

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: P455223

Luminaire Tested: **GALN-SA6B-827-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455223  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-827-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24761 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

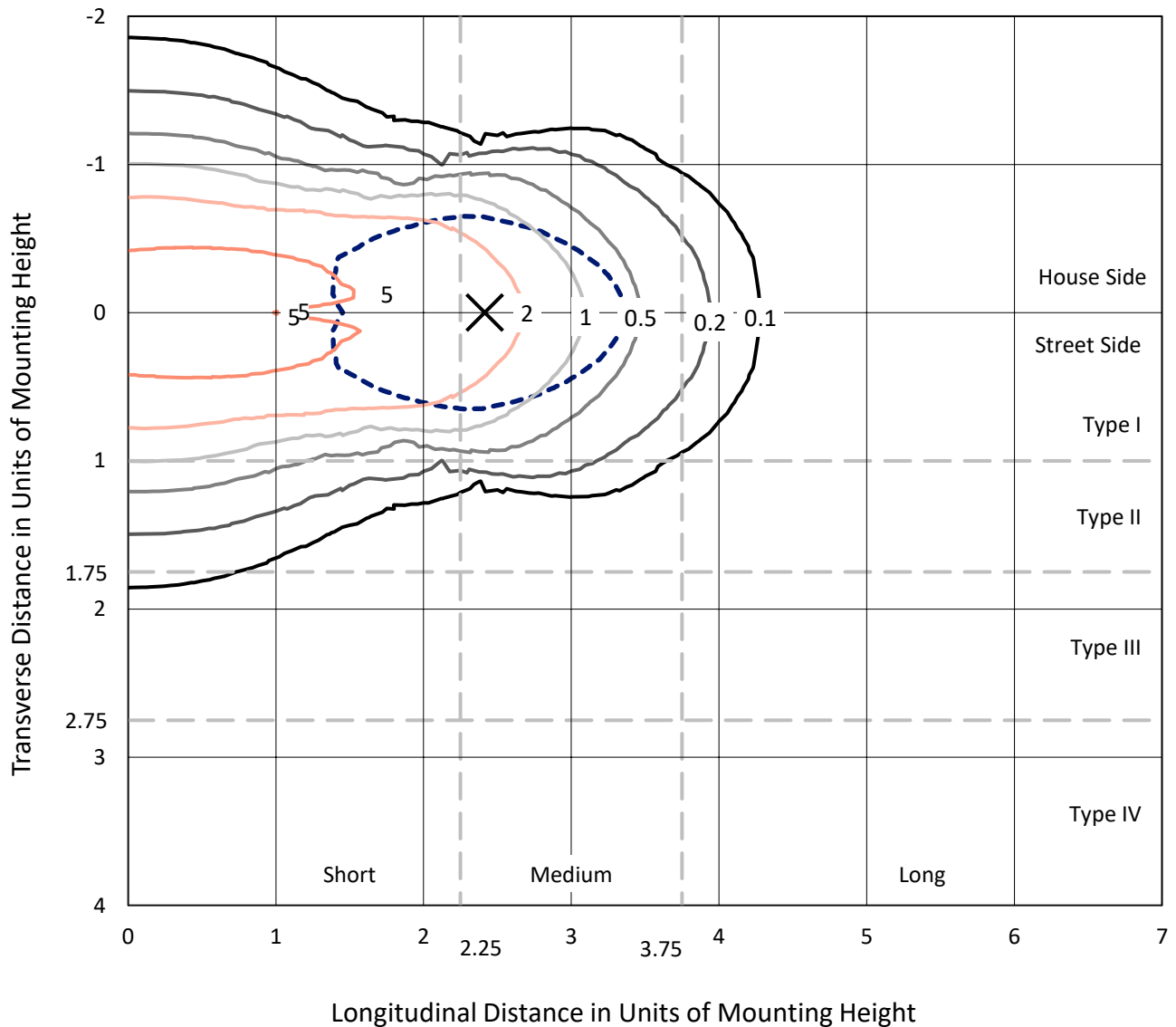
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

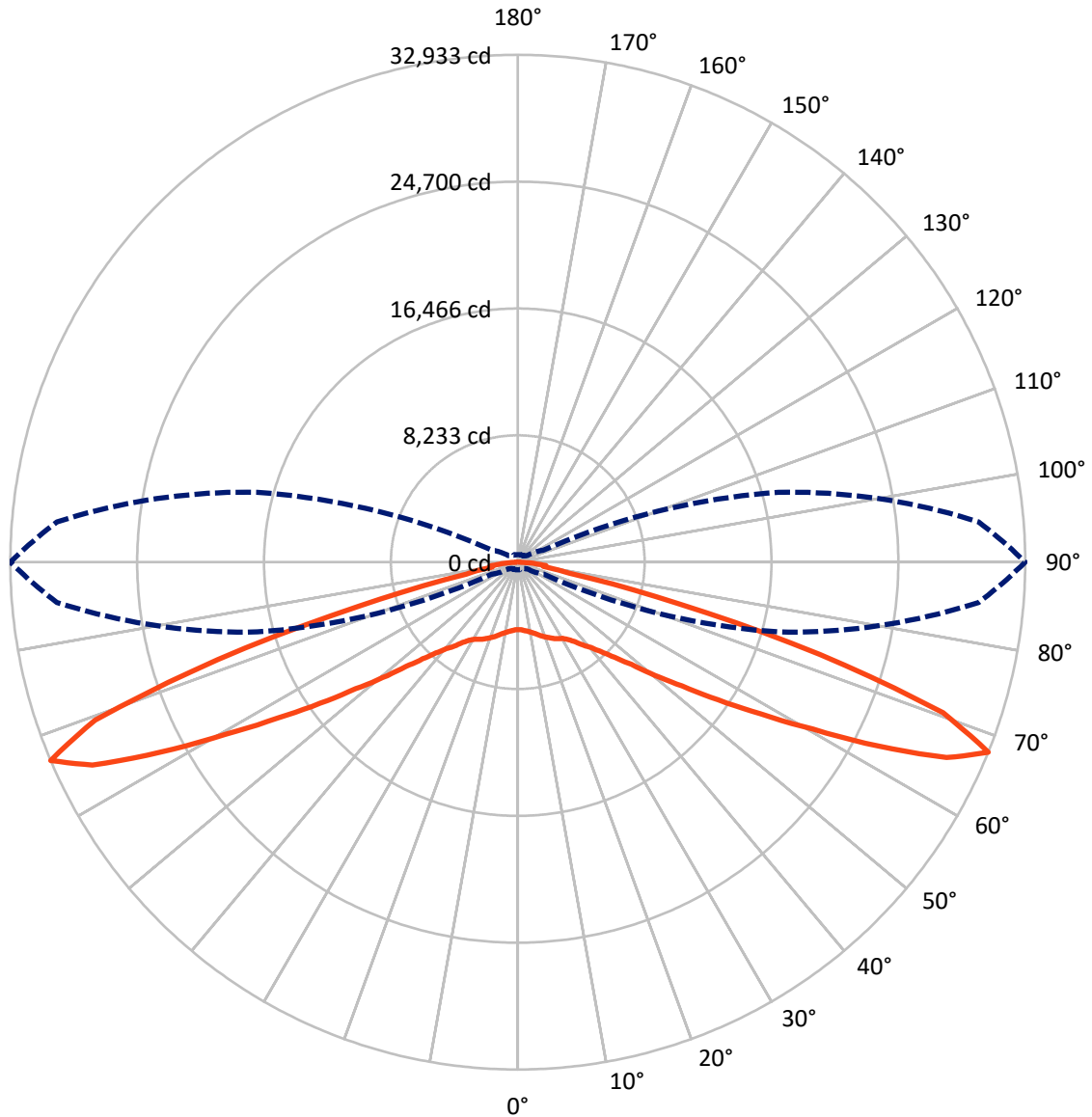
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12380.5  | 0.0    | 12380.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 12380.5  | 0.0    | 12380.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 24761.0  | 0.0    | 24761.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 437.0   | 1.8       |
| 10°-20°   | 1398.3  | 5.6       |
| 20°-30°   | 2340.3  | 9.5       |
| 30°-40°   | 3170.5  | 12.8      |
| 40°-50°   | 4016.0  | 16.2      |
| 50°-60°   | 5017.0  | 20.3      |
| 60°-70°   | 5897.3  | 23.8      |
| 70°-80°   | 2256.0  | 9.1       |
| 80°-90°   | 228.6   | 0.9       |
| 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°    | 24761.0 | 100.0     |
| 0°-180°   | 24761.0 | 100.0     |

