

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: P316423

Luminaire Tested: **GAN-SA9D-727-U-5MQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316423  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9D-727-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 60939 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

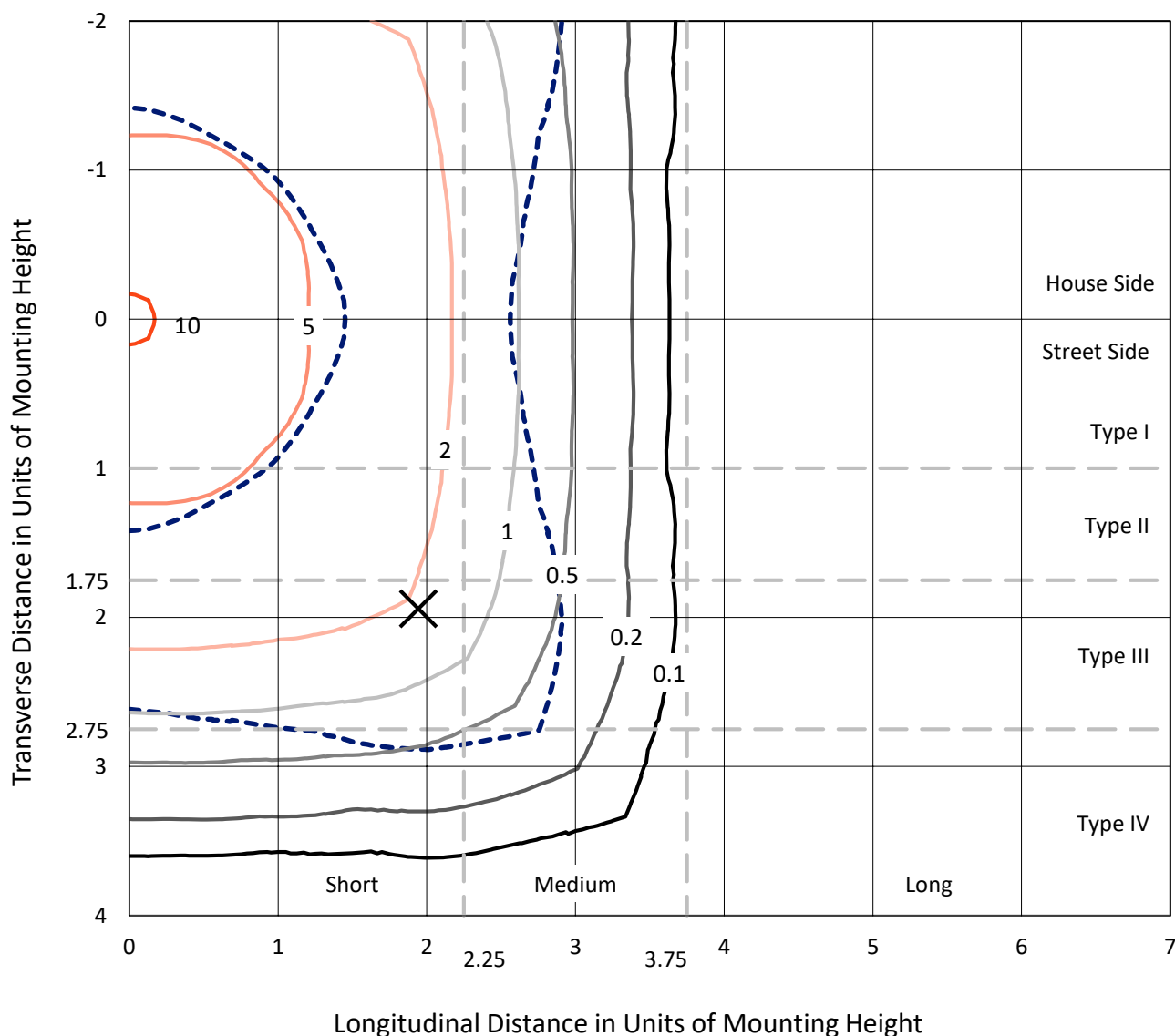
Input Watts (W): 575  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P316423  
 CATALOG NUMBER: GAN-SA9D-727-U-5MQ

