

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: P316661

Luminaire Tested: **GAN-SA7D-830-U-5MQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316661  
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-SA7D-830-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 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: 45814 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

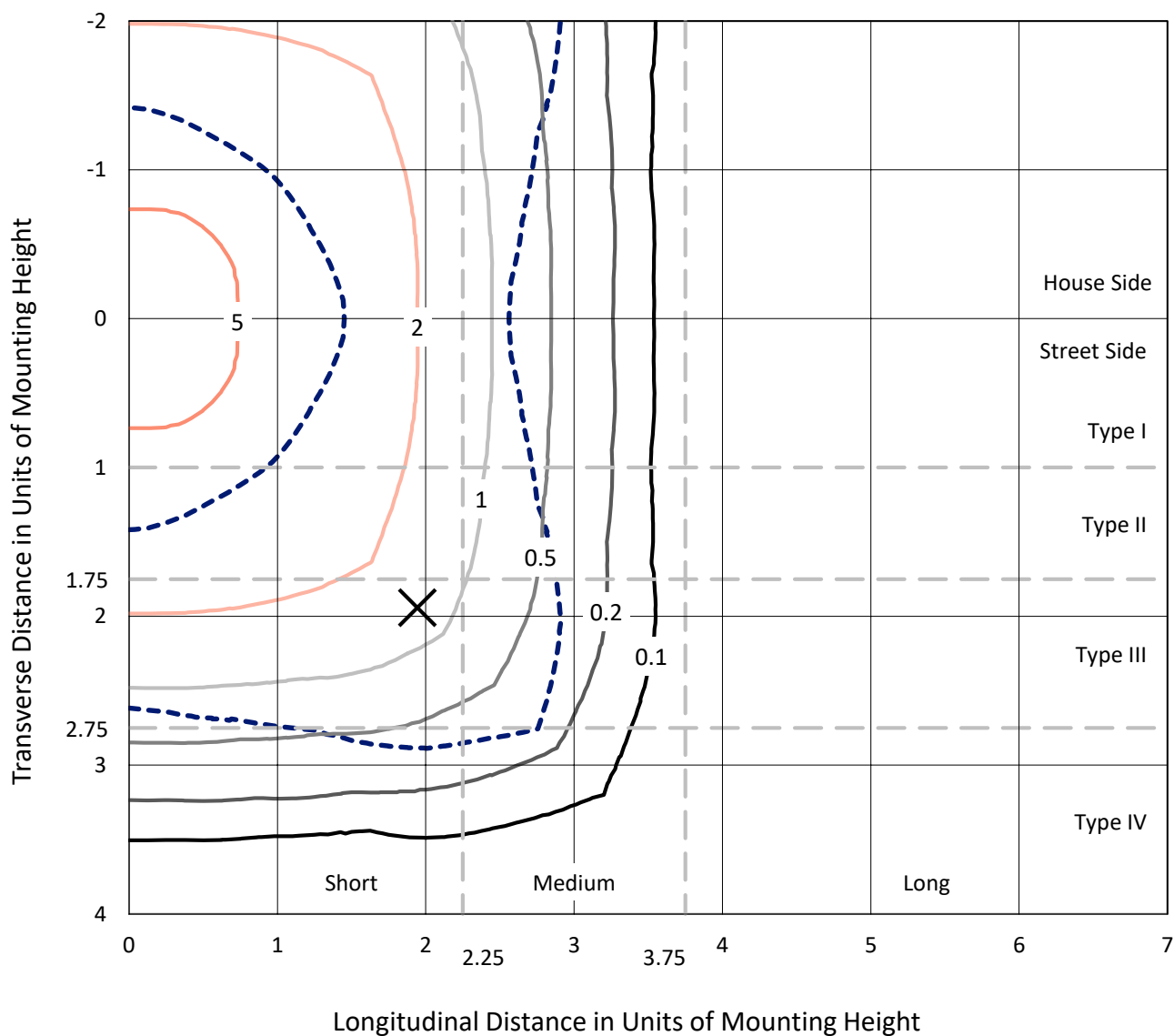
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P316661  
 CATALOG NUMBER: GAN-SA7D-830-U-5MQ