**Coefficient of Utilization**



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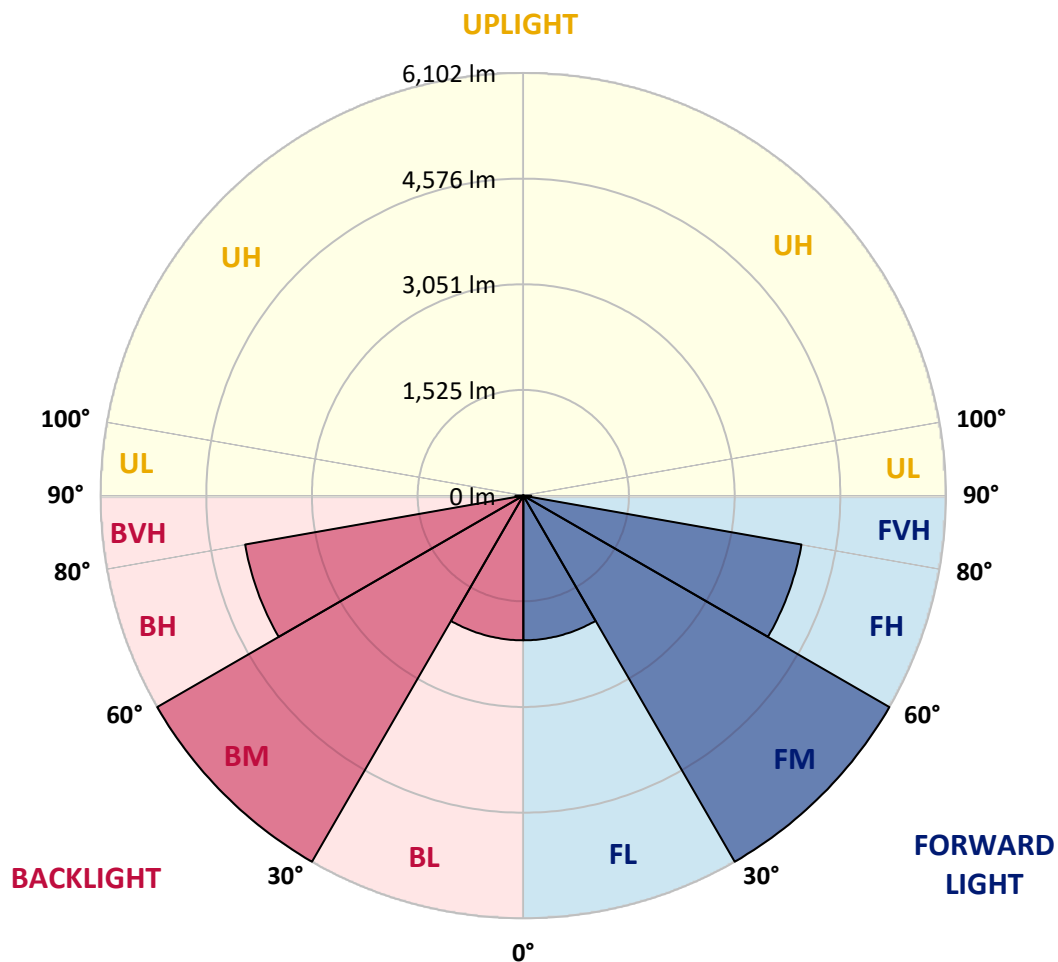
CATALOG NUMBER: GALN-SA6B-827-U-T1

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 2087.8 | 8.4       |                         |      |         |
| FM (30°-60°)   | 6101.8 | 24.6      |                         |      |         |
| FH (60°-80°)   | 4076.6 | 16.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 114.3  | 0.5       |                         |      | G2/225  |
| BL (0°-30°)    | 2087.8 | 8.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 6101.8 | 24.6      | B4/8500                 |      |         |
| BH (60°-80°)   | 4076.6 | 16.5      | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 114.3  | 0.5       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G4**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°     | 85°     | 90°     |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 4383.5 | 4383.5 | 4383.5 | 4383.5 | 4383.5 | 4383.5 | 4383.5 | 4383.5 | 4383.5  | 4383.5  | 4383.5  |
| 2.5°  | 4439.7 | 4436.9 | 4438.3 | 4436.9 | 4441.1 | 4438.3 | 4421.9 | 4408.1 | 4397.2  | 4398.6  | 4394.4  |
| 5°    | 4534.3 | 4535.7 | 4537.0 | 4530.2 | 4539.8 | 4534.3 | 4508.2 | 4486.3 | 4464.4  | 4456.1  | 4453.4  |
