

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: P672766

Luminaire Tested: **CCP-SA-1D-850-U-5NQ**

Issue Date: 04/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P672766  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1D-850-U-5NQ  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ 5NQ  
distribution lens  
Light Source: (16) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5064.1 lumens  
Efficiency: N/A  
Efficacy: 115.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1

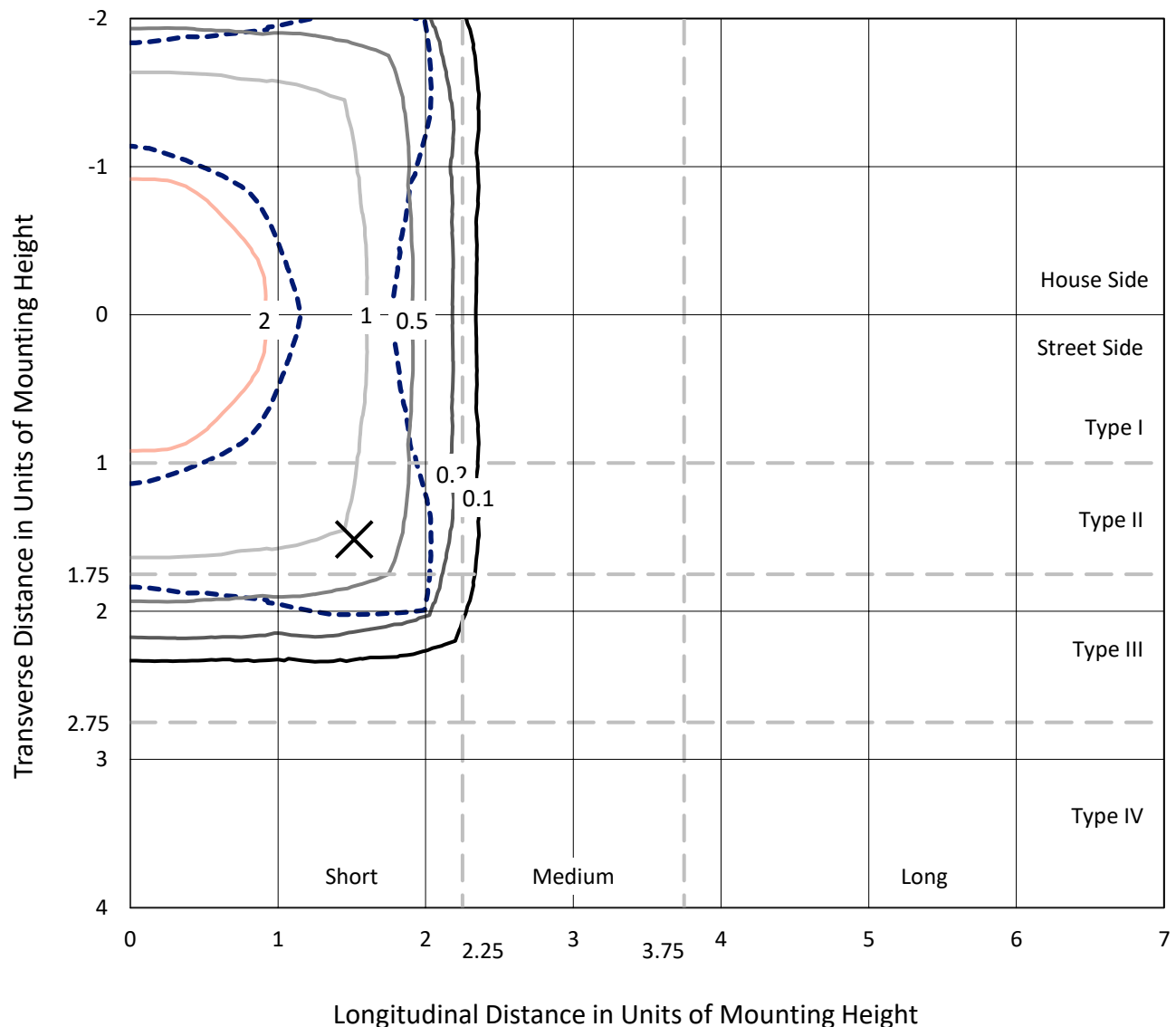
Input Watts (W): 44  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

