

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: McGRAW-EDISON

Report Number: P652162

Luminaire Tested: **GALN-SA1B-840-U-RW-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652162  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1B-840-U-RW-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND RECTANGULAR WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4242.8 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G0

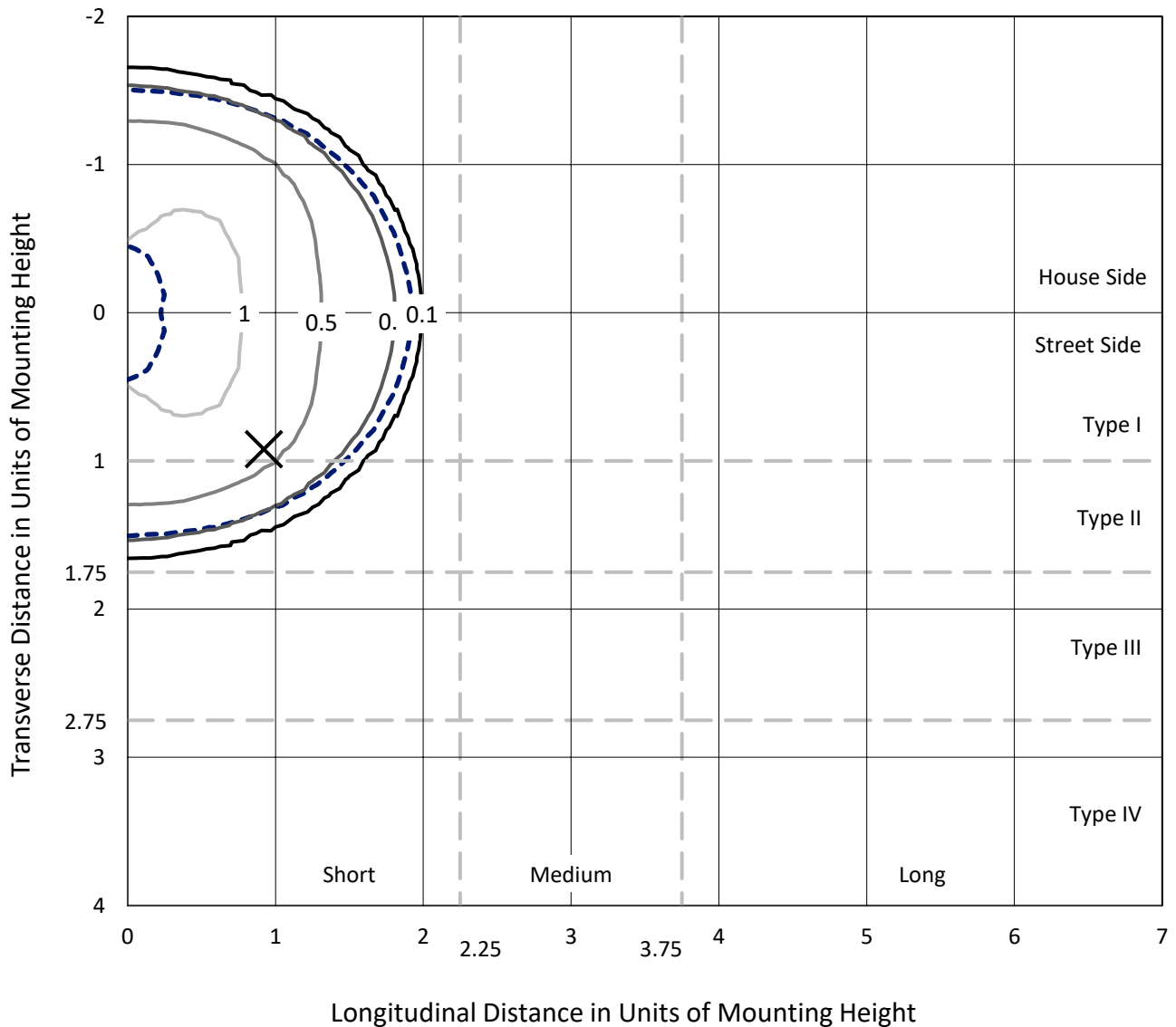
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

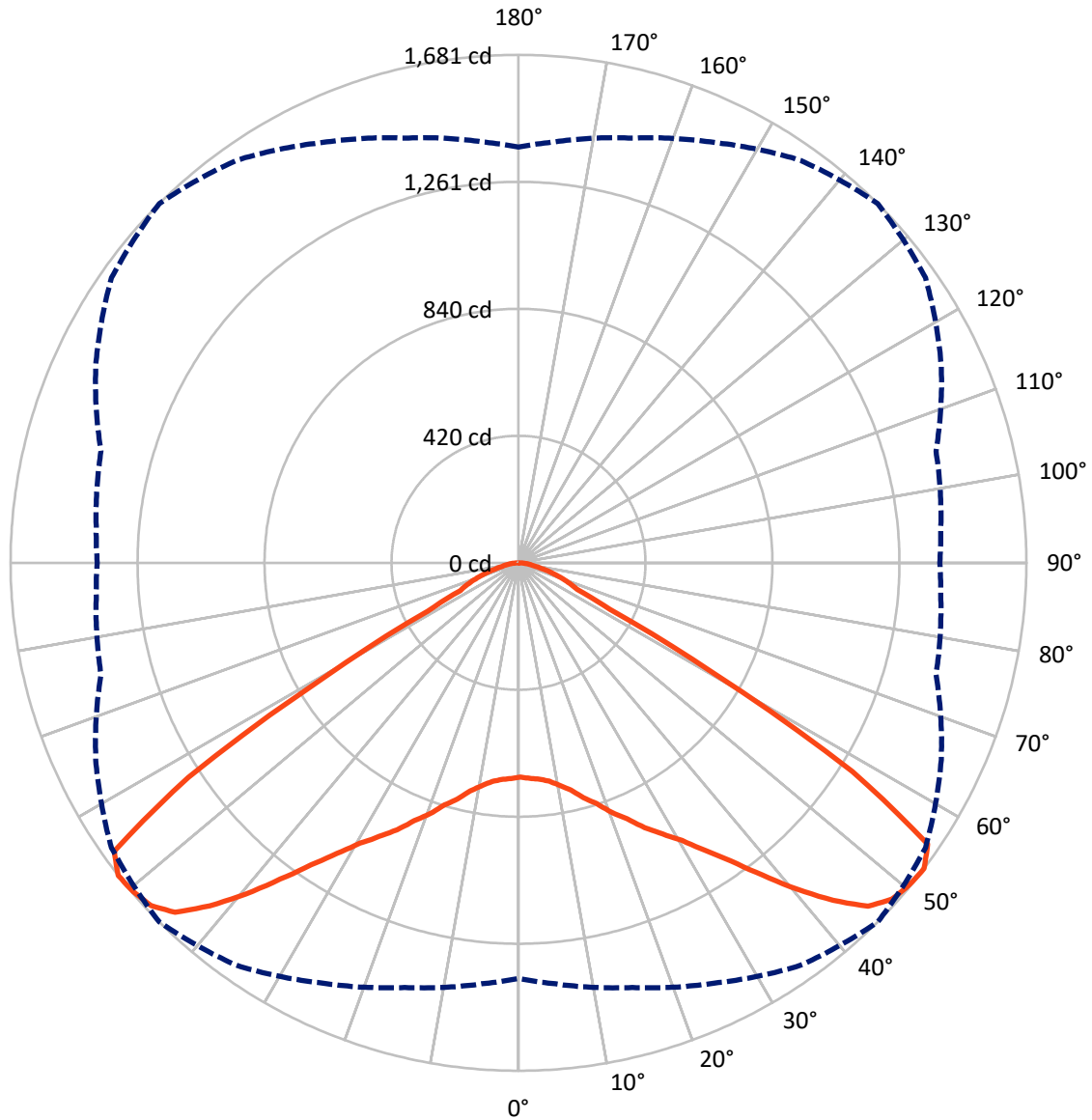
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2121.4   | 0.0    | 2121.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2121.4   | 0.0    | 2121.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 4242.8   | 0.0    | 4242.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 69.7   | 1.6       |
| 10°-20°   | 229.0  | 5.4       |
| 20°-30°   | 435.9  | 10.3      |
| 30°-40°   | 748.5  | 17.6      |
| 40°-50°   | 1150.5 | 27.1      |
| 50°-60°   | 1168.3 | 27.5      |
| 60°-70°   | 325.6  | 7.7       |
| 70°-80°   | 96.0   | 2.3       |
| 80°-90°   | 19.3   | 0.5       |
| 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°    | 4242.8 | 100.0     |
