

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: INVUE

Report Number: P672760

Luminaire Tested: **CCP-SA-2C-840-U-5NQ**

Issue Date: 04/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P672760  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2C-840-U-5NQ  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @615mA w/ 5NQ  
distribution lens  
Light Source: (32) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8021.9 lumens  
Efficiency: N/A  
Efficacy: 129.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

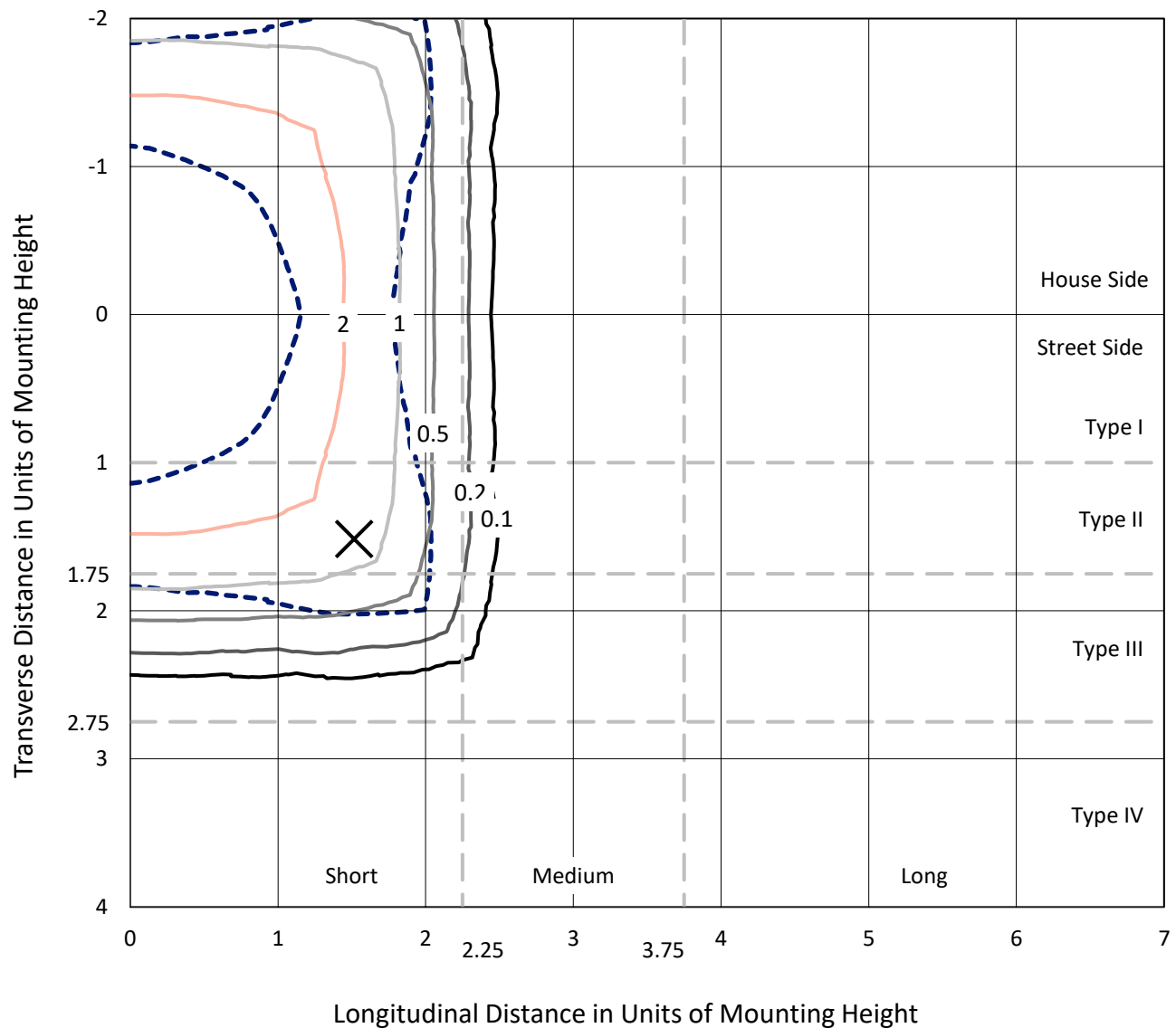
Input Watts (W): 62.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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## Iso-Footcandle Lines of Horizontal Illumination

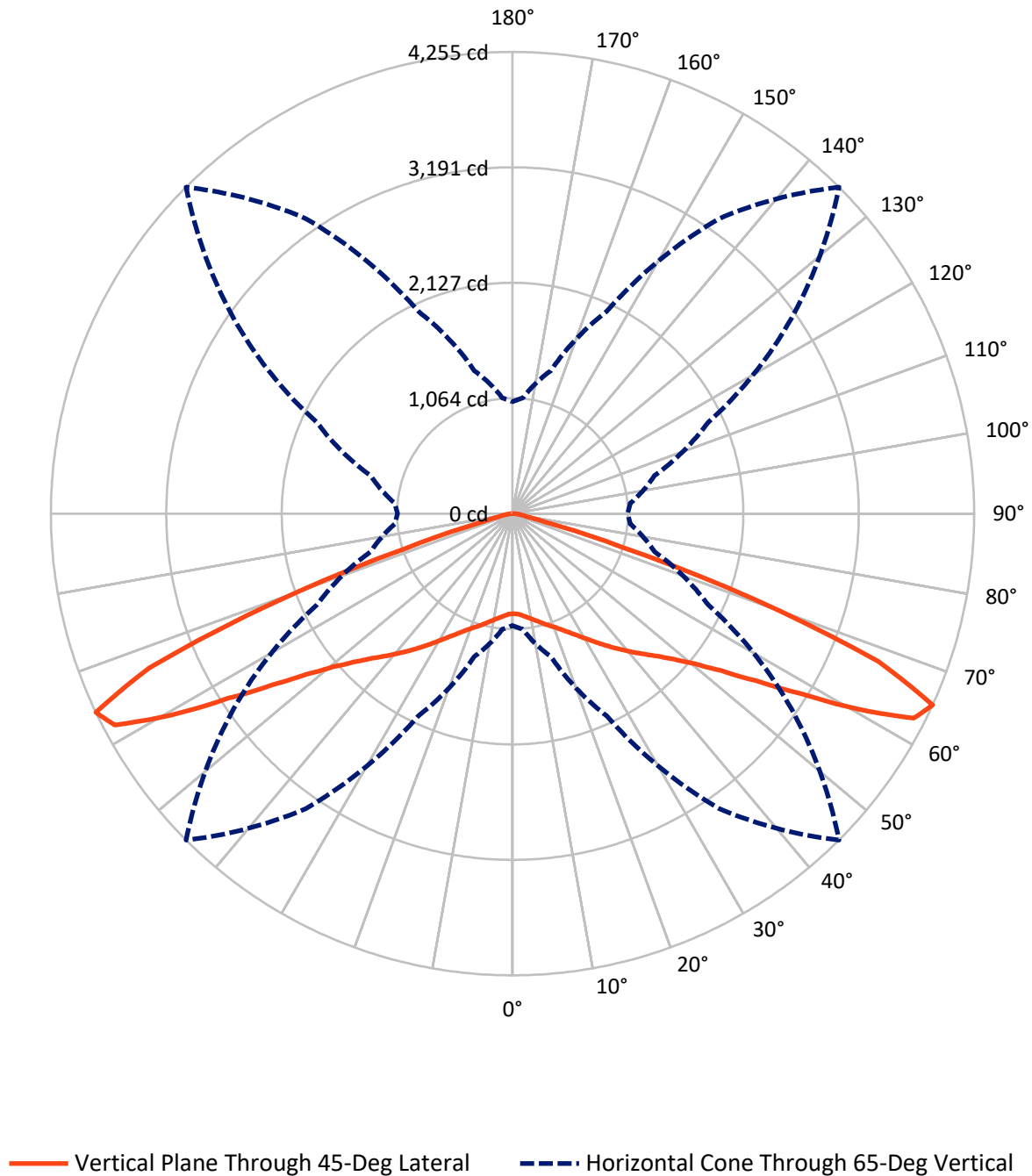
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.2 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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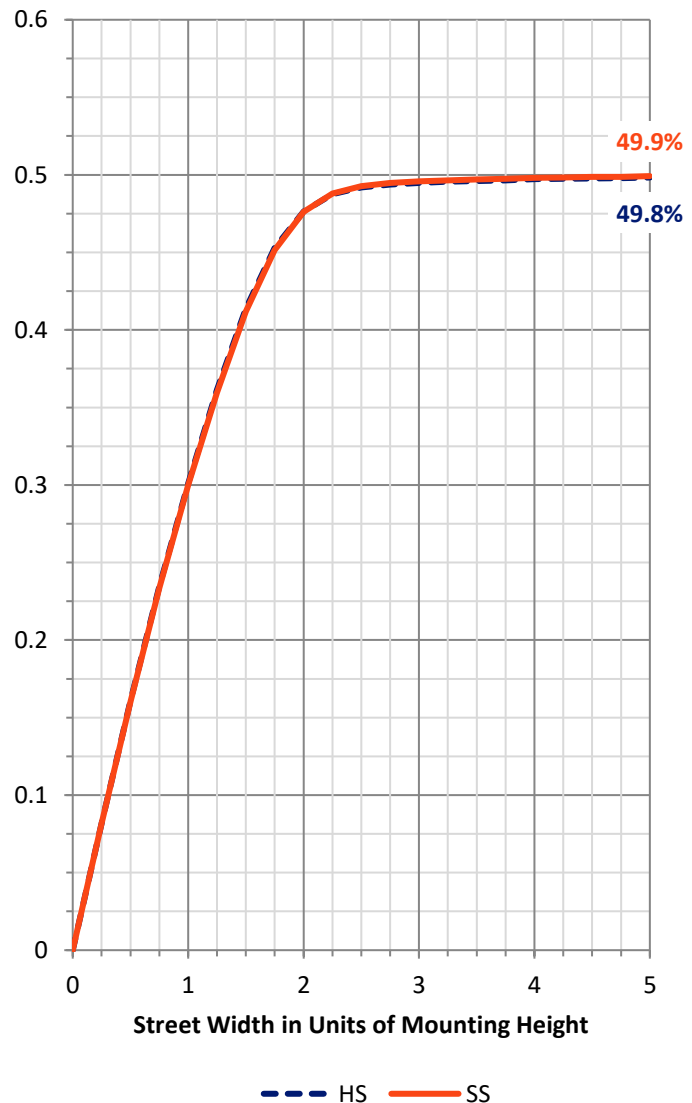
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4011.0   | 0.0    | 4011.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4011.0   | 0.0    | 4011.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 8021.9   | 0.0    | 8021.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 91.3   | 1.1       |
