

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: P450917

Luminaire Tested: **GLAN-SA1D-730-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450917  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1D-730-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7461 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

Input Watts (W): 65  
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

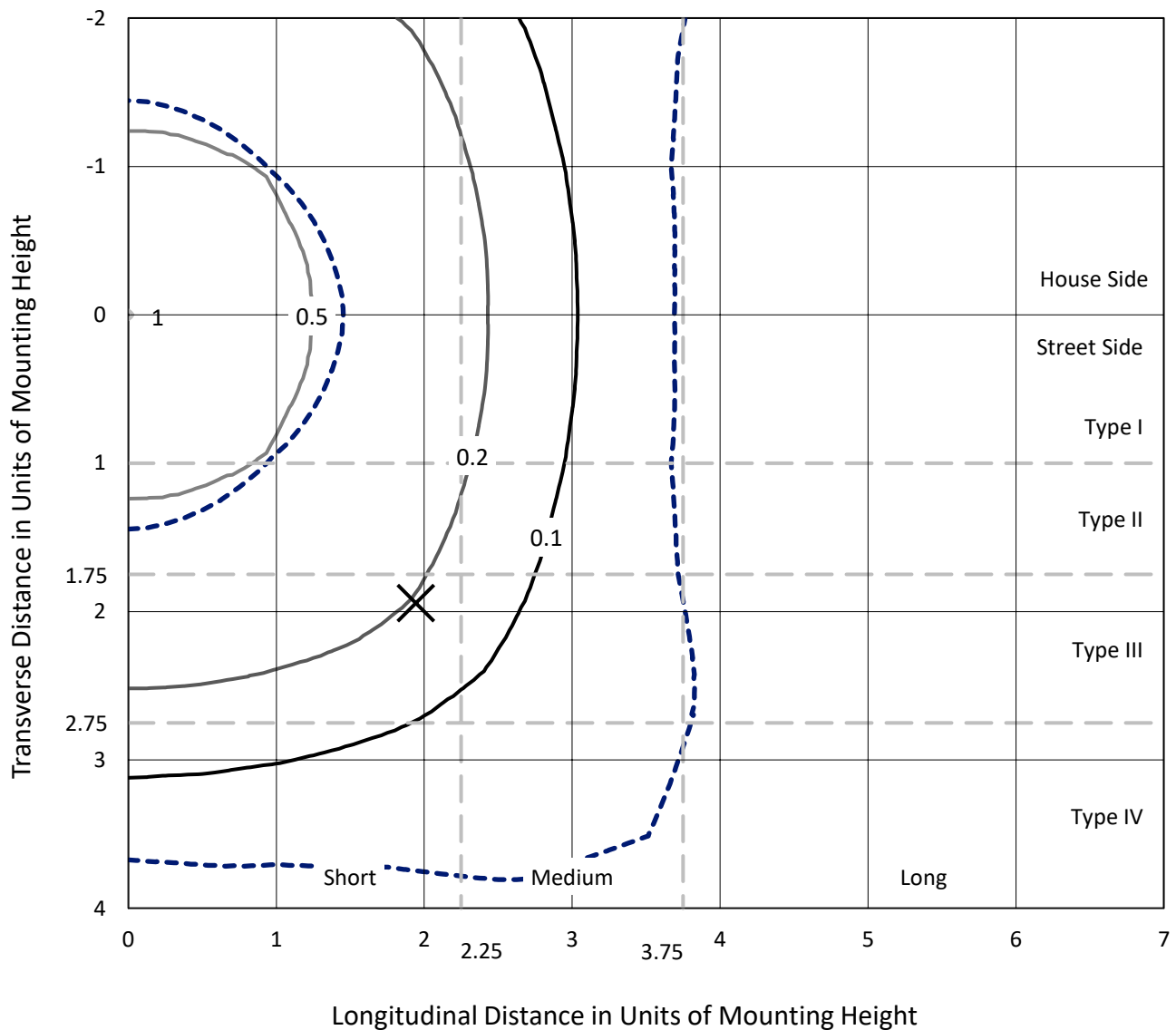


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd



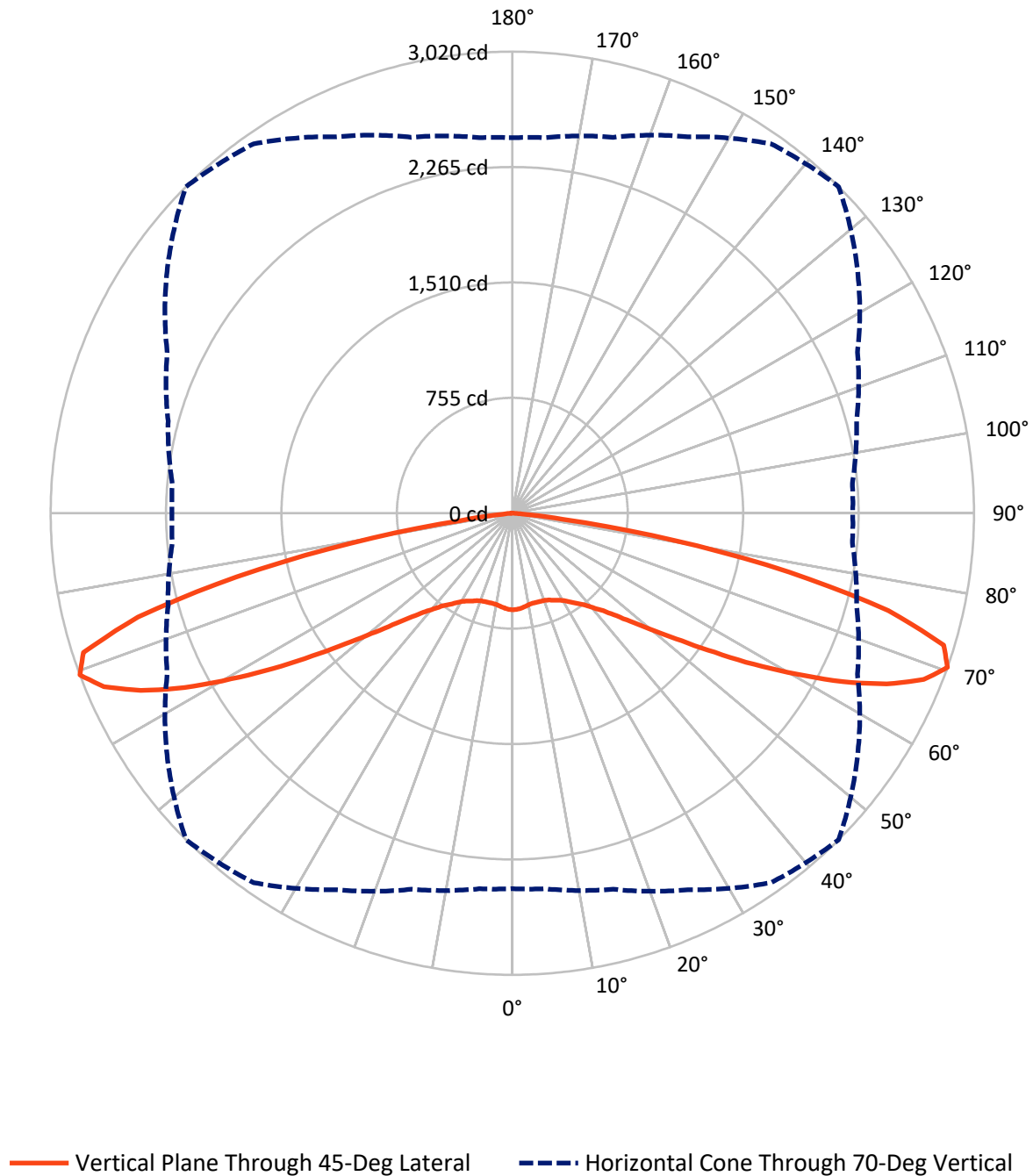
Based on 25 foot mounting height. Maximum calculated value = 1 fc

Type V - Short - N/A

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## Luminous Intensity Polar Plot



