

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: P672735

Luminaire Tested: **CCP-SA-1F-830-U-5NQ**

Issue Date: 04/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P672735  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1F-830-U-5NQ  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/ 5NQ  
distribution lens  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6199.7 lumens  
Efficiency: N/A  
Efficacy: 92.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1

Input Watts (W): 67  
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

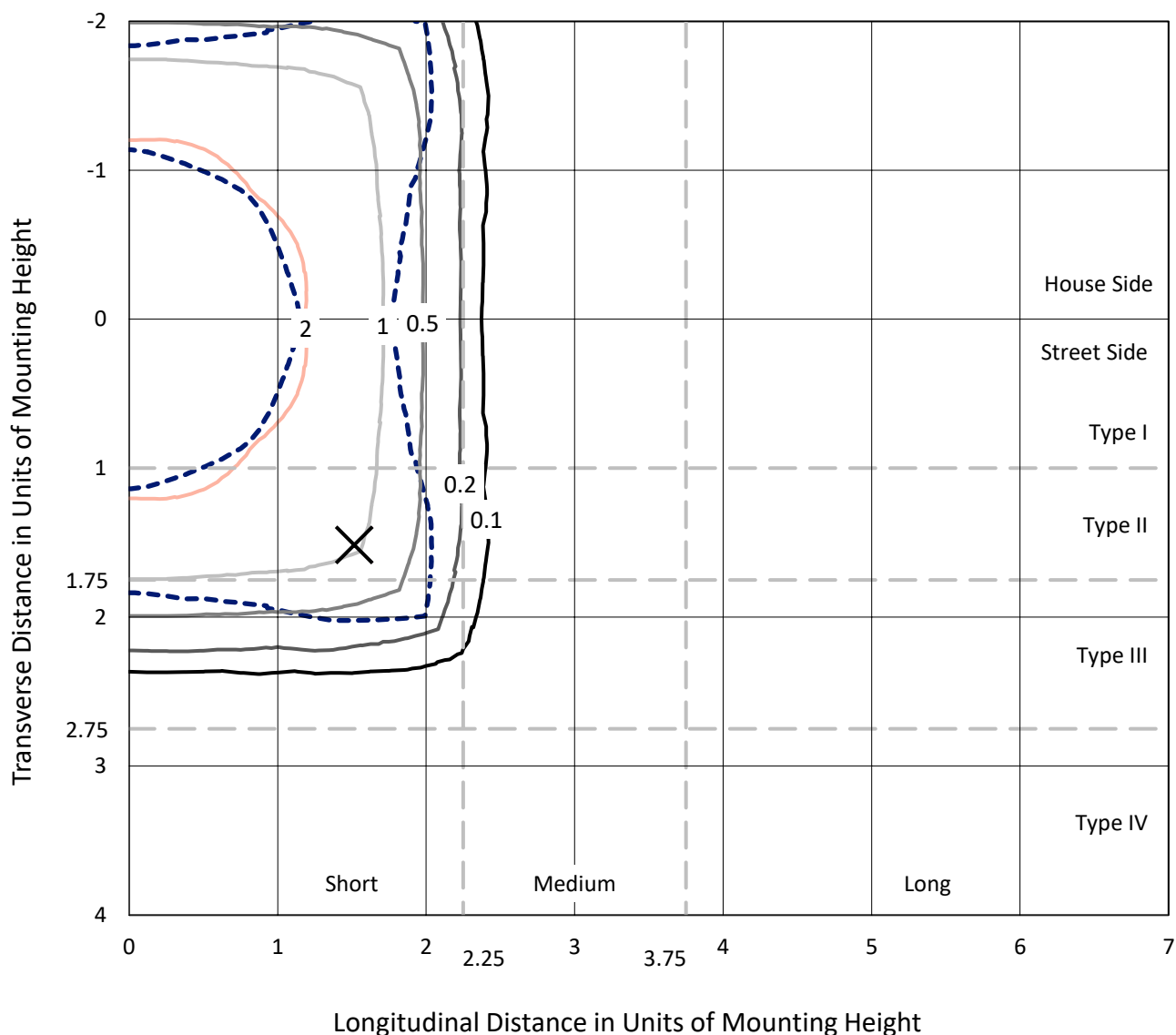
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

