

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: P316605

Luminaire Tested: **GAN-SA1C-827-U-5MQ**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P316605  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1C-827-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 5718 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

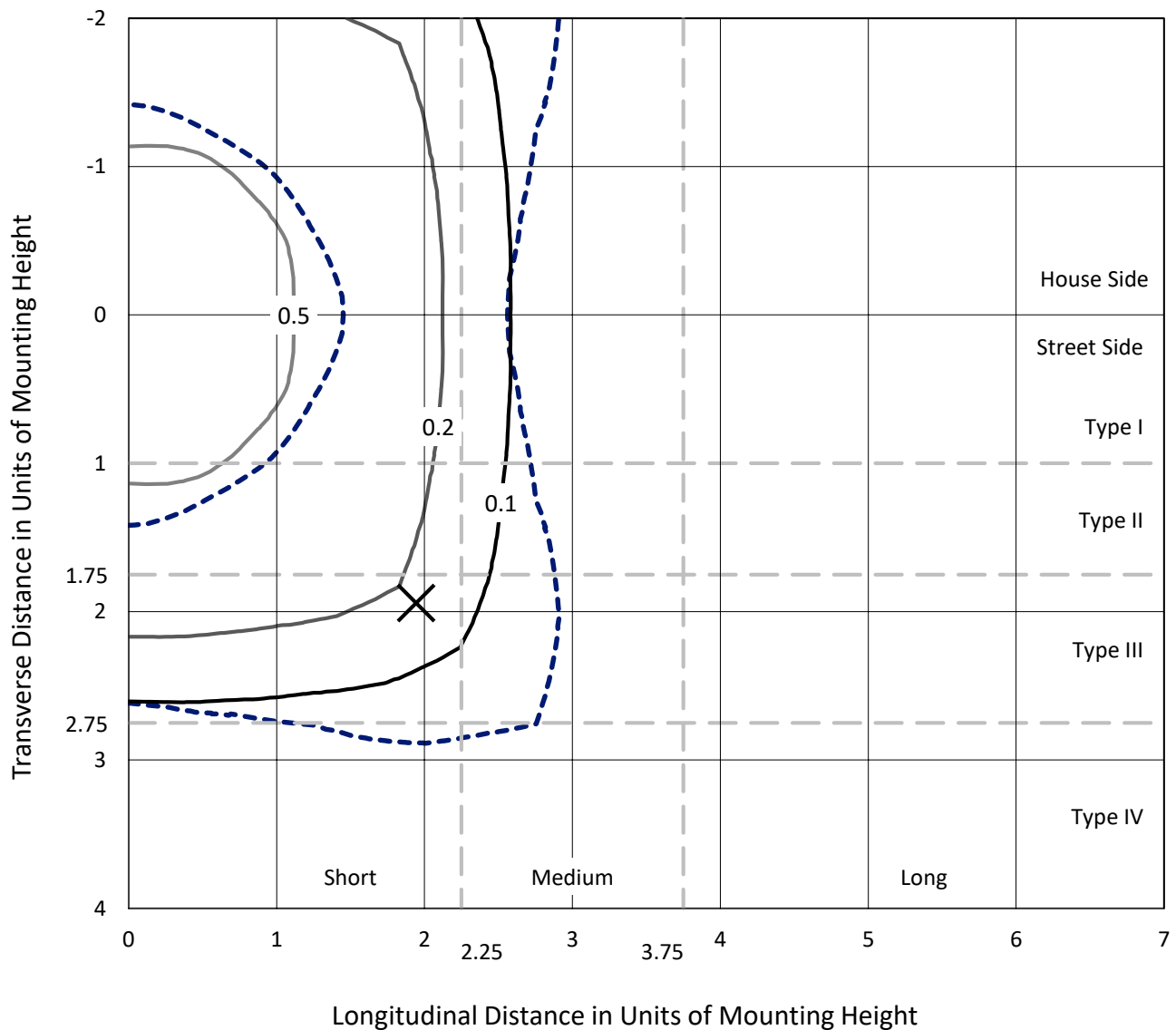
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P316605  
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## Iso-Footcandle Lines of Horizontal Illumination

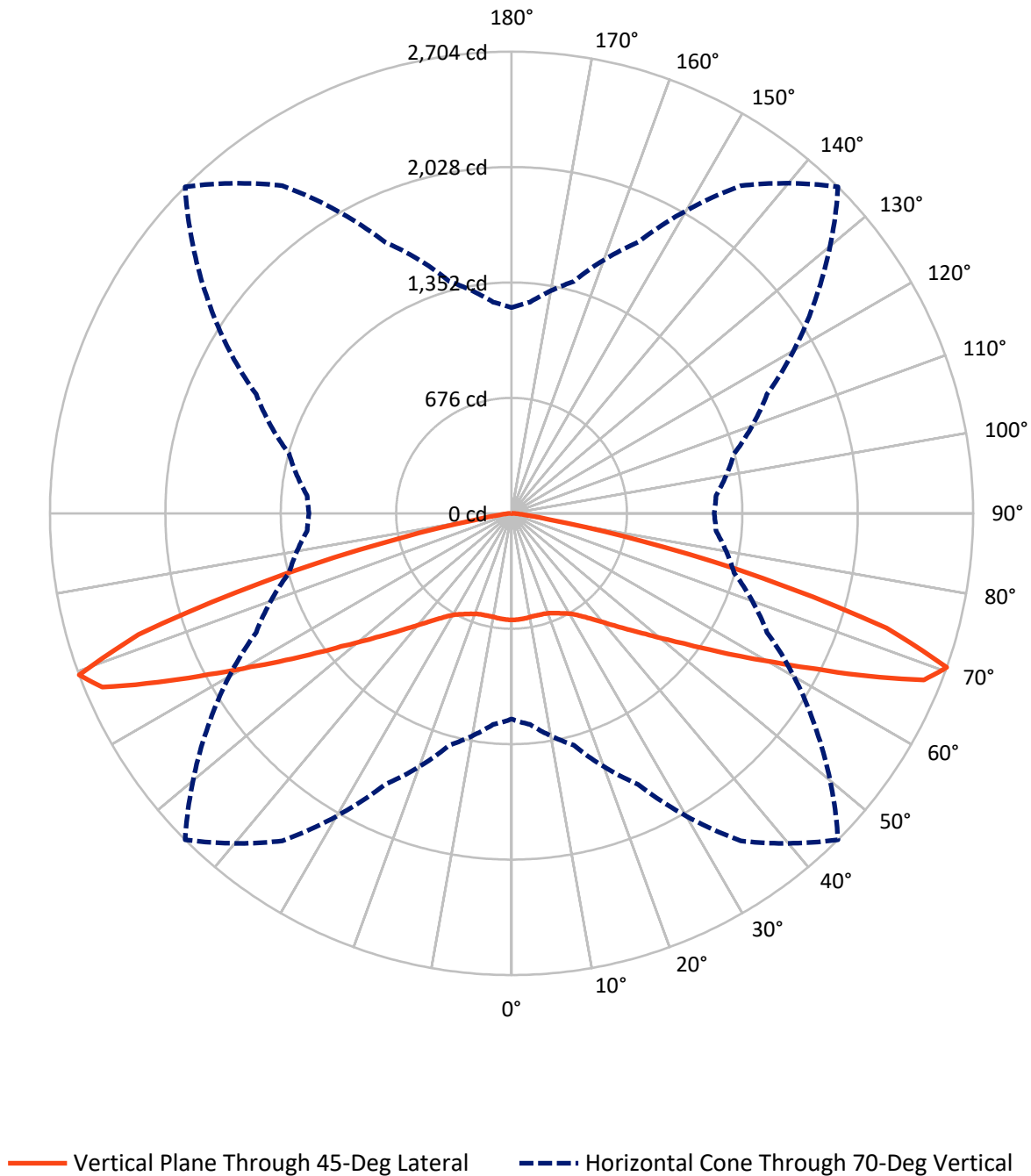
✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
Type V - Short - N/A

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CATALOG NUMBER: GAN-SA1C-827-U-5MQ

## Luminous Intensity Polar Plot



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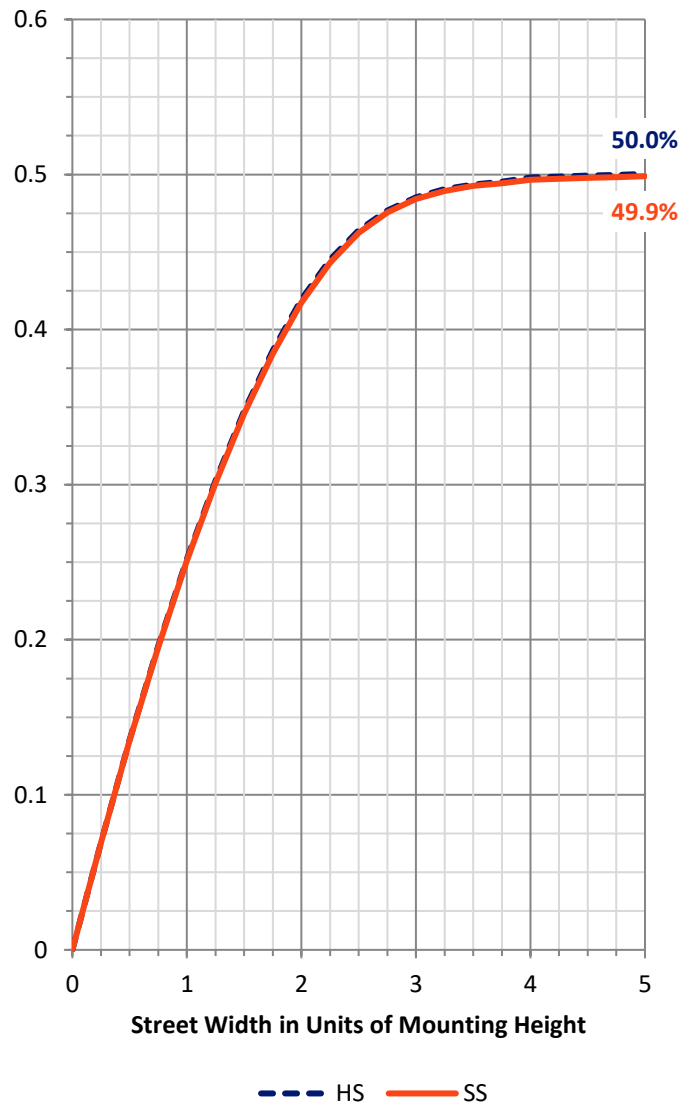
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2859.0   | 0.0    | 2859.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2859.0   | 0.0    | 2859.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5718.0   | 0.0    | 5718.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 59.1   | 1.0       |
| 10°-20°   | 173.6  | 3.0       |
| 20°-30°   | 295.6  | 5.2       |
