

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: P455745

Luminaire Tested: **GALN-SA7A-722-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455745  
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-SA7A-722-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23374 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

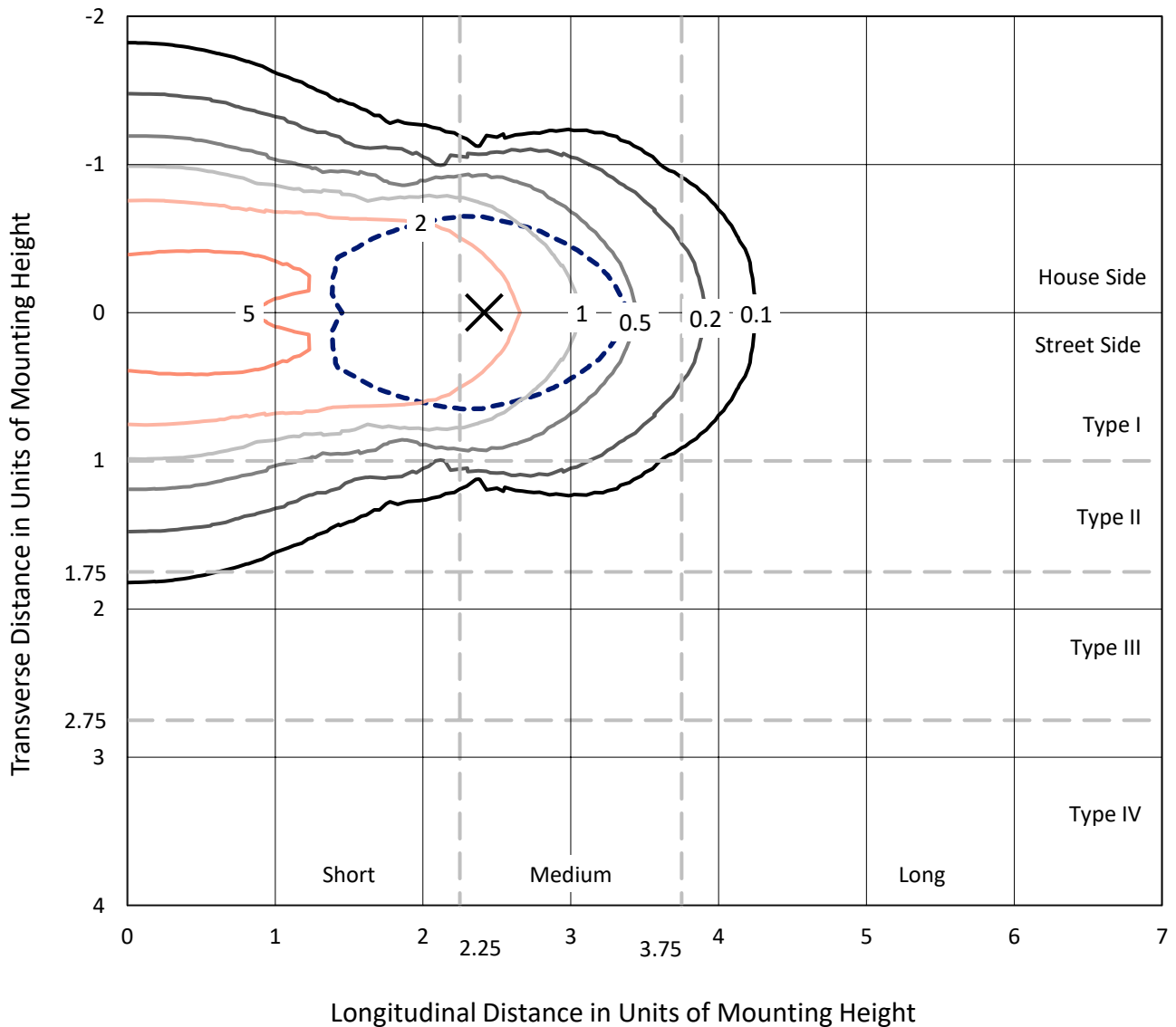
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

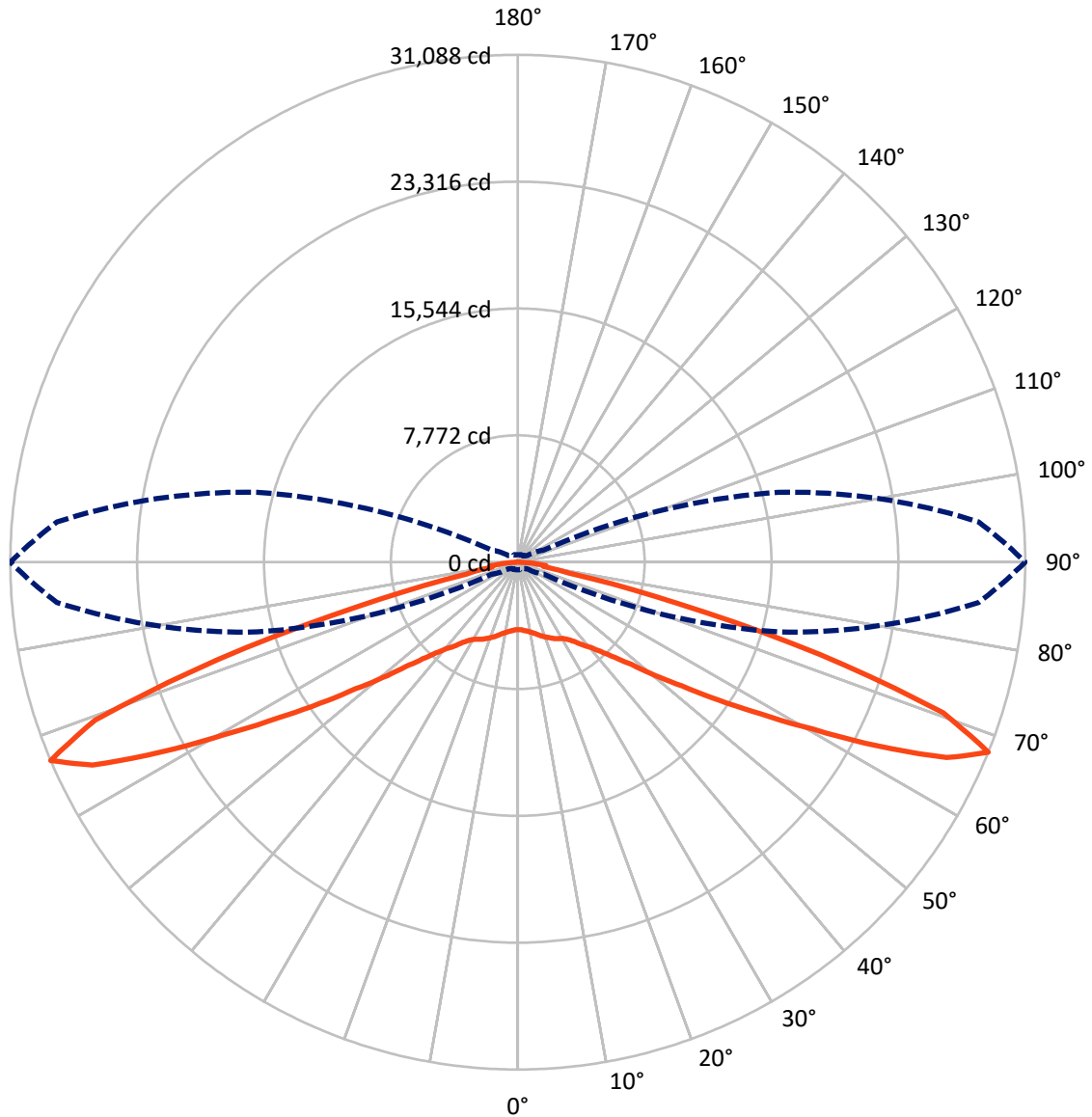
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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    | 11687.0  | 0.0    | 11687.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 11687.0  | 0.0    | 11687.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 23374.0  | 0.0    | 23374.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 412.6   | 1.8       |
| 10°-20°   | 1319.9  | 5.6       |
| 20°-30°   | 2209.2  | 9.5       |
| 30°-40°   | 2992.9  | 12.8      |
| 40°-50°   | 3791.1  | 16.2      |
| 50°-60°   | 4736.0  | 20.3      |
| 60°-70°   | 5566.9  | 23.8      |
| 70°-80°   | 2129.6  | 9.1       |
| 80°-90°   | 215.8   | 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°    | 23374.0 | 100.0     |