## Iso-Footcandle Lines of Horizontal Illumination

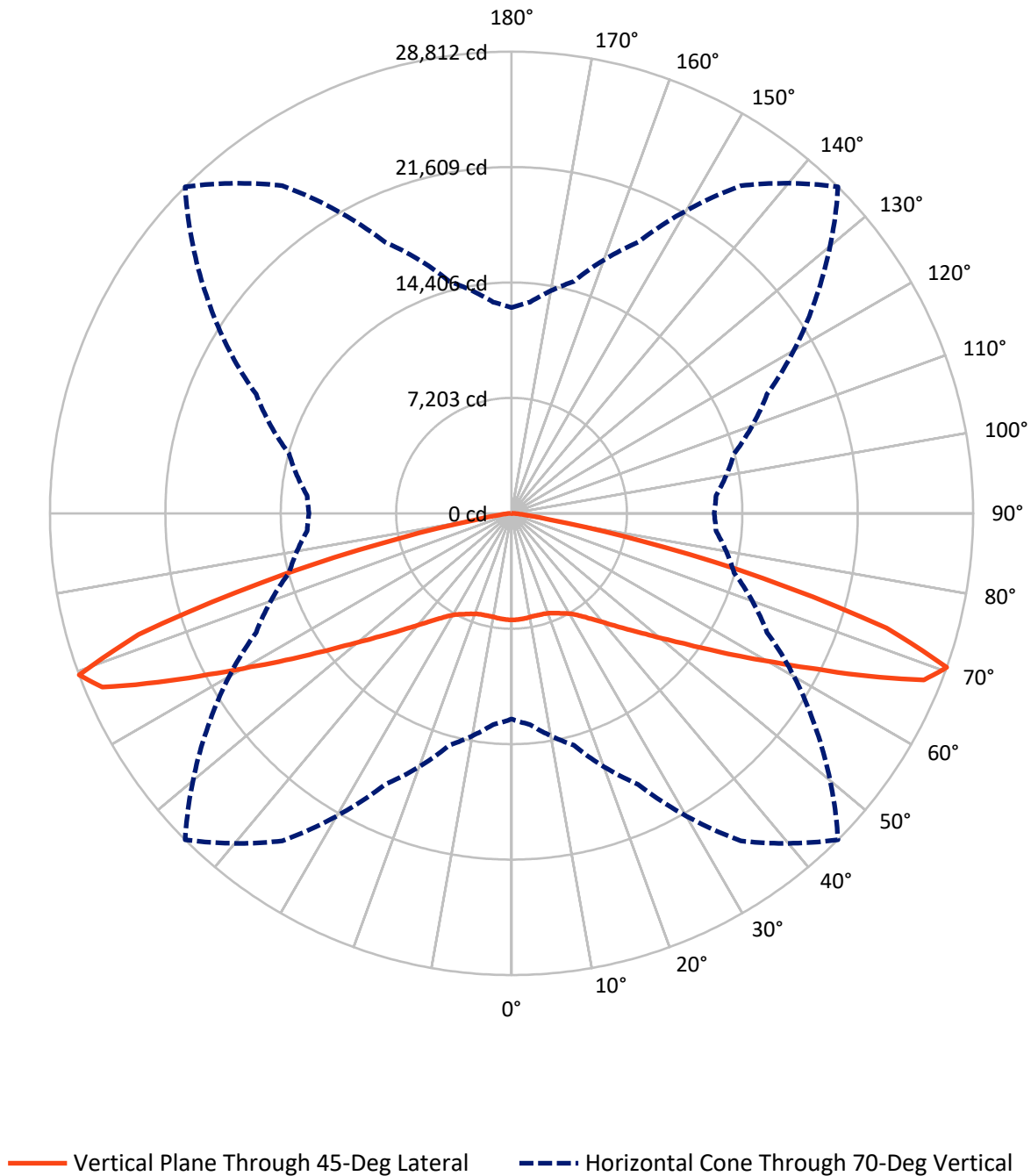
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc  
 Type V - Short - N/A