| 30°-40°   | 468.8  | 8.2       |
| 40°-50°   | 762.9  | 13.3      |
| 50°-60°   | 1257.8 | 22.0      |
| 60°-70°   | 1846.6 | 32.3      |
| 70°-80°   | 816.5  | 14.3      |
| 80°-90°   | 37.0   | 0.6       |
| 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°    | 5718.0 | 100.0     |
| 0°-180°   | 5718.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P316605

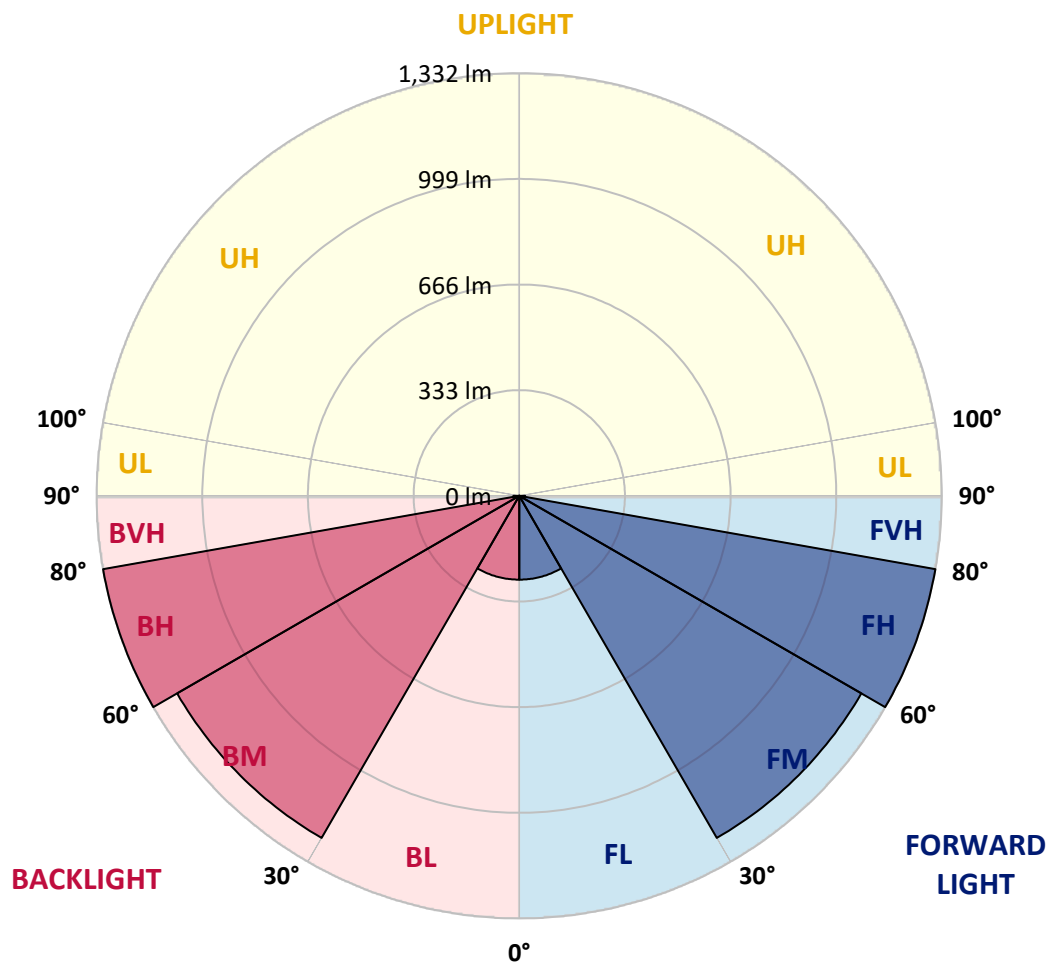
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 264.2  | 4.6       |                         |      |         |
| FM   | (30°-60°)   | 1244.8 | 21.8      |                         |      |         |
| FH   | (60°-80°)   | 1331.6 | 23.3      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 18.5   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 264.2  | 4.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1244.8 | 21.8      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1331.6 | 23.3      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 18.5   | 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°    | 624.5  | 624.5  | 624.5  | 624.5  | 624.5  | 624.5  | 624.5  | 624.5  | 624.5  | 624.5  | 624.5  |
| 2.5°  | 623.5  | 623.0  | 624.3  | 624.1  | 623.0  | 623.2  | 623.2  | 623.7  | 623.7  | 623.4  | 623.4  |
