

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: P531706

Luminaire Tested: **GALN-SA7A-735-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531706  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-735-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26191 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

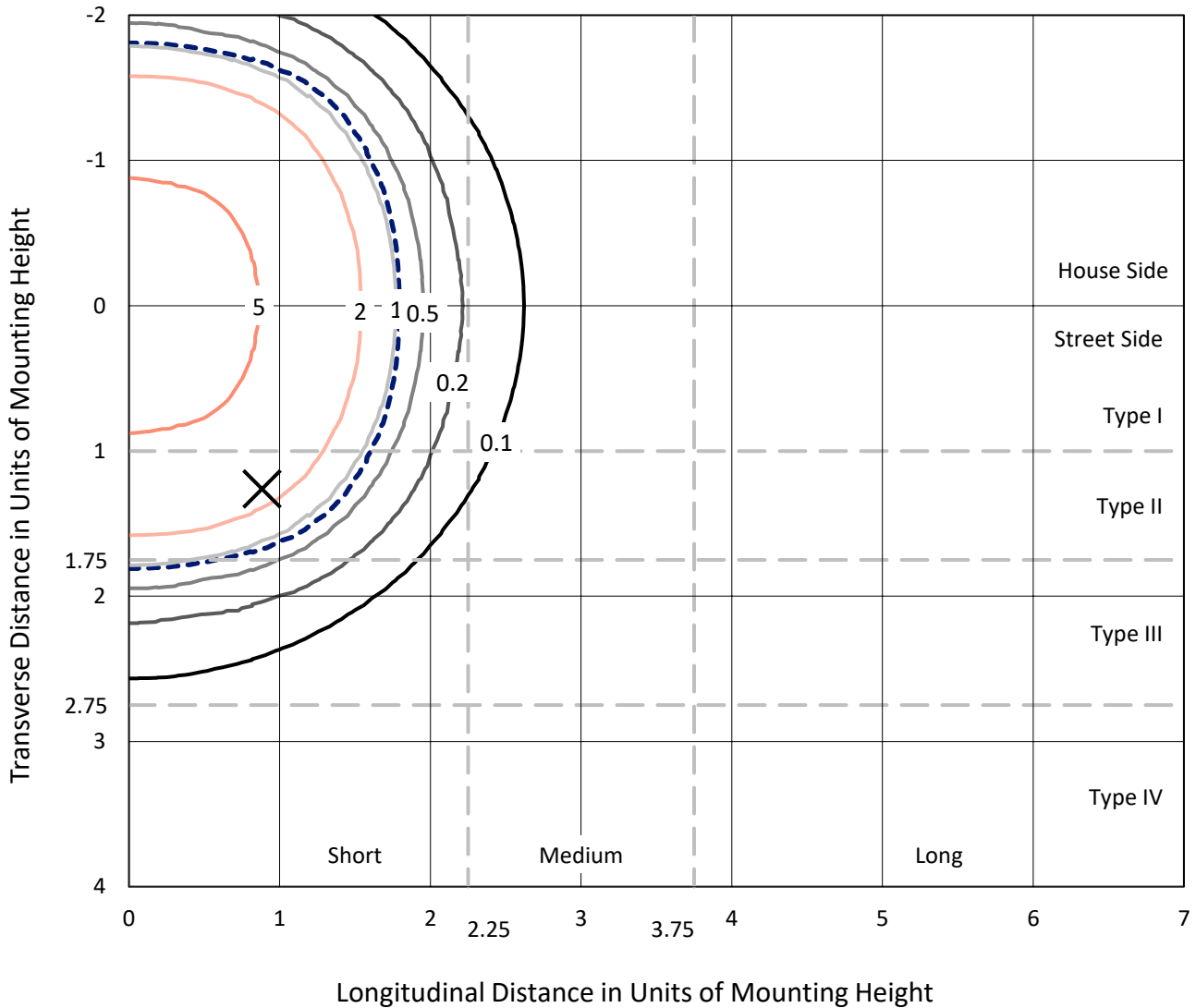
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

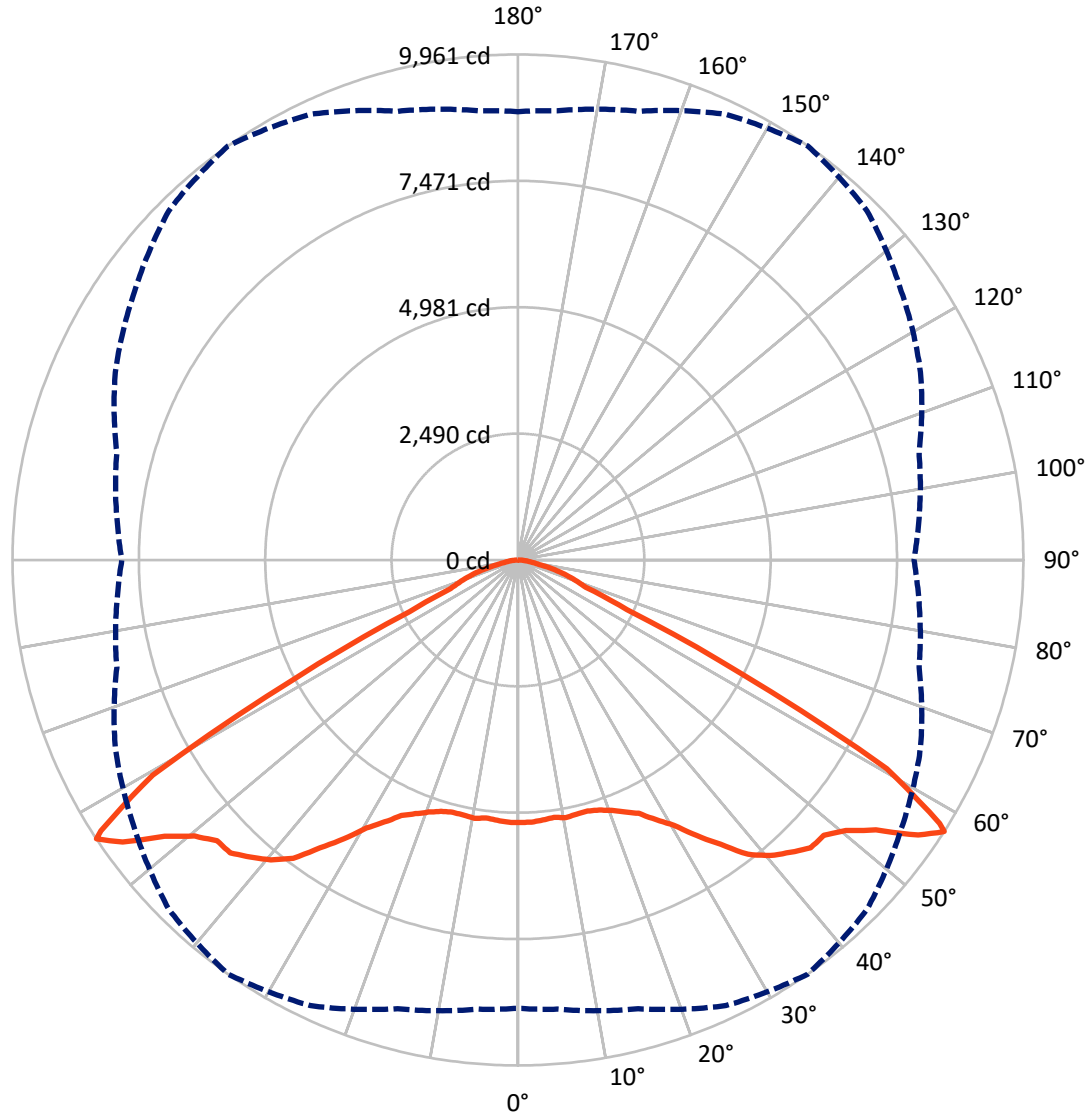
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 57-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 13095.5  | 0.0    | 13095.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 13095.5  | 0.0    | 13095.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 26191.0  | 0.0    | 26191.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 490.4   | 1.9       |
| 10°-20°   | 1452.3  | 5.5       |
| 20°-30°   | 2536.5  | 9.7       |
| 30°-40°   | 4156.1  | 15.9      |
| 40°-50°   | 6093.9  | 23.3      |
| 50°-60°   | 7675.8  | 29.3      |
| 60°-70°   | 2886.8  | 11.0      |
| 70°-80°   | 767.6   | 2.9       |
| 80°-90°   | 131.6   | 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°    | 26191.0 | 100.0     |