REPORT NUMBER: P672766

CATALOG NUMBER: CCP-SA-1D-850-U-5NQ

## Iso-Footcandle Lines of Horizontal Illumination

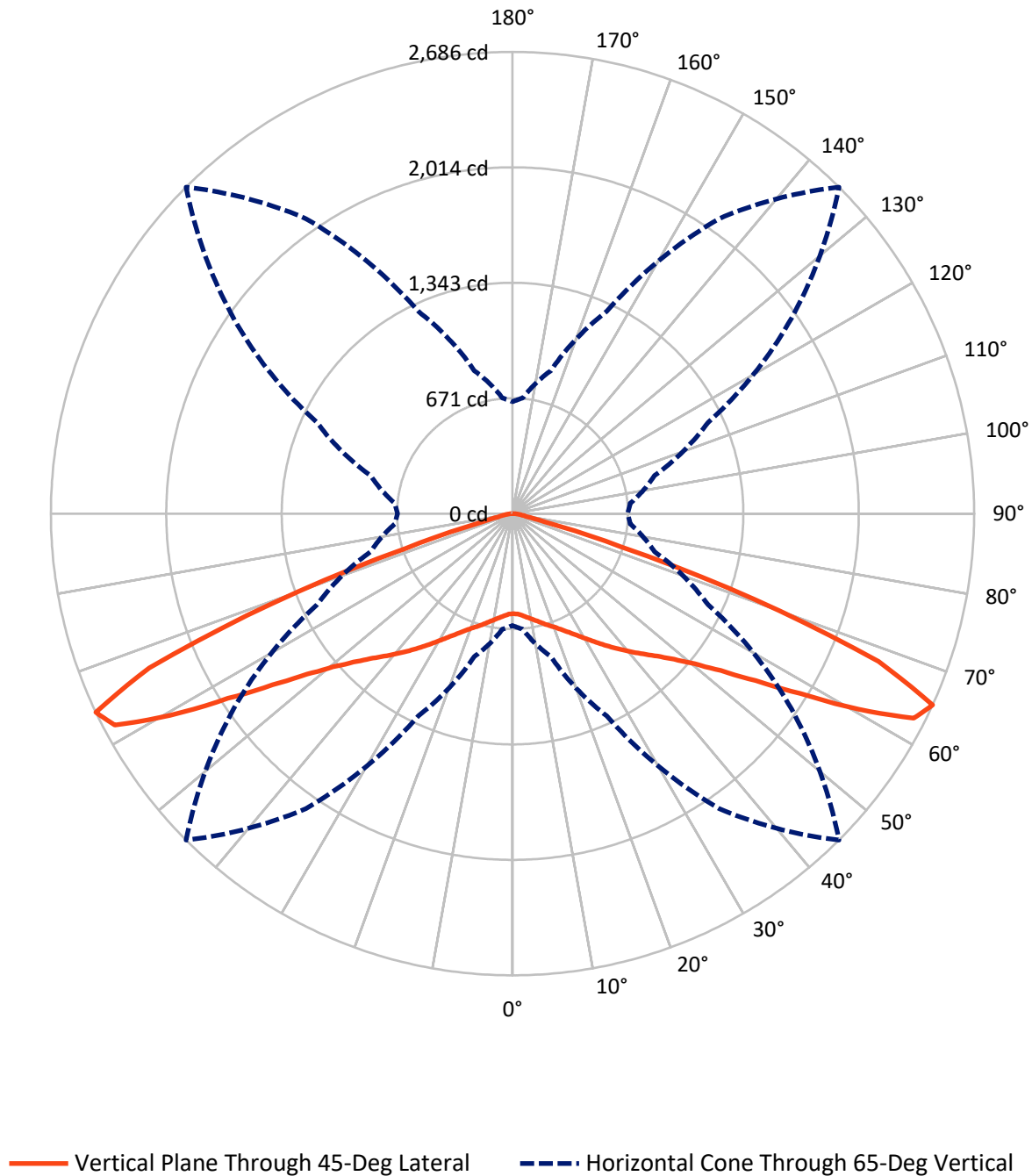
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.7 fc  
 Type V - Short - N/A

