

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P518821

Luminaire Tested: **SQ4-BB-125U-075D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P518821  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2009-966-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-BB-125U-075D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

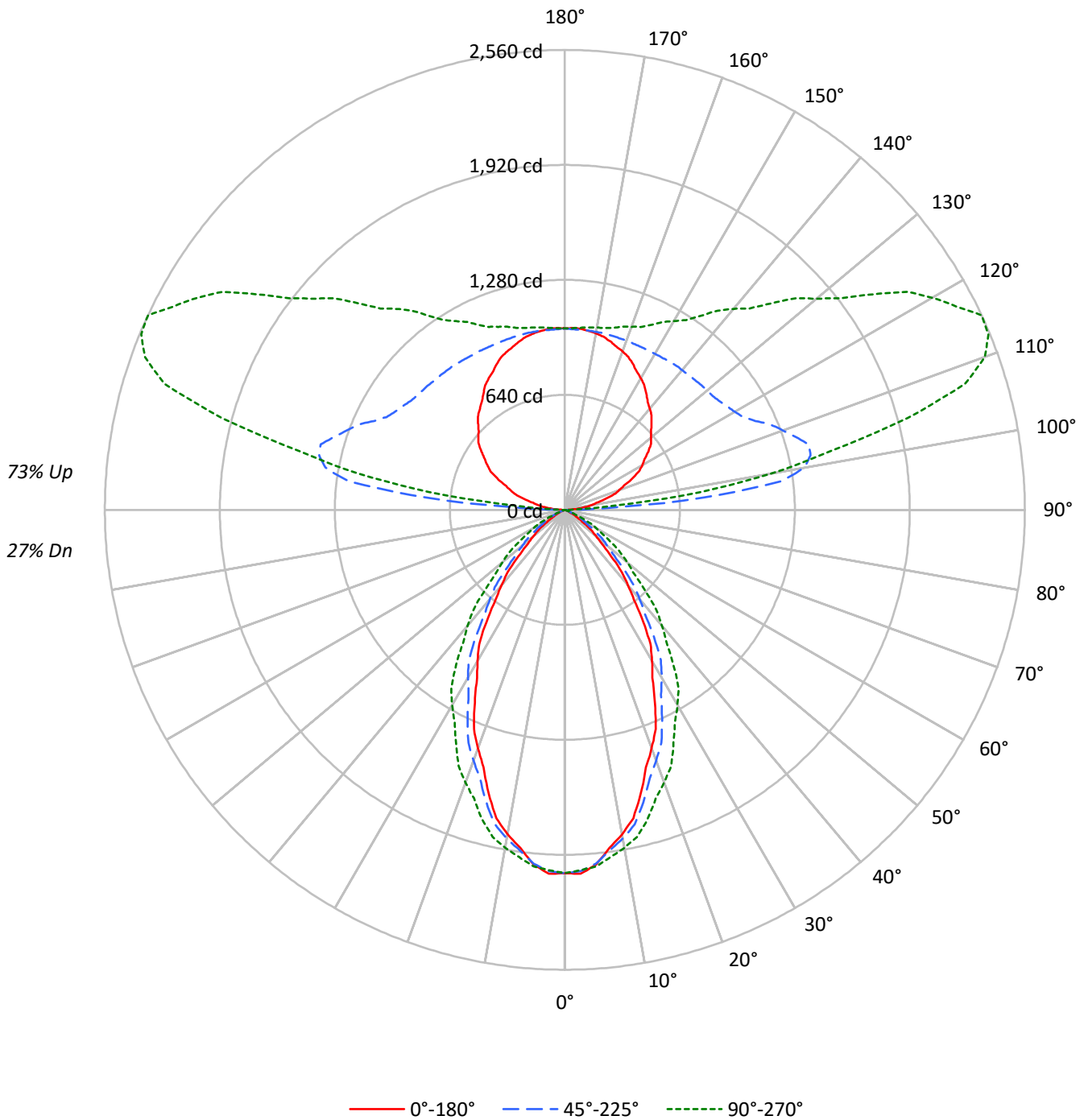
Lumens per Lamp: N/A  
Luminaire Lumens: 8930.9 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 87.9  
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: 24 FT