| 0°-180°   | 26191.0 | 100.0     |



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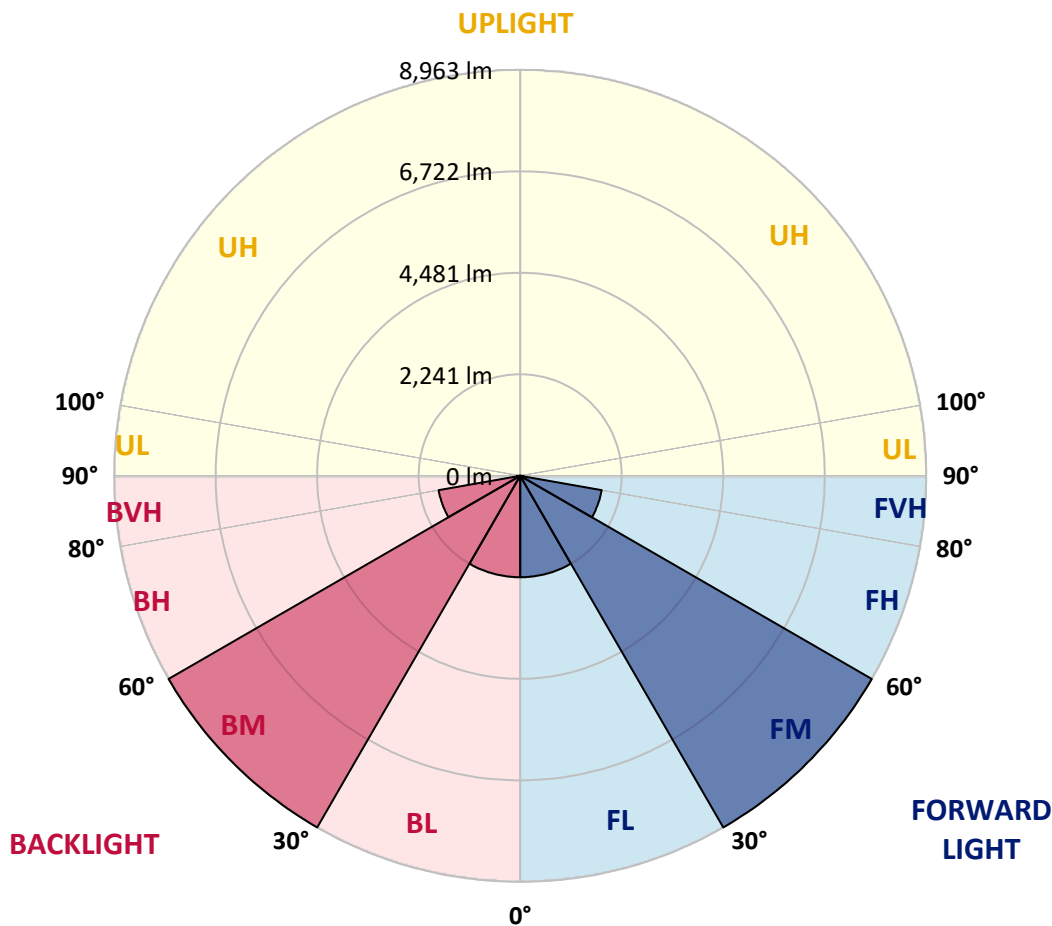
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 2239.6 | 8.6       |                         |      |         |
| FM (30°-60°)   | 8962.9 | 34.2      |                         |      |         |
| FH (60°-80°)   | 1827.2 | 7.0       |                         |      | G2/5000 |
| FVH (80°-90°)  | 65.8   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 2239.6 | 8.6       | B3/2500                 |      |         |
| BM (30°-60°)   | 8962.9 | 34.2      | B5                      |      |         |
| BH (60°-80°)   | 1827.2 | 7.0       | B3/2500                 |      | G2/5000 |
| BVH (80°-90°)  | 65.8   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5172.5 | 5172.5 | 5172.5 | 5172.5 | 5172.5 | 5172.5 | 5172.5 | 5172.5 | 5172.5 | 5172.5 | 5172.5 |
| 2.5°  | 5146.7 | 5198.3 | 5175.8 | 5162.8 | 5172.5 | 5156.4 | 5130.6 | 5159.6 | 5153.2 | 5127.4 | 5117.7 |
| 5°    | 5133.8 | 5172.5 | 5146.7 | 5172.5 | 5146.7 | 5191.9 | 5179.0 | 5130.6 | 5188.7 | 5133.8 | 5153.2 |
| 7.5°  | 5124.1 | 5137.0 | 5143.5 | 5130.6 | 5120.9 | 5175.8 | 5146.7 | 5124.1 | 5091.9 | 5082.2 | 5098.3 |
