

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: P533214

Luminaire Tested: **GALN-SA8C-827-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533214  
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-SA8C-827-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1050mA 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: 36837 lumens  
Efficiency: N/A  
Efficacy: 85.9 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

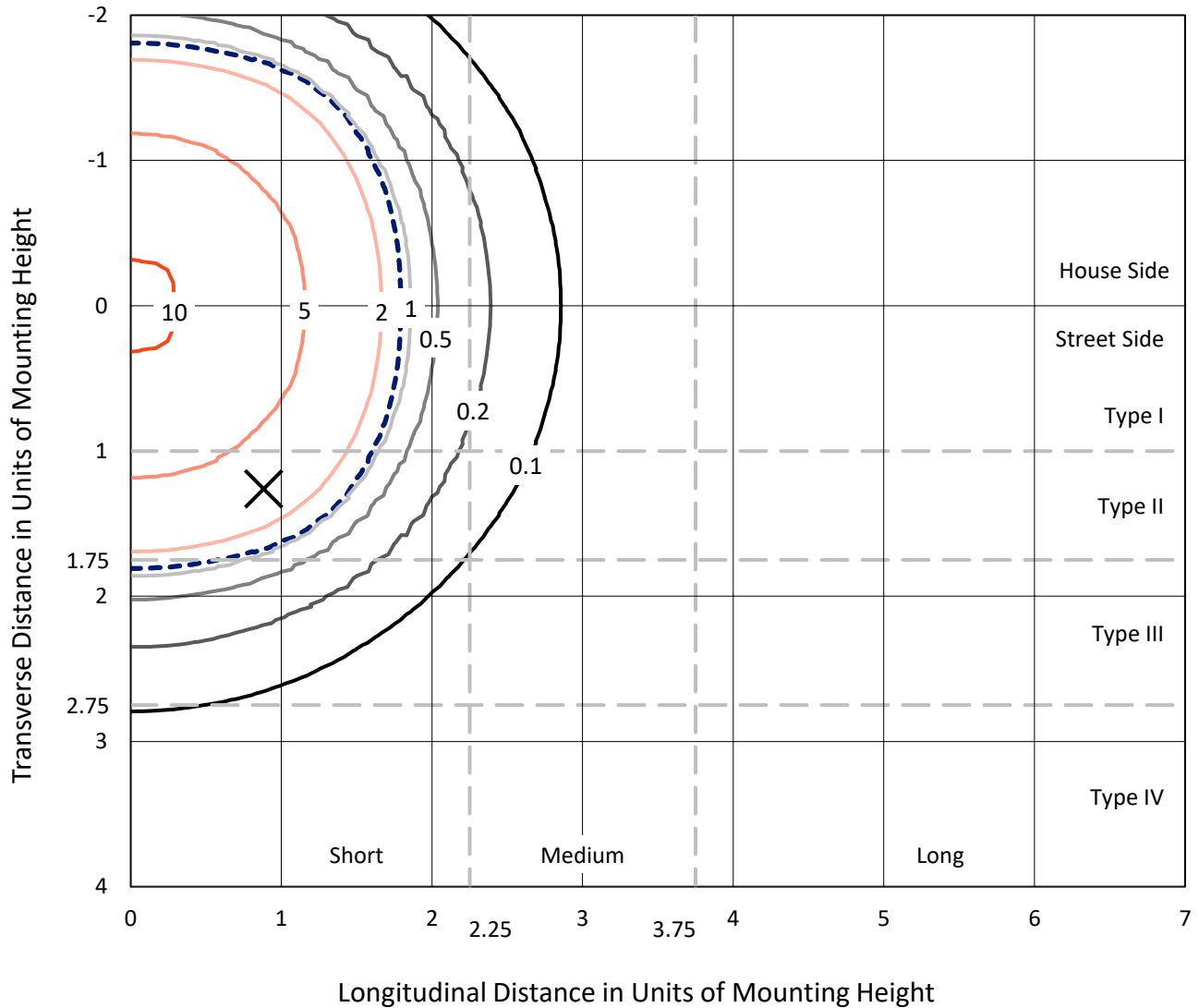
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

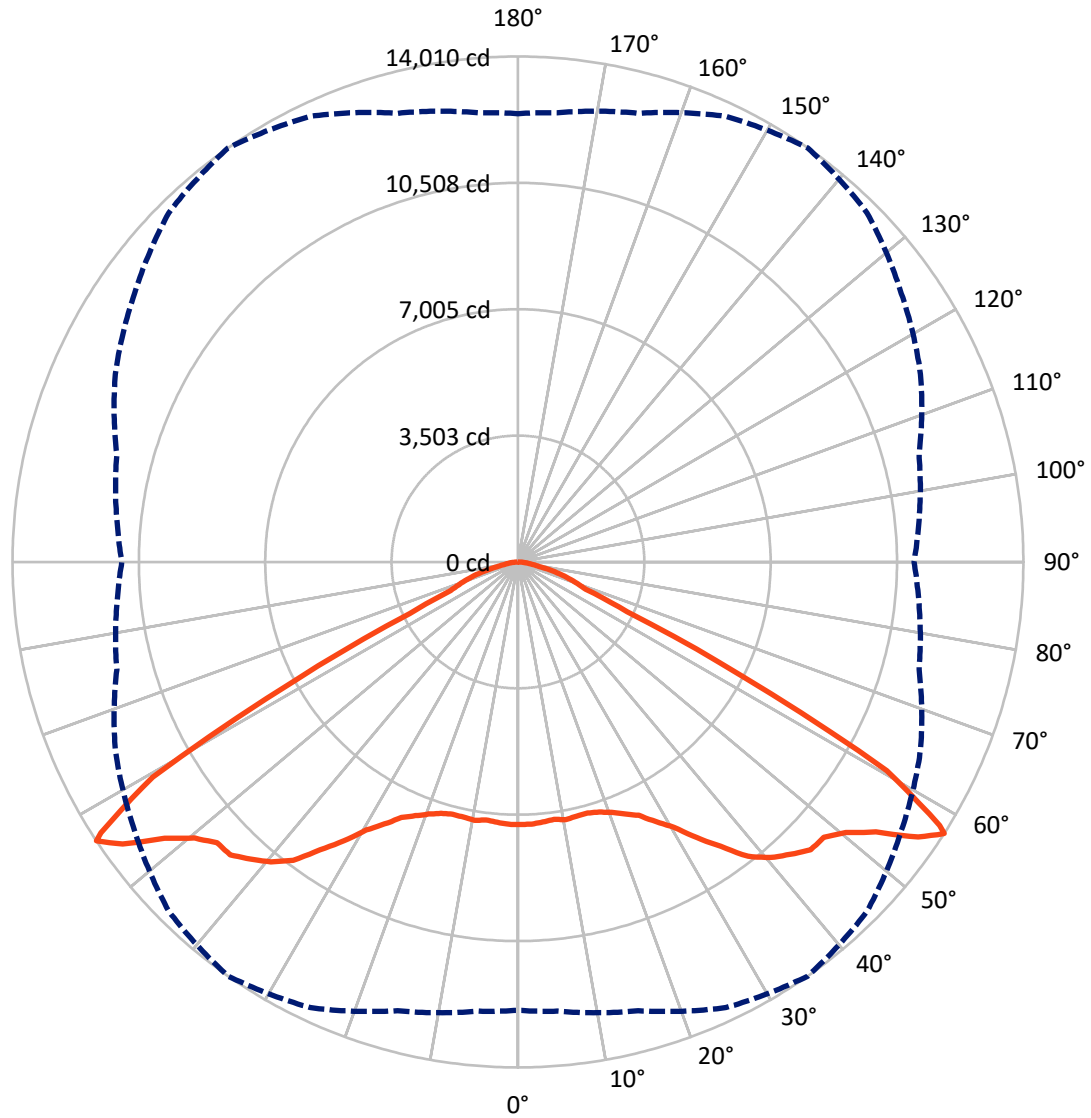
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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    | 18418.5  | 0.0    | 18418.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 18418.5  | 0.0    | 18418.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 36837.0  | 0.0    | 36837.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 689.7   | 1.9       |
| 10°-20°   | 2042.7  | 5.5       |
| 20°-30°   | 3567.5  | 9.7       |
| 30°-40°   | 5845.5  | 15.9      |
| 40°-50°   | 8570.9  | 23.3      |
| 50°-60°   | 10795.8 | 29.3      |
| 60°-70°   | 4060.2  | 11.0      |
| 70°-80°   | 1079.6  | 2.9       |
| 80°-90°   | 185.1   | 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°    | 36837.0 | 100.0     |
