°-20°   | 165.7  | 2.2       |
| 20°-30°   | 282.4  | 3.8       |
| 30°-40°   | 441.3  | 6.0       |
| 40°-50°   | 747.9  | 10.1      |
| 50°-60°   | 1363.9 | 18.5      |
| 60°-70°   | 2348.1 | 31.8      |
| 70°-80°   | 1840.5 | 24.9      |
| 80°-90°   | 136.5  | 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°    | 7383.0 | 100.0     |
| 0°-180°   | 7383.0 | 100.0     |

**Coefficient of Utilization**



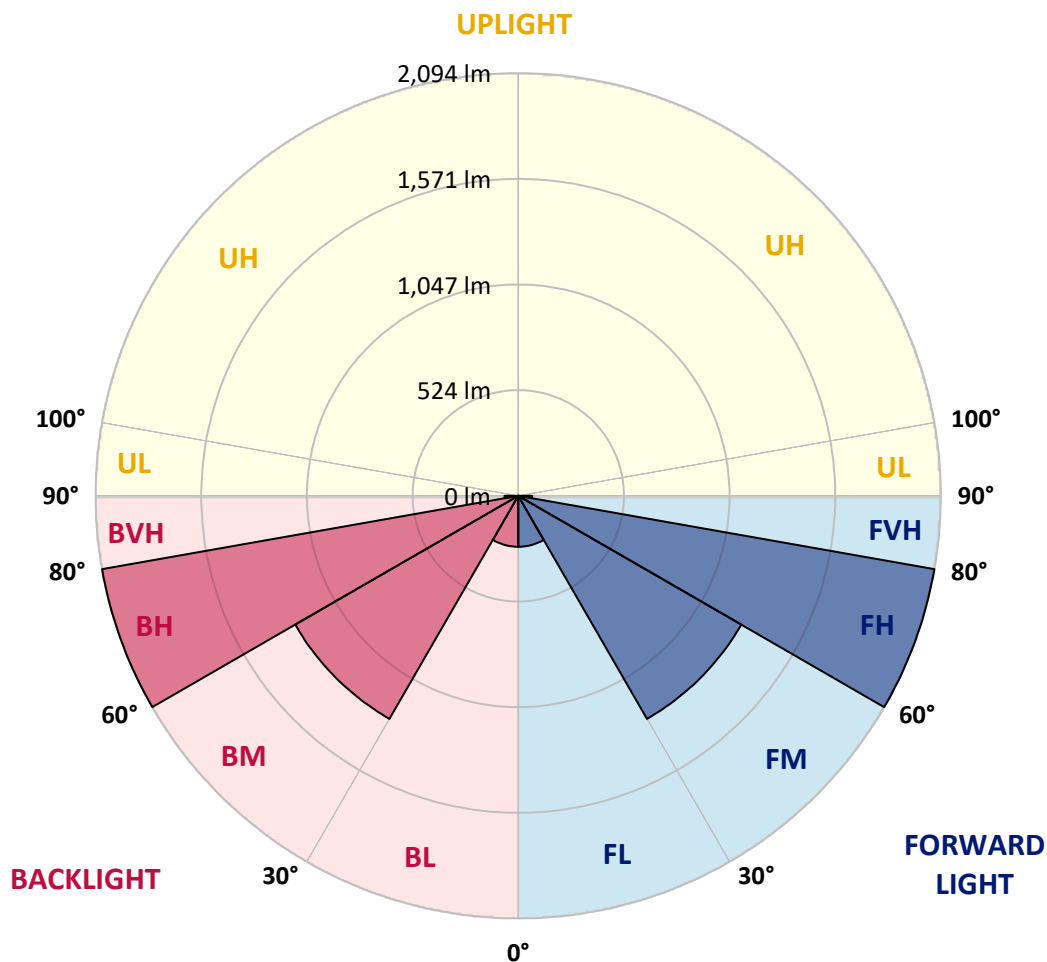
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 252.4  | 3.4       |                         |      |         |
| FM (30°-60°)   | 1276.6 | 17.3      |                         |      |         |
| FH (60°-80°)   | 2094.3 | 28.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 68.2   | 0.9       |                         |      | G1/100  |
| BL (0°-30°)    | 252.4  | 3.4       | B1/500                  |      |         |
| BM (30°-60°)   | 1276.6 | 17.3      | B2/2500                 |      |         |
| BH (60°-80°)   | 2094.3 | 28.4      | B3/2500                 |      | G2/5000 |
| BVH (80°-90°)  | 68.2   | 0.9       |                         |      | 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°    | 607.6  | 607.6  | 607.6  | 607.6  | 607.6  | 607.6  | 607.6  | 607.6  | 607.6  | 607.6  | 607.6  |
| 2.5°  | 604.9  | 605.7  | 604.9  | 605.4  | 604.2  | 604.7  | 604.7  | 604.7  | 604.4  | 604.7  | 604.2  |
| 5°    | 599.6  | 600.1  | 599.1  | 599.6  | 598.8  | 599.6  | 599.8  | 599.6  | 599.1  | 599.3  | 598.3  |
| 7.5°  | 591.5  | 592.0  | 591.3  | 592.0  | 591.0  | 592.2  | 592.0  | 591.3  | 590.5  | 590.5  | 589.5  |
| 10°   | 587.1  | 587.4  | 585.4  | 584.7  | 582.5  | 583.0  | 583.7  | 584.4  | 585.2  | 586.6  | 586.4  |
| 12.5° | 587.4  | 587.4  | 584.4  | 581.2  | 578.1  | 578.8  | 580.0  | 582.7  | 585.6  | 588.3  | 588.6  |
| 15°   | 589.8  | 589.5  | 585.2  | 580.0  | 577.8  | 580.0  | 580.8  | 582.5  | 587.1  | 591.7  | 592.0  |
| 17.5° | 591.5  | 591.5  | 584.7  | 578.8  | 578.6  | 582.0  | 581.7  | 582.5  | 587.6  | 594.4  | 594.7  |
| 20°   | 594.7  | 594.7  | 585.9  | 579.5  | 579.5  | 583.2  | 583.4  | 584.7  | 589.8  | 597.4  | 598.6  |
| 22.5° | 601.8  | 602.0  | 592.7  | 587.6  | 588.1  | 590.3  | 591.0  | 593.0  | 597.6  | 605.9  | 607.4  |
| 25°   | 611.8  | 612.3  | 602.7  | 599.8  | 601.5  | 605.7  | 605.2  | 606.6  | 611.8  | 619.8  | 621.3  |
| 27.5° | 625.7  | 624.5  | 615.7  | 614.5  | 616.2  | 619.1  | 618.9  | 619.1  | 623.3  | 630.6  | 632.3  |
| 30°   | 643.8  | 643.3  | 636.9  | 637.7  | 636.9  | 636.0  | 636.2  | 638.1  | 640.3  | 646.2  | 647.9  |