REPORT NUMBER: P672766  
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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2532.0   | 0.0    | 2532.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2532.0   | 0.0    | 2532.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5064.1   | 0.0    | 5064.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 57.7   | 1.1       |
| 10°-20°   | 188.3  | 3.7       |
| 20°-30°   | 357.1  | 7.1       |
| 30°-40°   | 598.8  | 11.8      |
| 40°-50°   | 947.6  | 18.7      |
| 50°-60°   | 1488.6 | 29.4      |
| 60°-70°   | 1257.8 | 24.8      |
| 70°-80°   | 146.4  | 2.9       |
| 80°-90°   | 21.8   | 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°    | 5064.1 | 100.0     |
| 0°-180°   | 5064.1 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P672766

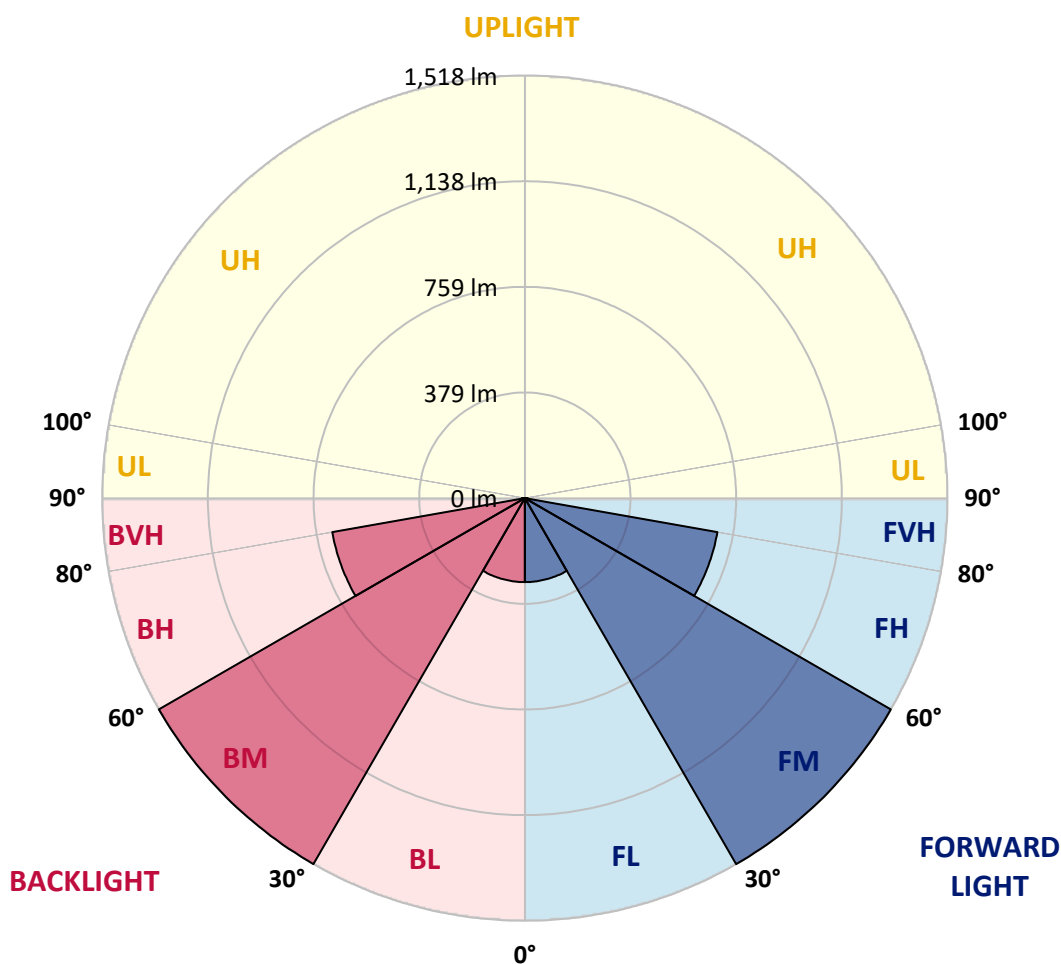
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 301.5  | 6.0       |                         |      |         |
| FM   | (30°-60°)   | 1517.5 | 30.0      |                         |      |         |
| FH   | (60°-80°)   | 702.1  | 13.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 10.9   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 301.5  | 6.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1517.5 | 30.0      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 702.1  | 13.9      | B2/1000                 |      | G1/1800 |
| BVH  | (80°-90°)   | 10.9   | 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°    | 582.3  | 582.3  | 582.3  | 582.3  | 582.3  | 582.3  | 582.3  | 582.3  | 582.3  | 582.3  | 582.3  |
| 2.5°  | 585.5  | 583.7  | 585.5  | 585.5  | 584.4  | 584.8  | 583.3  | 583.0  | 584.8  | 583.3  | 583.0  |
| 5°    | 597.6  | 596.2  | 597.6  | 596.5  | 594.7  | 595.1  | 593.0  | 592.2  | 594.4  | 592.2  | 592.6  |
