

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: P1209012

Luminaire Tested: UPW-SA2-090-730-U-RW

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209012  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/20/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-090-730-U-RW  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OF  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11102 lumens  
Efficiency: N/A  
Efficacy: 129.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

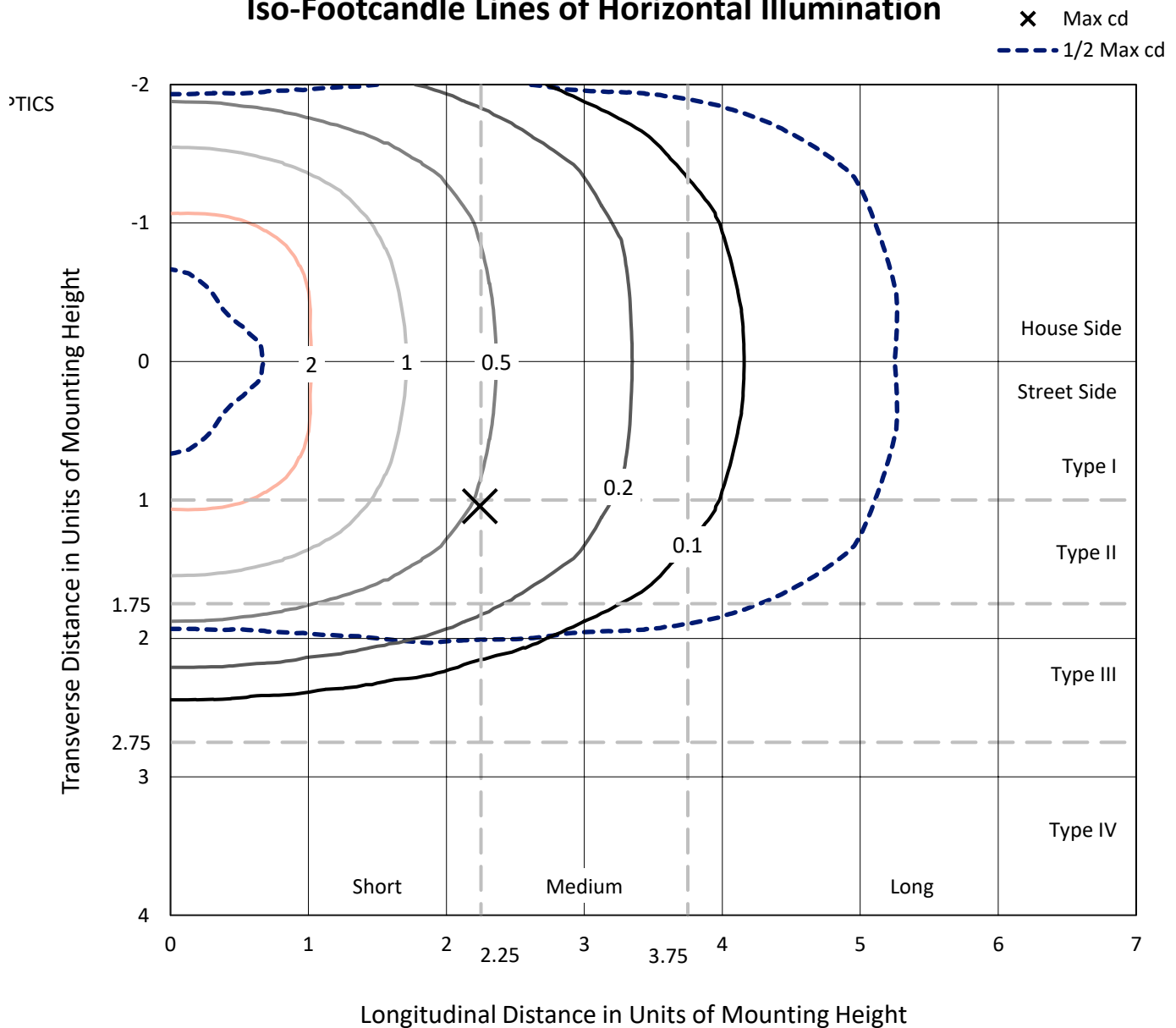
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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## Iso-Footcandle Lines of Horizontal Illumination

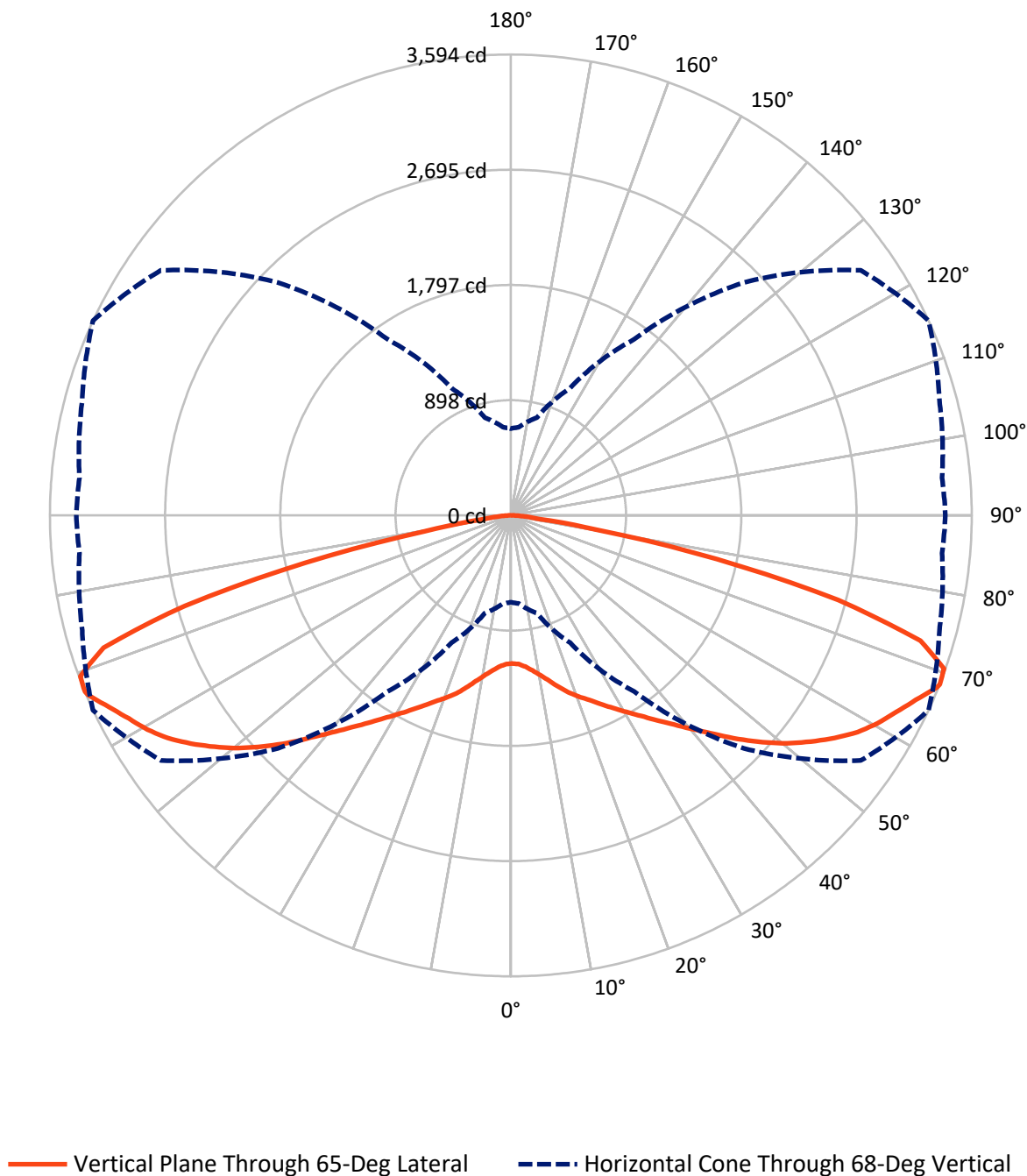


Based on 20 foot mounting height. Maximum calculated value = 3.3 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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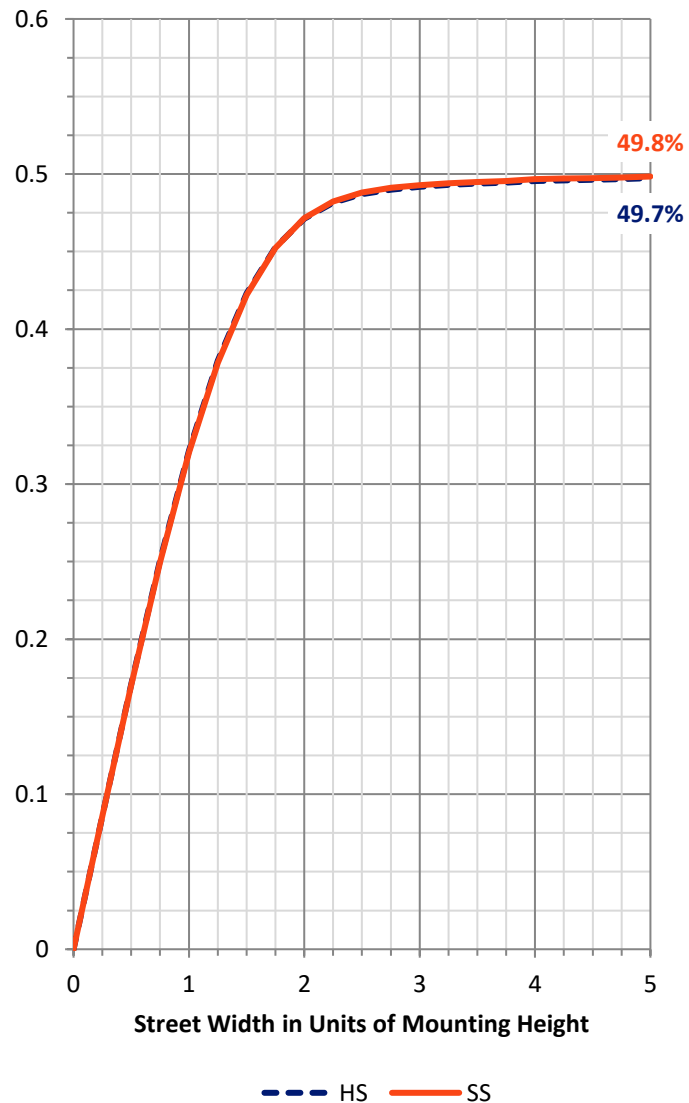
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5551.0   | 0.0    | 5551.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5551.0   | 0.0    | 5551.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 11102.0  | 0.0    | 11102.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 113.0   | 1.0       |
| 10°-20°   | 378.4   | 3.4       |