| 5°    | 621.3  | 620.9  | 622.4  | 622.4  | 621.3  | 621.7  | 622.0  | 622.6  | 622.4  | 622.0  | 621.8  |
| 7.5°  | 618.4  | 618.2  | 619.8  | 619.8  | 619.0  | 619.4  | 619.0  | 619.2  | 618.8  | 618.4  | 617.9  |
| 10°   | 613.7  | 614.1  | 615.4  | 615.8  | 615.8  | 616.0  | 615.6  | 614.7  | 614.1  | 613.5  | 613.0  |
| 12.5° | 609.4  | 609.2  | 611.1  | 612.0  | 613.5  | 615.2  | 614.1  | 611.4  | 610.3  | 609.2  | 608.8  |
| 15°   | 606.5  | 606.7  | 608.6  | 610.3  | 613.0  | 616.5  | 615.2  | 611.1  | 608.8  | 607.5  | 607.1  |
| 17.5° | 605.9  | 606.3  | 608.8  | 611.8  | 614.7  | 618.6  | 617.9  | 613.7  | 609.9  | 607.5  | 606.9  |
| 20°   | 607.3  | 607.5  | 611.2  | 615.6  | 620.5  | 624.3  | 622.6  | 618.1  | 613.0  | 609.2  | 608.2  |
| 22.5° | 609.7  | 610.5  | 615.2  | 622.0  | 629.6  | 634.7  | 632.6  | 624.9  | 616.9  | 612.2  | 610.9  |
| 25°   | 617.5  | 617.7  | 624.1  | 633.4  | 642.5  | 648.3  | 645.9  | 634.9  | 624.7  | 619.4  | 617.7  |
| 27.5° | 633.6  | 634.1  | 640.6  | 651.4  | 659.1  | 662.9  | 661.4  | 652.5  | 643.8  | 638.1  | 638.7  |
| 30°   | 656.9  | 657.6  | 664.8  | 676.7  | 681.5  | 682.4  | 682.0  | 677.9  | 669.9  | 662.3  | 662.9  |
