

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: P652106

Luminaire Tested: **GALN-SA9A-840-U-RW-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652106  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-840-U-RW-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22532.1 lumens  
Efficiency: N/A  
Efficacy: 82.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

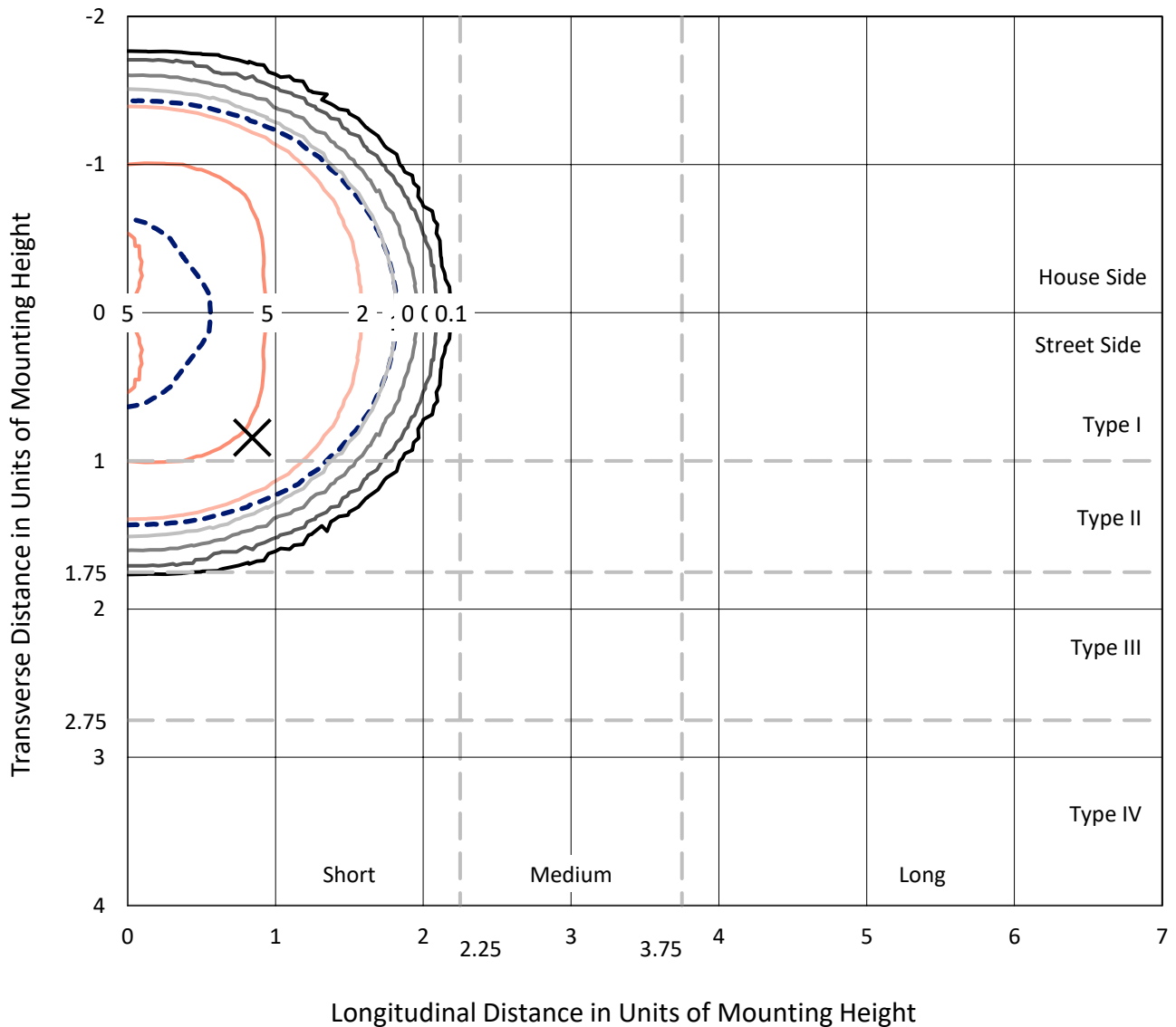
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P652106  
 CATALOG NUMBER: GALN-SA9A-840-U-RW-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

