

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: P459585

Luminaire Tested: **GAN-SA0A-AMB-U-5WQ**

Issue Date: 1/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459585  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0A-AMB-U-5WQ  
Description: GALLEON ROADWAY AND AREA LUMINAIRE  
(10) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10569 lumens  
Efficiency: N/A  
Efficacy: 53.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B4 - U0 - G2

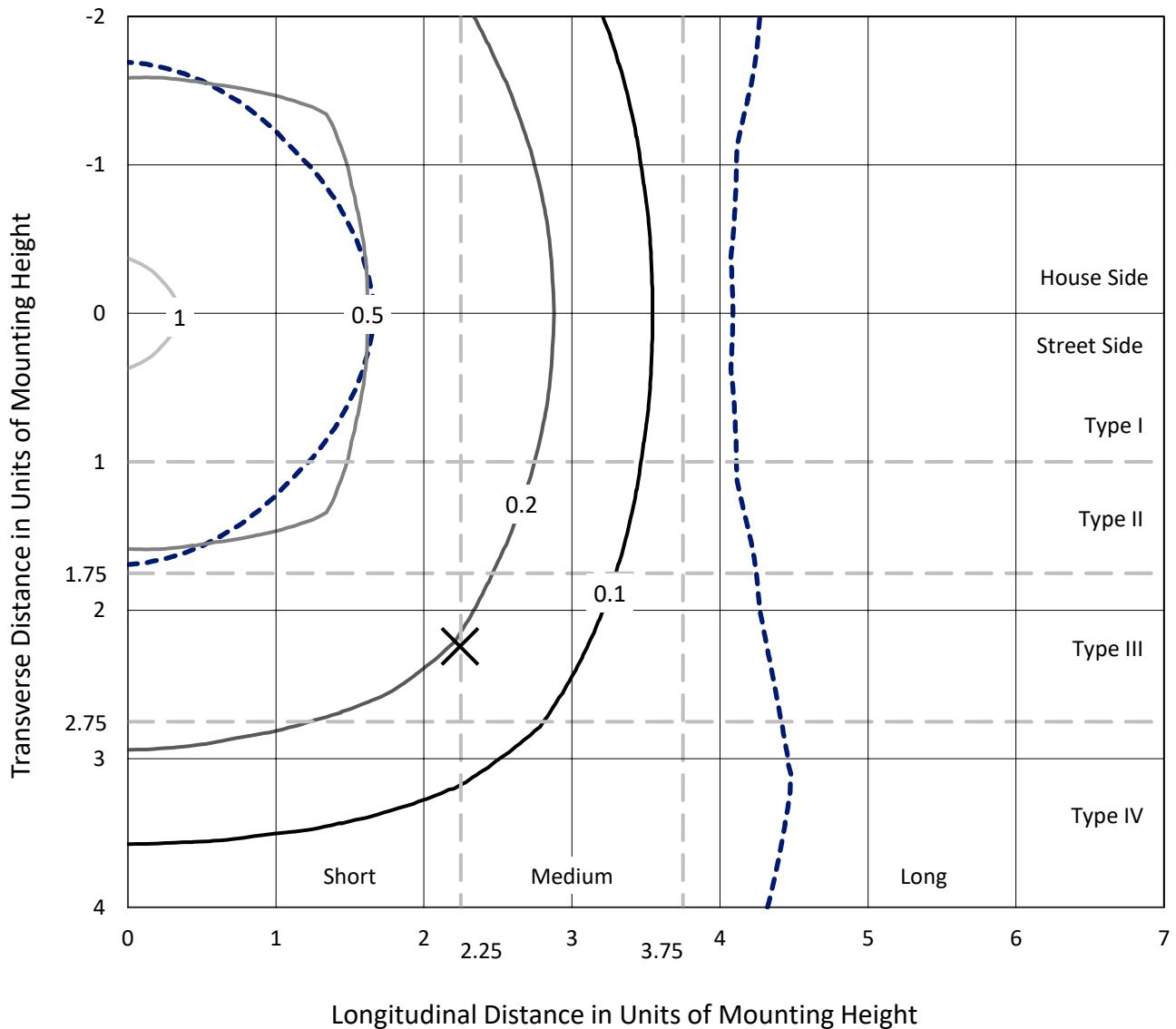
Input Watts (W): 198.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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## Iso-Footcandle Lines of Horizontal Illumination