| 0°-180°   | 23374.0 | 100.0     |

**Coefficient of Utilization**



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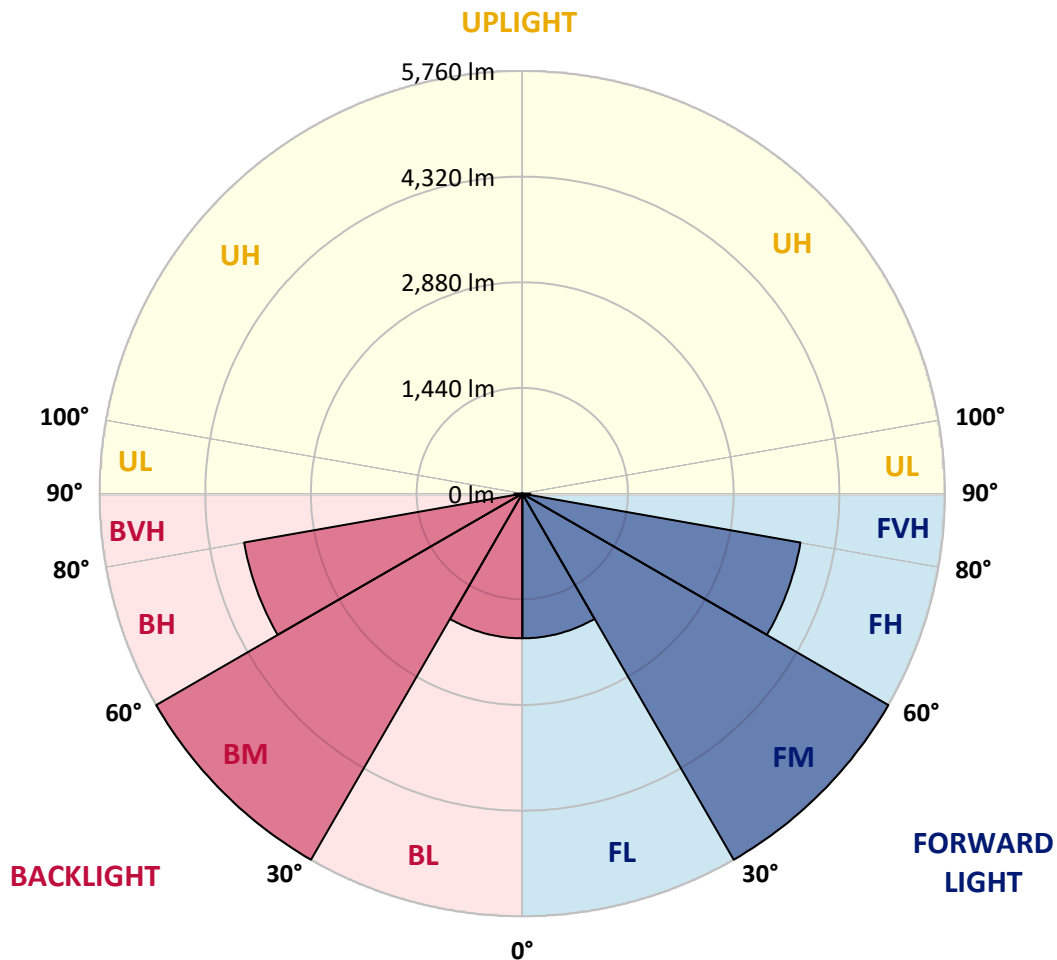
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1970.9 | 8.4       |                         |      |         |
| FM (30°-60°)   | 5760.0 | 24.6      |                         |      |         |
| FH (60°-80°)   | 3848.3 | 16.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 107.9  | 0.5       |                         |      | G2/225  |
| BL (0°-30°)    | 1970.9 | 8.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 5760.0 | 24.6      | B4/8500                 |      |         |
| BH (60°-80°)   | 3848.3 | 16.5      | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 107.9  | 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°    | 4137.9 | 4137.9 | 4137.9 | 4137.9 | 4137.9 | 4137.9 | 4137.9 | 4137.9 | 4137.9  | 4137.9  | 4137.9  |
| 2.5°  | 4191.0 | 4188.4 | 4189.7 | 4188.4 | 4192.3 | 4189.7 | 4174.2 | 4161.2 | 4150.9  | 4152.2  | 4148.3  |
| 5°    | 4280.3 | 4281.6 | 4282.9 | 4276.4 | 4285.5 | 4280.3 | 4255.7 | 4235.0 | 4214.3  | 4206.5  | 4203.9  |
| 7.5°  | 4354.1 | 4360.5 | 4364.4 | 4370.9 | 4386.4 | 4386.4 | 4373.5 | 4343.7 | 4298.4  | 4272.5  | 4271.2  |
