

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: METALUX

Report Number: P290399

Luminaire Tested: **8SSRK-SLN-50-L950-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290399  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-15)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-SLN-50-L950-CD1-U  
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 90 CRI 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

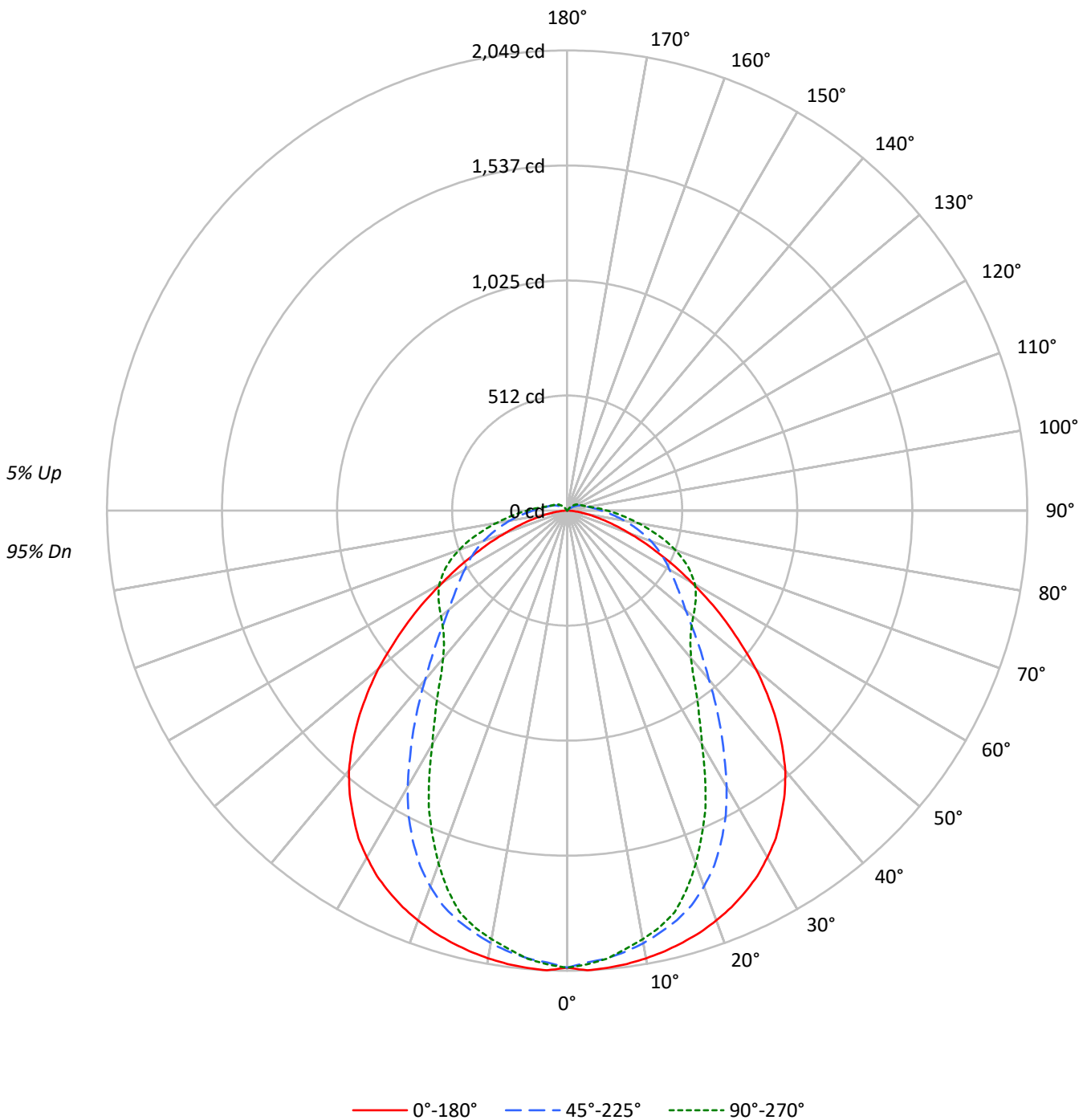
Lumens per Lamp: N/A  
Luminaire Lumens: 4818.1 lumens  
Efficiency: N/A  
Efficacy: 140.9 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 0.98 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 34.1991  
Input Voltage (V): NR  
Input 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: 25 FT



