

Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1208902

Luminaire Tested: UPW-SA2-070-827-U-5NQ

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1208902  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-070-827-U-5NQ  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7375 lumens  
Efficiency: N/A  
Efficacy: 111.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

Input Watts (W): 66  
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

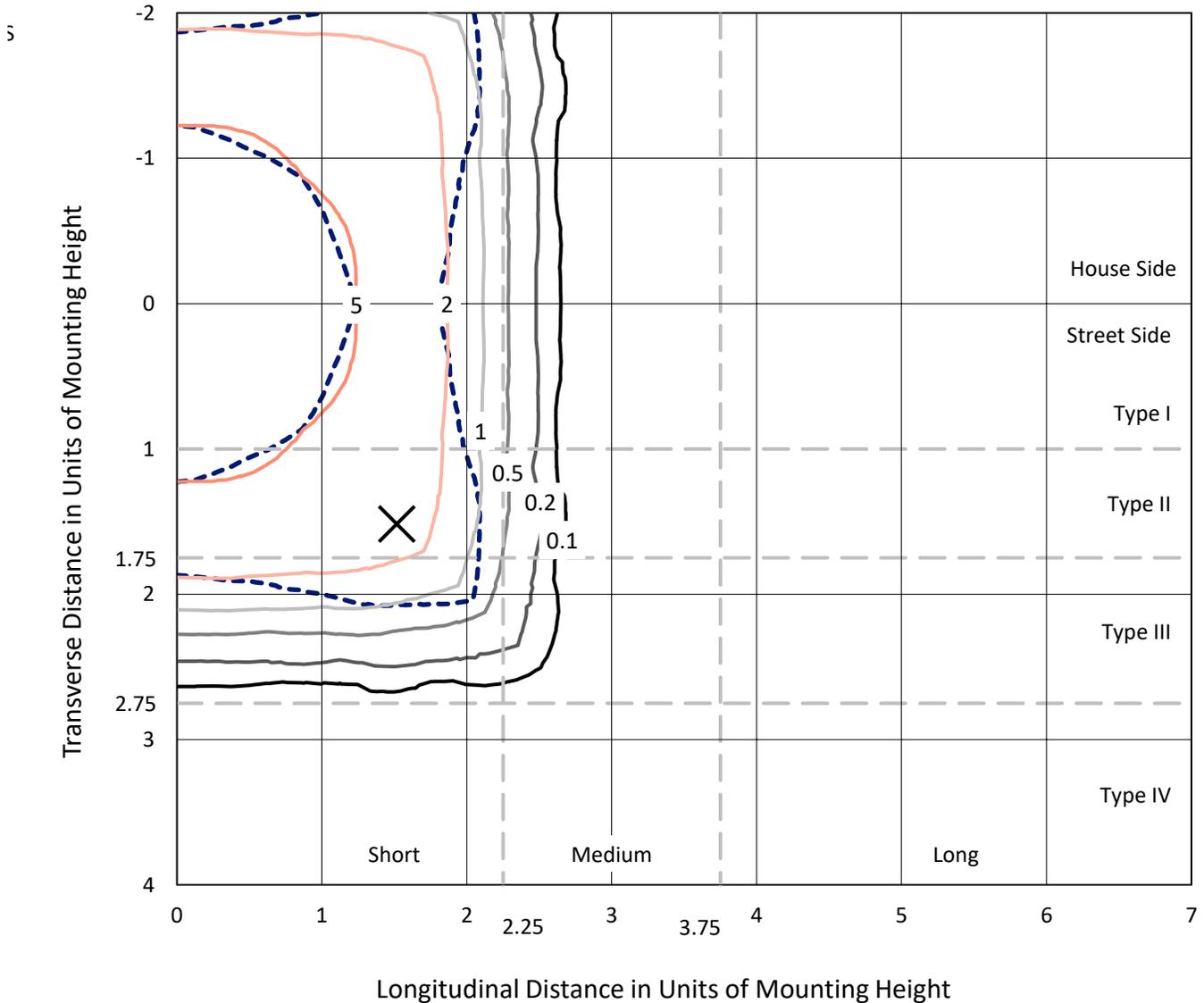


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### Iso-Footcandle Lines of Horizontal Illumination

