

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: P961481

Luminaire Tested: **NVN-SB2A-760-U-5MQ**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P961481  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB2A-760-U-5MQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 5700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 10187.4 lumens  
Efficiency: N/A  
Efficacy: 177.8 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): 57.3  
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

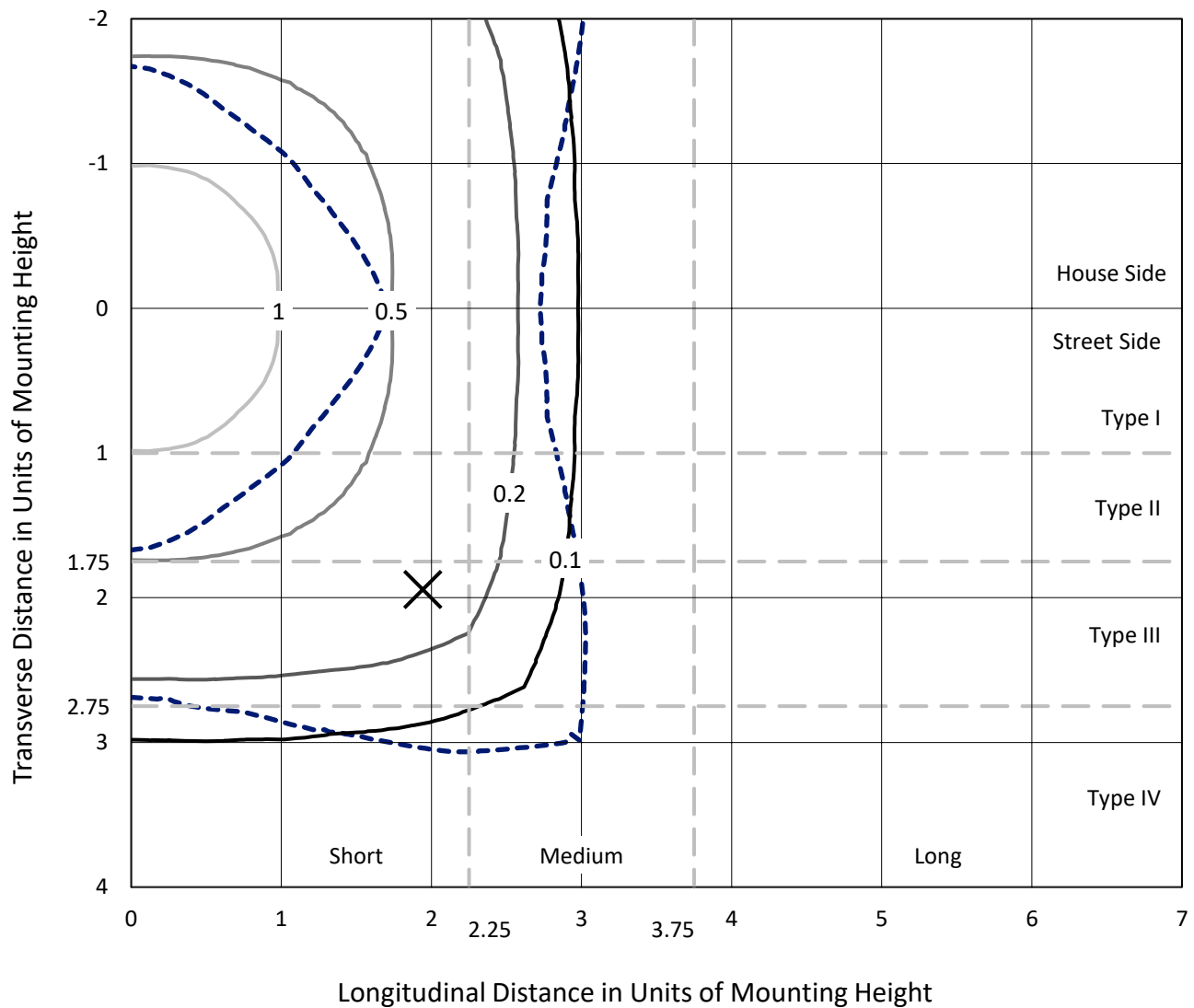


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## Iso-Footcandle Lines of Horizontal Illumination

