

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: P450858

Luminaire Tested: **GLAN-SA1D-722-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450858  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1D-722-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2200K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6005 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1

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

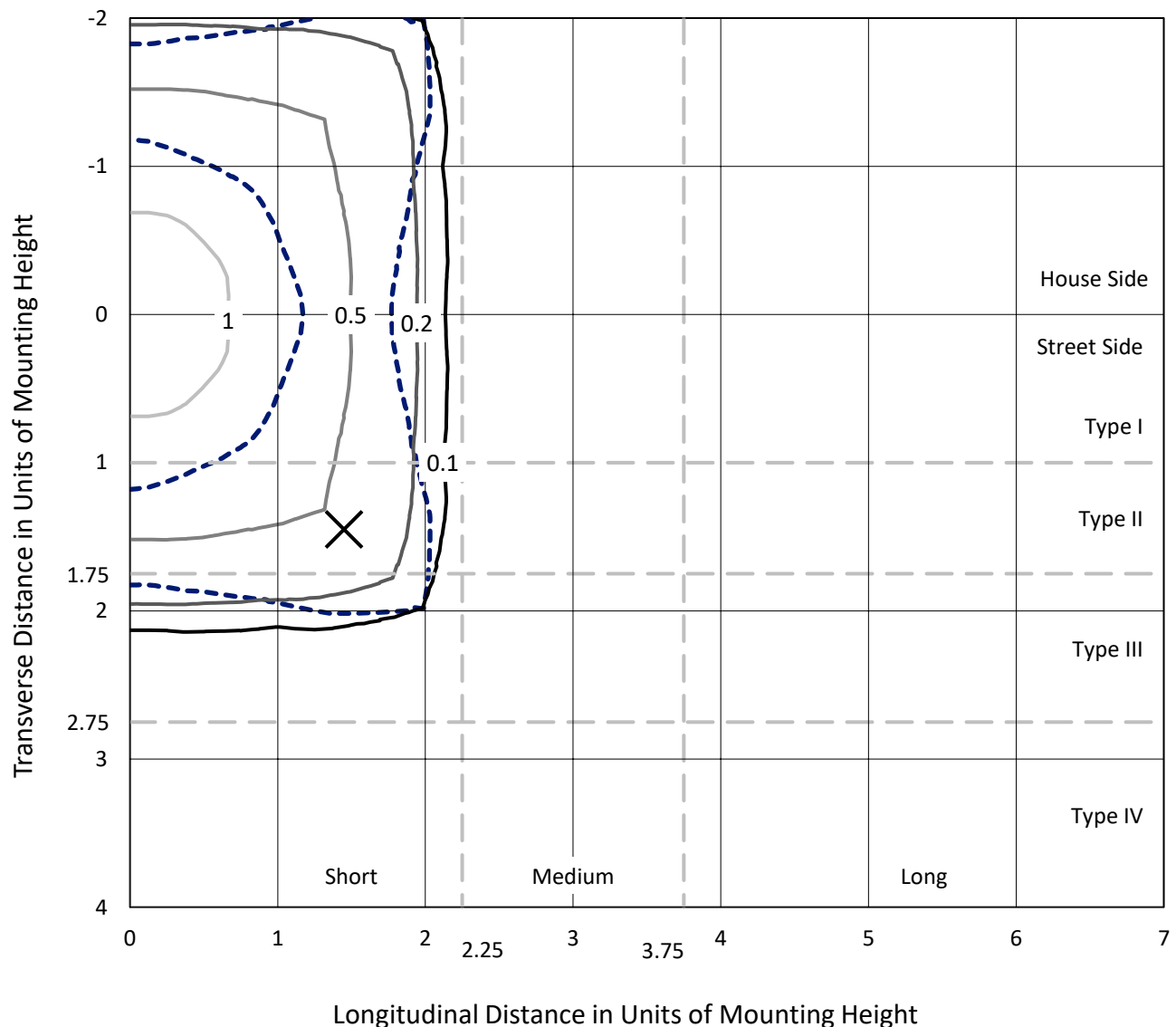