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### Luminous Intensity Polar Plot





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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |   |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|---|----|--|--|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |     | 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 | 50 | 30 | 10 | 0 |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |   |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 0   | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 108 | 108 | 108 | 103 | 103 | 103 | 98 | 98 | 98 | 95 |    |    |    |    |    |    |    |    |   |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 107 | 102 | 98  | 94  | 104 | 100 | 96  | 92  | 94  | 91  | 88  | 90  | 87  | 85  | 85 | 83 | 81 | 79 |    |    |    |    |    |    |    |    |   |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 98  | 90  | 83  | 77  | 95  | 87  | 81  | 76  | 83  | 78  | 73  | 79  | 75  | 71  | 75 | 72 | 69 | 66 |    |    |    |    |    |    |    |    |   |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 90  | 79  | 71  | 65  | 87  | 77  | 70  | 64  | 74  | 67  | 62  | 70  | 65  | 60  | 67 | 63 | 59 | 56 |    |    |    |    |    |    |    |    |   |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 82  | 71  | 62  | 56  | 80  | 69  | 61  | 55  | 66  | 59  | 54  | 63  | 57  | 52  | 60 | 55 | 51 | 49 |    |    |    |    |    |    |    |    |   |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 76  | 64  | 55  | 48  | 74  | 62  | 54  | 48  | 60  | 52  | 47  | 57  | 51  | 46  | 55 | 49 | 45 | 43 |    |    |    |    |    |    |    |    |   |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 71  | 58  | 49  | 43  | 68  | 56  | 48  | 42  | 54  | 47  | 42  | 52  | 46  | 41  | 50 | 45 | 40 | 38 |    |    |    |    |    |    |    |    |   |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 50  | 42  | 37  | 48  | 41  | 37  | 46 | 40 | 36 | 34 |    |    |    |    |    |    |    |    |   |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 61  | 48  | 40  | 34  | 60  | 47  | 40  | 34  | 46  | 39  | 34  | 44  | 38  | 33  | 43 | 37 | 33 | 31 |    |    |    |    |    |    |    |    |   |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 57  | 44  | 37  | 31  | 56  | 44  | 36  | 31  | 42  | 35  | 31  | 41  | 35  | 30  | 40 | 34 | 30 | 28 |    |    |    |    |    |    |    |    |   |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 54  | 41  | 34  | 28  | 53  | 41  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 37 | 31 | 27 | 26 |    |    |    |    |    |    |    |    |   |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 65716 | 65716 | 65716 |
| 5°  | 66135 | 51973 | 48117 |
| 10° | 66140 | 42720 | 37256 |
| 15° | 66174 | 35827 | 29865 |
| 20° | 66236 | 30081 | 23421 |
| 25° | 66152 | 24883 | 18128 |
| 30° | 65689 | 20052 | 13528 |
| 35° | 64513 | 15730 | 10432 |
| 40° | 62612 | 12233 | 8300  |
| 45° | 58889 | 9717  | 7102  |
| 50° | 53809 | 7876  | 6386  |
| 55° | 47198 | 6663  | 5863  |
| 60° | 39900 | 5740  | 5355  |
| 65° | 32774 | 4986  | 4747  |
| 70° | 26246 | 4246  | 4028  |
