

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: STREETWORKS

Report Number: P453686

Luminaire Tested: **GLAN-SA4D-727-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453686  
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: STREETWORKS  
Catalog Number: GLAN-SA4D-727-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25548 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

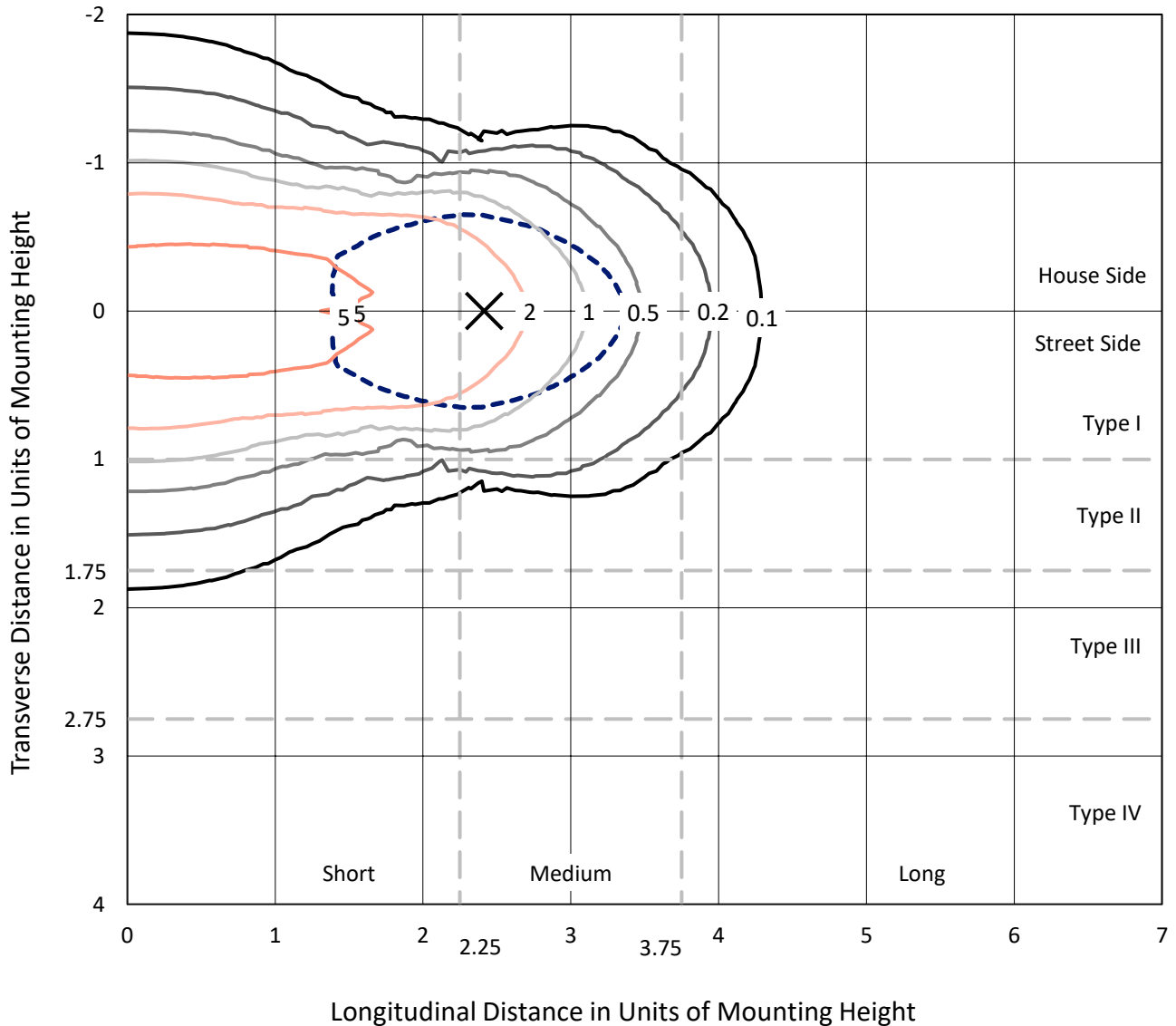
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

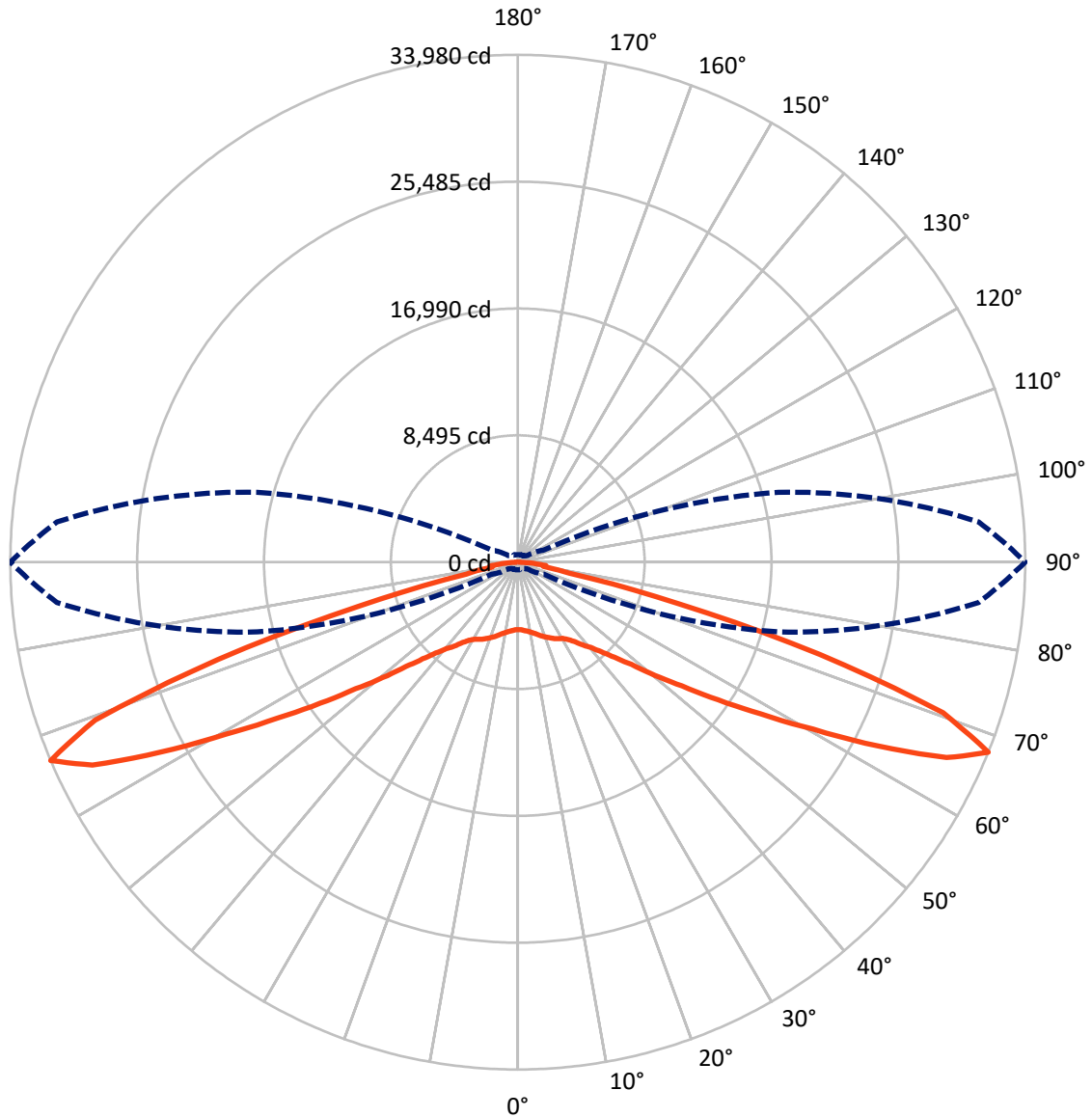
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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    | 12774.0  | 0.0    | 12774.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 12774.0  | 0.0    | 12774.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 25548.0  | 0.0    | 25548.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 450.9   | 1.8       |
| 10°-20°   | 1442.7  | 5.6       |
| 20°-30°   | 2414.7  | 9.5       |
| 30°-40°   | 3271.3  | 12.8      |
| 40°-50°   | 4143.7  | 16.2      |
| 50°-60°   | 5176.5  | 20.3      |
| 60°-70°   | 6084.7  | 23.8      |
| 70°-80°   | 2327.7  | 9.1       |
| 80°-90°   | 235.8   | 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°    | 25548.0 | 100.0     |
