

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: P457311

Luminaire Tested: **GLAN-SA8C-827-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457311  
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-SA8C-827-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41660 lumens  
Efficiency: N/A  
Efficacy: 97.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

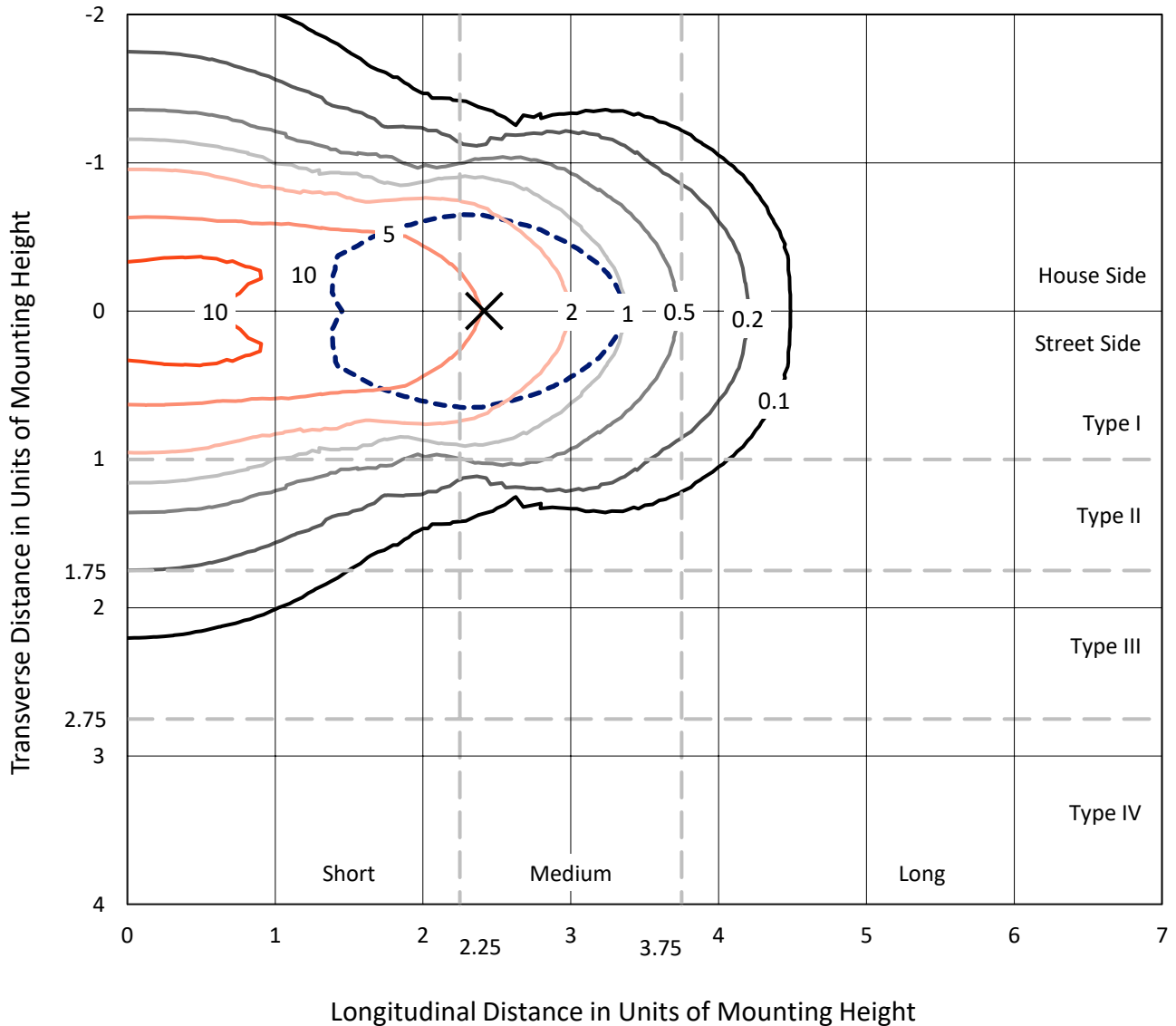
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

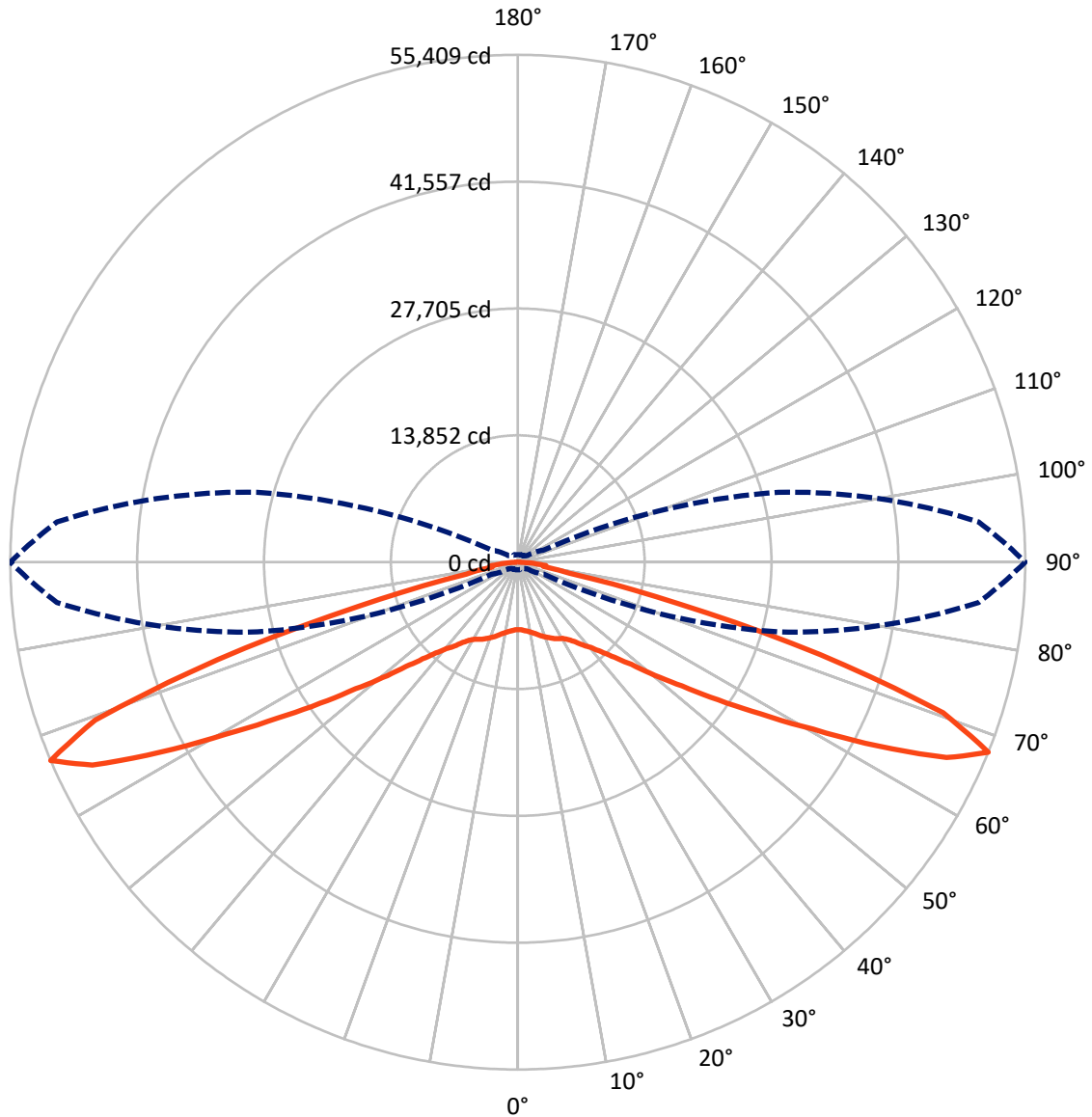
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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    | 20830.0  | 0.0    | 20830.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 20830.0  | 0.0    | 20830.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 41660.0  | 0.0    | 41660.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 735.3   | 1.8       |
| 10°-20°   | 2352.6  | 5.6       |
| 20°-30°   | 3937.6  | 9.5       |
| 30°-40°   | 5334.4  | 12.8      |
| 40°-50°   | 6756.9  | 16.2      |
| 50°-60°   | 8441.0  | 20.3      |
| 60°-70°   | 9922.1  | 23.8      |
| 70°-80°   | 3795.6  | 9.1       |
| 80°-90°   | 384.5   | 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°    | 41660.0 | 100.0     |