| 7.5°  | 611.5  | 609.0  | 609.7  | 610.8  | 609.0  | 609.0  | 607.2  | 606.1  | 607.2  | 605.1  | 606.5  |
| 10°   | 623.2  | 621.1  | 622.1  | 623.6  | 623.2  | 624.3  | 622.5  | 621.8  | 620.7  | 618.2  | 620.4  |
| 12.5° | 638.5  | 637.8  | 639.2  | 641.0  | 640.3  | 641.7  | 637.8  | 636.7  | 636.4  | 633.5  | 636.0  |
| 15°   | 658.4  | 656.7  | 659.2  | 661.3  | 660.2  | 662.7  | 659.5  | 658.1  | 656.3  | 652.8  | 654.9  |
| 17.5° | 678.4  | 677.0  | 680.5  | 681.6  | 681.9  | 684.1  | 681.6  | 679.4  | 678.7  | 676.2  | 674.8  |
| 20°   | 702.2  | 700.4  | 703.3  | 705.4  | 703.6  | 706.1  | 705.1  | 703.6  | 702.9  | 699.0  | 698.7  |
| 22.5° | 728.9  | 726.4  | 730.7  | 733.2  | 730.7  | 733.2  | 731.1  | 730.7  | 731.1  | 725.4  | 726.1  |
| 25°   | 758.8  | 759.2  | 763.4  | 765.2  | 763.8  | 765.2  | 762.0  | 764.2  | 763.1  | 757.0  | 754.9  |
| 27.5° | 797.3  | 795.8  | 800.5  | 805.8  | 802.2  | 802.2  | 800.8  | 802.9  | 802.6  | 796.9  | 795.5  |
| 30°   | 842.1  | 841.7  | 848.5  | 851.7  | 846.7  | 844.6  | 844.2  | 849.6  | 849.9  | 843.9  | 841.4  |
| 32.5° | 889.1  | 889.1  | 897.3  | 901.2  | 894.1  | 892.6  | 891.2  | 898.3  | 897.3  | 889.1  | 883.7  |
| 35°   | 940.7  | 938.6  | 949.6  | 955.3  | 948.2  | 943.9  | 943.2  | 949.6  | 948.2  | 936.8  | 930.4  |
| 37.5° | 991.6  | 993.0  | 1005.8 | 1012.2 | 1003.7 | 998.3  | 1000.1 | 1004.4 | 1004.8 | 992.3  | 985.5  |
| 40°   | 1053.9 | 1054.2 | 1070.2 | 1075.2 | 1064.2 | 1056.0 | 1058.5 | 1068.1 | 1067.4 | 1052.1 | 1043.5 |
| 42.5° | 1123.6 | 1122.2 | 1142.1 | 1146.4 | 1131.5 | 1115.8 | 1123.3 | 1138.2 | 1141.8 | 1124.7 | 1115.8 |
| 45°   | 1198.4 | 1200.5 | 1221.1 | 1225.8 | 1202.3 | 1182.4 | 1198.4 | 1220.8 | 1225.4 | 1206.9 | 1195.9 |
| 47.5° | 1289.1 | 1291.6 | 1316.5 | 1318.3 | 1291.6 | 1265.6 | 1287.0 | 1316.2 | 1318.0 | 1292.3 | 1279.5 |