TEST NUMBER: P518821  
CATALOG NUMBER: SQ4-BB-125U-075D-935-1D-UNV-STD-W-6

### Luminous Intensity Polar Plot





TEST NUMBER: P518821

CATALOG NUMBER: SQ4-BB-125U-075D-935-1D-UNV-STD-W-6

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|--|--|--|----|--|--|--|--|--|--|--|--|----|---|
| RF  | 20  |     |     |     |    |    |    |    |    | 20 |    |    |    |    |    |    |    |    | 20 |    |    |    |    |   |  |  |  | 20 |  |  |  |  |  |  |  |  |    |   |
| RC  | 80  |     |     |     |    |    |    |    |    | 70 |    |    |    |    |    |    |    |    | 50 |    |    |    |    |   |  |  |  | 30 |  |  |  |  |  |  |  |  | 10 | 0 |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 0   | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 71 | 71 | 71 | 52 | 52 | 52 | 35 | 35 | 35 | 27 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 1   | 94  | 90  | 86  | 83  | 84 | 81 | 78 | 75 | 63 | 61 | 60 | 47 | 46 | 45 | 32 | 32 | 31 | 25 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 2   | 86  | 80  | 74  | 70  | 77 | 71 | 67 | 63 | 56 | 53 | 51 | 43 | 41 | 39 | 30 | 29 | 28 | 22 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 3   | 79  | 71  | 64  | 59  | 71 | 64 | 58 | 54 | 51 | 47 | 44 | 39 | 36 | 34 | 27 | 26 | 25 | 20 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 4   | 73  | 63  | 56  | 51  | 65 | 57 | 51 | 47 | 46 | 42 | 38 | 35 | 32 | 30 | 25 | 24 | 22 | 18 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 5   | 67  | 57  | 49  | 44  | 60 | 51 | 45 | 41 | 41 | 37 | 34 | 32 | 29 | 27 | 23 | 21 | 20 | 17 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 6   | 62  | 51  | 44  | 39  | 56 | 46 | 40 | 36 | 37 | 33 | 30 | 29 | 26 | 24 | 21 | 20 | 18 | 15 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 7   | 58  | 46  | 39  | 34  | 52 | 42 | 36 | 32 | 34 | 30 | 27 | 27 | 24 | 22 | 20 | 18 | 17 | 14 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 8   | 53  | 42  | 35  | 30  | 48 | 39 | 32 | 28 | 31 | 27 | 24 | 25 | 22 | 20 | 18 | 17 | 15 | 13 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 9   | 50  | 39  | 32  | 27  | 45 | 35 | 29 | 25 | 29 | 25 | 22 | 23 | 20 | 18 | 17 | 15 | 14 | 12 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 10  | 47  | 36  | 29  | 25  | 42 | 33 | 27 | 23 | 27 | 22 | 20 | 21 | 18 | 16 | 16 | 14 | 13 | 11 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12440 | 12440 | 12440 |
| 5°  | 12240 | 12210 | 12300 |
| 10° | 11453 | 11605 | 11929 |
| 15° | 10411 | 10742 | 11340 |
| 20° | 9242  | 9722  | 10574 |
| 25° | 8048  | 8686  | 9715  |
| 30° | 6894  | 7651  | 8902  |
| 35° | 5716  | 6495  | 7920  |
| 40° | 4392  | 5193  | 6749  |
| 45° | 3175  | 3933  | 5431  |
| 50° | 2163  | 2931  | 4307  |
| 55° | 1406  | 2120  | 3347  |
| 60° | 807   | 1492  | 2420  |
| 65° | 214   | 911   | 1224  |
| 70° | 106   | 282   | 352   |
| 75° | 48    | 24    | 0     |
| 80° | 35    | 0     | 0     |
| 85° | 0     | 0     | 0     |