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

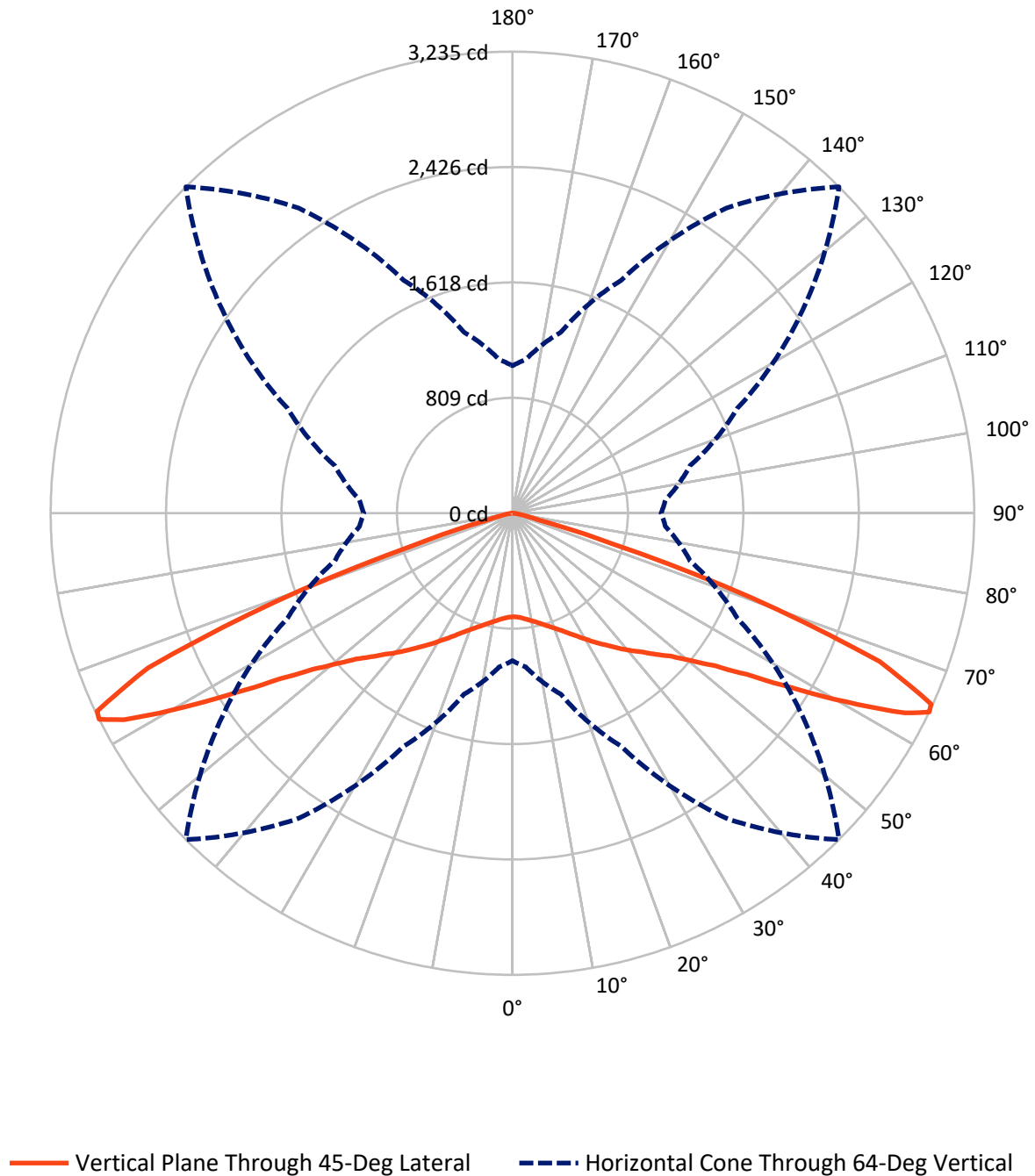


Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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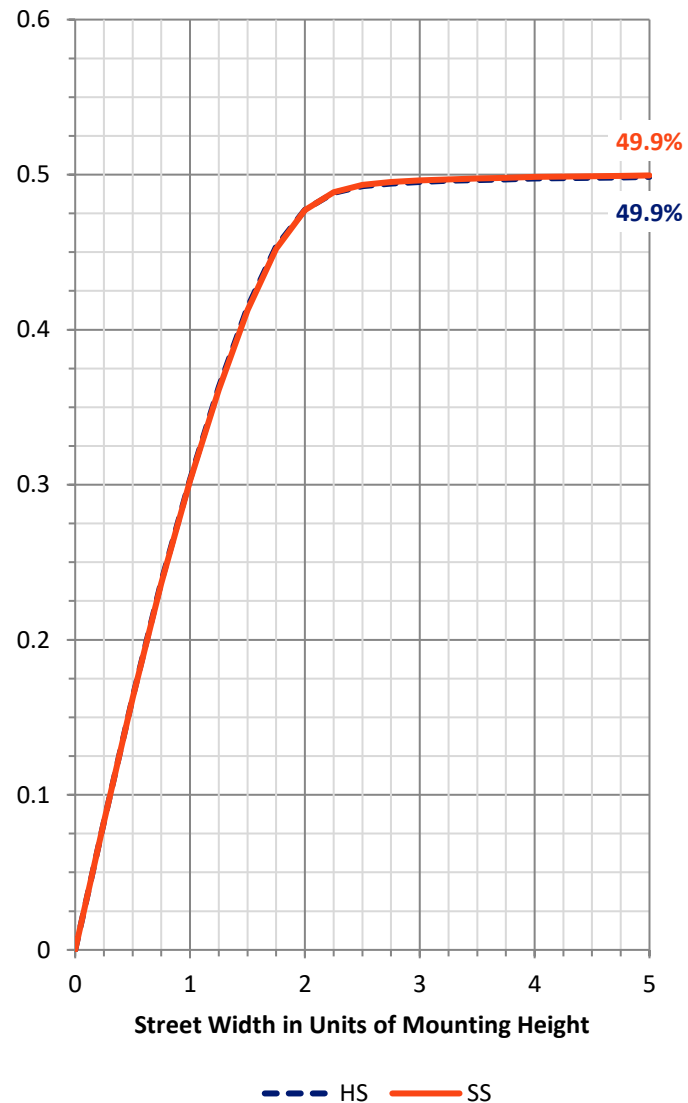
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3002.5   | 0.0    | 3002.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3002.5   | 0.0    | 3002.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 6005.0   | 0.0    | 6005.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 71.3   | 1.2       |
| 10°-20°   | 230.0  | 3.8       |
| 20°-30°   | 434.6  | 7.2       |
| 30°-40°   | 719.8  | 12.0      |
| 40°-50°   | 1123.8 | 18.7      |
| 50°-60°   | 1737.3 | 28.9      |
| 60°-70°   | 1498.1 | 24.9      |
| 70°-80°   | 169.8  | 2.8       |
| 80°-90°   | 20.3   | 0.3       |
| 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°    | 6005.0 | 100.0     |
| 0°-180°   | 6005.0 | 100.0     |