| 50°   | 1392.7 | 1401.2 | 1429.0 | 1432.6 | 1406.2 | 1372.8 | 1403.4 | 1429.4 | 1422.6 | 1388.4 | 1376.7 |
| 52.5° | 1510.2 | 1516.9 | 1560.3 | 1575.3 | 1552.2 | 1516.2 | 1540.8 | 1556.8 | 1535.1 | 1490.2 | 1472.1 |
| 55°   | 1610.2 | 1621.6 | 1679.2 | 1724.8 | 1742.2 | 1715.2 | 1712.3 | 1688.8 | 1628.3 | 1560.0 | 1541.1 |
| 57.5° | 1638.3 | 1649.3 | 1738.7 | 1856.1 | 1959.7 | 1973.2 | 1910.6 | 1792.8 | 1662.5 | 1557.1 | 1537.9 |
| 60°   | 1524.0 | 1539.0 | 1669.6 | 1892.1 | 2189.2 | 2311.7 | 2085.3 | 1801.6 | 1573.9 | 1432.6 | 1408.4 |
| 62.5° | 1196.9 | 1224.7 | 1393.4 | 1742.2 | 2281.8 | 2619.9 | 2157.2 | 1648.2 | 1306.6 | 1139.6 | 1107.6 |
| 65°   | 651.0  | 674.8  | 861.0  | 1298.4 | 2094.2 | 2685.7 | 1981.0 | 1255.0 | 854.6  | 686.9  | 669.5  |
| 67.5° | 244.2  | 261.6  | 347.0  | 641.7  | 1480.6 | 2296.0 | 1503.7 | 718.6  | 387.9  | 278.3  | 253.8  |
| 70°   | 103.9  | 106.1  | 125.6  | 223.5  | 673.0  | 1493.8 | 769.8  | 244.2  | 129.6  | 104.6  | 101.8  |
| 72.5° | 74.7   | 75.1   | 80.4   | 98.9   | 205.0  | 655.2  | 232.8  | 102.5  | 79.0   | 71.2   | 71.2   |
| 75°   | 59.8   | 60.1   | 63.4   | 71.5   | 96.8   | 192.9  | 100.4  | 71.9   | 61.2   | 55.9   | 55.2   |
| 77.5° | 47.0   | 47.7   | 50.9   | 55.9   | 64.8   | 88.3   | 68.0   | 56.6   | 49.1   | 44.1   | 43.4   |
| 80°   | 34.9   | 35.9   | 40.2   | 42.7   | 45.6   | 58.7   | 49.5   | 44.1   | 39.2   | 33.8   | 32.7   |
| 82.5° | 23.1   | 24.2   | 29.9   | 31.7   | 31.3   | 37.0   | 34.2   | 33.8   | 29.9   | 22.4   | 21.4   |
| 85°   | 13.9   | 14.6   | 19.2   | 20.6   | 19.2   | 18.2   | 21.7   | 23.5   | 21.0   | 14.6   | 13.5   |
| 87.5° | 6.1    | 6.1    | 8.5    | 8.9    | 8.5    | 6.8    | 10.3   | 12.1   | 12.5   | 7.5    | 6.8    |
| 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)