| 0°-180°   | 36837.0 | 100.0     |

**Coefficient of Utilization**



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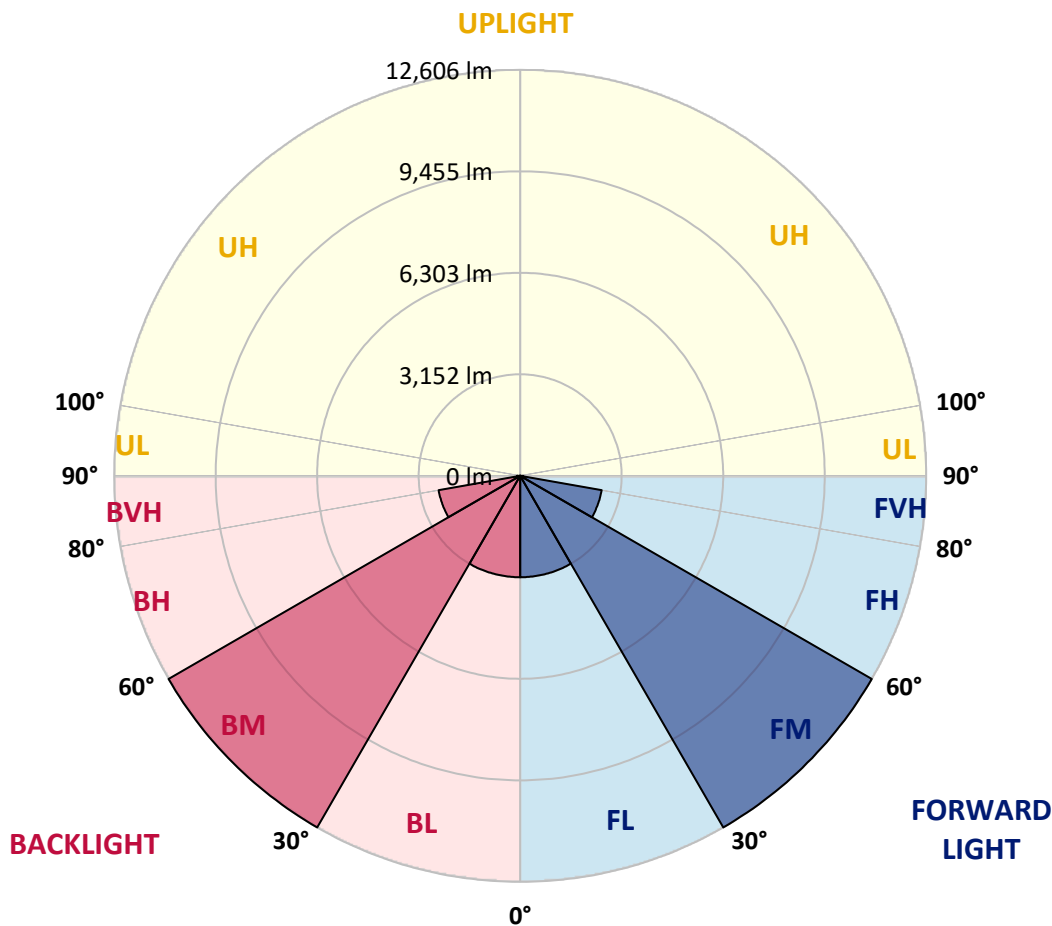
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3150.0  | 8.6       |                         |      |         |
| FM (30°-60°)   | 12606.1 | 34.2      |                         |      |         |
| FH (60°-80°)   | 2569.9  | 7.0       |                         |      | G2/5000 |
| FVH (80°-90°)  | 92.6    | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 3150.0  | 8.6       | B4/5000                 |      |         |
| BM (30°-60°)   | 12606.1 | 34.2      | B5                      |      |         |
| BH (60°-80°)   | 2569.9  | 7.0       | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 92.6    | 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°    | 7275.0  | 7275.0  | 7275.0  | 7275.0  | 7275.0  | 7275.0  | 7275.0  | 7275.0  | 7275.0  | 7275.0  | 7275.0  |
| 2.5°  | 7238.7  | 7311.3  | 7279.6  | 7261.4  | 7275.0  | 7252.3  | 7216.0  | 7256.9  | 7247.8  | 7211.5  | 7197.9  |
| 5°    | 7220.6  | 7275.0  | 7238.7  | 7275.0  | 7238.7  | 7302.3  | 7284.1  | 7216.0  | 7297.7  | 7220.6  | 7247.8  |
| 7.5°  | 7207.0  | 7225.1  | 7234.2  | 7216.0  | 7202.4  | 7279.6  | 7238.7  | 7207.0  | 7161.6  | 7148.0  | 7170.7  |