| 10°   | 4427.9 | 4433.0 | 4444.7 | 4465.4 | 4491.3 | 4515.9 | 4510.7 | 4470.6 | 4412.3  | 4368.3  | 4358.0  |
| 12.5° | 4453.7 | 4460.2 | 4499.0 | 4558.6 | 4616.8 | 4664.7 | 4664.7 | 4632.4 | 4557.3  | 4490.0  | 4470.6  |
| 15°   | 4363.1 | 4374.8 | 4444.7 | 4571.5 | 4724.3 | 4829.1 | 4852.4 | 4807.1 | 4726.8  | 4623.3  | 4600.0  |
| 17.5° | 4183.2 | 4211.7 | 4314.0 | 4501.6 | 4755.3 | 4972.8 | 5040.1 | 5018.1 | 4914.5  | 4782.5  | 4755.3  |
| 20°   | 3990.4 | 4021.4 | 4130.2 | 4378.7 | 4729.4 | 5056.9 | 5252.3 | 5257.5 | 5129.4  | 4937.8  | 4897.7  |
| 22.5° | 3778.1 | 3801.4 | 3941.2 | 4232.4 | 4651.8 | 5076.3 | 5434.8 | 5524.1 | 5350.7  | 5093.1  | 5036.2  |
| 25°   | 3540.0 | 3565.8 | 3712.1 | 4026.6 | 4505.5 | 5054.3 | 5601.8 | 5798.5 | 5582.4  | 5258.8  | 5186.3  |
| 27.5° | 3312.2 | 3322.5 | 3479.1 | 3798.8 | 4312.7 | 4997.4 | 5724.8 | 6050.9 | 5838.7  | 5396.0  | 5304.1  |
| 30°   | 3093.4 | 3118.0 | 3256.5 | 3572.3 | 4091.3 | 4886.0 | 5830.9 | 6338.3 | 6114.3  | 5539.7  | 5421.9  |
| 32.5° | 2861.7 | 2891.5 | 3041.6 | 3361.3 | 3870.0 | 4719.1 | 5895.6 | 6652.8 | 6498.8  | 5772.6  | 5647.1  |
| 35°   | 2639.1 | 2658.5 | 2810.0 | 3120.6 | 3653.9 | 4524.9 | 5907.3 | 7007.4 | 6994.5  | 6126.0  | 5959.0  |