| 0°-180°   | 4242.8 | 100.0     |

**Coefficient of Utilization**

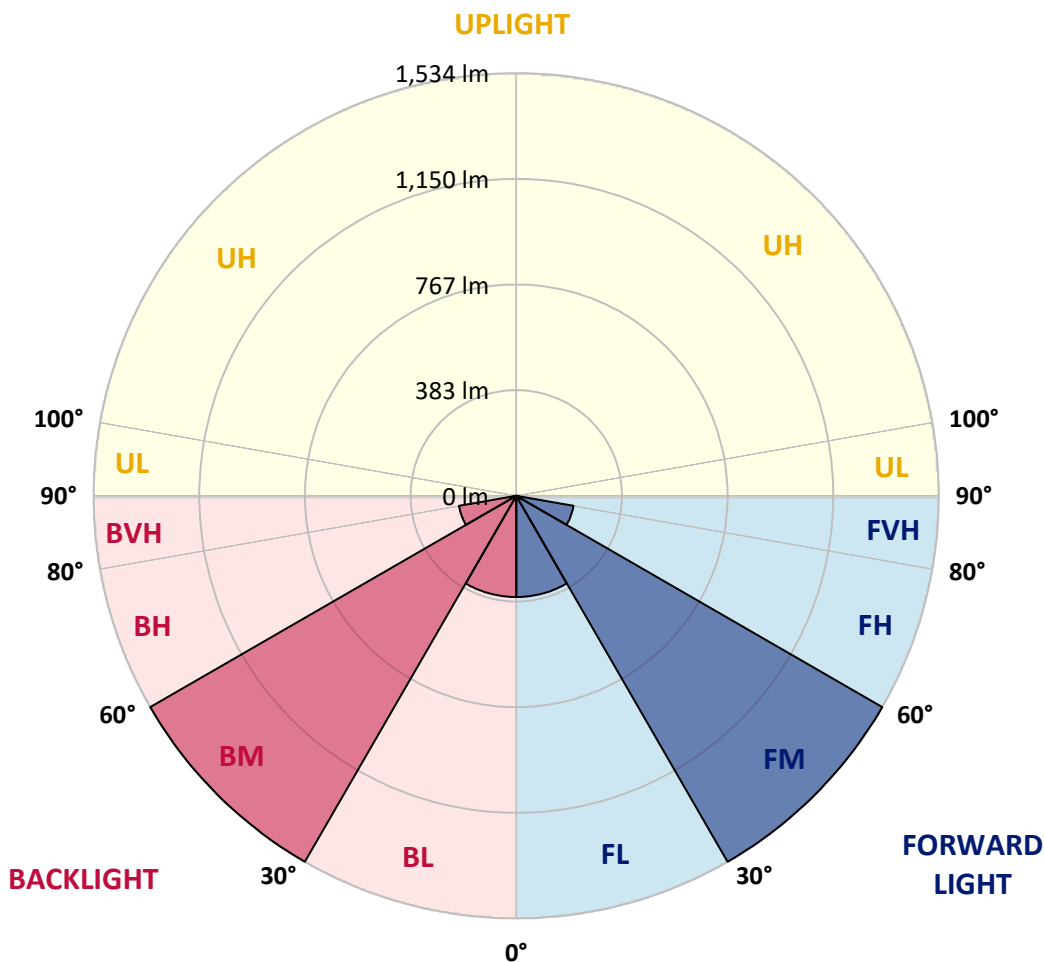


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 367.3  | 8.7       |                         |      |        |
| FM (30°-60°)   | 1533.6 | 36.1      |                         |      |        |
| FH (60°-80°)   | 210.8  | 5.0       |                         |      | G0/660 |
| FVH (80°-90°)  | 9.7    | 0.2       |                         |      | G0/10  |
| BL (0°-30°)    | 367.3  | 8.7       | B1/500                  |      |        |
| BM (30°-60°)   | 1533.6 | 36.1      | B2/2500                 |      |        |
| BH (60°-80°)   | 210.8  | 5.0       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 9.7    | 0.2       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G0**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 709.2  | 709.2  | 709.2  | 709.2  | 709.2  | 709.2  | 709.2  | 709.2  | 709.2  | 709.2  | 709.2  |
| 2.5°  | 710.8  | 703.5  | 706.1  | 707.7  | 714.5  | 714.0  | 712.4  | 714.5  | 716.6  | 717.1  | 716.1  |
| 5°    | 710.3  | 705.0  | 707.1  | 708.7  | 715.6  | 719.2  | 718.2  | 727.1  | 733.4  | 731.9  | 739.8  |