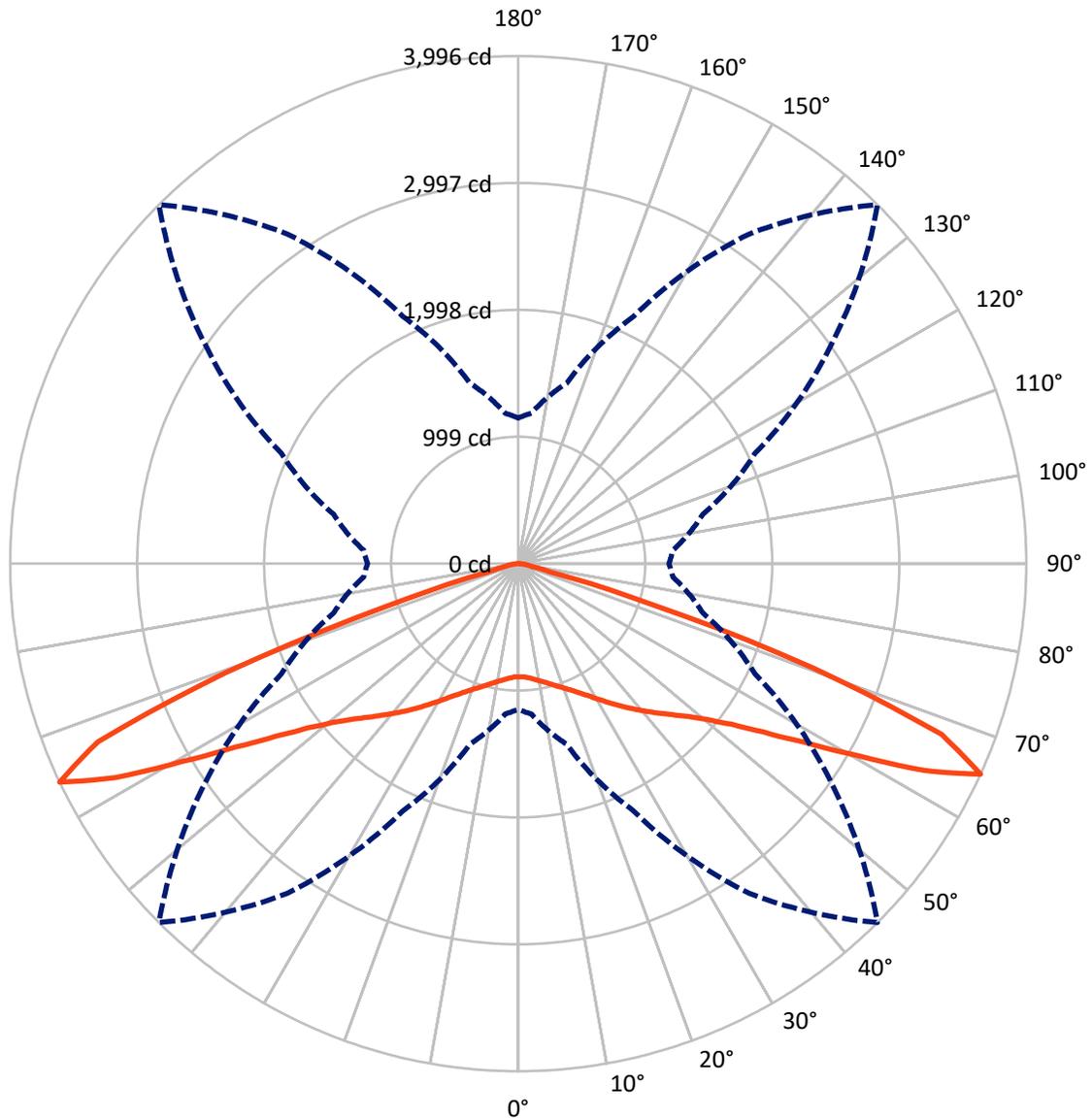
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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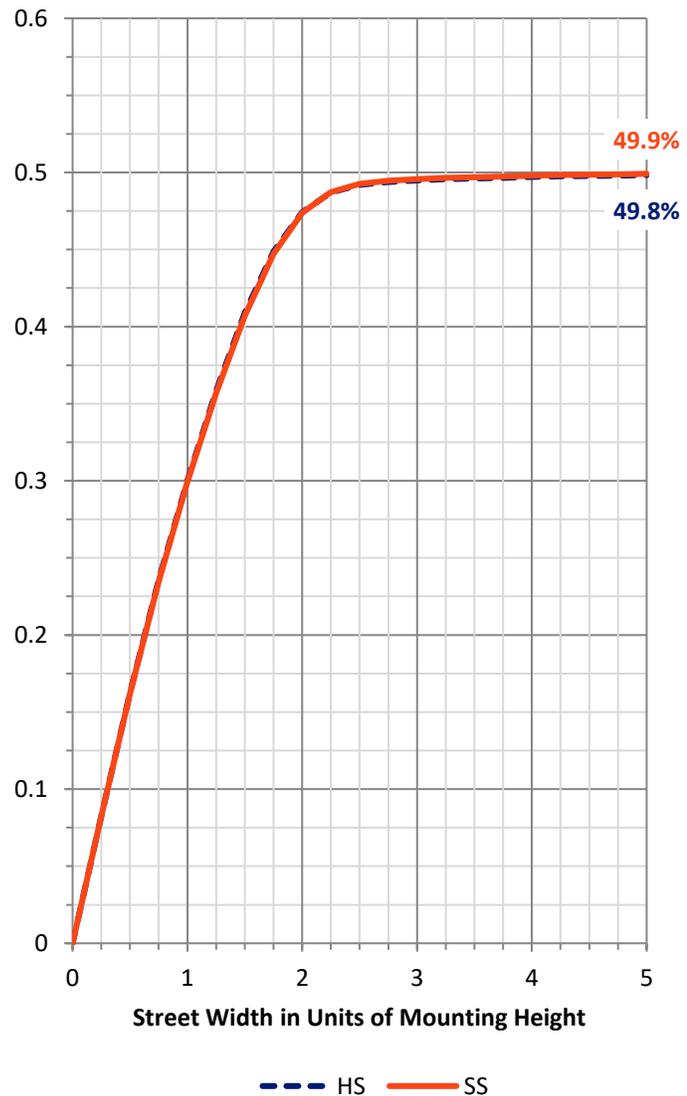
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3687.5   | 0.0    | 3687.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3687.5   | 0.0    | 3687.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 7375.0   | 0.0    | 7375.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 87.4   | 1.2       |
| 10°-20°   | 280.9  | 3.8       |
| 20°-30°   | 527.0  | 7.1       |
| 30°-40°   | 871.5  | 11.8      |
| 40°-50°   | 1349.8 | 18.3      |
| 50°-60°   | 2070.3 | 28.1      |
| 60°-70°   | 1931.8 | 26.2      |
| 70°-80°   | 224.8  | 3.0       |
| 80°-90°   | 31.6   | 0.4       |
| 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°    | 7375.0 | 100.0     |
| 0°-180°   | 7375.0 | 100.0     |