| 0°-180°   | 41660.0 | 100.0     |



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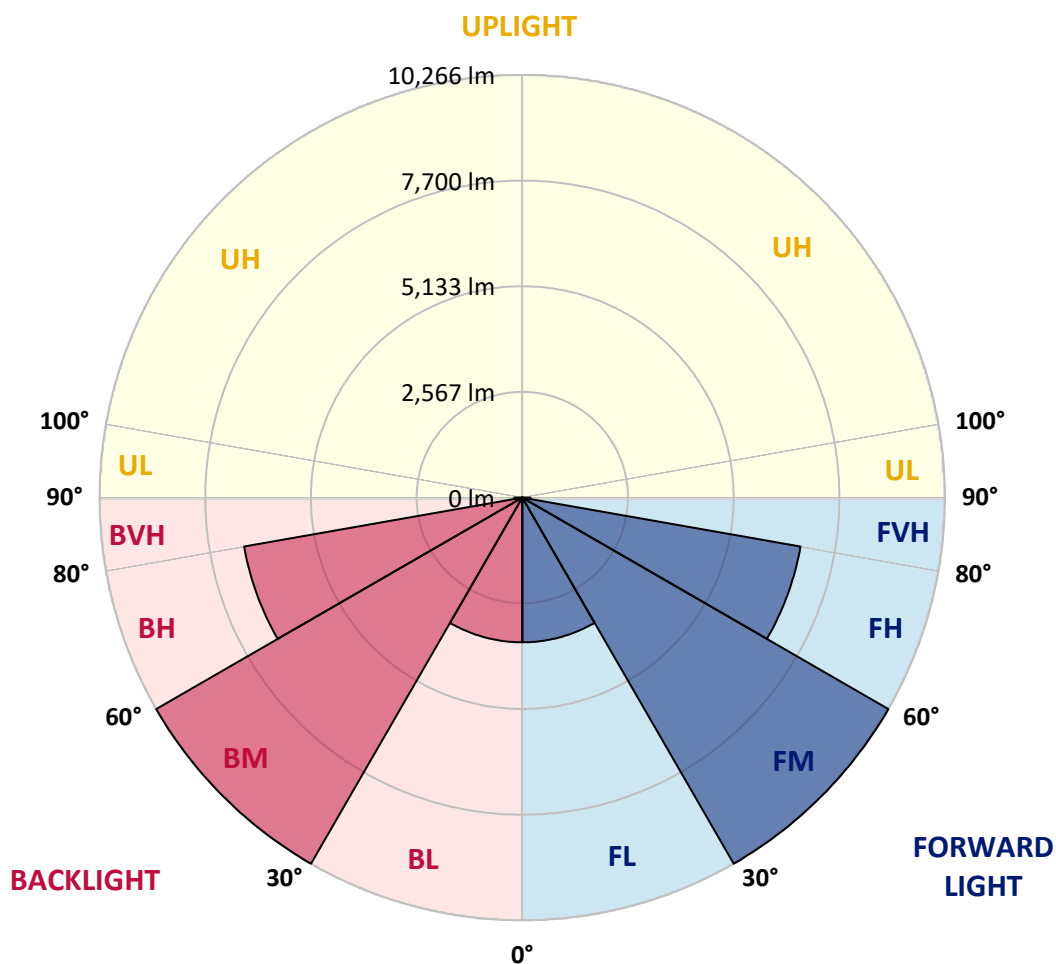
CATALOG NUMBER: GLAN-SA8C-827-U-T1

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3512.7  | 8.4       |                         |      |         |
| FM   | (30°-60°)   | 10266.2 | 24.6      |                         |      |         |
| FH   | (60°-80°)   | 6858.9  | 16.5      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 192.3   | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 3512.7  | 8.4       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 10266.2 | 24.6      | B5                      |      |         |
| BH   | (60°-80°)   | 6858.9  | 16.5      | B5                      |      | G5      |
| BVH  | (80°-90°)   | 192.3   | 0.5       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G5**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 7375.1 | 7375.1 | 7375.1 | 7375.1 | 7375.1 | 7375.1 | 7375.1  | 7375.1  | 7375.1  | 7375.1  | 7375.1  |
| 2.5°  | 7469.7 | 7465.1 | 7467.4 | 7465.1 | 7472.0 | 7467.4 | 7439.7  | 7416.6  | 7398.2  | 7400.5  | 7393.6  |
| 5°    | 7628.9 | 7631.2 | 7633.5 | 7622.0 | 7638.1 | 7628.9 | 7585.0  | 7548.1  | 7511.2  | 7497.4  | 7492.8  |