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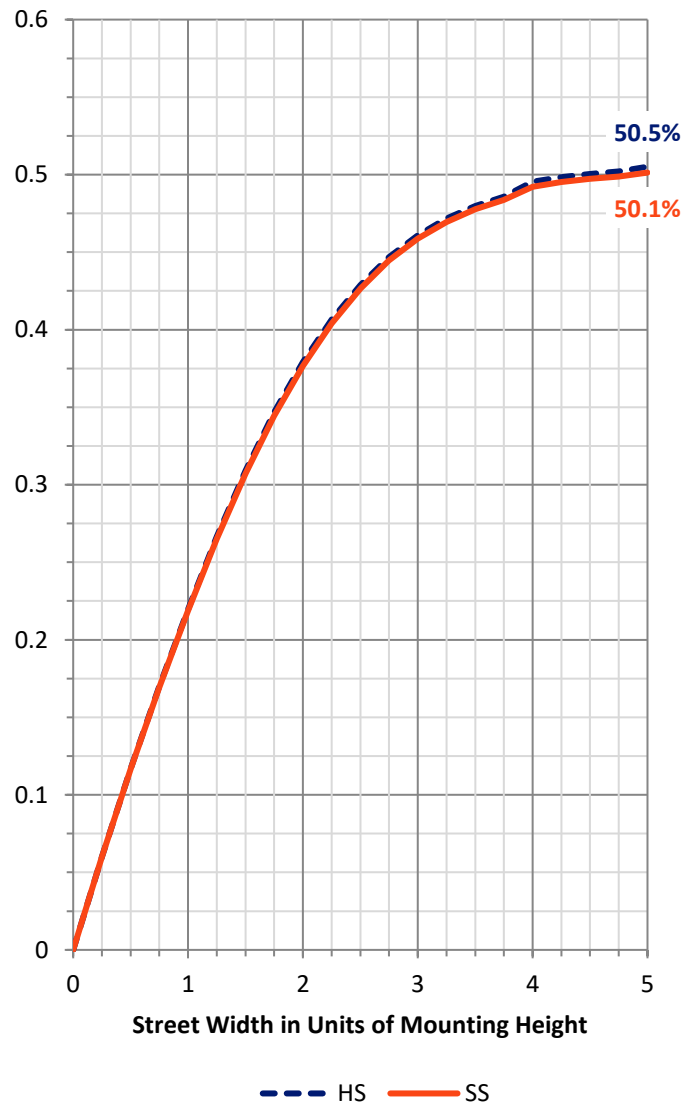
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3730.5   | 0.0    | 3730.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3730.5   | 0.0    | 3730.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 7461.0   | 0.0    | 7461.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 59.1   | 0.8       |
| 10°-20°   | 172.9  | 2.3       |
| 20°-30°   | 294.6  | 3.9       |
| 30°-40°   | 456.7  | 6.1       |
| 40°-50°   | 768.7  | 10.3      |
| 50°-60°   | 1398.6 | 18.7      |
| 60°-70°   | 2367.8 | 31.7      |
| 70°-80°   | 1832.8 | 24.6      |
| 80°-90°   | 109.8  | 1.5       |
| 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°    | 7461.0 | 100.0     |
| 0°-180°   | 7461.0 | 100.0     |