| 20°-30°   | 737.8   | 6.6       |
| 30°-40°   | 1239.5  | 11.2      |
| 40°-50°   | 1953.1  | 17.6      |
| 50°-60°   | 2611.9  | 23.5      |
| 60°-70°   | 2539.1  | 22.9      |
| 70°-80°   | 1388.0  | 12.5      |
| 80°-90°   | 141.2   | 1.3       |
| 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°    | 11102.0 | 100.0     |
| 0°-180°   | 11102.0 | 100.0     |

**Coefficient of Utilization**



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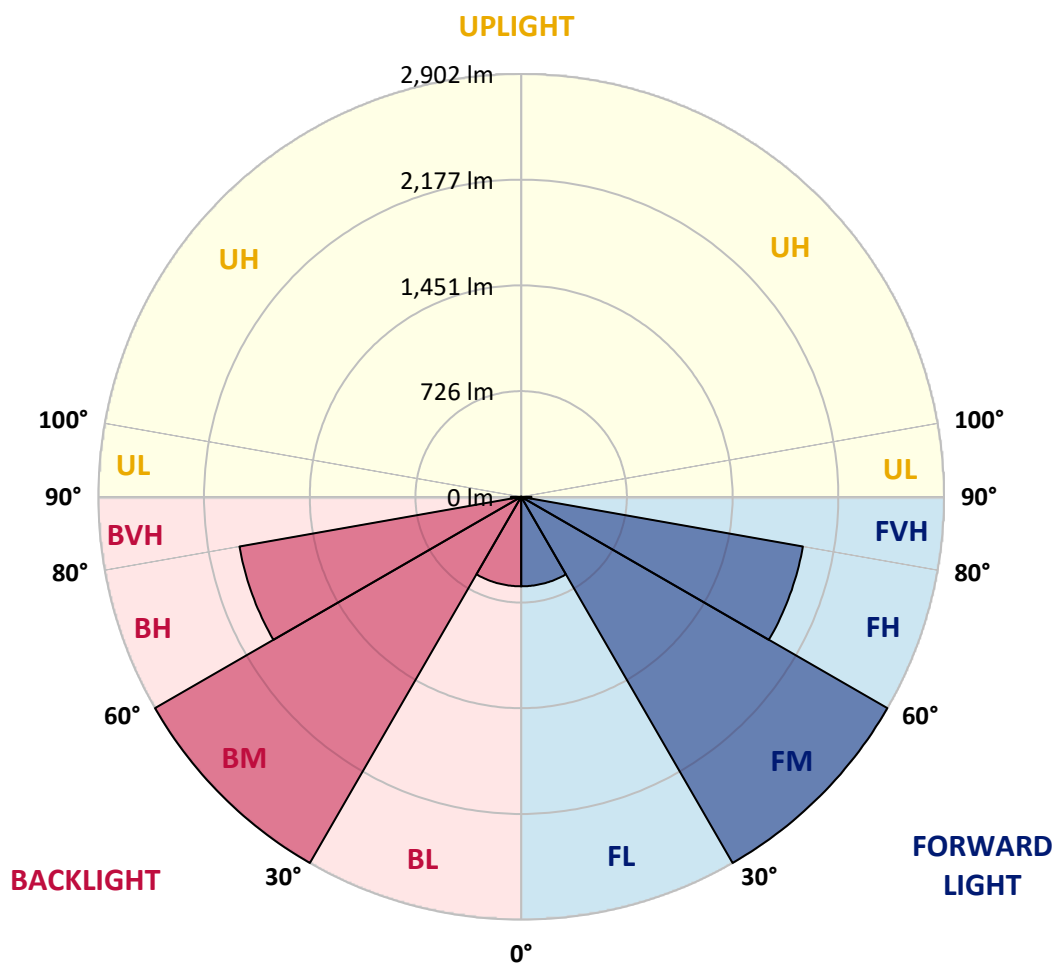
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 614.6  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 2902.2 | 26.1      |                         |      |         |
| FH   | (60°-80°)   | 1963.5 | 17.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 70.6   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 614.6  | 5.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2902.2 | 26.1      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1963.5 | 17.7      | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 70.6   | 0.6       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1154.3 | 1154.3 | 1154.3 | 1154.3 | 1154.3 | 1154.3 | 1154.3 | 1154.3 | 1154.3 | 1154.3 | 1154.3 |
| 2.5°  | 1146.2 | 1146.5 | 1148.4 | 1150.6 | 1152.5 | 1157.3 | 1158.4 | 1160.3 | 1161.0 | 1162.9 | 1162.9 |