| 7.5°  | 706.1  | 709.2  | 706.6  | 714.5  | 720.3  | 729.2  | 738.7  | 747.1  | 755.0  | 764.0  | 765.6  |
| 10°   | 715.6  | 715.6  | 720.3  | 726.6  | 741.9  | 748.7  | 762.5  | 774.6  | 789.8  | 800.4  | 796.1  |
| 12.5° | 725.5  | 727.1  | 727.1  | 743.4  | 756.1  | 771.4  | 784.0  | 800.4  | 821.9  | 834.5  | 840.9  |
| 15°   | 735.5  | 736.6  | 741.9  | 764.0  | 783.0  | 807.2  | 818.8  | 833.5  | 845.6  | 869.3  | 869.8  |
| 17.5° | 744.5  | 750.3  | 766.2  | 790.9  | 814.6  | 837.7  | 856.1  | 871.4  | 882.0  | 891.5  | 889.4  |
| 20°   | 778.3  | 782.5  | 798.8  | 823.5  | 858.7  | 881.5  | 887.8  | 890.4  | 897.3  | 916.2  | 910.4  |
| 22.5° | 810.9  | 812.5  | 827.7  | 865.6  | 890.4  | 920.4  | 927.2  | 925.7  | 928.3  | 933.0  | 941.4  |
| 25°   | 844.5  | 847.2  | 868.2  | 900.4  | 935.1  | 970.9  | 976.7  | 964.6  | 960.9  | 966.2  | 966.7  |
| 27.5° | 887.8  | 888.3  | 915.1  | 943.0  | 982.5  | 1016.2 | 1025.2 | 1015.7 | 998.4  | 1002.6 | 1009.4 |
| 30°   | 942.5  | 938.8  | 965.6  | 1005.7 | 1047.3 | 1066.2 | 1081.5 | 1076.7 | 1057.8 | 1054.1 | 1048.3 |
| 32.5° | 1005.7 | 1006.8 | 1031.0 | 1074.6 | 1102.0 | 1133.7 | 1150.0 | 1142.1 | 1130.0 | 1123.7 | 1127.4 |