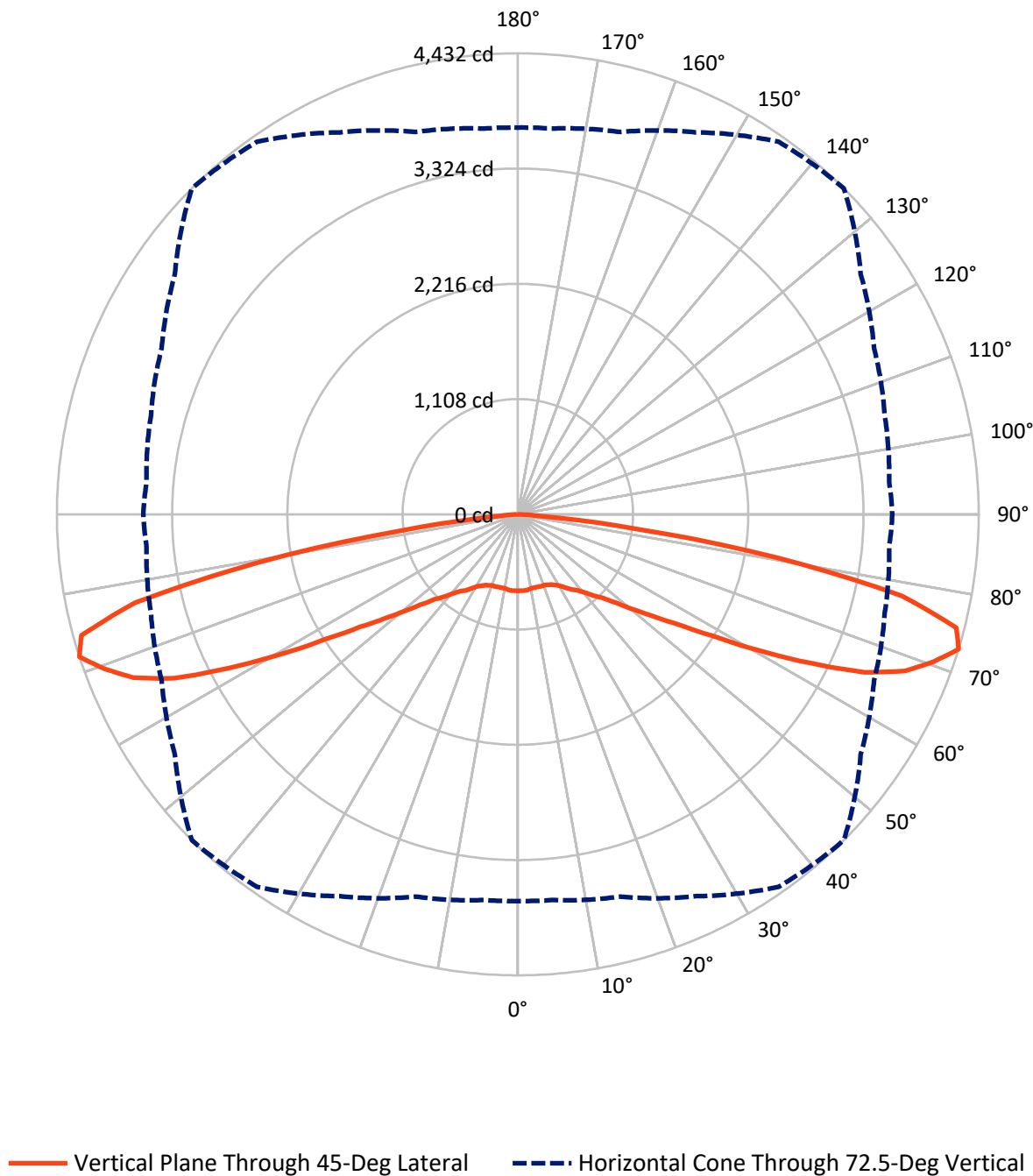
× Max cd  
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
Type V - Short - Non-Cutoff

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CATALOG NUMBER: GAN-SA0A-AMB-U-5WQ