| 5°    | 1136.1 | 1136.9 | 1141.3 | 1147.3 | 1154.0 | 1165.9 | 1174.4 | 1184.1 | 1189.0 | 1194.2 | 1193.8 |
| 7.5°  | 1135.0 | 1136.9 | 1143.2 | 1152.9 | 1164.0 | 1183.8 | 1201.6 | 1221.0 | 1234.0 | 1245.9 | 1245.2 |
| 10°   | 1146.5 | 1149.5 | 1158.4 | 1173.0 | 1189.7 | 1214.3 | 1240.7 | 1266.8 | 1289.5 | 1307.7 | 1308.5 |
| 12.5° | 1164.0 | 1167.7 | 1181.9 | 1203.9 | 1229.2 | 1260.8 | 1292.1 | 1321.5 | 1352.8 | 1379.9 | 1382.2 |
| 15°   | 1187.1 | 1191.9 | 1213.2 | 1245.9 | 1284.6 | 1322.2 | 1355.7 | 1385.9 | 1422.0 | 1459.6 | 1463.3 |
| 17.5° | 1221.4 | 1228.1 | 1256.0 | 1300.3 | 1351.3 | 1392.6 | 1427.6 | 1450.3 | 1480.4 | 1519.2 | 1526.2 |
| 20°   | 1273.5 | 1282.0 | 1317.4 | 1370.3 | 1432.4 | 1475.6 | 1502.4 | 1507.2 | 1522.1 | 1556.7 | 1564.9 |
| 22.5° | 1341.2 | 1348.7 | 1388.1 | 1451.0 | 1520.6 | 1567.5 | 1581.7 | 1562.3 | 1560.8 | 1588.8 | 1596.6 |
| 25°   | 1416.8 | 1423.5 | 1469.3 | 1540.0 | 1614.8 | 1666.6 | 1666.2 | 1628.6 | 1602.5 | 1624.1 | 1632.3 |
| 27.5° | 1501.7 | 1512.1 | 1556.0 | 1630.5 | 1710.5 | 1761.5 | 1758.5 | 1700.4 | 1650.9 | 1656.5 | 1663.6 |
| 30°   | 1599.2 | 1610.7 | 1653.5 | 1729.1 | 1809.1 | 1859.0 | 1855.3 | 1778.6 | 1704.2 | 1689.3 | 1694.5 |
| 32.5° | 1720.2 | 1733.9 | 1774.5 | 1849.0 | 1919.7 | 1964.7 | 1953.9 | 1863.5 | 1768.2 | 1735.8 | 1740.6 |