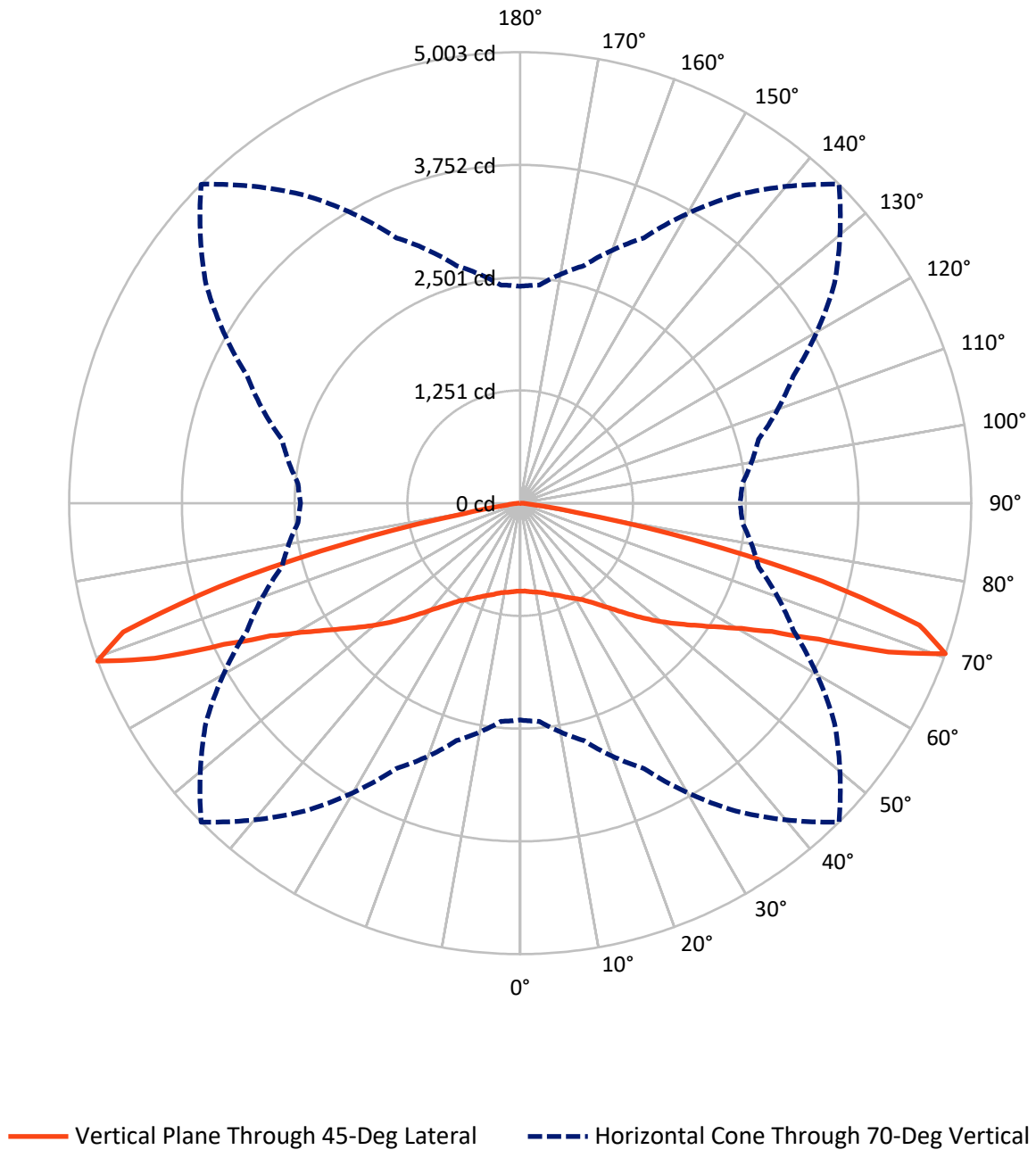
× Max cd  
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
Type V - Short - N/A

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## Luminous Intensity Polar Plot