## Luminous Intensity Polar Plot



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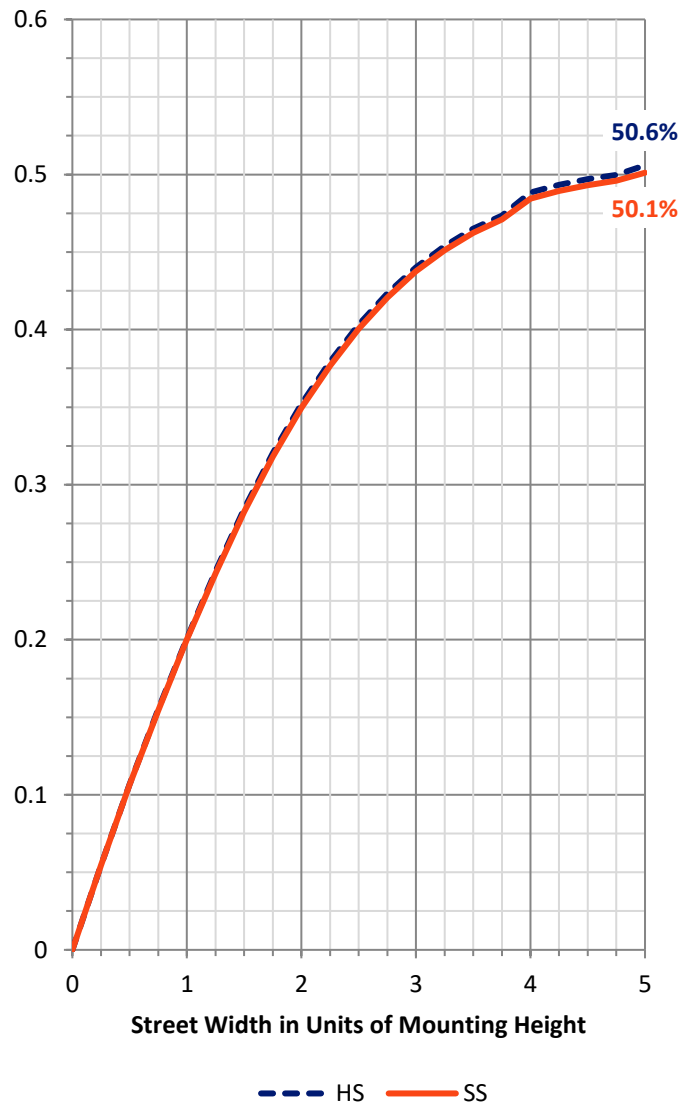
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5284.5   | 0.0    | 5284.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5284.5   | 0.0    | 5284.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 10569.0  | 0.0    | 10569.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 69.9    | 0.7       |
| 10°-20°   | 207.6   | 2.0       |
| 20°-30°   | 355.6   | 3.4       |
| 30°-40°   | 557.6   | 5.3       |
| 40°-50°   | 922.8   | 8.7       |
| 50°-60°   | 1701.5  | 16.1      |
| 60°-70°   | 3160.7  | 29.9      |
| 70°-80°   | 3290.9  | 31.1      |
| 80°-90°   | 302.4   | 2.9       |
| 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°    | 10569.0 | 100.0     |
| 0°-180°   | 10569.0 | 100.0     |