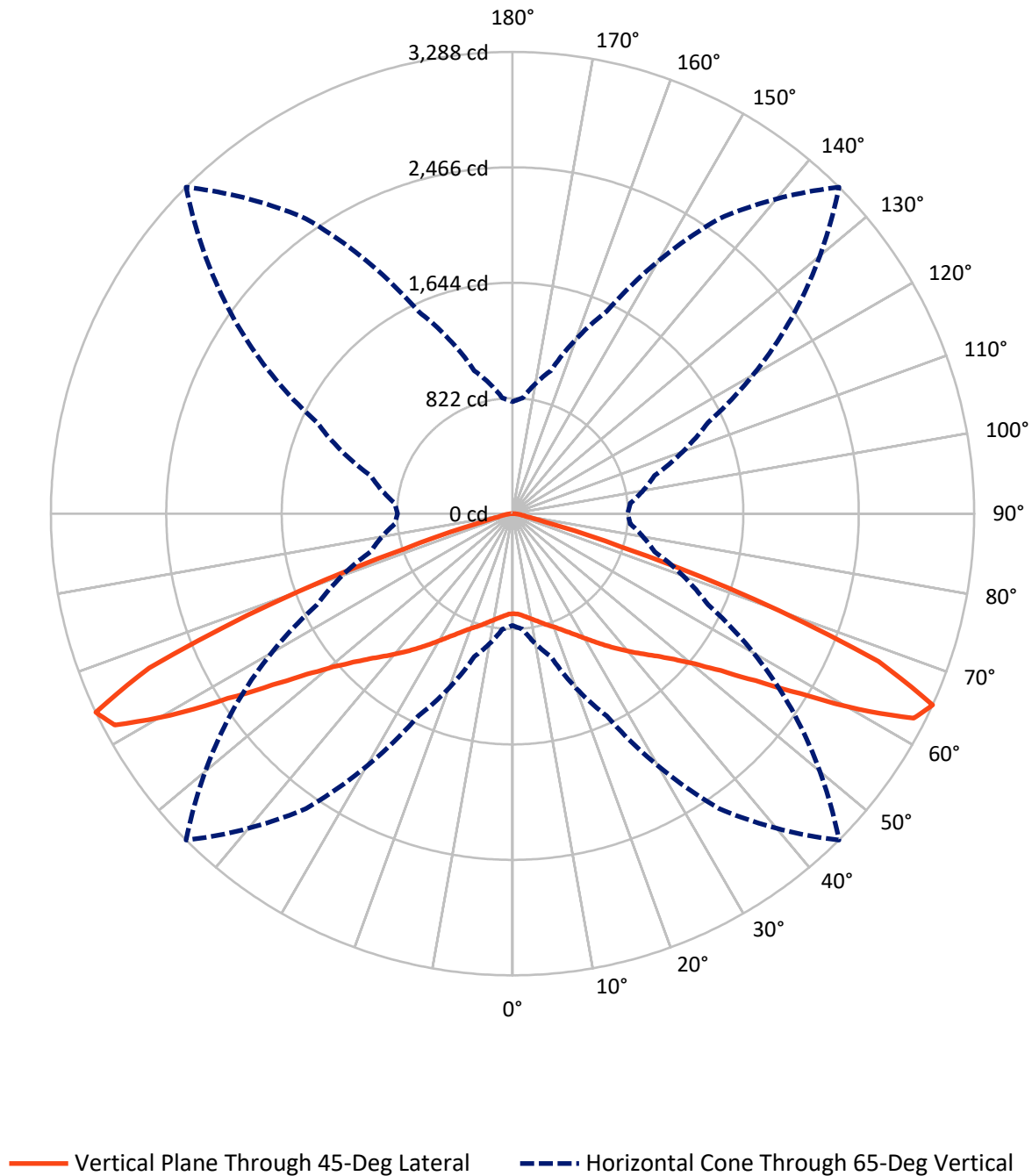


Based on 15 foot mounting height. Maximum calculated value = 3.2 fc

Type V - Short - N/A

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## Luminous Intensity Polar Plot