| 75° | 20166 | 3505  | 3252  |
| 80° | 14535 | 2810  | 2513  |
| 85° | 9157  | 2198  | 1911  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 191.1  | 4.0       |
| 10°-20°   | 535.7  | 11.1      |
| 20°-30°   | 753.3  | 15.6      |
| 30°-40°   | 788.8  | 16.4      |
| 40°-50°   | 714.2  | 14.8      |
| 50°-60°   | 607.8  | 12.6      |
| 60°-70°   | 480.6  | 10.0      |
| 70°-80°   | 327.2  | 6.8       |
| 80°-90°   | 186.7  | 3.9       |
| 90°-100°  | 103.6  | 2.1       |
| 100°-110° | 63.3   | 1.3       |
| 110°-120° | 38.5   | 0.8       |
| 120°-130° | 20.9   | 0.4       |
| 130°-140° | 6.3    | 0.1       |
| 140°-150° | 0.1    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1480.0 | 30.7      |
| 0°-40°    | 2268.9 | 47.1      |
| 0°-60°    | 3590.9 | 74.5      |
| 0°-90°    | 4585.5 | 95.2      |
| 90°-120°  | 205.3  | 4.3       |
| 90°-150°  | 232.6  | 4.8       |
| 90°-180°  | 233.0  | 4.8       |
| 0°-180°   | 4818.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2035 | 2035  | 2035 | 2035  | 2035 |      |
| 5°   | 2044 | 2031  | 2002 | 2011  | 2004 | 194  |
| 15°  | 1990 | 1953  | 1888 | 1869  | 1851 | 562  |
| 25°  | 1875 | 1782  | 1624 | 1498  | 1458 | 864  |
| 35°  | 1660 | 1473  | 1193 | 1044  | 1006 | 1038 |
| 45°  | 1316 | 1045  | 818  | 775   | 778  | 1011 |
| 55°  | 863  | 659   | 599  | 668   | 699  | 772  |
| 65°  | 448  | 389   | 463  | 566   | 595  | 451  |
| 75°  | 174  | 212   | 326  | 401   | 415  | 190  |
| 85°  | 31   | 101   | 199  | 238   | 241  | 37   |
| 90°  | 1    | 70    | 152  | 177   | 177  | 2    |
| 95°  | 1    | 54    | 120  | 132   | 131  | 1    |
| 105° | 1    | 33    | 80   | 84    | 80   | 1    |
| 115° | 1    | 4     | 54   | 63    | 61   | 1    |
| 125° | 1    | 1     | 24   | 43    | 46   | 1    |
| 135° | 1    | 1     | 1    | 18    | 23   | 1    |
| 145° | 0    | 0     | 0    | 0     | 0    | 0    |
| 155° | 0    | 0     | 0    | 0     | 0    | 0    |
| 165° | 0    | 0     | 0    | 0     | 0    | 0    |
| 175° | 0    | 0     | 0    | 0     | 0    | 0    |
| 180° | 0    | 0     | 0    | 0     | 0    | 0    |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2035.1 | 2035.1 | 2035.1 | 2035.1 | 2035.1 |
| 2.5°   | 2049.0 | 2037.8 | 2014.5 | 2029.5 | 2022.8 |
| 5°     | 2044.0 | 2031.2 | 2002.2 | 2011.1 | 2003.9 |
| 7.5°   | 2036.2 | 2018.9 | 1981.6 | 1984.4 | 1970.5 |
| 10°    | 2024.5 | 2002.2 | 1956.0 | 1951.0 | 1937.6 |
| 12.5°  | 2009.4 | 1978.8 | 1923.2 | 1916.5 | 1900.9 |
| 15°    | 1990.5 | 1952.7 | 1888.1 | 1868.6 | 1850.8 |
| 17.5°  | 1969.4 | 1921.5 | 1843.0 | 1799.6 | 1769.0 |
| 20°    | 1942.1 | 1881.4 | 1781.2 | 1718.3 | 1673.8 |
| 22.5°  | 1911.5 | 1838.0 | 1711.6 | 1617.0 | 1566.4 |
| 25°    | 1874.7 | 1781.8 | 1624.3 | 1498.5 | 1457.8 |
| 27.5°  | 1834.1 | 1723.3 | 1529.1 | 1382.1 | 1328.1 |
| 30°    | 1782.9 | 1649.3 | 1420.5 | 1263.0 | 1200.7 |
| 32.5°  | 1729.5 | 1569.7 | 1302.5 | 1143.9 | 1095.5 |
| 35°    | 1660.4 | 1473.4 | 1193.4 | 1044.2 | 1005.8 |
| 37.5°  | 1590.9 | 1370.4 | 1084.9 | 955.2  | 921.2  |
| 40°    | 1511.3 | 1266.3 | 982.5  | 881.7  | 857.8  |
| 42.5°  | 1416.6 | 1160.6 | 895.6  | 819.9  | 811.6  |