**Coefficient of Utilization**



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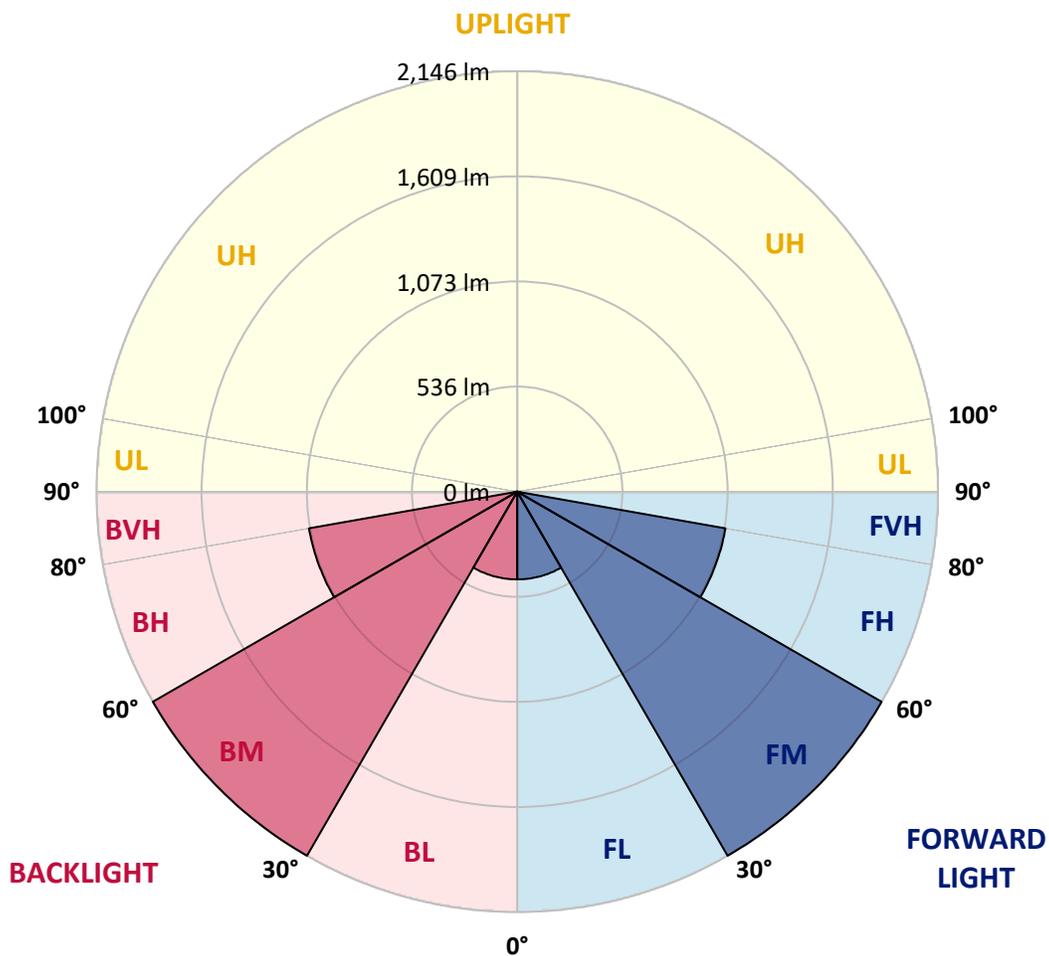
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 447.6  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 2145.8 | 29.1      |                         |      |         |
| FH   | (60°-80°)   | 1078.3 | 14.6      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 15.8   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 447.6  | 6.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 2145.8 | 29.1      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1078.3 | 14.6      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 15.8   | 0.2       |                         |      | 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°    | 890.6  | 890.6  | 890.6  | 890.6  | 890.6  | 890.6  | 890.6  | 890.6  | 890.6  | 890.6  | 890.6  |
| 2.5°  | 893.6  | 893.1  | 893.6  | 893.8  | 892.3  | 893.1  | 892.8  | 894.1  | 894.5  | 894.1  | 894.1  |
| 5°    | 903.8  | 903.1  | 904.1  | 905.3  | 903.4  | 903.8  | 903.1  | 904.6  | 905.1  | 904.1  | 904.8  |
| 7.5°  | 918.0  | 918.3  | 919.3  | 921.5  | 920.2  | 921.2  | 919.8  | 920.0  | 919.8  | 918.3  | 918.5  |
| 10°   | 933.5  | 933.7  | 935.4  | 938.4  | 938.9  | 938.9  | 937.9  | 937.1  | 936.2  | 935.2  | 935.4  |
| 12.5° | 952.1  | 953.3  | 954.5  | 958.2  | 958.2  | 960.2  | 959.7  | 957.7  | 956.0  | 954.5  | 954.5  |
| 15°   | 977.3  | 977.0  | 978.5  | 982.2  | 983.9  | 987.1  | 987.1  | 984.4  | 982.2  | 980.7  | 980.2  |
| 17.5° | 1003.7 | 1004.5 | 1005.4 | 1009.8 | 1012.5 | 1016.2 | 1016.7 | 1014.5 | 1013.0 | 1011.1 | 1009.8 |
| 20°   | 1034.6 | 1035.8 | 1039.7 | 1041.4 | 1043.9 | 1047.3 | 1048.5 | 1048.0 | 1046.6 | 1045.6 | 1045.8 |
| 22.5° | 1070.6 | 1073.7 | 1076.2 | 1078.6 | 1081.6 | 1084.0 | 1085.2 | 1087.0 | 1085.5 | 1084.8 | 1084.3 |
| 25°   | 1114.1 | 1116.3 | 1121.2 | 1125.6 | 1127.6 | 1128.3 | 1129.8 | 1132.3 | 1132.0 | 1130.3 | 1130.3 |
| 27.5° | 1163.6 | 1167.8 | 1173.9 | 1180.2 | 1180.2 | 1177.8 | 1182.7 | 1186.8 | 1185.4 | 1183.2 | 1180.2 |
| 30°   | 1223.6 | 1227.5 | 1234.6 | 1243.4 | 1239.0 | 1237.3 | 1243.9 | 1251.5 | 1249.3 | 1245.6 | 1245.1 |
| 32.5° | 1288.2 | 1291.9 | 1301.2 | 1310.7 | 1305.1 | 1302.6 | 1309.7 | 1320.8 | 1316.8 | 1309.5 | 1305.1 |
| 35°   | 1358.2 | 1361.9 | 1375.1 | 1386.6 | 1377.1 | 1372.9 | 1378.8 | 1390.8 | 1383.9 | 1370.2 | 1366.8 |