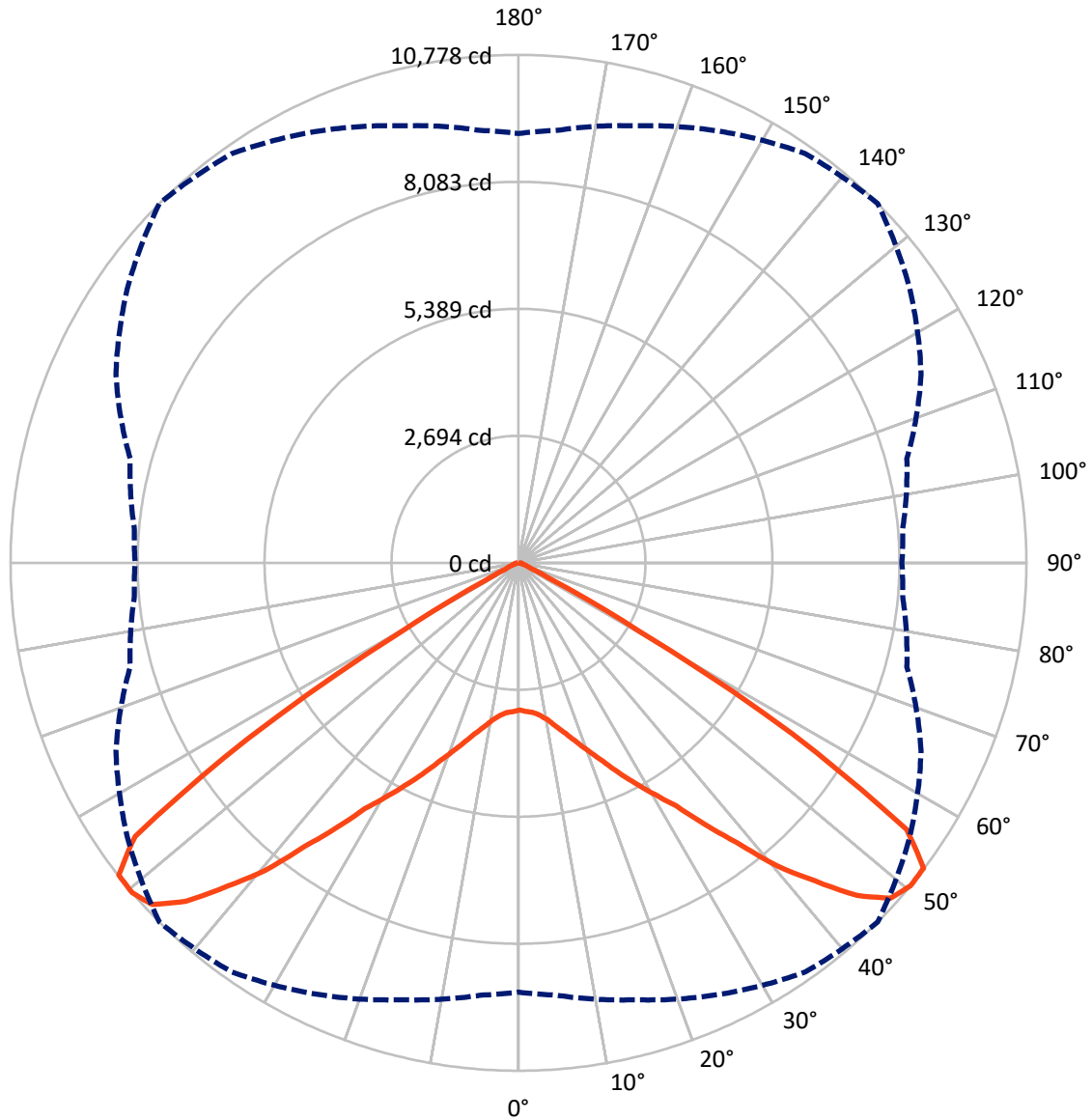
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type V - Short - N/A

REPORT NUMBER: P652106  
CATALOG NUMBER: GALN-SA9A-840-U-RW-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P652106  
 CATALOG NUMBER: GALN-SA9A-840-U-RW-GRSBK