| 7.5°  | 4612.4 | 4619.3 | 4623.4 | 4630.3 | 4646.7 | 4646.7 | 4633.0 | 4601.5 | 4553.5  | 4526.1  | 4524.7  |
| 10°   | 4690.6 | 4696.1 | 4708.4 | 4730.4 | 4757.8 | 4783.8 | 4778.4 | 4735.8 | 4674.1  | 4627.5  | 4616.6  |
| 12.5° | 4718.0 | 4724.9 | 4766.0 | 4829.1 | 4890.8 | 4941.5 | 4941.5 | 4907.2 | 4827.7  | 4756.4  | 4735.8  |
| 15°   | 4622.0 | 4634.4 | 4708.4 | 4842.8 | 5004.6 | 5115.6 | 5140.3 | 5092.3 | 5007.3  | 4897.6  | 4873.0  |
| 17.5° | 4431.5 | 4461.6 | 4569.9 | 4768.8 | 5037.5 | 5267.8 | 5339.1 | 5315.8 | 5206.1  | 5066.3  | 5037.5  |
| 20°   | 4227.2 | 4260.1 | 4375.2 | 4638.5 | 5010.1 | 5357.0 | 5564.0 | 5569.5 | 5433.7  | 5230.8  | 5188.3  |
| 22.5° | 4002.3 | 4027.0 | 4175.1 | 4483.6 | 4927.8 | 5377.5 | 5757.3 | 5851.9 | 5668.2  | 5395.4  | 5335.0  |
| 25°   | 3750.0 | 3777.4 | 3932.4 | 4265.6 | 4772.9 | 5354.2 | 5934.2 | 6142.6 | 5913.6  | 5570.9  | 5494.1  |
| 27.5° | 3508.7 | 3519.7 | 3685.6 | 4024.2 | 4568.6 | 5293.9 | 6064.5 | 6410.0 | 6185.1  | 5716.2  | 5618.8  |
| 30°   | 3277.0 | 3303.0 | 3449.7 | 3784.3 | 4334.1 | 5176.0 | 6176.9 | 6714.4 | 6477.2  | 5868.4  | 5743.6  |
| 32.5° | 3031.5 | 3063.1 | 3222.1 | 3560.8 | 4099.6 | 4999.1 | 6245.4 | 7047.6 | 6884.4  | 6115.2  | 5982.2  |