REPORT NUMBER: P316423  
CATALOG NUMBER: GAN-SA9D-727-U-5MQ

## Luminous Intensity Polar Plot



REPORT NUMBER: P316423

CATALOG NUMBER: GAN-SA9D-727-U-5MQ

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 30469.5  | 0.0    | 30469.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 30469.5  | 0.0    | 30469.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 60939.0  | 0.0    | 60939.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 630.3   | 1.0       |
| 10°-20°   | 1850.5  | 3.0       |
| 20°-30°   | 3150.2  | 5.2       |
| 30°-40°   | 4996.2  | 8.2       |
| 40°-50°   | 8130.3  | 13.3      |
| 50°-60°   | 13405.5 | 22.0      |
| 60°-70°   | 19679.6 | 32.3      |
| 70°-80°   | 8702.3  | 14.3      |
| 80°-90°   | 394.1   | 0.6       |
| 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°    | 60939.0 | 100.0     |
| 0°-180°   | 60939.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P316423

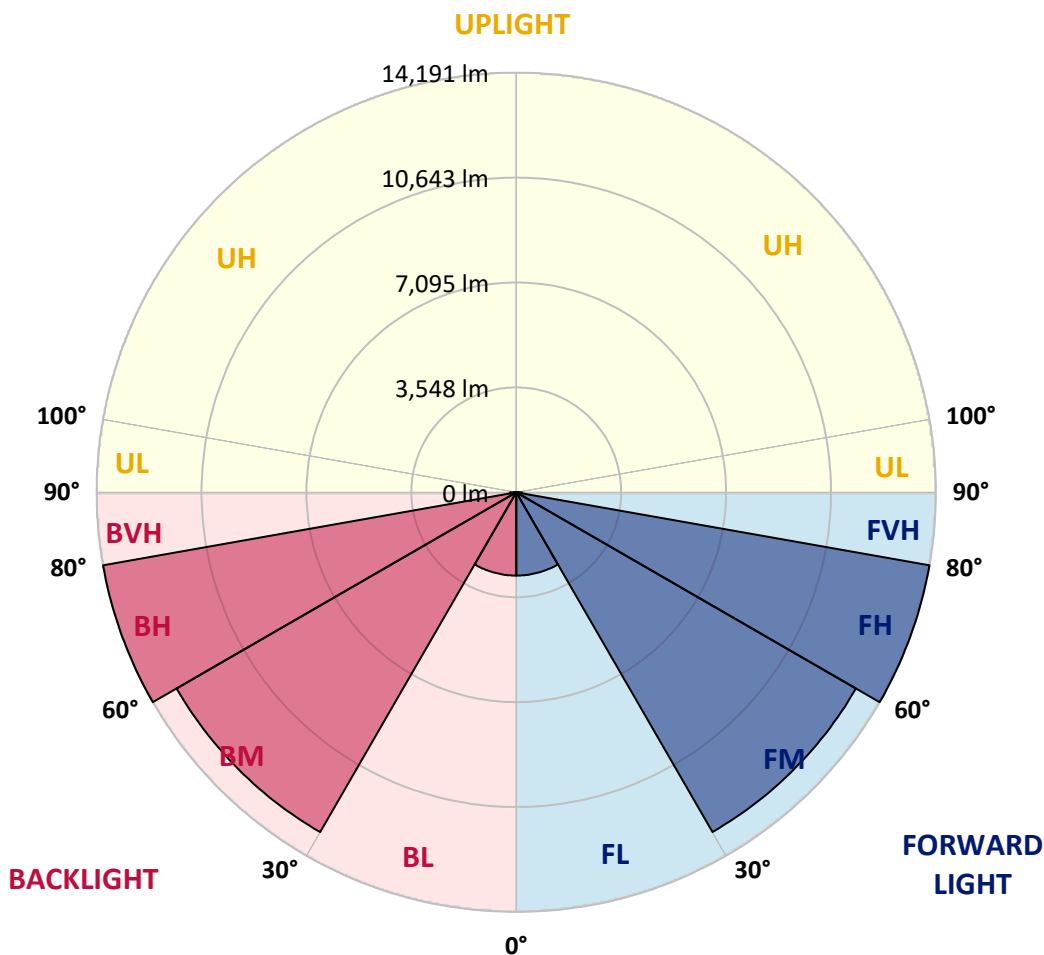
CATALOG NUMBER: GAN-SA9D-727-U-5MQ

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 2815.5  | 4.6       |                         |      |        |
| FM   | (30°-60°)   | 13266.0 | 21.8      |                         |      |        |
| FH   | (60°-80°)   | 14190.9 | 23.3      |                         |      | G5     |
| FVH  | (80°-90°)   | 197.0   | 0.3       |                         |      | G2/225 |
| BL   | (0°-30°)    | 2815.5  | 4.6       | B4/5000                 |      |        |
| BM   | (30°-60°)   | 13266.0 | 21.8      | B5                      |      |        |
| BH   | (60°-80°)   | 14190.9 | 23.3      | B5                      |      | G5     |
| BVH  | (80°-90°)   | 197.0   | 0.3       |                         |      | 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 V Short