| 35°   | 1865.7 | 1873.9 | 1916.7 | 1990.0 | 2047.4 | 2078.3 | 2055.6 | 1961.8 | 1849.3 | 1810.3 | 1810.3 |
| 37.5° | 2013.1 | 2019.5 | 2067.5 | 2138.6 | 2194.0 | 2210.4 | 2166.1 | 2069.3 | 1955.4 | 1900.0 | 1901.1 |
| 40°   | 2154.6 | 2171.7 | 2225.7 | 2298.6 | 2353.4 | 2357.8 | 2299.0 | 2192.2 | 2073.4 | 2016.1 | 2022.8 |
| 42.5° | 2302.4 | 2319.1 | 2383.5 | 2466.2 | 2514.5 | 2522.0 | 2453.1 | 2329.9 | 2206.7 | 2160.2 | 2167.6 |
| 45°   | 2434.1 | 2447.5 | 2522.0 | 2618.0 | 2678.3 | 2697.7 | 2616.2 | 2487.7 | 2350.8 | 2305.3 | 2307.2 |
| 47.5° | 2526.1 | 2543.6 | 2625.5 | 2738.6 | 2826.5 | 2856.3 | 2776.2 | 2641.5 | 2492.6 | 2437.5 | 2442.3 |
| 50°   | 2609.5 | 2618.8 | 2701.8 | 2825.4 | 2937.1 | 2998.5 | 2930.0 | 2793.4 | 2635.9 | 2577.5 | 2582.7 |
| 52.5° | 2656.0 | 2667.9 | 2748.3 | 2877.1 | 3009.3 | 3108.3 | 3066.6 | 2930.0 | 2774.4 | 2717.4 | 2723.8 |
| 55°   | 2623.6 | 2632.6 | 2729.0 | 2888.7 | 3053.9 | 3176.0 | 3182.4 | 3063.6 | 2910.2 | 2860.4 | 2878.2 |
| 57.5° | 2476.2 | 2487.4 | 2605.0 | 2814.2 | 3059.5 | 3221.8 | 3269.5 | 3187.6 | 3037.2 | 2996.6 | 3007.0 |
| 60°   | 2245.8 | 2252.9 | 2378.3 | 2613.6 | 2950.8 | 3240.8 | 3324.9 | 3288.8 | 3161.5 | 3120.9 | 3135.1 |
| 62.5° | 1835.2 | 1845.6 | 1995.6 | 2310.9 | 2721.1 | 3184.6 | 3378.5 | 3372.6 | 3277.3 | 3240.1 | 3252.7 |