| 10°   | 7175.2  | 7220.6  | 7152.5  | 7243.3  | 7261.4  | 7207.0  | 7207.0  | 7148.0  | 7111.7  | 7089.0  | 7166.1  |
| 12.5° | 7256.9  | 7179.7  | 7170.7  | 7216.0  | 7229.7  | 7252.3  | 7188.8  | 7157.0  | 7089.0  | 7098.0  | 7084.4  |
| 15°   | 7161.6  | 7193.3  | 7197.9  | 7207.0  | 7220.6  | 7275.0  | 7216.0  | 7148.0  | 7120.7  | 7025.4  | 7034.5  |
| 17.5° | 7197.9  | 7166.1  | 7197.9  | 7302.3  | 7284.1  | 7325.0  | 7261.4  | 7157.0  | 7093.5  | 7039.0  | 7111.7  |
| 20°   | 7261.4  | 7247.8  | 7261.4  | 7388.5  | 7411.2  | 7447.5  | 7393.0  | 7297.7  | 7175.2  | 7111.7  | 7148.0  |
| 22.5° | 7329.5  | 7320.4  | 7329.5  | 7452.0  | 7583.6  | 7629.0  | 7574.6  | 7352.2  | 7288.7  | 7170.7  | 7129.8  |
| 25°   | 7452.0  | 7461.1  | 7556.4  | 7692.6  | 7778.8  | 7865.0  | 7765.2  | 7606.3  | 7402.1  | 7329.5  | 7243.3  |
| 27.5° | 7724.3  | 7747.0  | 7801.5  | 8001.2  | 8150.9  | 8228.1  | 8087.4  | 7869.6  | 7742.5  | 7592.7  | 7570.0  |
| 30°   | 8060.2  | 8060.2  | 8155.5  | 8327.9  | 8532.2  | 8650.2  | 8477.7  | 8219.0  | 8064.7  | 7983.0  | 7933.1  |
| 32.5° | 8504.9  | 8455.0  | 8491.3  | 8795.4  | 9113.1  | 9212.9  | 8981.5  | 8663.8  | 8418.7  | 8309.8  | 8273.5  |
| 35°   | 8886.2  | 8917.9  | 8999.6  | 9326.4  | 9680.4  | 9911.8  | 9548.8  | 9135.8  | 8886.2  | 8786.3  | 8768.2  |