| 0°-180°   | 25548.0 | 100.0     |

**Coefficient of Utilization**



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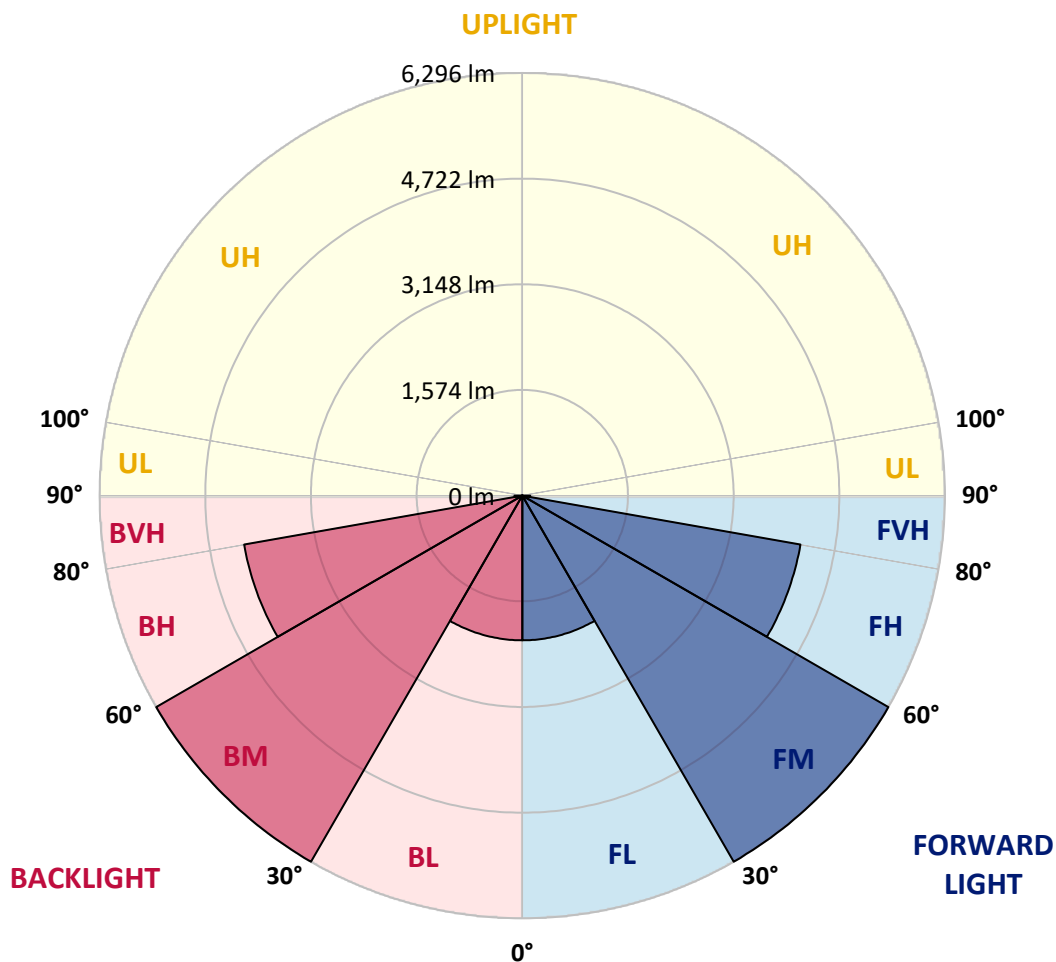
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 2154.2 | 8.4       |                         |      |         |
| FM (30°-60°)   | 6295.7 | 24.6      |                         |      |         |
| FH (60°-80°)   | 4206.2 | 16.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 117.9  | 0.5       |                         |      | G2/225  |
| BL (0°-30°)    | 2154.2 | 8.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 6295.7 | 24.6      | B4/8500                 |      |         |
| BH (60°-80°)   | 4206.2 | 16.5      | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 117.9  | 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°    | 4522.8 | 4522.8 | 4522.8 | 4522.8 | 4522.8 | 4522.8 | 4522.8 | 4522.8 | 4522.8  | 4522.8  | 4522.8  |
| 2.5°  | 4580.8 | 4578.0 | 4579.4 | 4578.0 | 4582.2 | 4579.4 | 4562.4 | 4548.3 | 4536.9  | 4538.4  | 4534.1  |
| 5°    | 4678.4 | 4679.8 | 4681.2 | 4674.2 | 4684.1 | 4678.4 | 4651.5 | 4628.9 | 4606.3  | 4597.8  | 4594.9  |