TEST NUMBER: P518821

CATALOG NUMBER: SQ4-BB-125U-075D-935-1D-UNV-STD-W-6

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 184.6  | 2.1       |
| 10°-20°   | 472.0  | 5.3       |
| 20°-30°   | 590.9  | 6.6       |
| 30°-40°   | 545.8  | 6.1       |
| 40°-50°   | 366.8  | 4.1       |
| 50°-60°   | 189.4  | 2.1       |
| 60°-70°   | 59.3   | 0.7       |
| 70°-80°   | 3.8    | 0.0       |
| 80°-90°   | 2.4    | 0.0       |
| 90°-100°  | 472.2  | 5.3       |
| 100°-110° | 1271.9 | 14.2      |
| 110°-120° | 1334.8 | 14.9      |
| 120°-130° | 1083.2 | 12.1      |
| 130°-140° | 849.5  | 9.5       |
| 140°-150° | 652.2  | 7.3       |
| 150°-160° | 468.9  | 5.3       |
| 160°-170° | 286.5  | 3.2       |
| 170°-180° | 96.6   | 1.1       |
| 0°-30°    | 1247.5 | 14.0      |
| 0°-40°    | 1793.3 | 20.1      |
| 0°-60°    | 2349.5 | 26.3      |
| 0°-90°    | 2415.1 | 27.0      |
| 90°-120°  | 3078.9 | 34.5      |
| 90°-150°  | 5663.8 | 63.4      |
| 90°-180°  | 6516.0 | 73.0      |
| 0°-180°   | 8930.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2022 | 2022  | 2022 | 2022  | 2022 |      |
| 5°   | 1982 | 1962  | 1978 | 1984  | 1992 | 184  |
| 15°  | 1635 | 1629  | 1687 | 1744  | 1781 | 455  |
| 25°  | 1186 | 1196  | 1280 | 1367  | 1432 | 544  |
| 35°  | 761  | 780   | 865  | 967   | 1055 | 472  |
| 45°  | 365  | 387   | 452  | 540   | 624  | 287  |
| 55°  | 131  | 153   | 198  | 254   | 312  | 122  |
| 65°  | 15   | 28    | 63   | 76    | 84   | 25   |
| 75°  | 2    | 2     | 1    | 0     | 0    | 3    |
| 85°  | 0    | 0     | 0    | 0     | 0    | 0    |
| 90°  | 3    | 8     | 15   | 17    | 17   | 5    |
| 95°  | 72   | 257   | 774  | 396   | 274  | 75   |
| 105° | 235  | 366   | 1407 | 2104  | 1975 | 247  |
| 115° | 415  | 508   | 1171 | 2263  | 2560 | 409  |
| 125° | 567  | 651   | 1052 | 1778  | 2092 | 506  |
| 135° | 683  | 762   | 1022 | 1434  | 1624 | 527  |
| 145° | 790  | 851   | 1009 | 1226  | 1317 | 495  |
| 155° | 896  | 929   | 1000 | 1100  | 1135 | 413  |
| 165° | 972  | 983   | 1004 | 1044  | 1049 | 274  |
| 175° | 1011 | 1009  | 1006 | 1020  | 1017 | 96   |
| 180° | 1009 | 1009  | 1009 | 1009  | 1009 |      |



TEST NUMBER: P518821

CATALOG NUMBER: SQ4-BB-125U-075D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2022.5 | 2022.5 | 2022.5 | 2022.5 | 2022.5 |
| 2.5°   | 2027.2 | 2008.1 | 2013.1 | 2013.0 | 2007.7 |
| 5°     | 1982.4 | 1962.3 | 1977.5 | 1984.5 | 1992.2 |
| 7.5°   | 1898.7 | 1883.0 | 1912.2 | 1934.0 | 1949.9 |
| 10°    | 1833.7 | 1820.3 | 1858.1 | 1888.0 | 1910.0 |
| 12.5°  | 1758.5 | 1748.2 | 1794.0 | 1834.9 | 1863.0 |
| 15°    | 1635.0 | 1629.3 | 1686.9 | 1743.5 | 1780.8 |
| 17.5°  | 1502.8 | 1502.6 | 1568.3 | 1638.6 | 1683.6 |
| 20°    | 1412.0 | 1414.8 | 1485.3 | 1562.9 | 1615.5 |
| 22.5°  | 1321.1 | 1327.8 | 1403.1 | 1484.0 | 1544.2 |
| 25°    | 1185.9 | 1195.5 | 1279.9 | 1367.4 | 1431.5 |
| 27.5°  | 1056.0 | 1069.9 | 1158.7 | 1249.7 | 1327.8 |
| 30°    | 970.7  | 986.9  | 1077.3 | 1173.1 | 1253.4 |
| 32.5°  | 886.9  | 906.2  | 994.3  | 1095.6 | 1177.5 |
| 35°    | 761.3  | 780.4  | 865.0  | 966.8  | 1054.8 |
| 37.5°  | 631.5  | 650.3  | 732.9  | 833.1  | 928.2  |
| 40°    | 547.0  | 568.0  | 646.8  | 743.9  | 840.5  |
| 42.5°  | 470.3  | 491.3  | 565.4  | 660.8  | 752.1  |
| 45°    | 365.0  | 387.0  | 452.1  | 540.1  | 624.3  |
| 47.5°  | 277.7  | 301.6  | 358.7  | 438.3  | 515.1  |
| 50°    | 226.0  | 249.9  | 306.3  | 376.4  | 450.1  |
| 52.5°  | 184.5  | 207.7  | 258.5  | 324.6  | 392.2  |
| 55°    | 131.1  | 153.1  | 197.7  | 253.8  | 312.1  |
| 57.5°  | 90.6   | 109.6  | 149.5  | 196.3  | 242.1  |
| 60°    | 65.6   | 83.7   | 121.3  | 159.4  | 196.7  |
| 62.5°  | 43.6   | 60.3   | 97.1   | 126.2  | 151.3  |
| 65°    | 14.7   | 28.1   | 62.6   | 75.5   | 84.1   |
| 67.5°  | 7.4    | 9.0    | 32.9   | 34.7   | 37.6   |
| 70°    | 5.9    | 5.9    | 15.7   | 16.7   | 19.6   |
| 72.5°  | 4.3    | 4.3    | 6.3    | 8.0    | 8.6    |
| 75°    | 2.0    | 2.0    | 1.0    | 0.0    | 0.0    |
| 77.5°  | 1.0    | 1.0    | 0.8    | 0.0    | 0.0    |
| 80°    | 1.0    | 1.0    | 0.0    | 0.0    | 0.0    |
| 82.5°  | 0.2    | 0.2    | 0.0    | 0.0    | 0.0    |
| 85°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5°  | 0.5    | 1.5    | 3.1    | 3.3    | 3.3    |
| 90°    | 2.6    | 7.6    | 15.4   | 16.7   | 16.7   |
| 92.5°  | 31.4   | 110.8  | 219.1  | 105.5  | 73.3   |
| 95°    | 72.0   | 256.8  | 774.0  | 395.8  | 273.9  |
| 97.5°  | 114.9  | 294.0  | 1214.0 | 1014.2 | 764.8  |
| 100°   | 147.9  | 308.8  | 1353.9 | 1416.6 | 1175.2 |
| 102.5° | 179.8  | 329.6  | 1400.2 | 1717.9 | 1519.8 |
| 105°   | 235.3  | 366.0  | 1406.6 | 2104.4 | 1974.9 |
| 107.5° | 287.8  | 404.4  | 1346.7 | 2303.1 | 2336.5 |
| 110°   | 322.7  | 433.4  | 1292.2 | 2364.7 | 2486.7 |