| 65°   | 1254.5 | 1272.7 | 1438.7 | 1837.4 | 2367.1 | 3012.6 | 3427.3 | 3470.1 | 3379.7 | 3332.8 | 3349.5 |
| 67.5° | 757.5  | 770.9  | 891.2  | 1213.2 | 1811.4 | 2665.7 | 3377.1 | 3581.0 | 3451.9 | 3376.3 | 3390.1 |
| 68°   | 677.1  | 689.4  | 789.9  | 1094.8 | 1675.5 | 2567.8 | 3331.3 | 3593.7 | 3459.7 | 3375.6 | 3387.8 |
| 70°   | 409.1  | 417.3  | 484.7  | 676.8  | 1117.1 | 2037.0 | 3018.9 | 3583.3 | 3509.6 | 3386.0 | 3393.1 |
| 72.5° | 266.5  | 269.1  | 280.3  | 347.3  | 570.7  | 1139.1 | 2265.9 | 3339.1 | 3584.4 | 3446.7 | 3445.5 |
| 75°   | 221.5  | 220.0  | 221.1  | 228.9  | 281.4  | 499.6  | 1324.1 | 2637.8 | 3416.9 | 3351.0 | 3327.5 |
| 77.5° | 187.2  | 186.1  | 185.8  | 186.1  | 188.4  | 241.2  | 574.8  | 1643.1 | 2614.7 | 2964.2 | 2985.1 |
| 80°   | 151.5  | 150.0  | 154.9  | 152.6  | 145.9  | 150.0  | 240.8  | 683.5  | 1232.5 | 1326.0 | 1242.6 |
| 82.5° | 110.2  | 104.6  | 125.4  | 119.5  | 113.9  | 105.7  | 132.9  | 220.7  | 294.1  | 201.8  | 141.8  |
| 85°   | 84.9   | 78.9   | 95.3   | 91.6   | 78.2   | 54.0   | 78.9   | 108.0  | 119.1  | 68.1   | 53.6   |
| 87.5° | 34.6   | 36.5   | 68.9   | 54.3   | 45.8   | 26.1   | 32.4   | 43.2   | 58.1   | 29.0   | 22.3   |
| 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)