| 37.5° | 1434.4 | 1436.3 | 1453.4 | 1465.2 | 1458.6 | 1447.6 | 1454.9 | 1463.7 | 1457.9 | 1441.2 | 1434.6 |
| 40°   | 1513.4 | 1520.5 | 1540.4 | 1554.1 | 1542.6 | 1525.2 | 1537.4 | 1549.7 | 1540.8 | 1519.5 | 1508.3 |
| 42.5° | 1605.7 | 1611.1 | 1637.5 | 1649.8 | 1631.2 | 1606.7 | 1623.3 | 1640.0 | 1631.2 | 1610.6 | 1600.8 |
| 45°   | 1701.7 | 1710.0 | 1741.6 | 1753.8 | 1726.9 | 1695.8 | 1716.1 | 1745.3 | 1744.5 | 1714.9 | 1704.6 |
| 47.5° | 1806.2 | 1814.5 | 1852.2 | 1868.4 | 1839.3 | 1797.7 | 1826.3 | 1867.4 | 1864.5 | 1831.9 | 1823.6 |
| 50°   | 1926.9 | 1935.7 | 1982.7 | 2003.0 | 1975.9 | 1927.4 | 1970.5 | 2006.7 | 2001.3 | 1961.2 | 1961.9 |
| 52.5° | 2078.5 | 2078.0 | 2136.5 | 2171.7 | 2143.8 | 2101.0 | 2140.6 | 2175.9 | 2153.6 | 2098.0 | 2096.3 |
| 55°   | 2211.1 | 2219.2 | 2291.7 | 2358.5 | 2356.8 | 2340.4 | 2356.3 | 2357.8 | 2294.1 | 2220.2 | 2211.1 |
| 57.5° | 2298.3 | 2313.7 | 2415.8 | 2536.7 | 2627.3 | 2649.1 | 2618.3 | 2524.7 | 2375.7 | 2257.4 | 2243.0 |
| 60°   | 2244.7 | 2268.2 | 2428.5 | 2675.1 | 2941.9 | 3069.9 | 2895.9 | 2605.8 | 2312.2 | 2147.5 | 2127.9 |
| 62.5° | 1882.8 | 1922.5 | 2157.3 | 2608.2 | 3212.7 | 3587.0 | 3097.1 | 2475.8 | 2060.1 | 1833.1 | 1799.6 |
| 65°   | 1146.7 | 1188.6 | 1471.6 | 2146.8 | 3168.8 | 3996.3 | 3005.3 | 2054.9 | 1503.6 | 1221.4 | 1185.1 |
| 67.5° | 382.2  | 394.4  | 561.1  | 1186.6 | 2490.5 | 3590.7 | 2494.6 | 1230.2 | 654.4  | 433.8  | 421.1  |
| 70°   | 149.6  | 150.8  | 178.0  | 344.0  | 1176.1 | 2466.2 | 1297.7 | 350.1  | 186.1  | 147.1  | 150.3  |
| 72.5° | 109.9  | 110.4  | 118.0  | 143.7  | 306.5  | 1086.5 | 317.5  | 144.4  | 114.8  | 103.1  | 103.1  |
| 75°   | 88.4   | 88.4   | 93.8   | 104.8  | 137.3  | 249.2  | 139.3  | 103.6  | 89.8   | 82.3   | 81.3   |
| 77.5° | 69.8   | 71.2   | 75.4   | 82.5   | 93.0   | 120.0  | 96.5   | 82.0   | 72.5   | 65.4   | 63.9   |
| 80°   | 51.9   | 53.4   | 60.2   | 63.7   | 66.8   | 83.2   | 71.2   | 64.1   | 57.3   | 49.0   | 47.5   |
| 82.5° | 34.0   | 35.5   | 44.1   | 46.0   | 45.3   | 54.3   | 48.0   | 47.2   | 42.1   | 31.6   | 30.1   |
| 85°   | 22.3   | 22.8   | 29.4   | 30.6   | 28.2   | 24.7   | 30.6   | 32.3   | 29.4   | 20.6   | 19.8   |
| 87.5° | 10.5   | 10.5   | 14.9   | 14.0   | 12.7   | 10.3   | 14.0   | 16.4   | 16.6   | 10.0   | 9.8    |
| 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)