**Coefficient of Utilization**



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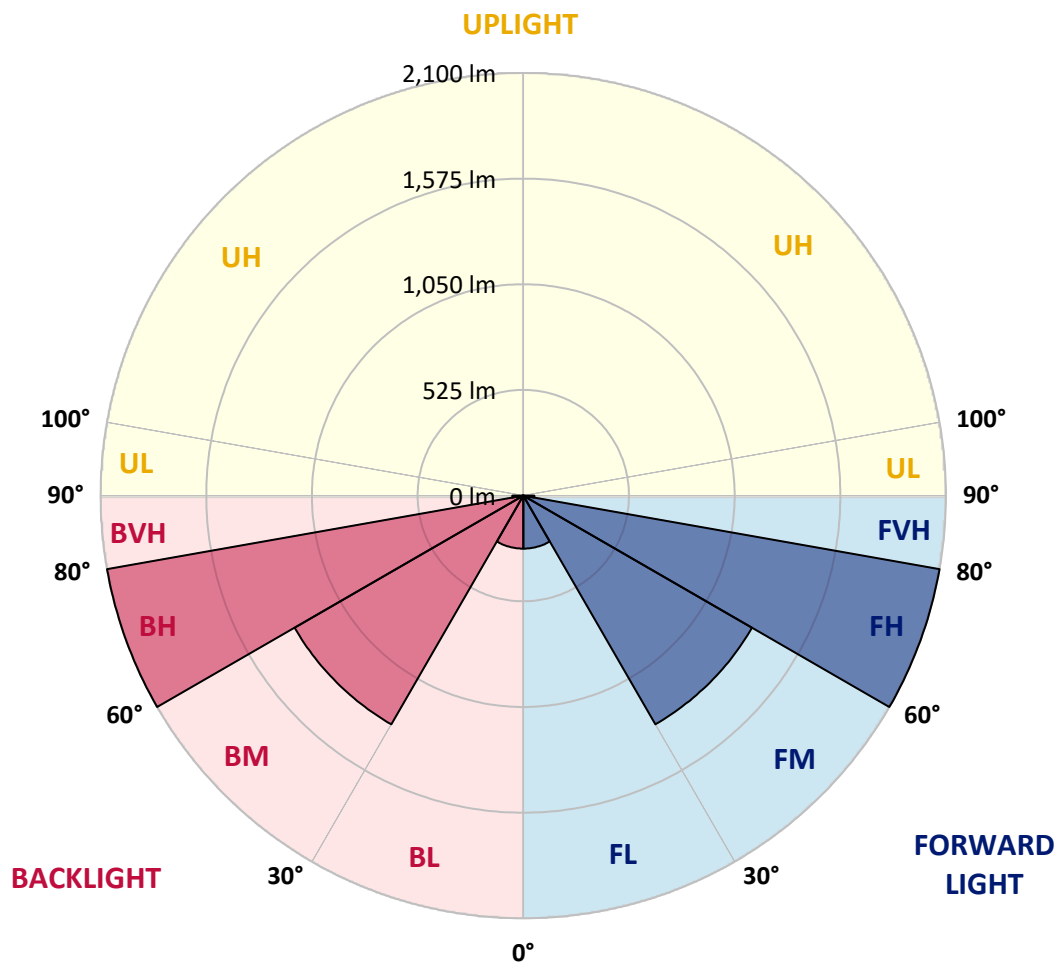
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 263.3  | 3.5       |                         |      |         |
| FM   | (30°-60°)   | 1312.0 | 17.6      |                         |      |         |
| FH   | (60°-80°)   | 2100.3 | 28.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 54.9   | 0.7       |                         |      | G1/100  |
| BL   | (0°-30°)    | 263.3  | 3.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1312.0 | 17.6      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 2100.3 | 28.1      | B3/2500                 |      | G2/5000 |
| BVH  | (80°-90°)   | 54.9   | 0.7       |                         |      | 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°    | 631.7  | 631.7  | 631.7  | 631.7  | 631.7  | 631.7  | 631.7  | 631.7  | 631.7  | 631.7  | 631.7  |
| 2.5°  | 630.1  | 630.5  | 630.5  | 629.7  | 629.3  | 629.3  | 628.9  | 628.9  | 630.1  | 630.5  | 630.9  |
| 5°    | 624.6  | 624.6  | 624.6  | 624.2  | 623.4  | 623.4  | 622.6  | 622.6  | 623.0  | 624.2  | 623.4  |
| 7.5°  | 617.1  | 617.9  | 617.9  | 616.3  | 615.1  | 615.1  | 614.7  | 615.1  | 615.5  | 616.7  | 616.3  |
| 10°   | 614.7  | 615.1  | 613.1  | 610.4  | 608.4  | 607.2  | 607.6  | 608.4  | 610.4  | 611.2  | 611.6  |
| 12.5° | 616.3  | 616.3  | 612.8  | 608.8  | 605.3  | 603.7  | 603.3  | 606.1  | 609.6  | 612.0  | 612.8  |
| 15°   | 618.3  | 617.5  | 613.1  | 608.0  | 604.5  | 604.1  | 603.7  | 605.7  | 610.8  | 615.5  | 615.9  |
| 17.5° | 619.4  | 619.1  | 613.5  | 607.2  | 605.3  | 605.3  | 604.9  | 606.4  | 612.0  | 617.9  | 618.3  |
| 20°   | 623.4  | 622.2  | 615.9  | 609.2  | 607.6  | 608.4  | 607.2  | 609.2  | 615.1  | 622.2  | 623.8  |
| 22.5° | 631.3  | 630.1  | 623.8  | 617.1  | 616.3  | 616.3  | 615.9  | 617.9  | 624.2  | 631.7  | 632.8  |
| 25°   | 640.7  | 639.5  | 633.6  | 628.9  | 629.7  | 631.3  | 630.5  | 630.9  | 636.0  | 642.3  | 644.3  |
| 27.5° | 653.3  | 651.4  | 646.2  | 642.3  | 644.7  | 644.7  | 644.7  | 644.3  | 647.4  | 653.3  | 655.3  |
| 30°   | 668.7  | 667.9  | 662.4  | 662.0  | 664.0  | 662.0  | 662.0  | 662.4  | 662.8  | 668.3  | 670.3  |
| 32.5° | 688.8  | 687.2  | 684.5  | 683.7  | 689.2  | 690.8  | 685.3  | 680.1  | 682.9  | 688.4  | 689.6  |