| 10°-20°   | 298.2  | 3.7       |
| 20°-30°   | 565.6  | 7.1       |
| 30°-40°   | 948.6  | 11.8      |
| 40°-50°   | 1501.0 | 18.7      |
| 50°-60°   | 2358.1 | 29.4      |
| 60°-70°   | 1992.4 | 24.8      |
| 70°-80°   | 232.0  | 2.9       |
| 80°-90°   | 34.6   | 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°    | 8021.9 | 100.0     |
| 0°-180°   | 8021.9 | 100.0     |

**Coefficient of Utilization**



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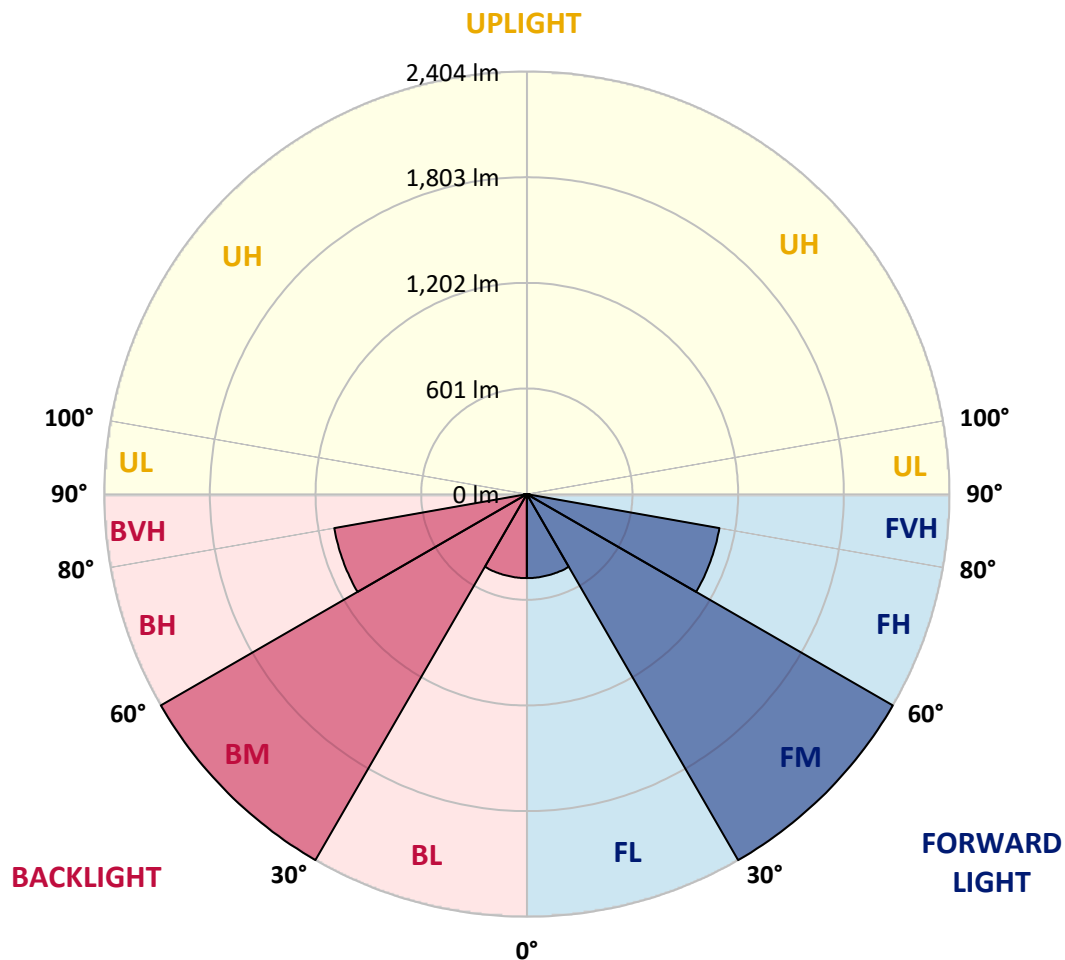
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 477.6  | 6.0       |                         |      |         |
| FM   | (30°-60°)   | 2403.9 | 30.0      |                         |      |         |
| FH   | (60°-80°)   | 1112.2 | 13.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 17.3   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 477.6  | 6.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 2403.9 | 30.0      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1112.2 | 13.9      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 17.3   | 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°    | 922.4  | 922.4  | 922.4  | 922.4  | 922.4  | 922.4  | 922.4  | 922.4  | 922.4  | 922.4  | 922.4  |