| 35°   | 2795.7 | 2816.3 | 2976.7 | 3305.8 | 3870.7 | 4793.4 | 6257.8 | 7423.2 | 7409.5  | 6489.5  | 6312.6  |
| 37.5° | 2554.4 | 2584.6 | 2746.4 | 3061.7 | 3628.0 | 4575.4 | 6196.1 | 7822.2 | 8043.0  | 7009.2  | 6818.6  |
| 40°   | 2322.7 | 2348.7 | 2507.8 | 2825.9 | 3352.4 | 4309.4 | 6049.4 | 8187.0 | 8782.0  | 7543.9  | 7273.8  |
| 42.5° | 2070.4 | 2077.2 | 2251.4 | 2575.0 | 3082.3 | 4000.9 | 5838.2 | 8511.9 | 9606.1  | 8261.0  | 7925.1  |
| 45°   | 1783.8 | 1801.7 | 1963.4 | 2281.5 | 2772.4 | 3655.4 | 5551.7 | 8780.6 | 10650.9 | 9255.1  | 8797.1  |
| 47.5° | 1497.3 | 1512.3 | 1660.4 | 1974.4 | 2433.7 | 3259.2 | 5110.2 | 9016.5 | 11723.1 | 10517.9 | 9917.3  |
| 50°   | 1217.6 | 1225.8 | 1346.4 | 1624.8 | 2052.6 | 2842.3 | 4563.1 | 9091.9 | 12935.1 | 12305.8 | 11539.3 |
| 52.5° | 962.5  | 974.9  | 1066.7 | 1284.7 | 1645.3 | 2350.1 | 3972.1 | 8905.4 | 14350.1 | 14425.5 | 13345.1 |
| 55°   | 780.2  | 784.3  | 852.8  | 1013.3 | 1286.1 | 1834.6 | 3259.2 | 8385.8 | 15872.1 | 17141.7 | 15763.8 |
| 57.5° | 671.8  | 674.6  | 713.0  | 802.1  | 989.9  | 1383.5 | 2528.3 | 7402.7 | 17239.1 | 20324.1 | 18552.6 |
| 60°   | 610.1  | 611.5  | 633.5  | 685.6  | 784.3  | 1061.2 | 1811.2 | 6015.1 | 18588.3 | 23865.7 | 22018.8 |