| 7.5°  | 4759.0 | 4766.1 | 4770.4 | 4777.4 | 4794.4 | 4794.4 | 4780.3 | 4747.7 | 4698.2  | 4669.9  | 4668.5  |
| 10°   | 4839.7 | 4845.3 | 4858.1 | 4880.7 | 4909.0 | 4935.9 | 4930.2 | 4886.4 | 4822.7  | 4774.6  | 4763.3  |
| 12.5° | 4868.0 | 4875.1 | 4917.5 | 4982.6 | 5046.2 | 5098.6 | 5098.6 | 5063.2 | 4981.2  | 4907.6  | 4886.4  |
| 15°   | 4768.9 | 4781.7 | 4858.1 | 4996.7 | 5163.6 | 5278.2 | 5303.7 | 5254.2 | 5166.5  | 5053.3  | 5027.8  |
| 17.5° | 4572.3 | 4603.4 | 4715.2 | 4920.3 | 5197.6 | 5435.3 | 5508.8 | 5484.8 | 5371.6  | 5227.3  | 5197.6  |
| 20°   | 4361.5 | 4395.5 | 4514.3 | 4785.9 | 5169.3 | 5527.2 | 5740.8 | 5746.5 | 5606.5  | 5397.1  | 5353.2  |
| 22.5° | 4129.5 | 4155.0 | 4307.8 | 4626.1 | 5084.4 | 5548.4 | 5940.3 | 6037.9 | 5848.4  | 5566.8  | 5504.6  |
| 25°   | 3869.2 | 3897.5 | 4057.4 | 4401.1 | 4924.6 | 5524.4 | 6122.8 | 6337.8 | 6101.6  | 5747.9  | 5668.7  |
| 27.5° | 3620.2 | 3631.5 | 3802.7 | 4152.1 | 4713.8 | 5462.2 | 6257.2 | 6613.7 | 6381.7  | 5897.9  | 5797.4  |
| 30°   | 3381.1 | 3408.0 | 3559.4 | 3904.6 | 4471.9 | 5340.5 | 6373.2 | 6927.8 | 6683.0  | 6054.9  | 5926.2  |
| 32.5° | 3127.9 | 3160.4 | 3324.5 | 3674.0 | 4229.9 | 5158.0 | 6444.0 | 7271.6 | 7103.2  | 6309.6  | 6172.3  |