| 37.5° | 2411.3 | 2439.8 | 2592.5 | 2890.2 | 3424.8 | 4319.1 | 5849.0 | 7384.1 | 7592.5  | 6616.5  | 6436.6  |
| 40°   | 2192.6 | 2217.2 | 2367.3 | 2667.6 | 3164.6 | 4068.0 | 5710.5 | 7728.4 | 8290.1  | 7121.3  | 6866.3  |
| 42.5° | 1954.4 | 1960.9 | 2125.3 | 2430.7 | 2909.6 | 3776.8 | 5511.2 | 8035.1 | 9068.0  | 7798.2  | 7481.1  |
| 45°   | 1683.9 | 1700.7 | 1853.5 | 2153.7 | 2617.1 | 3450.6 | 5240.7 | 8288.8 | 10054.2 | 8736.6  | 8304.3  |
| 47.5° | 1413.4 | 1427.6 | 1567.4 | 1863.8 | 2297.4 | 3076.6 | 4823.9 | 8511.4 | 11066.4 | 9928.7  | 9361.8  |
| 50°   | 1149.4 | 1157.1 | 1271.0 | 1533.8 | 1937.6 | 2683.1 | 4307.5 | 8582.6 | 12210.6 | 11616.5 | 10893.0 |
| 52.5° | 908.6  | 920.3  | 1007.0 | 1212.8 | 1553.2 | 2218.5 | 3749.6 | 8406.6 | 13546.3 | 13617.5 | 12597.6 |
| 55°   | 736.5  | 740.3  | 805.1  | 956.5  | 1214.1 | 1731.8 | 3076.6 | 7916.0 | 14983.0 | 16181.5 | 14880.7 |
| 57.5° | 634.2  | 636.8  | 673.0  | 757.2  | 934.5  | 1306.0 | 2386.7 | 6988.0 | 16273.4 | 19185.6 | 17513.4 |
| 60°   | 576.0  | 577.3  | 598.0  | 647.2  | 740.3  | 1001.8 | 1709.8 | 5678.2 | 17547.0 | 22528.9 | 20785.4 |
| 62.5° | 539.7  | 539.7  | 554.0  | 581.1  | 626.4  | 768.8  | 1238.7 | 4096.5 | 18419.4 | 25921.3 | 24818.5 |