| 7.5°  | 7760.4 | 7771.9 | 7778.8 | 7790.4 | 7818.0 | 7818.0 | 7795.0  | 7741.9  | 7661.2  | 7615.0  | 7612.7  |
| 10°   | 7891.9 | 7901.1 | 7921.8 | 7958.8 | 8004.9 | 8048.7 | 8039.5  | 7968.0  | 7864.2  | 7785.7  | 7767.3  |
| 12.5° | 7938.0 | 7949.5 | 8018.7 | 8124.9 | 8228.7 | 8314.0 | 8314.0  | 8256.3  | 8122.5  | 8002.6  | 7968.0  |
| 15°   | 7776.5 | 7797.3 | 7921.8 | 8147.9 | 8420.1 | 8607.0 | 8648.5  | 8567.8  | 8424.8  | 8240.2  | 8198.7  |
| 17.5° | 7455.9 | 7506.6 | 7688.9 | 8023.4 | 8475.5 | 8863.1 | 8983.0  | 8943.8  | 8759.2  | 8523.9  | 8475.5  |
| 20°   | 7112.1 | 7167.5 | 7361.3 | 7804.2 | 8429.4 | 9013.0 | 9361.3  | 9370.6  | 9142.2  | 8800.8  | 8729.3  |
| 22.5° | 6733.8 | 6775.3 | 7024.5 | 7543.5 | 8291.0 | 9047.6 | 9686.6  | 9845.8  | 9536.7  | 9077.6  | 8976.1  |
| 25°   | 6309.3 | 6355.5 | 6616.2 | 7176.7 | 8030.3 | 9008.4 | 9984.2  | 10334.9 | 9949.6  | 9372.9  | 9243.7  |
| 27.5° | 5903.3 | 5921.8 | 6200.9 | 6770.7 | 7686.5 | 8906.9 | 10203.4 | 10784.7 | 10406.4 | 9617.4  | 9453.6  |
| 30°   | 5513.5 | 5557.3 | 5804.1 | 6367.0 | 7292.1 | 8708.5 | 10392.5 | 11296.8 | 10897.7 | 9873.5  | 9663.5  |
| 32.5° | 5100.5 | 5153.6 | 5421.2 | 5991.0 | 6897.6 | 8410.9 | 10507.9 | 11857.4 | 11582.9 | 10288.7 | 10064.9 |