| 37.5° | 9380.8  | 9435.3  | 9476.2  | 9925.5  | 10352.1 | 10438.3 | 10088.8 | 9757.5  | 9453.5  | 9371.8  | 9326.4  |
| 40°   | 10079.8 | 10043.5 | 10057.1 | 10388.4 | 10774.1 | 10828.6 | 10483.7 | 10247.7 | 9998.1  | 9948.1  | 9948.1  |
| 42.5° | 10656.1 | 10615.3 | 10660.7 | 10783.2 | 11078.2 | 11037.4 | 10846.7 | 10674.3 | 10569.9 | 10515.4 | 10569.9 |
| 45°   | 11005.6 | 10996.5 | 11078.2 | 11169.0 | 11377.7 | 11241.6 | 11091.8 | 11119.1 | 11019.2 | 10928.4 | 10923.9 |
| 47.5° | 11386.8 | 11327.8 | 11427.7 | 11563.8 | 11405.0 | 11341.4 | 11332.4 | 11391.4 | 11359.6 | 11200.7 | 11150.8 |
| 50°   | 11572.9 | 11550.2 | 11709.0 | 11867.9 | 11781.7 | 11636.4 | 11668.2 | 11763.5 | 11355.0 | 11141.7 | 11019.2 |
| 52.5° | 12072.1 | 12076.7 | 12380.7 | 12467.0 | 12430.6 | 12217.3 | 12285.4 | 12026.7 | 11545.7 | 11246.1 | 11259.7 |
| 55°   | 12857.3 | 12825.5 | 13165.9 | 13420.0 | 13460.9 | 13188.6 | 12861.8 | 12498.7 | 11895.1 | 11591.0 | 11500.3 |
| 57°   | 12426.1 | 12498.7 | 12875.4 | 13628.8 | 14010.0 | 13687.8 | 12975.3 | 12312.6 | 11509.4 | 11141.7 | 10978.4 |
| 57.5° | 11849.7 | 11967.7 | 12621.3 | 13379.2 | 13778.5 | 13751.3 | 12834.6 | 11967.7 | 11250.7 | 10678.8 | 10692.4 |
| 60°   | 8681.9  | 8704.6  | 9294.6  | 10497.3 | 11745.3 | 11772.6 | 10656.1 | 9507.9  | 8709.2  | 8087.4  | 8173.6  |