REPORT NUMBER: P316423

CATALOG NUMBER: GAN-SA9D-727-U-5MQ

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6655.5  | 6655.5  | 6655.5  | 6655.5  | 6655.5  | 6655.5  | 6655.5  | 6655.5  | 6655.5  | 6655.5  | 6655.5  |
| 2.5°  | 6645.4  | 6639.4  | 6653.5  | 6651.5  | 6639.4  | 6641.4  | 6641.4  | 6647.4  | 6647.4  | 6643.4  | 6643.4  |
| 5°    | 6621.2  | 6617.2  | 6633.3  | 6633.3  | 6621.2  | 6625.2  | 6629.3  | 6635.3  | 6633.3  | 6629.3  | 6627.3  |
| 7.5°  | 6590.9  | 6588.9  | 6605.1  | 6605.1  | 6597.0  | 6601.0  | 6597.0  | 6599.0  | 6595.0  | 6590.9  | 6584.9  |
| 10°   | 6540.5  | 6544.6  | 6558.7  | 6562.7  | 6562.7  | 6564.7  | 6560.7  | 6550.6  | 6544.6  | 6538.5  | 6532.5  |
| 12.5° | 6494.1  | 6492.1  | 6512.3  | 6522.4  | 6538.5  | 6556.7  | 6544.6  | 6516.3  | 6504.2  | 6492.1  | 6488.1  |
| 15°   | 6463.9  | 6465.9  | 6486.1  | 6504.2  | 6532.5  | 6570.8  | 6556.7  | 6512.3  | 6488.1  | 6474.0  | 6469.9  |
| 17.5° | 6457.8  | 6461.9  | 6488.1  | 6520.4  | 6550.6  | 6593.0  | 6584.9  | 6540.5  | 6500.2  | 6474.0  | 6467.9  |
| 20°   | 6472.0  | 6474.0  | 6514.3  | 6560.7  | 6613.1  | 6653.5  | 6635.3  | 6586.9  | 6532.5  | 6492.1  | 6482.0  |
| 22.5° | 6498.2  | 6506.2  | 6556.7  | 6629.3  | 6709.9  | 6764.4  | 6742.2  | 6659.5  | 6574.8  | 6524.4  | 6510.3  |
| 25°   | 6580.9  | 6582.9  | 6651.5  | 6750.3  | 6847.1  | 6909.6  | 6883.4  | 6766.4  | 6657.5  | 6601.0  | 6582.9  |
| 27.5° | 6752.3  | 6758.3  | 6826.9  | 6941.9  | 7024.6  | 7064.9  | 7048.8  | 6954.0  | 6861.2  | 6800.7  | 6806.7  |
| 30°   | 7000.4  | 7008.4  | 7085.1  | 7212.1  | 7262.5  | 7272.6  | 7268.6  | 7224.2  | 7139.5  | 7058.8  | 7064.9  |
| 32.5° | 7302.9  | 7306.9  | 7409.8  | 7524.7  | 7565.1  | 7573.1  | 7565.1  | 7524.7  | 7423.9  | 7315.0  | 7321.0  |
| 35°   | 7692.1  | 7704.2  | 7803.1  | 7914.0  | 7946.2  | 7962.4  | 7948.3  | 7895.8  | 7791.0  | 7684.1  | 7680.0  |
| 37.5° | 8172.1  | 8174.1  | 8277.0  | 8392.0  | 8432.3  | 8436.3  | 8420.2  | 8385.9  | 8254.8  | 8158.0  | 8152.0  |
| 40°   | 8728.8  | 8736.8  | 8857.8  | 8980.9  | 8997.0  | 8978.9  | 9001.0  | 8980.9  | 8845.7  | 8734.8  | 8753.0  |
| 42.5° | 9406.4  | 9424.6  | 9569.8  | 9690.8  | 9644.4  | 9634.3  | 9648.4  | 9654.5  | 9545.6  | 9410.5  | 9398.4  |