**Coefficient of Utilization**



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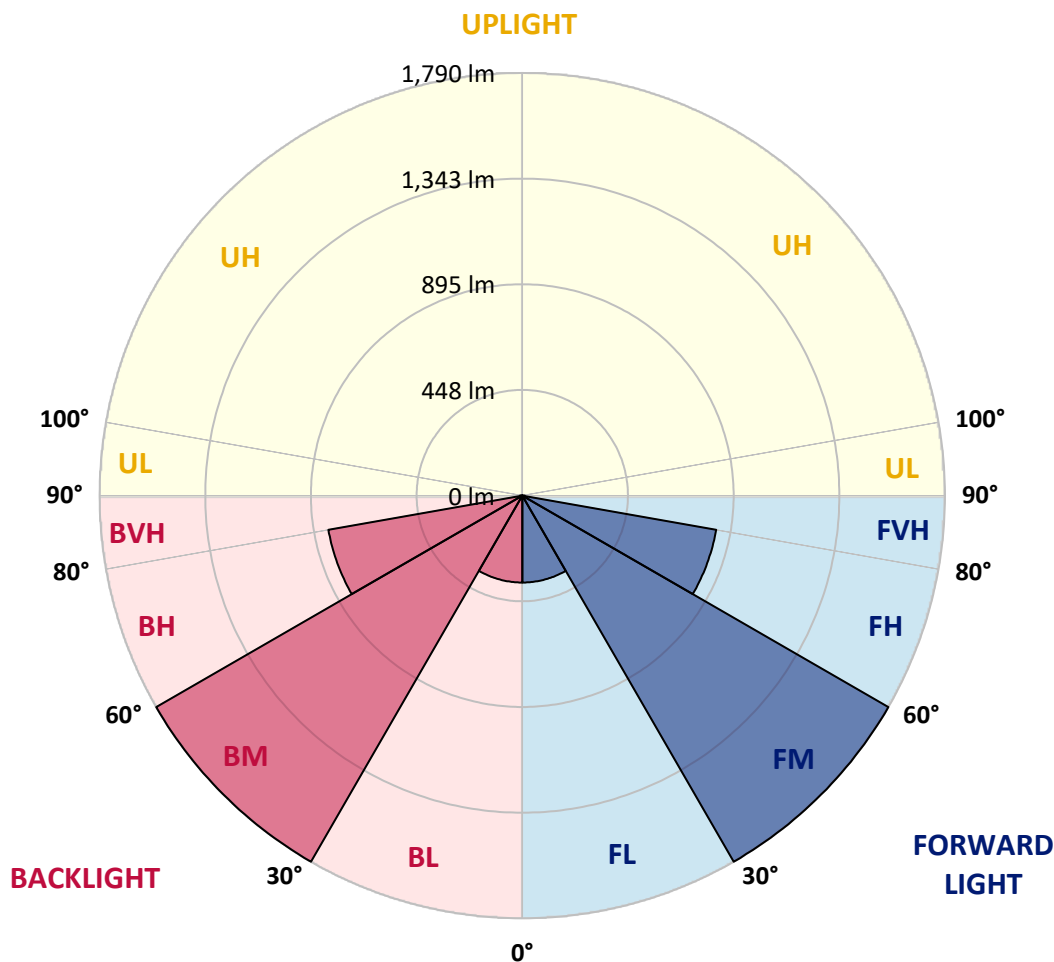
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 368.0  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 1790.4 | 29.8      |                         |      |         |
| FH   | (60°-80°)   | 833.9  | 13.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 10.2   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 368.0  | 6.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1790.4 | 29.8      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 833.9  | 13.9      | B2/1000                 |      | G1/1800 |
| BVH  | (80°-90°)   | 10.2   | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 725.8  | 725.8  | 725.8  | 725.8  | 725.8  | 725.8  | 725.8  | 725.8  | 725.8  | 725.8  | 725.8  |
| 2.5°  | 728.7  | 730.3  | 729.0  | 728.7  | 728.3  | 728.3  | 728.3  | 728.7  | 729.9  | 730.9  | 730.3  |
| 5°    | 737.9  | 739.2  | 738.5  | 738.2  | 737.9  | 737.9  | 737.6  | 737.3  | 738.2  | 738.2  | 737.9  |
| 7.5°  | 749.3  | 750.9  | 750.3  | 750.9  | 751.2  | 751.6  | 750.0  | 748.7  | 748.4  | 749.3  | 748.7  |
| 10°   | 764.9  | 766.2  | 766.5  | 766.8  | 767.5  | 767.2  | 765.2  | 763.0  | 762.7  | 762.4  | 762.1  |
| 12.5° | 782.4  | 783.4  | 783.7  | 785.0  | 785.9  | 786.2  | 784.0  | 782.1  | 778.9  | 779.6  | 778.3  |
| 15°   | 802.1  | 804.0  | 803.7  | 805.6  | 808.2  | 808.8  | 806.6  | 803.4  | 800.5  | 799.0  | 798.0  |
| 17.5° | 826.3  | 827.6  | 826.9  | 828.9  | 832.0  | 833.6  | 831.7  | 827.6  | 824.7  | 821.2  | 819.3  |
| 20°   | 854.9  | 857.2  | 857.8  | 857.8  | 860.7  | 862.3  | 859.4  | 858.1  | 853.7  | 851.1  | 849.5  |
| 22.5° | 887.4  | 888.3  | 890.2  | 892.1  | 895.0  | 894.4  | 893.4  | 891.5  | 887.4  | 885.2  | 882.6  |
| 25°   | 924.0  | 924.9  | 929.7  | 933.8  | 934.8  | 934.1  | 932.9  | 931.9  | 928.1  | 923.0  | 921.1  |
| 27.5° | 966.6  | 968.5  | 974.8  | 978.7  | 978.7  | 979.0  | 976.4  | 979.6  | 971.3  | 965.3  | 964.7  |
| 30°   | 1020.0 | 1021.3 | 1026.7 | 1030.5 | 1028.6 | 1027.0 | 1026.4 | 1029.5 | 1020.6 | 1009.8 | 1007.3 |
| 32.5° | 1072.8 | 1077.3 | 1082.0 | 1090.3 | 1083.6 | 1080.8 | 1080.1 | 1082.3 | 1072.2 | 1060.1 | 1056.6 |
| 35°   | 1129.4 | 1132.6 | 1141.5 | 1148.5 | 1142.5 | 1135.8 | 1138.6 | 1145.6 | 1133.6 | 1117.3 | 1116.7 |