| 32.5° | 661.4  | 661.8  | 657.9  | 661.6  | 667.0  | 670.6  | 665.0  | 659.6  | 657.2  | 660.4  | 661.8  |
| 35°   | 693.1  | 694.3  | 688.2  | 685.8  | 693.1  | 703.8  | 688.0  | 679.2  | 684.1  | 688.2  | 689.4  |
| 37.5° | 747.1  | 747.8  | 737.5  | 727.8  | 722.4  | 732.7  | 716.8  | 717.5  | 734.6  | 742.4  | 742.2  |
| 40°   | 808.6  | 808.9  | 802.0  | 793.5  | 784.2  | 786.6  | 780.3  | 782.2  | 793.5  | 800.6  | 802.5  |
| 42.5° | 881.9  | 881.1  | 870.4  | 858.2  | 855.5  | 857.9  | 847.2  | 845.7  | 858.7  | 871.4  | 871.6  |
| 45°   | 976.9  | 975.2  | 961.3  | 947.8  | 934.9  | 929.5  | 926.8  | 933.9  | 951.7  | 963.5  | 963.7  |
| 47.5° | 1079.2 | 1074.6 | 1067.2 | 1056.5 | 1045.3 | 1039.9 | 1035.5 | 1038.9 | 1051.9 | 1056.5 | 1057.0 |
| 50°   | 1184.5 | 1185.4 | 1186.9 | 1182.8 | 1178.6 | 1176.9 | 1165.4 | 1158.8 | 1162.7 | 1154.2 | 1153.0 |
| 52.5° | 1309.3 | 1311.2 | 1325.4 | 1337.4 | 1344.4 | 1348.1 | 1326.4 | 1303.7 | 1291.0 | 1274.3 | 1269.5 |
| 55°   | 1456.5 | 1459.7 | 1480.5 | 1513.7 | 1547.9 | 1565.9 | 1526.6 | 1484.1 | 1444.8 | 1413.8 | 1403.8 |
| 57.5° | 1620.7 | 1626.3 | 1654.8 | 1718.6 | 1788.7 | 1831.4 | 1765.0 | 1687.8 | 1611.9 | 1567.2 | 1559.4 |
| 60°   | 1813.1 | 1818.5 | 1858.0 | 1949.4 | 2062.9 | 2127.2 | 2026.5 | 1900.3 | 1805.8 | 1763.0 | 1748.6 |
| 62.5° | 2042.2 | 2042.7 | 2091.3 | 2198.0 | 2347.9 | 2437.3 | 2301.1 | 2132.3 | 2034.8 | 1983.3 | 1969.4 |
| 65°   | 2288.6 | 2289.8 | 2340.1 | 2455.4 | 2610.5 | 2707.7 | 2553.8 | 2378.0 | 2258.8 | 2182.8 | 2172.1 |
| 67.5° | 2462.7 | 2467.9 | 2520.8 | 2659.6 | 2804.6 | 2892.3 | 2733.1 | 2534.3 | 2396.5 | 2305.9 | 2296.9 |
| 70°   | 2434.9 | 2454.9 | 2517.2 | 2679.1 | 2880.8 | 3005.9 | 2762.1 | 2515.7 | 2334.0 | 2227.1 | 2219.5 |
| 72.5° | 2123.5 | 2161.8 | 2244.9 | 2457.4 | 2780.0 | 2952.1 | 2603.6 | 2253.2 | 2047.5 | 1956.5 | 1942.8 |
| 75°   | 1446.0 | 1508.3 | 1633.6 | 1940.1 | 2375.0 | 2556.0 | 2191.9 | 1796.5 | 1603.1 | 1477.0 | 1467.8 |
| 77.5° | 644.7  | 658.9  | 817.7  | 1170.6 | 1639.0 | 1835.6 | 1592.6 | 1175.2 | 882.1  | 703.6  | 666.0  |
| 80°   | 179.7  | 181.9  | 242.8  | 435.9  | 820.3  | 1078.5 | 880.7  | 457.9  | 257.4  | 181.5  | 171.0  |
| 82.5° | 57.1   | 62.0   | 75.7   | 113.1  | 275.7  | 492.1  | 283.1  | 122.1  | 86.9   | 69.4   | 62.5   |
| 85°   | 27.8   | 27.6   | 38.3   | 45.9   | 70.3   | 108.9  | 75.0   | 56.7   | 49.6   | 33.0   | 29.8   |
| 87.5° | 11.7   | 12.0   | 17.8   | 16.1   | 20.5   | 17.6   | 24.2   | 25.4   | 26.6   | 14.7   | 12.7   |
| 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)