| 10°   | 5101.5 | 5133.8 | 5085.4 | 5149.9 | 5162.8 | 5124.1 | 5124.1 | 5082.2 | 5056.4 | 5040.2 | 5095.1 |
| 12.5° | 5159.6 | 5104.8 | 5098.3 | 5130.6 | 5140.3 | 5156.4 | 5111.2 | 5088.6 | 5040.2 | 5046.7 | 5037.0 |
| 15°   | 5091.9 | 5114.4 | 5117.7 | 5124.1 | 5133.8 | 5172.5 | 5130.6 | 5082.2 | 5062.8 | 4995.1 | 5001.5 |
| 17.5° | 5117.7 | 5095.1 | 5117.7 | 5191.9 | 5179.0 | 5208.0 | 5162.8 | 5088.6 | 5043.5 | 5004.7 | 5056.4 |
| 20°   | 5162.8 | 5153.2 | 5162.8 | 5253.2 | 5269.3 | 5295.1 | 5256.4 | 5188.7 | 5101.5 | 5056.4 | 5082.2 |
| 22.5° | 5211.3 | 5204.8 | 5211.3 | 5298.4 | 5392.0 | 5424.2 | 5385.5 | 5227.4 | 5182.2 | 5098.3 | 5069.3 |
| 25°   | 5298.4 | 5304.8 | 5372.6 | 5469.4 | 5530.7 | 5592.0 | 5521.0 | 5408.1 | 5262.9 | 5211.3 | 5149.9 |
| 27.5° | 5492.0 | 5508.1 | 5546.8 | 5688.8 | 5795.3 | 5850.2 | 5750.1 | 5595.2 | 5504.9 | 5398.4 | 5382.3 |
| 30°   | 5730.8 | 5730.8 | 5798.5 | 5921.1 | 6066.3 | 6150.2 | 6027.6 | 5843.7 | 5734.0 | 5675.9 | 5640.4 |
| 32.5° | 6047.0 | 6011.5 | 6037.3 | 6253.5 | 6479.4 | 6550.4 | 6385.8 | 6159.9 | 5985.7 | 5908.2 | 5882.4 |
| 35°   | 6318.0 | 6340.6 | 6398.7 | 6631.0 | 6882.7 | 7047.3 | 6789.1 | 6495.5 | 6318.0 | 6247.0 | 6234.1 |