**Coefficient of Utilization**



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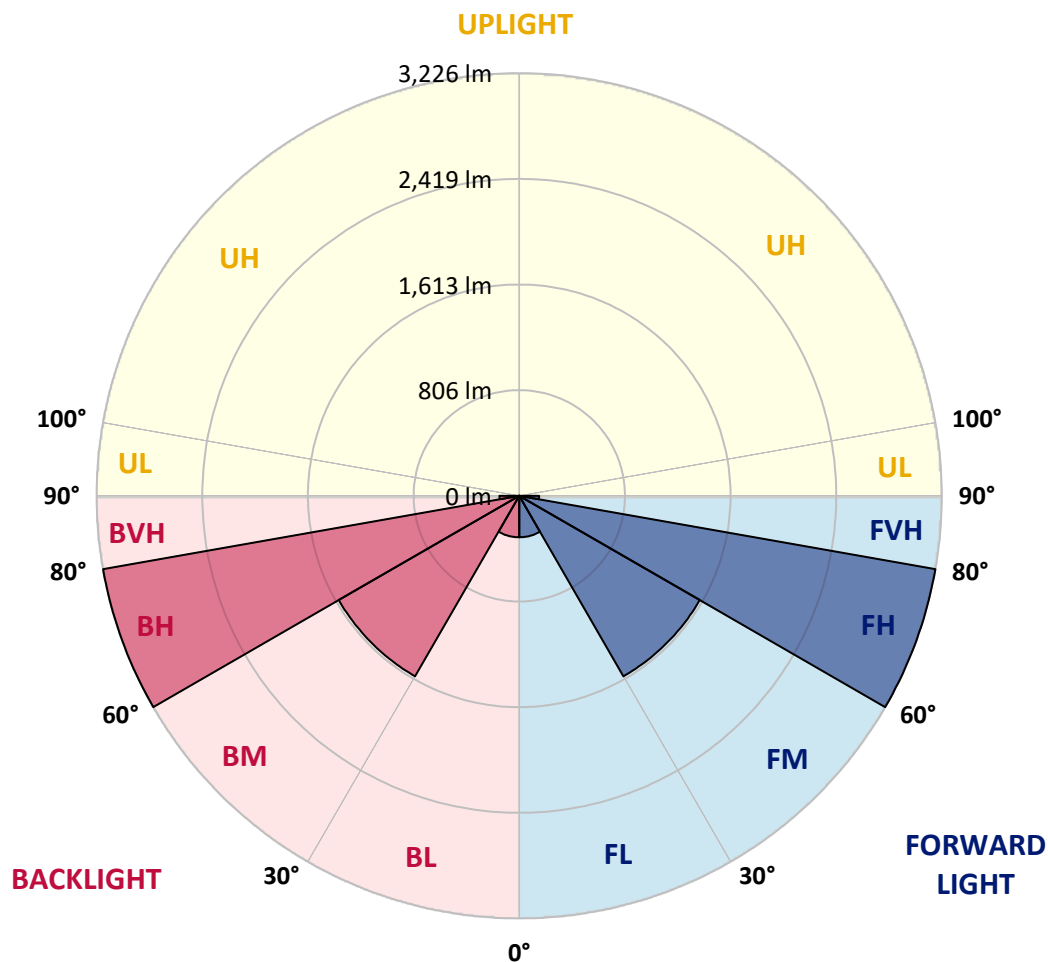
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 316.6  | 3.0       |                         |      |         |
| FM   | (30°-60°)   | 1590.9 | 15.1      |                         |      |         |
| FH   | (60°-80°)   | 3225.8 | 30.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 151.2  | 1.4       |                         |      | G2/225  |
| BL   | (0°-30°)    | 316.6  | 3.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1590.9 | 15.1      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 3225.8 | 30.5      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 151.2  | 1.4       |                         |      | G2/225  |
| 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°    | 735.7  | 735.7  | 735.7  | 735.7  | 735.7  | 735.7  | 735.7  | 735.7  | 735.7  | 735.7  | 735.7  |
| 2.5°  | 740.0  | 740.0  | 740.0  | 735.7  | 735.7  | 735.7  | 735.7  | 735.7  | 735.7  | 735.7  | 735.7  |
| 5°    | 740.0  | 740.0  | 740.0  | 740.0  | 735.7  | 735.7  | 735.7  | 731.4  | 731.4  | 731.4  | 735.7  |
| 7.5°  | 735.7  | 740.0  | 735.7  | 735.7  | 731.4  | 731.4  | 727.0  | 727.0  | 727.0  | 727.0  | 727.0  |
| 10°   | 740.0  | 740.0  | 735.7  | 731.4  | 727.0  | 722.7  | 722.7  | 722.7  | 722.7  | 727.0  | 727.0  |
| 12.5° | 744.3  | 744.3  | 735.7  | 727.0  | 727.0  | 722.7  | 722.7  | 722.7  | 722.7  | 727.0  | 731.4  |
| 15°   | 748.7  | 748.7  | 740.0  | 727.0  | 727.0  | 722.7  | 722.7  | 722.7  | 731.4  | 735.7  | 740.0  |
| 17.5° | 757.3  | 753.0  | 740.0  | 731.4  | 727.0  | 727.0  | 727.0  | 727.0  | 735.7  | 744.3  | 744.3  |
| 20°   | 757.3  | 757.3  | 744.3  | 731.4  | 731.4  | 727.0  | 731.4  | 731.4  | 740.0  | 748.7  | 753.0  |
| 22.5° | 770.3  | 766.0  | 748.7  | 740.0  | 735.7  | 735.7  | 740.0  | 740.0  | 748.7  | 757.3  | 761.7  |
| 25°   | 783.3  | 783.3  | 766.0  | 753.0  | 748.7  | 748.7  | 753.0  | 753.0  | 761.7  | 774.6  | 779.0  |
| 27.5° | 809.3  | 804.9  | 787.6  | 774.6  | 770.3  | 770.3  | 779.0  | 779.0  | 783.3  | 796.3  | 800.6  |
| 30°   | 830.9  | 830.9  | 813.6  | 809.3  | 800.6  | 796.3  | 804.9  | 813.6  | 813.6  | 822.2  | 826.6  |
| 32.5° | 848.2  | 848.2  | 839.6  | 839.6  | 843.9  | 839.6  | 848.2  | 843.9  | 839.6  | 848.2  | 848.2  |