| 2.5°  | 927.5  | 924.6  | 927.5  | 927.5  | 925.8  | 926.3  | 924.1  | 923.5  | 926.3  | 924.1  | 923.5  |
| 5°    | 946.6  | 944.4  | 946.6  | 944.9  | 942.1  | 942.7  | 939.3  | 938.2  | 941.6  | 938.2  | 938.7  |
| 7.5°  | 968.6  | 964.7  | 965.8  | 967.5  | 964.7  | 964.7  | 961.8  | 960.2  | 961.8  | 958.5  | 960.7  |
| 10°   | 987.2  | 983.8  | 985.5  | 987.8  | 987.2  | 988.9  | 986.1  | 985.0  | 983.3  | 979.3  | 982.7  |
| 12.5° | 1011.5 | 1010.3 | 1012.6 | 1015.4 | 1014.3 | 1016.5 | 1010.3 | 1008.6 | 1008.1 | 1003.6 | 1007.5 |
| 15°   | 1043.0 | 1040.2 | 1044.2 | 1047.5 | 1045.9 | 1049.8 | 1044.7 | 1042.5 | 1039.7 | 1034.0 | 1037.4 |
| 17.5° | 1074.6 | 1072.4 | 1078.0 | 1079.7 | 1080.2 | 1083.6 | 1079.7 | 1076.3 | 1075.2 | 1071.2 | 1069.0 |
| 20°   | 1112.4 | 1109.6 | 1114.1 | 1117.5 | 1114.6 | 1118.6 | 1116.9 | 1114.6 | 1113.5 | 1107.3 | 1106.7 |
| 22.5° | 1154.7 | 1150.7 | 1157.5 | 1161.4 | 1157.5 | 1161.4 | 1158.1 | 1157.5 | 1158.1 | 1149.0 | 1150.2 |
| 25°   | 1202.0 | 1202.6 | 1209.4 | 1212.2 | 1209.9 | 1212.2 | 1207.1 | 1210.5 | 1208.8 | 1199.2 | 1195.8 |
| 27.5° | 1262.9 | 1260.7 | 1268.0 | 1276.5 | 1270.8 | 1270.8 | 1268.6 | 1271.9 | 1271.4 | 1262.4 | 1260.1 |
| 30°   | 1334.0 | 1333.4 | 1344.1 | 1349.2 | 1341.3 | 1337.9 | 1337.3 | 1345.8 | 1346.4 | 1336.8 | 1332.8 |