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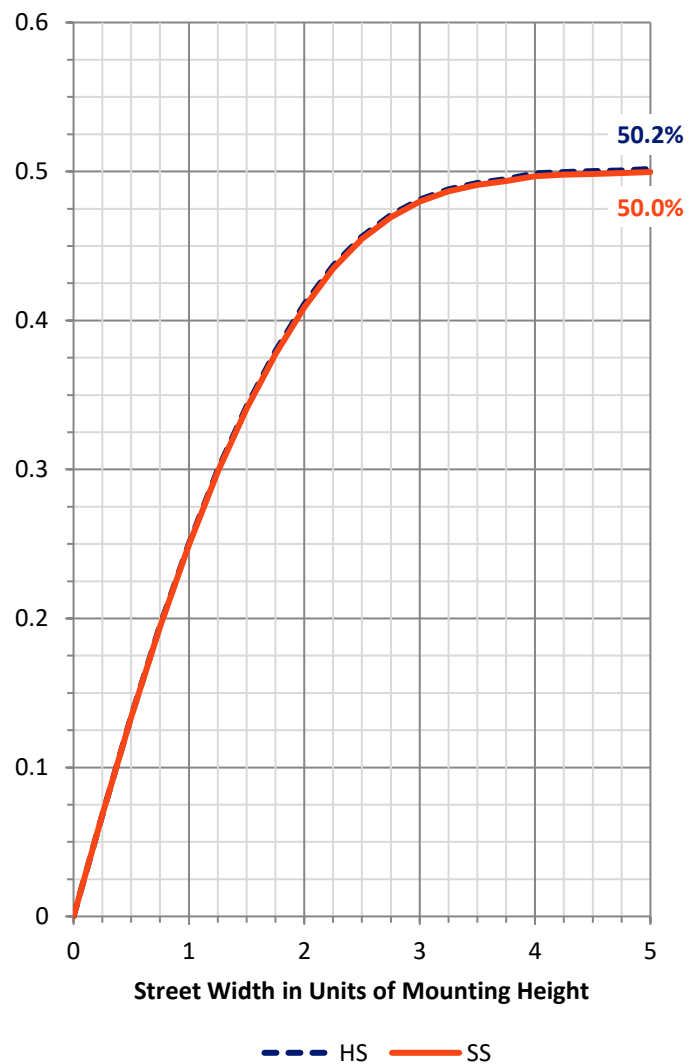
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5093.7   | 0.0    | 5093.7  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5093.7   | 0.0    | 5093.7  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 10187.4  | 0.0    | 10187.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 94.8    | 0.9       |
| 10°-20°   | 294.0   | 2.9       |
| 20°-30°   | 525.4   | 5.2       |
| 30°-40°   | 851.6   | 8.4       |
| 40°-50°   | 1387.1  | 13.6      |
| 50°-60°   | 2114.9  | 20.8      |
| 60°-70°   | 3146.3  | 30.9      |
| 70°-80°   | 1714.9  | 16.8      |
| 80°-90°   | 58.4    | 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°    | 10187.4 | 100.0     |
| 0°-180°   | 10187.4 | 100.0     |