TEST NUMBER: P518821

CATALOG NUMBER: SQ4-BB-125U-075D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 359.8  | 462.3  | 1239.7 | 2351.1 | 2551.5 |
| 115°   | 415.3  | 508.3  | 1171.3 | 2263.3 | 2560.0 |
| 117.5° | 466.0  | 553.2  | 1118.4 | 2123.1 | 2453.5 |
| 120°   | 498.9  | 583.1  | 1091.6 | 2022.5 | 2362.0 |
| 122.5° | 527.7  | 610.9  | 1072.1 | 1919.6 | 2258.1 |
| 125°   | 567.0  | 651.3  | 1051.8 | 1777.6 | 2091.9 |
| 127.5° | 604.8  | 687.8  | 1038.9 | 1652.4 | 1933.0 |
| 130°   | 627.5  | 710.4  | 1033.8 | 1580.7 | 1827.1 |
| 132.5° | 650.1  | 732.1  | 1028.6 | 1517.5 | 1743.8 |
| 135°   | 682.7  | 761.9  | 1022.2 | 1434.1 | 1623.9 |
| 137.5° | 713.9  | 789.8  | 1018.8 | 1363.4 | 1519.3 |
| 140°   | 735.5  | 808.4  | 1015.8 | 1319.8 | 1460.6 |
| 142.5° | 758.1  | 826.0  | 1013.7 | 1279.2 | 1397.9 |
| 145°   | 789.5  | 851.1  | 1009.3 | 1226.1 | 1316.6 |
| 147.5° | 823.4  | 877.0  | 1005.0 | 1181.4 | 1252.6 |
| 150°   | 846.0  | 892.6  | 1002.9 | 1153.4 | 1212.5 |
| 152.5° | 866.6  | 907.1  | 1001.9 | 1130.5 | 1178.5 |
| 155°   | 896.2  | 928.9  | 1000.3 | 1100.1 | 1135.3 |
| 157.5° | 922.2  | 947.5  | 1000.6 | 1078.8 | 1102.4 |
| 160°   | 938.6  | 960.0  | 1001.6 | 1066.3 | 1083.9 |
| 162.5° | 953.0  | 970.4  | 1002.6 | 1055.9 | 1068.5 |
| 165°   | 972.0  | 983.4  | 1004.2 | 1044.2 | 1049.2 |
| 167.5° | 987.5  | 994.0  | 1005.5 | 1035.1 | 1037.1 |
| 170°   | 997.8  | 1000.3 | 1005.5 | 1029.9 | 1029.9 |
| 172.5° | 1003.9 | 1004.4 | 1006.5 | 1024.8 | 1024.8 |
| 175°   | 1010.6 | 1009.4 | 1005.5 | 1019.6 | 1017.0 |
| 177.5° | 1013.4 | 1011.4 | 1006.2 | 1014.4 | 1012.4 |
| 180°   | 1009.3 | 1009.3 | 1009.3 | 1009.3 | 1009.3 |

(END OF REPORT)