| 35°   | 1094.6 | 1099.4 | 1115.8 | 1152.1 | 1196.3 | 1212.1 | 1237.9 | 1221.0 | 1189.4 | 1197.3 | 1204.2 |
| 37.5° | 1167.9 | 1181.5 | 1212.1 | 1255.3 | 1281.6 | 1310.5 | 1320.0 | 1297.4 | 1274.2 | 1264.8 | 1287.4 |
| 40°   | 1280.0 | 1275.8 | 1309.5 | 1352.7 | 1391.6 | 1420.6 | 1408.5 | 1385.9 | 1328.4 | 1328.9 | 1335.3 |
| 42.5° | 1376.4 | 1378.5 | 1404.3 | 1455.9 | 1509.1 | 1527.0 | 1488.5 | 1433.2 | 1369.6 | 1362.7 | 1376.4 |
| 45°   | 1457.5 | 1465.9 | 1480.7 | 1549.6 | 1601.8 | 1621.2 | 1550.1 | 1484.9 | 1399.5 | 1371.1 | 1393.8 |
| 47.5° | 1486.4 | 1500.1 | 1532.2 | 1595.4 | 1647.0 | 1662.8 | 1606.0 | 1512.2 | 1427.4 | 1381.1 | 1393.2 |
| 50°   | 1490.7 | 1485.9 | 1538.5 | 1596.5 | 1641.7 | 1675.9 | 1626.0 | 1532.2 | 1420.6 | 1396.4 | 1392.7 |
| 52.5° | 1375.3 | 1398.5 | 1454.8 | 1534.3 | 1626.0 | 1680.7 | 1643.8 | 1543.3 | 1430.1 | 1402.7 | 1393.8 |
| 55°   | 1113.1 | 1085.7 | 1188.4 | 1322.1 | 1490.7 | 1642.8 | 1637.5 | 1549.0 | 1435.8 | 1413.2 | 1401.1 |
| 57.5° | 621.3  | 629.2  | 687.1  | 832.4  | 1049.9 | 1302.6 | 1455.9 | 1488.0 | 1433.2 | 1420.1 | 1426.4 |
| 60°   | 287.5  | 290.1  | 314.9  | 382.8  | 517.6  | 738.7  | 940.4  | 1145.2 | 1239.5 | 1258.4 | 1258.4 |