| 45°   | 10195.0 | 10211.1 | 10392.6 | 10489.5 | 10459.2 | 10392.6 | 10420.9 | 10469.3 | 10318.0 | 10150.6 | 10166.8 |
| 47.5° | 11094.5 | 11134.8 | 11328.4 | 11419.2 | 11344.6 | 11253.8 | 11308.3 | 11380.9 | 11203.4 | 10995.7 | 10985.6 |
| 50°   | 12094.8 | 12145.3 | 12403.4 | 12530.5 | 12455.8 | 12288.4 | 12379.2 | 12427.6 | 12171.5 | 11903.2 | 11881.1 |
| 52.5° | 13161.7 | 13212.2 | 13536.9 | 13799.0 | 13750.6 | 13490.5 | 13617.5 | 13567.1 | 13272.7 | 12911.6 | 12883.4 |
| 55°   | 14369.8 | 14390.0 | 14740.9 | 15164.4 | 15212.8 | 15021.2 | 15013.2 | 14930.5 | 14494.8 | 14077.4 | 14057.2 |
| 57.5° | 15612.2 | 15626.3 | 16080.1 | 16580.2 | 16808.1 | 16808.1 | 16582.2 | 16406.8 | 15828.0 | 15343.9 | 15293.5 |
| 60°   | 16953.3 | 17003.8 | 17505.9 | 18185.6 | 18718.1 | 18875.4 | 18476.0 | 17998.1 | 17368.8 | 16777.9 | 16719.4 |
| 62.5° | 18147.3 | 18205.8 | 18974.2 | 19986.6 | 20841.8 | 21414.5 | 20438.4 | 19659.9 | 18514.4 | 17566.5 | 17455.5 |
| 65°   | 18298.6 | 18455.9 | 19575.2 | 21408.5 | 23322.4 | 24466.0 | 22594.4 | 20676.4 | 18589.0 | 17272.0 | 17159.1 |
| 67.5° | 16711.3 | 16977.5 | 18490.2 | 21343.9 | 25298.9 | 27753.4 | 23971.9 | 20095.5 | 17249.8 | 15793.7 | 15668.6 |
| 70°   | 12841.1 | 13228.3 | 14972.8 | 18669.6 | 24958.1 | 28812.2 | 23108.7 | 17592.7 | 14381.9 | 12814.8 | 12639.4 |
| 72.5° | 7044.7  | 7204.1  | 8773.1  | 12784.6 | 20008.8 | 24484.1 | 19274.7 | 13008.5 | 9537.5  | 7760.7  | 7466.2  |
| 75°   | 2234.6  | 2291.1  | 3089.8  | 5231.6  | 11318.4 | 16217.2 | 12244.1 | 6385.2  | 3515.3  | 2591.6  | 2561.4  |
| 77.5° | 992.3   | 998.3   | 1117.3  | 1526.7  | 3898.5  | 8216.5  | 4683.0  | 1738.5  | 1198.0  | 1046.7  | 1081.0  |
| 80°   | 627.2   | 627.2   | 691.8   | 756.3   | 1060.8  | 2385.9  | 1266.6  | 826.9   | 705.9   | 655.5   | 669.6   |
| 82.5° | 300.5   | 332.8   | 449.7   | 484.0   | 582.9   | 802.7   | 649.4   | 540.5   | 471.9   | 350.9   | 326.7   |
| 85°   | 197.6   | 165.4   | 284.4   | 320.7   | 338.8   | 385.2   | 377.1   | 357.0   | 308.6   | 175.5   | 195.6   |
| 87.5° | 88.7    | 84.7    | 147.2   | 135.1   | 127.1   | 96.8    | 145.2   | 179.5   | 173.4   | 86.7    | 86.7    |
| 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)