| 65°   | 504.8  | 504.8  | 515.1  | 534.6  | 559.1  | 629.0  | 915.1  | 2671.5 | 18397.4 | 28392.1 | 28874.9 |
| 67.5° | 464.7  | 464.7  | 472.4  | 491.8  | 506.1  | 541.0  | 706.7  | 1749.9 | 16525.8 | 28337.7 | 31088.2 |
| 70°   | 416.8  | 416.8  | 427.1  | 444.0  | 455.6  | 477.6  | 557.8  | 1197.2 | 12140.7 | 24195.9 | 27647.9 |
| 72.5° | 368.9  | 370.2  | 376.6  | 393.5  | 402.5  | 415.5  | 463.4  | 838.7  | 7447.5  | 16475.3 | 19331.9 |
| 75°   | 315.8  | 318.4  | 324.9  | 341.7  | 349.5  | 354.6  | 390.9  | 598.0  | 3767.8  | 8882.9  | 10113.8 |
| 77.5° | 255.0  | 260.2  | 264.0  | 282.2  | 287.3  | 295.1  | 322.3  | 432.3  | 1654.1  | 3191.8  | 3220.3  |
| 80°   | 186.4  | 192.9  | 204.5  | 221.3  | 225.2  | 230.4  | 245.9  | 306.8  | 749.4   | 1457.4  | 1582.9  |
| 82.5° | 137.2  | 146.3  | 132.0  | 154.0  | 154.0  | 147.6  | 173.4  | 205.8  | 344.3   | 1443.2  | 1726.6  |
| 85°   | 75.1   | 76.4   | 68.6   | 79.0   | 84.1   | 82.8   | 91.9   | 101.0  | 167.0   | 963.0   | 992.7   |
| 87.5° | 18.1   | 19.4   | 20.7   | 24.6   | 29.8   | 29.8   | 32.4   | 28.5   | 54.4    | 311.9   | 178.6   |
| 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)