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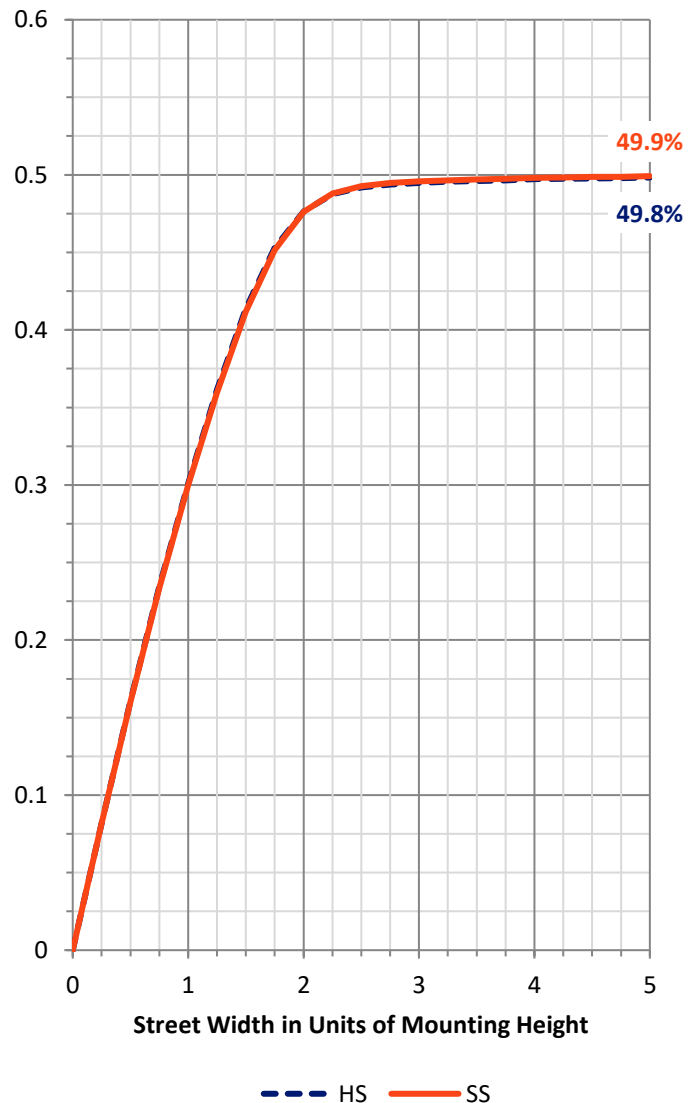
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3099.8   | 0.0    | 3099.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3099.8   | 0.0    | 3099.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 6199.7   | 0.0    | 6199.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 70.6   | 1.1       |
| 10°-20°   | 230.5  | 3.7       |
| 20°-30°   | 437.1  | 7.1       |
| 30°-40°   | 733.1  | 11.8      |
| 40°-50°   | 1160.1 | 18.7      |
| 50°-60°   | 1822.5 | 29.4      |
| 60°-70°   | 1539.8 | 24.8      |
| 70°-80°   | 179.3  | 2.9       |
| 80°-90°   | 26.7   | 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°    | 6199.7 | 100.0     |
| 0°-180°   | 6199.7 | 100.0     |