| 32.5° | 1408.4 | 1408.4 | 1421.3 | 1427.5 | 1416.3 | 1414.0 | 1411.8 | 1423.0 | 1421.3 | 1408.4 | 1399.9 |
| 35°   | 1490.1 | 1486.7 | 1504.2 | 1513.2 | 1502.0 | 1495.2 | 1494.1 | 1504.2 | 1502.0 | 1483.9 | 1473.8 |
| 37.5° | 1570.8 | 1573.0 | 1593.3 | 1603.5 | 1589.9 | 1581.5 | 1584.3 | 1591.1 | 1591.6 | 1571.9 | 1561.2 |
| 40°   | 1669.4 | 1670.0 | 1695.4 | 1703.2 | 1685.8 | 1672.8 | 1676.8 | 1692.0 | 1690.8 | 1666.6 | 1653.1 |
| 42.5° | 1779.9 | 1777.7 | 1809.2 | 1816.0 | 1792.3 | 1767.5 | 1779.4 | 1803.0 | 1808.7 | 1781.6 | 1767.5 |
| 45°   | 1898.3 | 1901.7 | 1934.4 | 1941.7 | 1904.5 | 1873.0 | 1898.3 | 1933.8 | 1941.2 | 1911.9 | 1894.4 |
| 47.5° | 2042.1 | 2046.0 | 2085.5 | 2088.3 | 2046.0 | 2004.9 | 2038.7 | 2084.9 | 2087.8 | 2047.2 | 2026.9 |
| 50°   | 2206.2 | 2219.7 | 2263.7 | 2269.3 | 2227.6 | 2174.6 | 2223.1 | 2264.2 | 2253.5 | 2199.4 | 2180.8 |
| 52.5° | 2392.2 | 2402.9 | 2471.7 | 2495.4 | 2458.7 | 2401.8 | 2440.7 | 2466.1 | 2431.7 | 2360.6 | 2331.9 |
| 55°   | 2550.6 | 2568.7 | 2660.0 | 2732.2 | 2759.8 | 2717.0 | 2712.5 | 2675.2 | 2579.4 | 2471.1 | 2441.3 |
| 57.5° | 2595.2 | 2612.7 | 2754.2 | 2940.2 | 3104.3 | 3125.7 | 3026.5 | 2839.9 | 2633.5 | 2466.6 | 2436.2 |
| 60°   | 2414.2 | 2437.9 | 2644.8 | 2997.2 | 3468.0 | 3661.9 | 3303.3 | 2854.0 | 2493.1 | 2269.3 | 2231.0 |