| 37.5° | 6669.8 | 6708.5 | 6737.5 | 7057.0 | 7360.3 | 7421.6 | 7173.1 | 6937.6 | 6721.4 | 6663.3 | 6631.0 |
| 40°   | 7166.7 | 7140.9 | 7150.5 | 7386.1 | 7660.4 | 7699.1 | 7453.9 | 7286.1 | 7108.6 | 7073.1 | 7073.1 |
| 42.5° | 7576.5 | 7547.4 | 7579.7 | 7666.8 | 7876.6 | 7847.5 | 7712.0 | 7589.4 | 7515.2 | 7476.5 | 7515.2 |
| 45°   | 7824.9 | 7818.5 | 7876.6 | 7941.1 | 8089.5 | 7992.7 | 7886.3 | 7905.6 | 7834.6 | 7770.1 | 7766.9 |
| 47.5° | 8096.0 | 8054.0 | 8125.0 | 8221.8 | 8108.9 | 8063.7 | 8057.3 | 8099.2 | 8076.6 | 7963.7 | 7928.2 |
| 50°   | 8228.3 | 8212.2 | 8325.1 | 8438.0 | 8376.7 | 8273.5 | 8296.1 | 8363.8 | 8073.4 | 7921.7 | 7834.6 |
| 52.5° | 8583.2 | 8586.5 | 8802.7 | 8864.0 | 8838.2 | 8686.5 | 8734.9 | 8551.0 | 8208.9 | 7996.0 | 8005.6 |
| 55°   | 9141.5 | 9118.9 | 9360.9 | 9541.6 | 9570.6 | 9377.0 | 9144.7 | 8886.6 | 8457.4 | 8241.2 | 8176.7 |
| 57°   | 8834.9 | 8886.6 | 9154.4 | 9690.0 | 9961.1 | 9732.0 | 9225.4 | 8754.3 | 8183.1 | 7921.7 | 7805.6 |
| 57.5° | 8425.1 | 8509.0 | 8973.7 | 9512.5 | 9796.5 | 9777.1 | 9125.3 | 8509.0 | 7999.2 | 7592.6 | 7602.3 |
| 60°   | 6172.8 | 6189.0 | 6608.4 | 7463.5 | 8350.9 | 8370.3 | 7576.5 | 6760.1 | 6192.2 | 5750.1 | 5811.4 |