| 35°   | 2884.6 | 2905.8 | 3071.3 | 3410.8 | 3993.7 | 4945.8 | 6456.7 | 7659.2 | 7645.0  | 6695.8  | 6513.3  |
| 37.5° | 2635.6 | 2666.7 | 2833.6 | 3159.0 | 3743.3 | 4720.8 | 6393.0 | 8070.9 | 8298.6  | 7231.9  | 7035.3  |
| 40°   | 2396.5 | 2423.4 | 2587.5 | 2915.7 | 3458.9 | 4446.4 | 6241.7 | 8447.2 | 9061.1  | 7783.7  | 7505.0  |
| 42.5° | 2136.2 | 2143.3 | 2322.9 | 2656.8 | 3180.2 | 4128.1 | 6023.8 | 8782.4 | 9911.4  | 8523.6  | 8177.0  |
| 45°   | 1840.5 | 1858.9 | 2025.8 | 2354.1 | 2860.5 | 3771.6 | 5728.1 | 9059.7 | 10989.4 | 9549.2  | 9076.7  |
| 47.5° | 1544.9 | 1560.4 | 1713.2 | 2037.2 | 2511.1 | 3362.7 | 5272.6 | 9303.1 | 12095.7 | 10852.2 | 10232.5 |
| 50°   | 1256.3 | 1264.7 | 1389.2 | 1676.4 | 2117.8 | 2932.7 | 4708.1 | 9380.9 | 13346.3 | 12696.9 | 11906.1 |
| 52.5° | 993.1  | 1005.9 | 1100.6 | 1325.6 | 1697.6 | 2424.8 | 4098.4 | 9188.5 | 14806.2 | 14884.0 | 13769.3 |
| 55°   | 805.0  | 809.2  | 879.9  | 1045.5 | 1327.0 | 1892.9 | 3362.7 | 8652.3 | 16376.6 | 17686.6 | 16264.8 |
| 57.5° | 693.2  | 696.0  | 735.6  | 827.6  | 1021.4 | 1427.4 | 2608.7 | 7638.0 | 17787.0 | 20970.1 | 19142.3 |
| 60°   | 629.5  | 631.0  | 653.6  | 707.3  | 809.2  | 1095.0 | 1868.8 | 6206.3 | 19179.1 | 24624.2 | 22718.6 |