| 62.5° | 1896.1 | 1940.0 | 2207.3 | 2759.8 | 3614.5 | 4150.2 | 3417.2 | 2611.0 | 2069.7 | 1805.3 | 1754.6 |
| 65°   | 1031.2 | 1069.0 | 1363.8 | 2056.8 | 3317.4 | 4254.5 | 3138.1 | 1988.0 | 1353.7 | 1088.1 | 1060.5 |
| 67.5° | 386.8  | 414.4  | 549.7  | 1016.5 | 2345.4 | 3637.1 | 2382.1 | 1138.3 | 614.5  | 440.9  | 402.0  |
| 70°   | 164.6  | 168.0  | 199.0  | 354.1  | 1066.2 | 2366.3 | 1219.5 | 386.8  | 205.2  | 165.8  | 161.2  |
| 72.5° | 118.4  | 119.0  | 127.4  | 156.7  | 324.8  | 1038.0 | 368.7  | 162.4  | 125.2  | 112.8  | 112.8  |
| 75°   | 94.7   | 95.3   | 100.4  | 113.3  | 153.4  | 305.6  | 159.0  | 113.9  | 97.0   | 88.5   | 87.4   |
| 77.5° | 74.4   | 75.5   | 80.6   | 88.5   | 102.6  | 139.8  | 107.7  | 89.6   | 77.8   | 69.9   | 68.8   |
| 80°   | 55.3   | 56.9   | 63.7   | 67.7   | 72.2   | 93.0   | 78.4   | 69.9   | 62.0   | 53.6   | 51.9   |
| 82.5° | 36.6   | 38.3   | 47.4   | 50.2   | 49.6   | 58.6   | 54.1   | 53.6   | 47.4   | 35.5   | 33.8   |
| 85°   | 22.0   | 23.1   | 30.4   | 32.7   | 30.4   | 28.8   | 34.4   | 37.2   | 33.3   | 23.1   | 21.4   |
| 87.5° | 9.6    | 9.6    | 13.5   | 14.1   | 13.5   | 10.7   | 16.4   | 19.2   | 19.7   | 11.8   | 10.7   |
| 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)