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11266.0  | 0.0    | 11266.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 11266.0  | 0.0    | 11266.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 22532.1  | 0.0    | 22532.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 310.8   | 1.4       |
| 10°-20°   | 1071.1  | 4.8       |
| 20°-30°   | 2187.6  | 9.7       |
| 30°-40°   | 4171.8  | 18.5      |
| 40°-50°   | 7030.1  | 31.2      |
| 50°-60°   | 6704.4  | 29.8      |
| 60°-70°   | 935.9   | 4.2       |
| 70°-80°   | 89.5    | 0.4       |
| 80°-90°   | 30.9    | 0.1       |
| 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°    | 22532.1 | 100.0     |
| 0°-180°   | 22532.1 | 100.0     |

**Coefficient of Utilization**



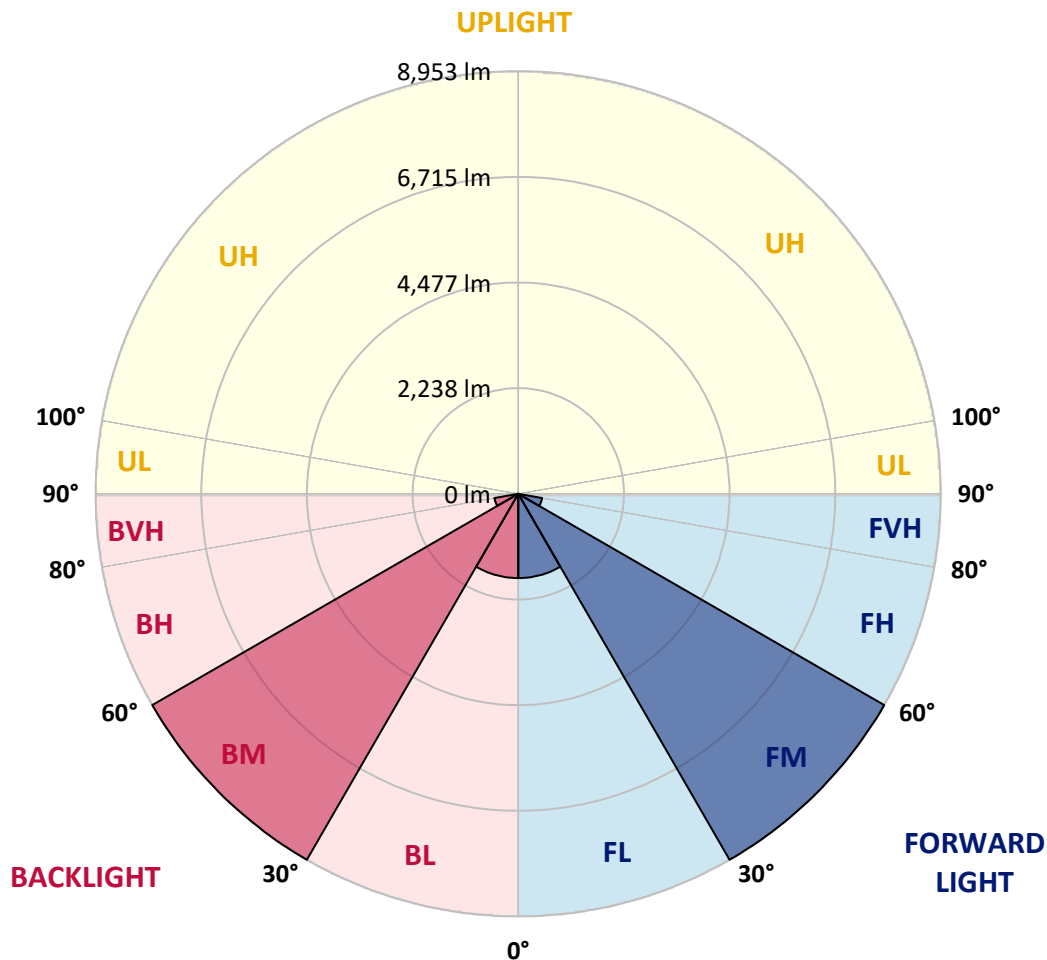
REPORT NUMBER: P652106  
 CATALOG NUMBER: GALN-SA9A-840-U-RW-GRSBK

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 1784.7 | 7.9       |                         |      |        |
| FM (30°-60°)   | 8953.1 | 39.7      |                         |      |        |
| FH (60°-80°)   | 512.7  | 2.3       |                         |      | G0/660 |
| FVH (80°-90°)  | 15.5   | 0.1       |                         |      | G1/100 |
| BL (0°-30°)    | 1784.7 | 7.9       | B3/2500                 |      |        |
| BM (30°-60°)   | 8953.1 | 39.7      | B5                      |      |        |
| BH (60°-80°)   | 512.7  | 2.3       | B2/1000                 |      | G0/660 |
| BVH (80°-90°)  | 15.5   | 0.1       |                         |      | G1/100 |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B5-U0-G1**