| 62.5° | 214.3  | 213.3  | 219.6  | 231.7  | 260.1  | 339.6  | 453.4  | 616.0  | 745.5  | 836.1  | 859.8  |
| 65°   | 193.8  | 193.3  | 196.4  | 200.6  | 202.7  | 213.8  | 239.0  | 289.1  | 331.2  | 355.4  | 351.2  |
| 67.5° | 169.5  | 169.0  | 170.1  | 172.7  | 176.4  | 182.2  | 188.5  | 199.1  | 213.8  | 212.7  | 210.1  |
| 70°   | 136.9  | 136.9  | 138.5  | 140.6  | 144.8  | 151.6  | 159.0  | 166.3  | 179.0  | 181.7  | 181.2  |
| 72.5° | 101.1  | 99.5   | 102.7  | 106.9  | 111.1  | 119.5  | 127.4  | 134.3  | 143.2  | 145.8  | 144.8  |
| 75°   | 64.3   | 65.3   | 67.4   | 72.2   | 79.5   | 85.3   | 93.7   | 99.5   | 105.3  | 107.4  | 107.9  |
| 77.5° | 35.8   | 36.8   | 40.5   | 46.3   | 53.7   | 60.0   | 67.4   | 72.2   | 75.9   | 76.4   | 76.9   |
| 80°   | 21.6   | 22.1   | 25.8   | 31.0   | 37.4   | 44.2   | 50.0   | 54.7   | 57.9   | 56.3   | 55.8   |
| 82.5° | 13.2   | 13.7   | 16.8   | 21.6   | 26.8   | 32.1   | 38.4   | 42.6   | 45.8   | 43.7   | 41.6   |
| 85°   | 6.8    | 7.4    | 10.0   | 13.2   | 17.4   | 20.0   | 20.0   | 17.9   | 17.4   | 16.3   | 15.8   |
| 87.5° | 2.1    | 2.1    | 2.6    | 3.2    | 2.6    | 3.2    | 3.7    | 4.2    | 4.2    | 4.7    | 4.2    |
| 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)