| 45°    | 1316.4 | 1045.4 | 817.7  | 774.8  | 777.6  |
| 47.5°  | 1207.3 | 940.7  | 747.0  | 738.7  | 752.6  |
| 50°    | 1097.7 | 843.3  | 688.0  | 711.4  | 733.1  |
| 52.5°  | 975.8  | 749.2  | 641.2  | 689.1  | 715.3  |
| 55°    | 863.3  | 659.1  | 598.9  | 668.0  | 699.1  |
| 57.5°  | 751.5  | 582.2  | 562.2  | 646.3  | 679.1  |
| 60°    | 640.1  | 512.1  | 526.6  | 622.9  | 657.4  |
| 62.5°  | 543.3  | 445.3  | 495.4  | 596.7  | 626.8  |
| 65°    | 448.1  | 389.1  | 463.1  | 565.5  | 595.0  |
| 67.5°  | 369.0  | 339.0  | 430.8  | 528.2  | 555.0  |
| 70°    | 293.9  | 291.7  | 396.3  | 487.1  | 511.5  |
| 72.5°  | 229.3  | 248.8  | 360.1  | 444.2  | 467.6  |
| 75°    | 174.2  | 212.1  | 326.2  | 400.8  | 415.2  |
| 77.5°  | 127.5  | 177.6  | 291.7  | 356.8  | 366.8  |
| 80°    | 87.4   | 147.5  | 258.8  | 312.8  | 320.1  |
| 82.5°  | 55.1   | 121.9  | 227.1  | 273.3  | 278.3  |
| 85°    | 30.6   | 100.8  | 198.7  | 237.7  | 241.0  |
| 87.5°  | 11.7   | 82.9   | 173.1  | 206.5  | 209.3  |
| 90°    | 0.6    | 70.1   | 152.0  | 177.0  | 177.0  |
| 92.5°  | 0.6    | 61.2   | 134.7  | 153.6  | 154.7  |
| 95°    | 1.1    | 54.0   | 119.7  | 132.5  | 131.4  |
| 97.5°  | 1.1    | 49.0   | 105.8  | 116.3  | 113.0  |
| 100°   | 1.1    | 44.5   | 95.2   | 102.4  | 99.1   |
| 102.5° | 1.1    | 39.5   | 86.8   | 91.3   | 87.4   |
| 105°   | 1.1    | 32.8   | 80.2   | 83.5   | 80.2   |
| 107.5° | 1.1    | 26.2   | 72.9   | 77.4   | 74.0   |
| 110°   | 1.1    | 19.5   | 66.2   | 71.8   | 69.0   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°  |
|--------|-----|-------|------|-------|------|
| 112.5° | 0.6 | 12.2  | 60.1 | 66.8  | 65.1 |
| 115°   | 1.1 | 4.5   | 54.0 | 62.9  | 61.2 |
| 117.5° | 0.6 | 2.2   | 46.2 | 58.4  | 57.9 |
| 120°   | 0.6 | 1.7   | 39.0 | 54.6  | 54.6 |
| 122.5° | 0.6 | 1.7   | 32.3 | 49.0  | 51.2 |
| 125°   | 0.6 | 1.1   | 24.5 | 43.4  | 46.2 |
| 127.5° | 0.6 | 1.1   | 17.3 | 37.9  | 41.2 |
| 130°   | 0.6 | 1.1   | 8.9  | 31.2  | 35.6 |
| 132.5° | 0.6 | 1.1   | 1.1  | 24.5  | 29.5 |
| 135°   | 1.1 | 1.1   | 1.1  | 17.8  | 23.4 |
| 137.5° | 1.1 | 1.1   | 1.1  | 9.5   | 16.7 |
| 140°   | 1.1 | 1.1   | 0.6  | 0.6   | 7.8  |
| 142.5° | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 145°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 147.5° | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 150°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 152.5° | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 155°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 157.5° | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 160°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 162.5° | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 165°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 167.5° | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 170°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 172.5° | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 175°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 177.5° | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 180°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |

(END OF REPORT)