**Coefficient of Utilization**



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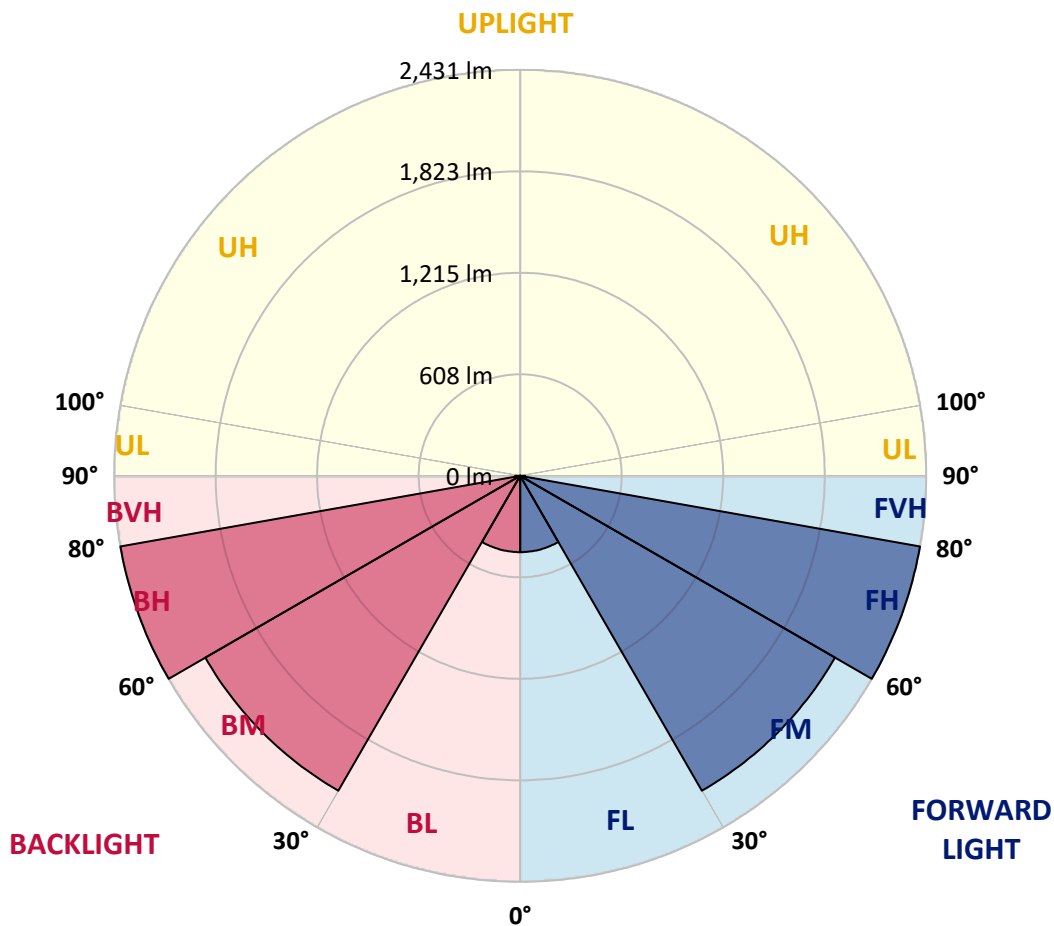
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 457.1  | 4.5       |                         |      |         |
| FM   | (30°-60°)   | 2176.8 | 21.4      |                         |      |         |
| FH   | (60°-80°)   | 2430.6 | 23.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 29.2   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 457.1  | 4.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 2176.8 | 21.4      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 2430.6 | 23.9      | B3/2500                 |      | G2/5000 |
| BVH  | (80°-90°)   | 29.2   | 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-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 975.9  | 975.9  | 975.9  | 975.9  | 975.9  | 975.9  | 975.9  | 975.9  | 975.9  | 975.9  | 975.9  |
| 2.5°  | 980.4  | 981.4  | 979.4  | 978.4  | 977.4  | 975.9  | 976.4  | 978.9  | 980.9  | 980.4  | 980.9  |
| 5°    | 988.6  | 989.6  | 988.1  | 987.6  | 985.5  | 985.0  | 985.0  | 987.6  | 989.1  | 988.1  | 988.6  |
| 7.5°  | 997.8  | 999.4  | 996.8  | 996.3  | 995.3  | 994.2  | 993.7  | 996.3  | 997.8  | 997.8  | 997.8  |
| 10°   | 1006.6 | 1008.1 | 1006.0 | 1004.5 | 1003.5 | 1003.5 | 1002.4 | 1004.5 | 1007.1 | 1006.6 | 1006.6 |
| 12.5° | 1015.8 | 1016.8 | 1014.7 | 1013.7 | 1013.7 | 1015.3 | 1013.7 | 1014.7 | 1016.8 | 1015.8 | 1015.3 |
| 15°   | 1027.0 | 1027.6 | 1027.0 | 1028.5 | 1031.0 | 1036.2 | 1031.6 | 1030.5 | 1031.6 | 1029.0 | 1029.0 |
| 17.5° | 1042.3 | 1043.3 | 1045.4 | 1049.0 | 1052.6 | 1061.8 | 1053.6 | 1051.0 | 1051.0 | 1045.9 | 1045.9 |
| 20°   | 1061.3 | 1062.8 | 1065.9 | 1072.0 | 1076.7 | 1085.3 | 1077.2 | 1073.6 | 1072.0 | 1065.4 | 1065.4 |
| 22.5° | 1081.2 | 1083.7 | 1088.3 | 1096.5 | 1104.7 | 1112.9 | 1104.7 | 1098.6 | 1094.0 | 1085.3 | 1084.8 |
| 25°   | 1104.2 | 1107.3 | 1114.5 | 1127.8 | 1139.0 | 1150.8 | 1141.0 | 1128.7 | 1119.6 | 1107.3 | 1106.8 |
| 27.5° | 1136.9 | 1140.5 | 1149.2 | 1165.6 | 1179.9 | 1190.1 | 1180.9 | 1165.1 | 1152.3 | 1137.4 | 1136.9 |
| 30°   | 1183.0 | 1186.5 | 1196.8 | 1214.2 | 1224.0 | 1230.5 | 1224.5 | 1212.2 | 1196.8 | 1179.9 | 1179.9 |
| 32.5° | 1242.3 | 1246.9 | 1258.2 | 1274.6 | 1276.6 | 1277.7 | 1275.6 | 1269.5 | 1258.2 | 1237.7 | 1238.2 |
| 35°   | 1317.5 | 1322.7 | 1335.4 | 1348.7 | 1346.6 | 1348.7 | 1345.6 | 1343.6 | 1335.4 | 1311.9 | 1311.9 |