| 62.5° | 571.8  | 571.8  | 586.8  | 615.6  | 663.6  | 814.4  | 1312.2 | 4339.6 | 19512.4 | 27459.4 | 26291.2 |
| 65°   | 534.7  | 534.7  | 545.7  | 566.3  | 592.3  | 666.4  | 969.4  | 2830.0 | 19489.1 | 30076.9 | 30588.3 |
| 67.5° | 492.2  | 492.2  | 500.5  | 521.0  | 536.1  | 573.1  | 748.6  | 1853.8 | 17506.4 | 30019.3 | 32932.9 |
| 70°   | 441.5  | 441.5  | 452.5  | 470.3  | 482.6  | 505.9  | 591.0  | 1268.3 | 12861.1 | 25631.7 | 29288.5 |
| 72.5° | 390.8  | 392.1  | 399.0  | 416.8  | 426.4  | 440.1  | 490.9  | 888.5  | 7889.4  | 17453.0 | 20479.0 |
| 75°   | 334.6  | 337.3  | 344.2  | 362.0  | 370.2  | 375.7  | 414.1  | 633.5  | 3991.3  | 9410.0  | 10713.9 |
| 77.5° | 270.1  | 275.6  | 279.7  | 298.9  | 304.4  | 312.6  | 341.4  | 458.0  | 1752.3  | 3381.2  | 3411.3  |
| 80°   | 197.4  | 204.3  | 216.6  | 234.5  | 238.6  | 244.1  | 260.5  | 325.0  | 793.9   | 1543.9  | 1676.9  |
| 82.5° | 145.3  | 154.9  | 139.9  | 163.2  | 163.2  | 156.3  | 183.7  | 218.0  | 364.7   | 1528.8  | 1829.1  |
| 85°   | 79.5   | 80.9   | 72.7   | 83.6   | 89.1   | 87.8   | 97.3   | 106.9  | 176.9   | 1020.1  | 1051.6  |
| 87.5° | 19.2   | 20.6   | 21.9   | 26.1   | 31.5   | 31.5   | 34.3   | 30.2   | 57.6    | 330.4   | 189.2   |
| 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)