| 35°   | 721.9  | 719.5  | 715.6  | 711.3  | 715.6  | 723.1  | 711.3  | 707.3  | 714.4  | 721.9  | 722.7  |
| 37.5° | 766.8  | 765.6  | 759.3  | 751.5  | 751.1  | 758.9  | 746.7  | 746.3  | 759.7  | 768.8  | 770.0  |
| 40°   | 823.2  | 824.4  | 816.5  | 809.0  | 805.0  | 811.4  | 801.9  | 805.4  | 818.4  | 828.7  | 827.9  |
| 42.5° | 902.4  | 898.0  | 885.8  | 878.7  | 874.4  | 872.0  | 869.7  | 875.2  | 889.8  | 900.8  | 909.5  |
| 45°   | 995.0  | 993.4  | 978.0  | 969.4  | 959.9  | 956.4  | 955.6  | 965.4  | 983.2  | 996.6  | 997.7  |
| 47.5° | 1099.8 | 1096.3 | 1086.4 | 1077.3 | 1073.8 | 1069.5 | 1065.5 | 1073.0 | 1090.7 | 1100.2 | 1103.0 |
| 50°   | 1207.8 | 1208.6 | 1208.6 | 1207.0 | 1210.5 | 1211.3 | 1200.7 | 1203.4 | 1213.3 | 1212.5 | 1211.7 |
| 52.5° | 1331.1 | 1335.4 | 1355.9 | 1357.9 | 1374.8 | 1386.3 | 1367.0 | 1355.5 | 1352.0 | 1330.7 | 1332.3 |
| 55°   | 1476.1 | 1480.1 | 1510.8 | 1541.5 | 1587.2 | 1606.5 | 1566.0 | 1530.5 | 1505.3 | 1473.0 | 1474.5 |
| 57.5° | 1657.0 | 1659.0 | 1688.1 | 1747.2 | 1819.7 | 1865.0 | 1793.7 | 1723.6 | 1672.4 | 1641.6 | 1629.4 |
| 60°   | 1851.6 | 1853.6 | 1896.2 | 1968.3 | 2081.0 | 2136.2 | 2047.9 | 1933.2 | 1868.6 | 1821.7 | 1824.9 |
| 62.5° | 2085.3 | 2093.2 | 2131.4 | 2230.7 | 2367.5 | 2429.3 | 2312.3 | 2159.0 | 2071.5 | 2013.2 | 2015.6 |
| 65°   | 2335.5 | 2348.9 | 2390.7 | 2499.9 | 2626.0 | 2692.6 | 2549.1 | 2372.2 | 2263.4 | 2192.1 | 2199.6 |
| 67.5° | 2497.9 | 2509.7 | 2570.0 | 2690.6 | 2847.8 | 2903.0 | 2717.8 | 2511.7 | 2375.7 | 2290.6 | 2274.9 |
| 70°   | 2456.5 | 2466.4 | 2546.8 | 2717.8 | 2950.7 | 3020.4 | 2758.0 | 2491.2 | 2331.2 | 2233.1 | 2226.8 |
| 72.5° | 2168.5 | 2148.0 | 2265.4 | 2510.9 | 2833.2 | 2950.3 | 2631.5 | 2275.3 | 2073.9 | 1973.0 | 1961.2 |
| 75°   | 1437.1 | 1481.6 | 1655.0 | 1944.3 | 2397.0 | 2542.0 | 2246.1 | 1826.8 | 1573.4 | 1489.5 | 1476.5 |
| 77.5° | 480.3  | 514.6  | 668.7  | 1102.2 | 1634.1 | 1852.0 | 1636.5 | 1194.8 | 845.2  | 680.9  | 684.1  |
| 80°   | 127.3  | 125.7  | 162.7  | 303.0  | 706.1  | 1072.6 | 822.0  | 404.7  | 221.5  | 160.4  | 152.1  |
| 82.5° | 45.7   | 51.2   | 65.8   | 83.9   | 187.2  | 333.4  | 235.2  | 113.5  | 83.1   | 61.5   | 59.5   |
| 85°   | 20.1   | 19.7   | 28.4   | 33.5   | 46.9   | 62.3   | 55.2   | 48.1   | 42.2   | 28.0   | 26.0   |
| 87.5° | 4.3    | 4.3    | 6.7    | 5.1    | 8.3    | 8.3    | 10.2   | 12.2   | 12.6   | 8.3    | 6.7    |
| 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)