| 35°   | 4703.7 | 4738.3 | 5008.3 | 5561.9 | 6512.3 | 8064.9 | 10528.6 | 12489.5 | 12466.4 | 10918.5 | 10620.9 |
| 37.5° | 4297.7 | 4348.5 | 4620.7 | 5151.3 | 6104.0 | 7698.1 | 10424.8 | 13160.8 | 13532.2 | 11792.8 | 11472.1 |
| 40°   | 3907.9 | 3951.7 | 4219.3 | 4754.5 | 5640.3 | 7250.5 | 10178.0 | 13774.4 | 14775.6 | 12692.5 | 12238.0 |
| 42.5° | 3483.4 | 3494.9 | 3787.9 | 4332.3 | 5185.9 | 6731.5 | 9822.7  | 14321.2 | 16162.0 | 13899.0 | 13333.8 |
| 45°   | 3001.3 | 3031.2 | 3303.5 | 3838.7 | 4664.5 | 6150.2 | 9340.6  | 14773.3 | 17919.9 | 15571.5 | 14801.0 |
| 47.5° | 2519.1 | 2544.5 | 2793.6 | 3321.9 | 4094.7 | 5483.5 | 8597.8  | 15170.1 | 19723.9 | 17696.1 | 16685.7 |
| 50°   | 2048.5 | 2062.4 | 2265.4 | 2733.7 | 3453.4 | 4782.2 | 7677.3  | 15297.0 | 21763.2 | 20704.3 | 19414.8 |
| 52.5° | 1619.4 | 1640.2 | 1794.8 | 2161.6 | 2768.3 | 3954.0 | 6683.1  | 14983.2 | 24143.9 | 24270.8 | 22452.9 |
| 55°   | 1312.6 | 1319.5 | 1434.9 | 1704.8 | 2163.9 | 3086.6 | 5483.5  | 14108.9 | 26704.5 | 28840.7 | 26522.3 |
| 57.5° | 1130.4 | 1135.0 | 1199.6 | 1349.5 | 1665.6 | 2327.6 | 4253.9  | 12454.9 | 29004.5 | 34195.0 | 31214.5 |
| 60°   | 1026.6 | 1028.9 | 1065.8 | 1153.4 | 1319.5 | 1785.5 | 3047.4  | 10120.3 | 31274.5 | 40153.7 | 37046.3 |