| 32.5° | 685.2  | 685.6  | 695.3  | 706.1  | 709.8  | 710.6  | 709.8  | 706.1  | 696.6  | 686.4  | 686.9  |
| 35°   | 721.8  | 722.9  | 732.2  | 742.6  | 745.6  | 747.1  | 745.8  | 740.9  | 731.0  | 721.0  | 720.6  |
| 37.5° | 766.8  | 767.0  | 776.6  | 787.4  | 791.2  | 791.6  | 790.1  | 786.9  | 774.6  | 765.5  | 764.9  |
| 40°   | 819.0  | 819.8  | 831.1  | 842.7  | 844.2  | 842.5  | 844.6  | 842.7  | 830.0  | 819.6  | 821.3  |
| 42.5° | 882.6  | 884.3  | 897.9  | 909.3  | 904.9  | 904.0  | 905.3  | 905.9  | 895.7  | 883.0  | 881.9  |
| 45°   | 956.6  | 958.1  | 975.2  | 984.2  | 981.4  | 975.2  | 977.8  | 982.3  | 968.2  | 952.4  | 954.0  |
| 47.5° | 1041.0 | 1044.8 | 1063.0 | 1071.5 | 1064.5 | 1056.0 | 1061.1 | 1067.9 | 1051.2 | 1031.7 | 1030.8 |
| 50°   | 1134.9 | 1139.6 | 1163.8 | 1175.8 | 1168.8 | 1153.0 | 1161.6 | 1166.1 | 1142.1 | 1116.9 | 1114.8 |
| 52.5° | 1235.0 | 1239.7 | 1270.2 | 1294.8 | 1290.2 | 1265.8 | 1277.8 | 1273.0 | 1245.4 | 1211.5 | 1208.9 |
| 55°   | 1348.3 | 1350.2 | 1383.2 | 1422.9 | 1427.4 | 1409.5 | 1408.7 | 1400.9 | 1360.1 | 1320.9 | 1319.0 |
| 57.5° | 1464.9 | 1466.2 | 1508.8 | 1555.7 | 1577.1 | 1577.1 | 1555.9 | 1539.5 | 1485.2 | 1439.7 | 1435.0 |
| 60°   | 1590.8 | 1595.5 | 1642.6 | 1706.4 | 1756.3 | 1771.1 | 1733.6 | 1688.8 | 1629.7 | 1574.3 | 1568.8 |