| 62.5° | 589.9  | 589.9  | 605.5  | 635.2  | 684.7  | 840.3  | 1353.9 | 4477.5 | 20132.6 | 28332.2 | 27126.8 |
| 65°   | 551.7  | 551.7  | 563.1  | 584.3  | 611.1  | 687.5  | 1000.2 | 2919.9 | 20108.5 | 31032.8 | 31560.5 |
| 67.5° | 507.9  | 507.9  | 516.4  | 537.6  | 553.1  | 591.3  | 772.4  | 1912.7 | 18062.9 | 30973.4 | 33979.6 |
| 70°   | 455.5  | 455.5  | 466.9  | 485.2  | 498.0  | 522.0  | 609.7  | 1308.6 | 13269.9 | 26446.4 | 30219.4 |
| 72.5° | 403.2  | 404.6  | 411.7  | 430.1  | 440.0  | 454.1  | 506.5  | 916.7  | 8140.2  | 18007.7 | 21129.9 |
| 75°   | 345.2  | 348.0  | 355.1  | 373.5  | 382.0  | 387.6  | 427.2  | 653.6  | 4118.2  | 9709.1  | 11054.5 |
| 77.5° | 278.7  | 284.4  | 288.6  | 308.4  | 314.1  | 322.6  | 352.3  | 472.5  | 1808.0  | 3488.6  | 3519.8  |
| 80°   | 203.7  | 210.8  | 223.5  | 241.9  | 246.2  | 251.8  | 268.8  | 335.3  | 819.1   | 1593.0  | 1730.2  |
| 82.5° | 150.0  | 159.9  | 144.3  | 168.3  | 168.3  | 161.3  | 189.6  | 224.9  | 376.3   | 1577.4  | 1887.2  |
| 85°   | 82.1   | 83.5   | 75.0   | 86.3   | 92.0   | 90.5   | 100.4  | 110.3  | 182.5   | 1052.5  | 1085.1  |
| 87.5° | 19.8   | 21.2   | 22.6   | 26.9   | 32.5   | 32.5   | 35.4   | 31.1   | 59.4    | 340.9   | 195.2   |
| 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)