Type V Short





REPORT NUMBER: P652106

CATALOG NUMBER: GALN-SA9A-840-U-RW-GRSBK

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 45°     | 55°     | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 3123.8 | 3123.8 | 3123.8 | 3123.8  | 3123.8  | 3123.8  | 3123.8  | 3123.8 | 3123.8 | 3123.8 | 3123.8 |
| 2.5°  | 3112.5 | 3112.5 | 3108.7 | 3138.9  | 3123.8  | 3158.0  | 3154.2  | 3165.5 | 3176.9 | 3173.1 | 3203.5 |
| 5°    | 3085.9 | 3082.1 | 3082.1 | 3116.2  | 3150.4  | 3188.2  | 3222.4  | 3245.2 | 3283.0 | 3283.0 | 3320.9 |
| 7.5°  | 3112.5 | 3093.5 | 3120.0 | 3135.2  | 3199.7  | 3264.1  | 3320.9  | 3366.4 | 3453.7 | 3484.0 | 3472.6 |
| 10°   | 3120.0 | 3142.8 | 3161.7 | 3207.2  | 3286.9  | 3385.4  | 3434.7  | 3548.4 | 3647.0 | 3715.2 | 3730.4 |
| 12.5° | 3169.3 | 3203.5 | 3256.5 | 3366.4  | 3438.5  | 3567.4  | 3635.6  | 3745.6 | 3882.1 | 3957.8 | 4010.9 |
| 15°   | 3264.1 | 3275.4 | 3343.7 | 3484.0  | 3639.4  | 3756.9  | 3863.0  | 3942.7 | 4075.4 | 4162.5 | 4166.4 |
| 17.5° | 3385.4 | 3434.7 | 3529.4 | 3662.1  | 3825.2  | 3999.5  | 4083.0  | 4170.2 | 4219.5 | 4337.0 | 4363.5 |
| 20°   | 3628.1 | 3635.6 | 3726.6 | 3901.0  | 4105.7  | 4265.0  | 4325.6  | 4371.1 | 4352.1 | 4473.4 | 4496.2 |
| 22.5° | 3855.5 | 3863.0 | 3976.8 | 4211.9  | 4431.7  | 4568.2  | 4594.7  | 4568.2 | 4511.4 | 4598.5 | 4606.2 |
| 25°   | 4086.8 | 4155.0 | 4238.4 | 4473.4  | 4746.4  | 4928.3  | 4932.1  | 4860.1 | 4742.6 | 4757.8 | 4795.6 |
| 27.5° | 4446.9 | 4496.2 | 4583.4 | 4799.5  | 5099.0  | 5303.7  | 5269.5  | 5182.3 | 5030.7 | 5042.1 | 5030.7 |
| 30°   | 4867.7 | 4913.2 | 4985.2 | 5262.0  | 5481.9  | 5705.5  | 5754.8  | 5671.4 | 5444.0 | 5394.7 | 5451.5 |
| 32.5° | 5375.7 | 5440.2 | 5572.8 | 5826.9  | 6012.6  | 6149.1  | 6183.2  | 6152.8 | 5940.6 | 5921.6 | 5959.5 |
| 35°   | 5993.6 | 6080.9 | 6202.1 | 6425.8  | 6577.5  | 6823.9  | 6823.9  | 6721.5 | 6528.2 | 6551.0 | 6547.1 |
| 37.5° | 6645.7 | 6774.6 | 6964.2 | 7191.6  | 7396.3  | 7529.1  | 7487.3  | 7400.1 | 7206.8 | 7157.5 | 7206.8 |
| 40°   | 7464.5 | 7529.1 | 7767.9 | 8063.6  | 8313.8  | 8465.4  | 8287.2  | 8097.7 | 7635.2 | 7707.2 | 7839.9 |