| 37.5° | 1192.1 | 1194.9 | 1206.4 | 1213.7 | 1209.3 | 1197.8 | 1202.6 | 1210.8 | 1198.8 | 1178.7 | 1174.6 |
| 40°   | 1257.3 | 1263.3 | 1277.6 | 1285.3 | 1278.0 | 1262.7 | 1271.6 | 1280.5 | 1269.7 | 1246.5 | 1237.2 |
| 42.5° | 1330.4 | 1340.0 | 1360.6 | 1364.5 | 1350.5 | 1329.8 | 1345.4 | 1359.7 | 1352.1 | 1325.3 | 1321.8 |
| 45°   | 1416.0 | 1421.7 | 1447.2 | 1455.4 | 1436.0 | 1410.3 | 1429.7 | 1455.7 | 1450.0 | 1419.2 | 1412.5 |
| 47.5° | 1511.7 | 1517.1 | 1543.5 | 1555.9 | 1531.4 | 1496.8 | 1531.8 | 1565.8 | 1562.3 | 1529.2 | 1526.0 |
| 50°   | 1625.0 | 1626.2 | 1662.8 | 1676.8 | 1652.3 | 1622.4 | 1653.6 | 1695.9 | 1681.9 | 1639.6 | 1638.9 |
| 52.5° | 1749.0 | 1750.6 | 1796.7 | 1823.7 | 1810.1 | 1776.3 | 1813.2 | 1839.0 | 1803.4 | 1748.0 | 1743.9 |
| 55°   | 1856.5 | 1864.4 | 1927.4 | 1999.3 | 2018.1 | 1993.6 | 2004.7 | 1992.6 | 1904.8 | 1827.2 | 1815.1 |
| 57.5° | 1900.4 | 1916.0 | 2011.7 | 2145.9 | 2268.1 | 2304.3 | 2218.4 | 2103.3 | 1945.2 | 1835.5 | 1823.7 |
| 60°   | 1793.2 | 1810.1 | 1958.6 | 2213.4 | 2525.1 | 2682.5 | 2441.1 | 2122.1 | 1853.3 | 1699.1 | 1680.6 |
| 62.5° | 1436.0 | 1440.8 | 1659.3 | 2054.6 | 2674.9 | 3082.6 | 2534.9 | 1962.1 | 1585.8 | 1376.2 | 1368.9 |
| 64°   | 1033.4 | 1082.3 | 1313.9 | 1801.5 | 2609.3 | 3235.0 | 2480.8 | 1737.9 | 1288.1 | 1076.0 | 1041.6 |
| 65°   | 772.9  | 786.2  | 1059.1 | 1538.4 | 2493.9 | 3223.5 | 2375.9 | 1523.5 | 1066.8 | 823.4  | 785.3  |
| 67.5° | 292.0  | 293.6  | 390.9  | 766.8  | 1775.4 | 2773.5 | 1813.2 | 828.9  | 449.4  | 325.1  | 313.3  |
| 70°   | 121.2  | 123.4  | 143.4  | 257.9  | 763.0  | 1780.8 | 874.3  | 299.0  | 164.4  | 133.3  | 131.4  |
| 72.5° | 88.7   | 90.0   | 96.1   | 114.5  | 234.7  | 731.2  | 287.5  | 126.9  | 96.4   | 86.2   | 85.2   |
| 75°   | 69.7   | 70.3   | 74.7   | 84.3   | 109.4  | 202.6  | 119.6  | 87.1   | 73.5   | 66.2   | 65.5   |
| 77.5° | 53.1   | 54.7   | 57.9   | 64.2   | 73.5   | 96.1   | 79.2   | 65.2   | 56.6   | 50.6   | 49.6   |
| 80°   | 36.6   | 38.5   | 44.5   | 47.1   | 49.3   | 62.3   | 54.1   | 49.3   | 44.2   | 36.9   | 34.7   |
| 82.5° | 22.6   | 23.9   | 29.9   | 32.1   | 31.2   | 35.0   | 34.7   | 35.3   | 31.5   | 22.9   | 21.3   |
| 85°   | 11.8   | 12.4   | 16.2   | 16.9   | 15.6   | 14.3   | 17.8   | 20.7   | 19.4   | 13.0   | 12.7   |
| 87.5° | 2.5    | 2.9    | 3.5    | 3.2    | 3.5    | 3.5    | 4.5    | 6.7    | 7.0    | 4.5    | 4.1    |
| 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)