**Coefficient of Utilization**



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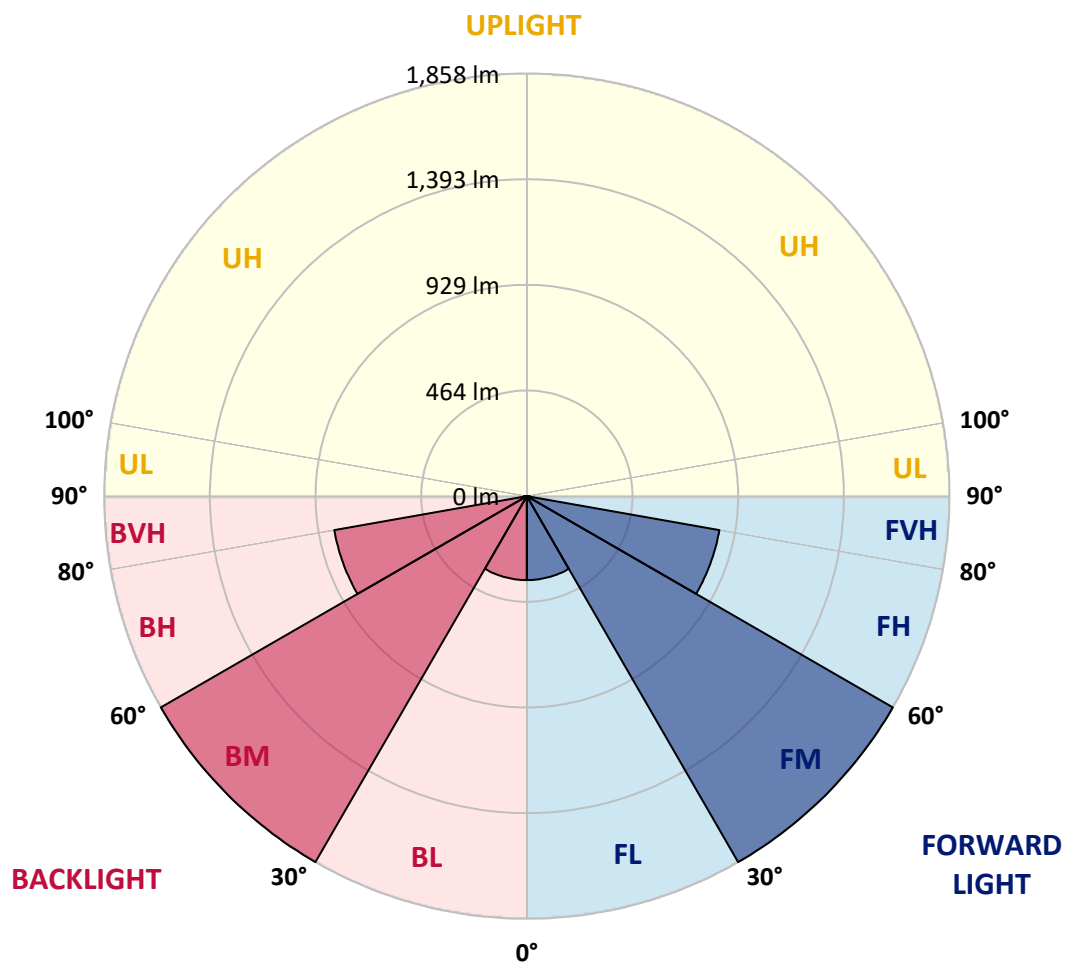
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 369.1  | 6.0       |                         |      |         |
| FM   | (30°-60°)   | 1857.8 | 30.0      |                         |      |         |
| FH   | (60°-80°)   | 859.6  | 13.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 13.4   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 369.1  | 6.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1857.8 | 30.0      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 859.6  | 13.9      | B2/1000                 |      | G1/1800 |
| BVH  | (80°-90°)   | 13.4   | 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°    | 712.9  | 712.9  | 712.9  | 712.9  | 712.9  | 712.9  | 712.9  | 712.9  | 712.9  | 712.9  | 712.9  |
| 2.5°  | 716.8  | 714.6  | 716.8  | 716.8  | 715.5  | 715.9  | 714.2  | 713.7  | 715.9  | 714.2  | 713.7  |
| 5°    | 731.6  | 729.8  | 731.6  | 730.3  | 728.1  | 728.5  | 725.9  | 725.1  | 727.7  | 725.1  | 725.5  |
| 7.5°  | 748.6  | 745.5  | 746.4  | 747.7  | 745.5  | 745.5  | 743.4  | 742.0  | 743.4  | 740.7  | 742.5  |
| 10°   | 763.0  | 760.3  | 761.7  | 763.4  | 763.0  | 764.3  | 762.1  | 761.2  | 759.9  | 756.9  | 759.5  |
| 12.5° | 781.7  | 780.8  | 782.6  | 784.7  | 783.9  | 785.6  | 780.8  | 779.5  | 779.1  | 775.6  | 778.6  |
| 15°   | 806.1  | 803.9  | 807.0  | 809.6  | 808.3  | 811.3  | 807.4  | 805.7  | 803.5  | 799.1  | 801.7  |
| 17.5° | 830.5  | 828.8  | 833.1  | 834.4  | 834.9  | 837.5  | 834.4  | 831.8  | 830.9  | 827.9  | 826.1  |
| 20°   | 859.7  | 857.5  | 861.0  | 863.6  | 861.4  | 864.5  | 863.2  | 861.4  | 860.6  | 855.8  | 855.3  |
| 22.5° | 892.4  | 889.3  | 894.6  | 897.6  | 894.6  | 897.6  | 895.0  | 894.6  | 895.0  | 888.0  | 888.9  |
| 25°   | 929.0  | 929.4  | 934.6  | 936.8  | 935.1  | 936.8  | 932.9  | 935.5  | 934.2  | 926.8  | 924.2  |
| 27.5° | 976.0  | 974.3  | 980.0  | 986.5  | 982.1  | 982.1  | 980.4  | 983.0  | 982.6  | 975.6  | 973.9  |
| 30°   | 1030.9 | 1030.5 | 1038.8 | 1042.7 | 1036.6 | 1034.0 | 1033.5 | 1040.1 | 1040.5 | 1033.1 | 1030.1 |
| 32.5° | 1088.4 | 1088.4 | 1098.5 | 1103.3 | 1094.5 | 1092.8 | 1091.1 | 1099.8 | 1098.5 | 1088.4 | 1081.9 |
| 35°   | 1151.6 | 1149.0 | 1162.5 | 1169.5 | 1160.8 | 1155.6 | 1154.7 | 1162.5 | 1160.8 | 1146.8 | 1139.0 |