| 37.5° | 1409.6 | 1415.7 | 1429.0 | 1439.2 | 1434.1 | 1431.5 | 1432.0 | 1432.5 | 1428.0 | 1401.9 | 1401.9 |
| 40°   | 1516.5 | 1524.7 | 1534.3 | 1545.1 | 1536.4 | 1528.8 | 1533.8 | 1537.9 | 1533.8 | 1507.3 | 1507.3 |
| 42.5° | 1626.5 | 1638.2 | 1648.4 | 1663.8 | 1656.6 | 1646.9 | 1654.0 | 1658.7 | 1649.9 | 1621.3 | 1623.4 |
| 45°   | 1748.6 | 1759.9 | 1773.2 | 1796.2 | 1791.1 | 1780.8 | 1791.1 | 1792.1 | 1777.4 | 1743.5 | 1747.1 |
| 47.5° | 1875.0 | 1886.7 | 1906.7 | 1937.4 | 1935.3 | 1924.1 | 1937.4 | 1930.2 | 1911.3 | 1870.9 | 1868.4 |
| 50°   | 1994.6 | 2011.0 | 2041.7 | 2084.6 | 2088.7 | 2075.0 | 2092.8 | 2079.1 | 2047.3 | 1996.7 | 1995.7 |
| 52.5° | 2107.2 | 2124.6 | 2173.2 | 2231.4 | 2246.3 | 2228.5 | 2252.4 | 2228.5 | 2180.8 | 2115.9 | 2109.8 |
| 55°   | 2225.4 | 2244.8 | 2302.6 | 2378.8 | 2408.4 | 2395.1 | 2417.7 | 2381.3 | 2313.8 | 2235.0 | 2224.4 |
| 57.5° | 2364.5 | 2376.3 | 2445.2 | 2535.7 | 2585.9 | 2588.9 | 2599.2 | 2537.8 | 2456.0 | 2366.5 | 2354.2 |
| 60°   | 2515.4 | 2531.6 | 2606.9 | 2715.3 | 2794.6 | 2820.2 | 2809.4 | 2718.4 | 2623.3 | 2520.5 | 2504.1 |
| 62.5° | 2708.7 | 2726.6 | 2816.6 | 2946.5 | 3071.8 | 3135.2 | 3093.2 | 2961.3 | 2843.7 | 2720.5 | 2698.9 |
| 65°   | 2868.8 | 2888.7 | 3051.3 | 3283.1 | 3511.1 | 3638.4 | 3533.2 | 3290.1 | 3078.5 | 2904.5 | 2875.9 |
| 67.5° | 2752.6 | 2777.2 | 3032.5 | 3457.9 | 4025.2 | 4405.1 | 4044.5 | 3510.1 | 3095.3 | 2859.5 | 2824.3 |
| 70°   | 2405.9 | 2428.9 | 2726.6 | 3246.7 | 4169.9 | 5002.5 | 4256.8 | 3342.3 | 2736.2 | 2472.4 | 2437.0 |
| 72.5° | 1597.3 | 1671.5 | 1972.7 | 2596.6 | 3723.4 | 4629.2 | 3760.2 | 2543.9 | 1829.9 | 1593.7 | 1542.0 |
| 75°   | 529.8  | 589.2  | 794.8  | 1346.1 | 2493.8 | 3462.0 | 2374.2 | 1191.2 | 629.6  | 453.2  | 428.6  |
| 77.5° | 133.5  | 154.0  | 212.3  | 385.1  | 994.8  | 1971.2 | 895.5  | 314.6  | 171.4  | 119.7  | 106.9  |
| 80°   | 65.0   | 71.6   | 102.3  | 128.3  | 249.1  | 626.6  | 233.7  | 120.7  | 80.8   | 62.4   | 57.3   |
| 82.5° | 35.8   | 36.3   | 57.8   | 72.7   | 92.6   | 162.2  | 96.1   | 70.6   | 46.5   | 37.8   | 37.8   |
| 85°   | 22.0   | 21.5   | 30.6   | 38.8   | 38.8   | 57.8   | 46.0   | 38.8   | 26.5   | 23.6   | 24.6   |
| 87.5° | 8.7    | 8.7    | 11.3   | 12.3   | 10.8   | 14.9   | 11.8   | 12.8   | 10.2   | 9.7    | 10.2   |
| 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)