| 62.5° | 4579.2  | 4683.6  | 4919.6  | 5886.3  | 6966.4  | 7229.7  | 6553.4  | 5963.4  | 5273.6  | 4801.6  | 4847.0  |
| 65°   | 2423.5  | 2409.9  | 2523.3  | 2795.6  | 3326.6  | 3462.8  | 3372.0  | 2904.6  | 2664.0  | 2586.9  | 2591.4  |
| 67.5° | 1969.7  | 1992.4  | 1978.7  | 1992.4  | 2028.7  | 2087.7  | 2074.0  | 2092.2  | 2105.8  | 2128.5  | 2124.0  |
| 70°   | 1670.1  | 1670.1  | 1679.2  | 1683.7  | 1683.7  | 1711.0  | 1742.7  | 1801.7  | 1806.3  | 1829.0  | 1838.0  |
| 72.5° | 1316.1  | 1307.1  | 1320.7  | 1352.4  | 1357.0  | 1379.7  | 1425.1  | 1461.4  | 1475.0  | 1475.0  | 1447.7  |
| 75°   | 894.1   | 903.1   | 921.3   | 948.5   | 975.8   | 1016.6  | 1052.9  | 1075.6  | 1084.7  | 1071.1  | 1057.4  |
| 77.5° | 503.8   | 512.8   | 526.5   | 567.3   | 599.1   | 635.4   | 676.2   | 698.9   | 721.6   | 726.1   | 698.9   |
| 80°   | 299.5   | 299.5   | 322.2   | 354.0   | 390.3   | 426.6   | 462.9   | 490.1   | 499.2   | 499.2   | 485.6   |
| 82.5° | 181.5   | 186.1   | 204.2   | 236.0   | 267.8   | 290.5   | 322.2   | 344.9   | 363.1   | 358.5   | 349.5   |
| 85°   | 95.3    | 95.3    | 113.5   | 140.7   | 163.4   | 186.1   | 186.1   | 172.5   | 163.4   | 140.7   | 131.6   |
| 87.5° | 31.8    | 27.2    | 36.3    | 36.3    | 31.8    | 36.3    | 36.3    | 40.8    | 40.8    | 40.8    | 40.8    |
| 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)