| 62.5° | 1702.8 | 1708.3 | 1780.4 | 1875.4 | 1955.6 | 2009.4 | 1917.8 | 1844.7 | 1737.2 | 1648.3 | 1637.9 |
| 65°   | 1717.0 | 1731.7 | 1836.8 | 2008.8 | 2188.4 | 2295.7 | 2120.1 | 1940.1 | 1744.2 | 1620.7 | 1610.1 |
| 67.5° | 1568.0 | 1593.0 | 1735.0 | 2002.7 | 2373.8 | 2604.1 | 2249.3 | 1885.6 | 1618.6 | 1481.9 | 1470.2 |
| 70°   | 1204.9 | 1241.2 | 1404.9 | 1751.8 | 2341.9 | 2703.5 | 2168.3 | 1650.7 | 1349.5 | 1202.4 | 1186.0 |
| 72.5° | 661.0  | 676.0  | 823.2  | 1199.6 | 1877.5 | 2297.4 | 1808.6 | 1220.6 | 894.9  | 728.2  | 700.6  |
| 75°   | 209.7  | 215.0  | 289.9  | 490.9  | 1062.0 | 1521.7 | 1148.9 | 599.1  | 329.8  | 243.2  | 240.3  |
| 77.5° | 93.1   | 93.7   | 104.8  | 143.3  | 365.8  | 771.0  | 439.4  | 163.1  | 112.4  | 98.2   | 101.4  |
| 80°   | 58.9   | 58.9   | 64.9   | 71.0   | 99.5   | 223.9  | 118.8  | 77.6   | 66.2   | 61.5   | 62.8   |
| 82.5° | 28.2   | 31.2   | 42.2   | 45.4   | 54.7   | 75.3   | 60.9   | 50.7   | 44.3   | 32.9   | 30.7   |
| 85°   | 18.5   | 15.5   | 26.7   | 30.1   | 31.8   | 36.1   | 35.4   | 33.5   | 29.0   | 16.5   | 18.4   |
| 87.5° | 8.3    | 7.9    | 13.8   | 12.7   | 11.9   | 9.1    | 13.6   | 16.8   | 16.3   | 8.1    | 8.1    |
| 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)