| 35°   | 878.5  | 878.5  | 869.8  | 865.5  | 882.8  | 887.2  | 882.8  | 869.8  | 869.8  | 878.5  | 882.8  |
| 37.5° | 926.1  | 926.1  | 917.5  | 908.8  | 913.1  | 926.1  | 913.1  | 908.8  | 917.5  | 930.4  | 934.8  |
| 40°   | 995.3  | 999.7  | 991.0  | 986.7  | 973.7  | 986.7  | 973.7  | 982.4  | 995.3  | 1004.0 | 1004.0 |
| 42.5° | 1073.2 | 1077.6 | 1064.6 | 1055.9 | 1060.3 | 1068.9 | 1051.6 | 1055.9 | 1073.2 | 1086.2 | 1086.2 |
| 45°   | 1194.4 | 1190.1 | 1168.5 | 1155.5 | 1142.5 | 1146.8 | 1138.2 | 1159.8 | 1177.1 | 1198.7 | 1207.4 |
| 47.5° | 1311.3 | 1306.9 | 1298.3 | 1285.3 | 1268.0 | 1272.3 | 1272.3 | 1289.6 | 1311.3 | 1332.9 | 1332.9 |
| 50°   | 1458.4 | 1458.4 | 1445.4 | 1436.8 | 1423.8 | 1432.4 | 1423.8 | 1445.4 | 1471.4 | 1488.7 | 1493.0 |
| 52.5° | 1627.2 | 1622.8 | 1622.8 | 1618.5 | 1609.9 | 1627.2 | 1614.2 | 1640.2 | 1661.8 | 1666.1 | 1674.8 |
| 55°   | 1804.6 | 1817.6 | 1834.9 | 1834.9 | 1847.9 | 1865.2 | 1856.5 | 1860.9 | 1878.2 | 1860.9 | 1869.5 |
| 57.5° | 2034.0 | 2047.0 | 2072.9 | 2107.5 | 2150.8 | 2198.4 | 2168.1 | 2146.5 | 2111.9 | 2085.9 | 2081.6 |
| 60°   | 2272.0 | 2285.0 | 2336.9 | 2440.8 | 2549.0 | 2652.8 | 2561.9 | 2462.4 | 2384.5 | 2319.6 | 2315.3 |
| 62.5° | 2531.6 | 2553.3 | 2626.9 | 2782.6 | 2990.4 | 3146.2 | 3003.4 | 2808.6 | 2665.8 | 2566.3 | 2570.6 |
| 65°   | 2873.5 | 2886.5 | 2964.4 | 3146.2 | 3470.7 | 3661.1 | 3440.4 | 3180.8 | 3003.4 | 2890.8 | 2895.2 |
| 67.5° | 3388.5 | 3379.9 | 3418.8 | 3591.9 | 3860.2 | 4016.0 | 3752.0 | 3540.0 | 3358.2 | 3228.4 | 3250.0 |
| 70°   | 3747.7 | 3743.4 | 3769.3 | 3951.1 | 4210.8 | 4241.0 | 3977.1 | 3739.0 | 3587.6 | 3509.7 | 3509.7 |
| 72.5° | 3717.4 | 3721.7 | 3804.0 | 4050.6 | 4370.9 | 4431.5 | 4024.7 | 3778.0 | 3652.5 | 3583.3 | 3600.6 |
| 75°   | 3007.7 | 3016.3 | 3250.0 | 3700.1 | 4236.7 | 4353.6 | 3916.5 | 3501.0 | 3137.5 | 2938.4 | 2903.8 |
| 77.5° | 1445.4 | 1458.4 | 1804.6 | 2549.0 | 3418.8 | 3778.0 | 3388.5 | 2514.3 | 1839.2 | 1493.0 | 1527.6 |
| 80°   | 437.1  | 450.1  | 597.2  | 1047.3 | 1956.1 | 2523.0 | 2025.3 | 1034.3 | 528.0  | 385.2  | 385.2  |
| 82.5° | 95.2   | 116.8  | 138.5  | 229.4  | 675.1  | 1151.1 | 675.1  | 255.3  | 155.8  | 112.5  | 103.9  |
| 85°   | 51.9   | 51.9   | 77.9   | 82.2   | 108.2  | 190.4  | 129.8  | 103.9  | 90.9   | 60.6   | 60.6   |
| 87.5° | 21.6   | 21.6   | 38.9   | 38.9   | 43.3   | 30.3   | 47.6   | 51.9   | 51.9   | 30.3   | 30.3   |
| 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)