| 42.5° | 8211.4 | 8313.8 | 8495.7 | 8821.8  | 9106.1  | 9231.2  | 9018.9  | 8643.6 | 8086.3 | 8029.4 | 8128.0 |
| 45°   | 8848.3 | 8958.2 | 9197.1 | 9663.3  | 9962.9  | 10072.8 | 9602.7  | 8996.2 | 8359.3 | 8215.2 | 8256.9 |
| 47.5° | 9272.9 | 9329.8 | 9663.3 | 10107.0 | 10379.9 | 10630.1 | 9955.3  | 9238.8 | 8488.1 | 8215.2 | 8200.0 |
| 50°   | 9109.9 | 9208.4 | 9598.9 | 10103.2 | 10599.8 | 10777.9 | 10133.5 | 9424.6 | 8529.8 | 8181.1 | 8135.6 |
| 52.5° | 8090.1 | 8260.7 | 8696.7 | 9375.3  | 10125.9 | 10762.8 | 10379.9 | 9363.9 | 8514.7 | 8215.2 | 8283.4 |
| 55°   | 5629.7 | 5633.5 | 6164.3 | 7165.1  | 8491.9  | 9993.2  | 10019.8 | 9432.2 | 8613.3 | 8427.5 | 8431.3 |
| 57.5° | 2263.2 | 2377.0 | 2782.6 | 3787.3  | 5011.8  | 6861.8  | 8158.4  | 8749.8 | 8624.6 | 8579.1 | 8696.7 |
| 60°   | 572.5  | 576.3  | 701.3  | 1069.1  | 1762.8  | 2941.8  | 4272.5  | 5781.4 | 6657.1 | 6956.6 | 6998.3 |
| 62.5° | 291.9  | 295.7  | 326.1  | 379.1   | 481.5   | 788.5   | 1402.7  | 2225.4 | 3165.5 | 3643.2 | 3768.3 |
| 65°   | 238.8  | 238.8  | 257.8  | 284.3   | 288.1   | 303.3   | 363.9   | 519.4  | 754.4  | 856.8  | 868.2  |
| 67.5° | 182.0  | 182.0  | 197.1  | 212.3   | 219.9   | 216.1   | 208.5   | 216.1  | 261.6  | 250.2  | 242.6  |
| 70°   | 113.7  | 117.5  | 125.1  | 140.3   | 147.8   | 151.6   | 155.4   | 163.0  | 185.8  | 193.3  | 185.8  |
| 72.5° | 68.2   | 68.2   | 72.0   | 83.4    | 94.8    | 102.3   | 113.7   | 121.3  | 132.7  | 151.6  | 147.8  |
| 75°   | 30.4   | 30.4   | 37.9   | 49.3    | 60.6    | 72.0    | 83.4    | 94.8   | 102.3  | 113.7  | 117.5  |
| 77.5° | 7.6    | 11.4   | 18.9   | 34.1    | 45.5    | 60.6    | 75.9    | 87.2   | 94.8   | 94.8   | 91.0   |
| 80°   | 3.8    | 3.8    | 15.1   | 26.6    | 49.3    | 64.4    | 83.4    | 91.0   | 102.3  | 94.8   | 83.4   |
| 82.5° | 3.8    | 3.8    | 15.1   | 26.6    | 45.5    | 64.4    | 87.2    | 98.6   | 106.1  | 94.8   | 79.6   |
| 85°   | 0.0    | 3.8    | 11.4   | 22.7    | 37.9    | 45.5    | 37.9    | 26.6   | 15.1   | 15.1   | 11.4   |
| 87.5° | 0.0    | 0.0    | 3.8    | 3.8     | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)