| 62.5° | 3255.8 | 3330.0 | 3497.8 | 4185.1 | 4953.1 | 5140.3 | 4659.5 | 4240.0 | 3749.5 | 3413.9 | 3446.2 |
| 65°   | 1723.1 | 1713.4 | 1794.1 | 1987.7 | 2365.2 | 2462.0 | 2397.5 | 2065.1 | 1894.1 | 1839.3 | 1842.5 |
| 67.5° | 1400.4 | 1416.6 | 1406.9 | 1416.6 | 1442.4 | 1484.3 | 1474.6 | 1487.5 | 1497.2 | 1513.4 | 1510.1 |
| 70°   | 1187.5 | 1187.5 | 1193.9 | 1197.1 | 1197.1 | 1216.5 | 1239.1 | 1281.0 | 1284.3 | 1300.4 | 1306.8 |
| 72.5° | 935.8  | 929.3  | 939.0  | 961.6  | 964.8  | 980.9  | 1013.2 | 1039.0 | 1048.7 | 1048.7 | 1029.3 |
| 75°   | 635.7  | 642.1  | 655.0  | 674.4  | 693.8  | 722.8  | 748.6  | 764.7  | 771.2  | 761.5  | 751.8  |
| 77.5° | 358.2  | 364.6  | 374.3  | 403.3  | 425.9  | 451.7  | 480.8  | 496.9  | 513.1  | 516.3  | 496.9  |
| 80°   | 213.0  | 213.0  | 229.1  | 251.7  | 277.5  | 303.3  | 329.1  | 348.5  | 354.9  | 354.9  | 345.3  |
| 82.5° | 129.1  | 132.3  | 145.2  | 167.8  | 190.4  | 206.5  | 229.1  | 245.2  | 258.1  | 254.9  | 248.5  |
| 85°   | 67.8   | 67.8   | 80.7   | 100.0  | 116.2  | 132.3  | 132.3  | 122.6  | 116.2  | 100.0  | 93.6   |
| 87.5° | 22.6   | 19.4   | 25.8   | 25.8   | 22.6   | 25.8   | 25.8   | 29.0   | 29.0   | 29.0   | 29.0   |
| 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)