| 62.5° | 962.0  | 962.0  | 987.3  | 1035.8 | 1116.5 | 1370.3 | 2207.7  | 7301.3  | 32829.3 | 46200.0 | 44234.6 |
| 65°   | 899.7  | 899.7  | 918.1  | 952.7  | 996.6  | 1121.1 | 1631.0  | 4761.4  | 32790.1 | 50603.9 | 51464.3 |
| 67.5° | 828.2  | 828.2  | 842.0  | 876.6  | 902.0  | 964.3  | 1259.6  | 3118.9  | 29454.3 | 50507.0 | 55409.1 |
| 70°   | 742.8  | 742.8  | 761.3  | 791.3  | 812.0  | 851.2  | 994.3   | 2133.9  | 21638.6 | 43124.9 | 49277.4 |
| 72.5° | 657.5  | 659.8  | 671.3  | 701.3  | 717.4  | 740.5  | 825.9   | 1494.9  | 13273.8 | 29364.4 | 34455.7 |
| 75°   | 562.9  | 567.5  | 579.0  | 609.0  | 622.9  | 632.1  | 696.7   | 1065.8  | 6715.3  | 15832.2 | 18026.0 |
| 77.5° | 454.5  | 463.7  | 470.6  | 502.9  | 512.1  | 526.0  | 574.4   | 770.5   | 2948.2  | 5688.8  | 5739.5  |
| 80°   | 332.2  | 343.7  | 364.5  | 394.5  | 401.4  | 410.6  | 438.3   | 546.7   | 1335.7  | 2597.6  | 2821.3  |
| 82.5° | 244.5  | 260.7  | 235.3  | 274.5  | 274.5  | 263.0  | 309.1   | 366.8   | 613.6   | 2572.2  | 3077.4  |
| 85°   | 133.8  | 136.1  | 122.3  | 140.7  | 149.9  | 147.6  | 163.8   | 179.9   | 297.6   | 1716.3  | 1769.4  |
| 87.5° | 32.3   | 34.6   | 36.9   | 43.8   | 53.1   | 53.1   | 57.7    | 50.8    | 96.9    | 556.0   | 318.4   |
| 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)