| 37.5° | 1213.9 | 1215.7 | 1231.4 | 1239.2 | 1228.8 | 1222.2 | 1224.4 | 1229.6 | 1230.1 | 1214.8 | 1206.5 |
| 40°   | 1290.2 | 1290.6 | 1310.2 | 1316.3 | 1302.8 | 1292.8 | 1295.9 | 1307.6 | 1306.7 | 1288.0 | 1277.6 |
| 42.5° | 1375.6 | 1373.9 | 1398.3 | 1403.5 | 1385.2 | 1366.0 | 1375.2 | 1393.5 | 1397.8 | 1376.9 | 1366.0 |
| 45°   | 1467.1 | 1469.7 | 1495.0 | 1500.6 | 1471.9 | 1447.5 | 1467.1 | 1494.5 | 1500.2 | 1477.6 | 1464.0 |
| 47.5° | 1578.2 | 1581.3 | 1611.8 | 1613.9 | 1581.3 | 1549.5 | 1575.6 | 1611.3 | 1613.5 | 1582.1 | 1566.4 |
| 50°   | 1705.0 | 1715.5 | 1749.4 | 1753.8 | 1721.6 | 1680.6 | 1718.1 | 1749.9 | 1741.6 | 1699.8 | 1685.4 |
| 52.5° | 1848.8 | 1857.1 | 1910.2 | 1928.5 | 1900.2 | 1856.2 | 1886.3 | 1905.9 | 1879.3 | 1824.4 | 1802.2 |
| 55°   | 1971.2 | 1985.2 | 2055.8 | 2111.5 | 2132.9 | 2099.8 | 2096.3 | 2067.5 | 1993.5 | 1909.8 | 1886.7 |
| 57.5° | 2005.7 | 2019.2 | 2128.5 | 2272.3 | 2399.1 | 2415.7 | 2339.0 | 2194.8 | 2035.3 | 1906.3 | 1882.8 |
| 60°   | 1865.8 | 1884.1 | 2044.0 | 2316.3 | 2680.2 | 2830.1 | 2552.9 | 2205.7 | 1926.8 | 1753.8 | 1724.2 |
| 62.5° | 1465.4 | 1499.3 | 1705.9 | 2132.9 | 2793.5 | 3207.4 | 2640.9 | 2017.9 | 1599.6 | 1395.2 | 1356.0 |
| 65°   | 796.9  | 826.1  | 1054.0 | 1589.5 | 2563.8 | 3288.0 | 2425.3 | 1536.4 | 1046.2 | 841.0  | 819.6  |
| 67.5° | 298.9  | 320.3  | 424.8  | 785.6  | 1812.6 | 2810.9 | 1841.0 | 879.7  | 474.9  | 340.7  | 310.7  |
| 70°   | 127.2  | 129.8  | 153.8  | 273.6  | 824.0  | 1828.8 | 942.5  | 298.9  | 158.6  | 128.1  | 124.6  |
| 72.5° | 91.5   | 91.9   | 98.5   | 121.1  | 251.0  | 802.2  | 285.0  | 125.5  | 96.7   | 87.1   | 87.1   |
| 75°   | 73.2   | 73.6   | 77.6   | 87.6   | 118.5  | 236.2  | 122.9  | 88.0   | 74.9   | 68.4   | 67.5   |
| 77.5° | 57.5   | 58.4   | 62.3   | 68.4   | 79.3   | 108.1  | 83.2   | 69.3   | 60.1   | 54.0   | 53.2   |
| 80°   | 42.7   | 44.0   | 49.2   | 52.3   | 55.8   | 71.9   | 60.6   | 54.0   | 47.9   | 41.4   | 40.1   |
| 82.5° | 28.3   | 29.6   | 36.6   | 38.8   | 38.3   | 45.3   | 41.8   | 41.4   | 36.6   | 27.5   | 26.1   |
| 85°   | 17.0   | 17.9   | 23.5   | 25.3   | 23.5   | 22.2   | 26.6   | 28.8   | 25.7   | 17.9   | 16.6   |
| 87.5° | 7.4    | 7.4    | 10.5   | 10.9   | 10.5   | 8.3    | 12.6   | 14.8   | 15.3   | 9.2    | 8.3    |
| 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)