## Iso-Footcandle Lines of Horizontal Illumination

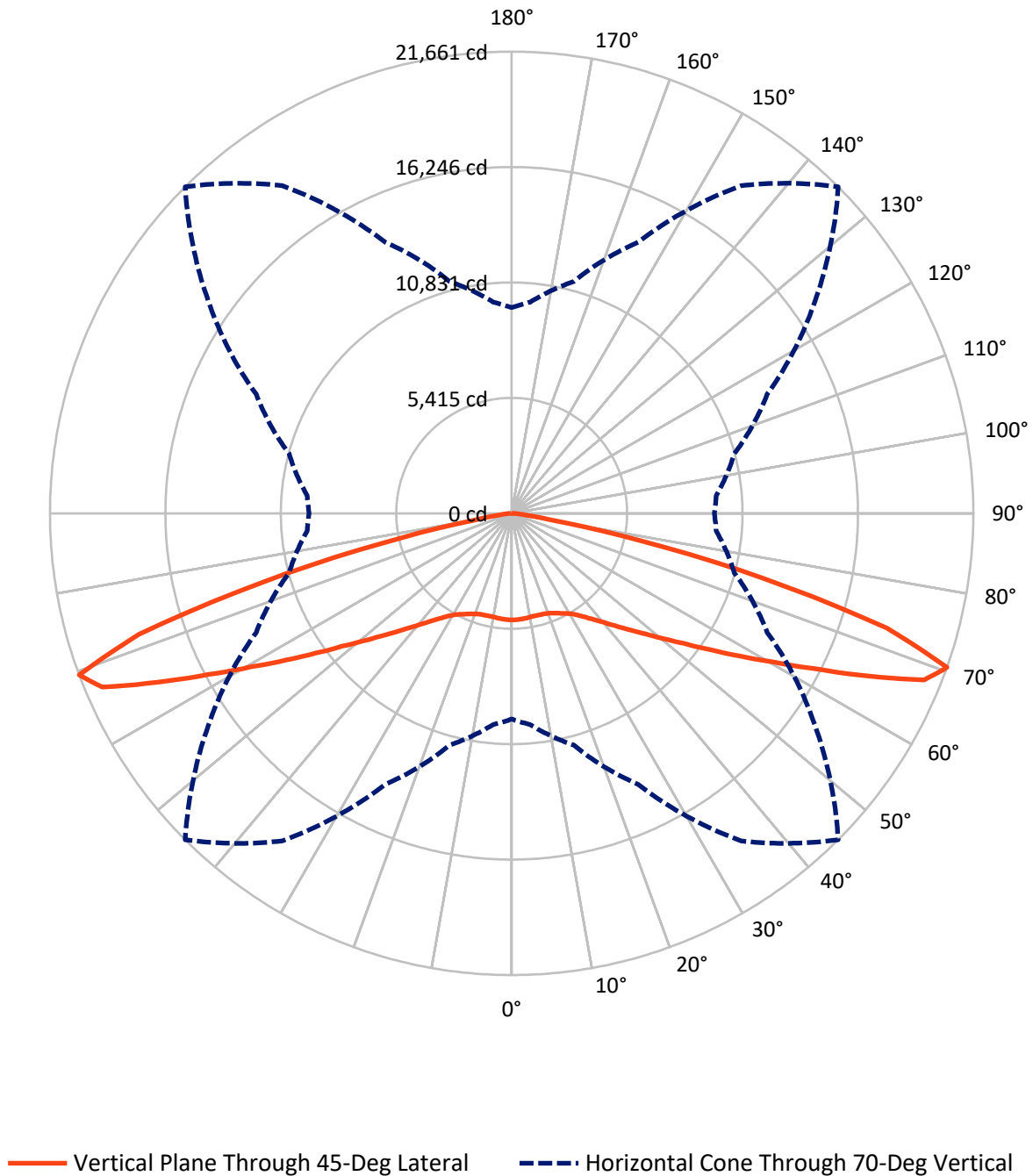
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type V - Short - N/A

REPORT NUMBER: P316661  
CATALOG NUMBER: GAN-SA7D-830-U-5MQ

## Luminous Intensity Polar Plot



REPORT NUMBER: P316661

CATALOG NUMBER: GAN-SA7D-830-U-5MQ

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 22907.0  | 0.0    | 22907.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 22907.0  | 0.0    | 22907.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 45814.0  | 0.0    | 45814.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 473.9   | 1.0       |
| 10°-20°   | 1391.2  | 3.0       |
| 20°-30°   | 2368.3  | 5.2       |
| 30°-40°   | 3756.1  | 8.2       |
| 40°-50°   | 6112.4  | 13.3      |
| 50°-60°   | 10078.2 | 22.0      |
| 60°-70°   | 14795.1 | 32.3      |
| 70°-80°   | 6542.4  | 14.3      |
| 80°-90°   | 296.3   | 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°    | 45814.0 | 100.0     |
| 0°-180°   | 45814.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P316661

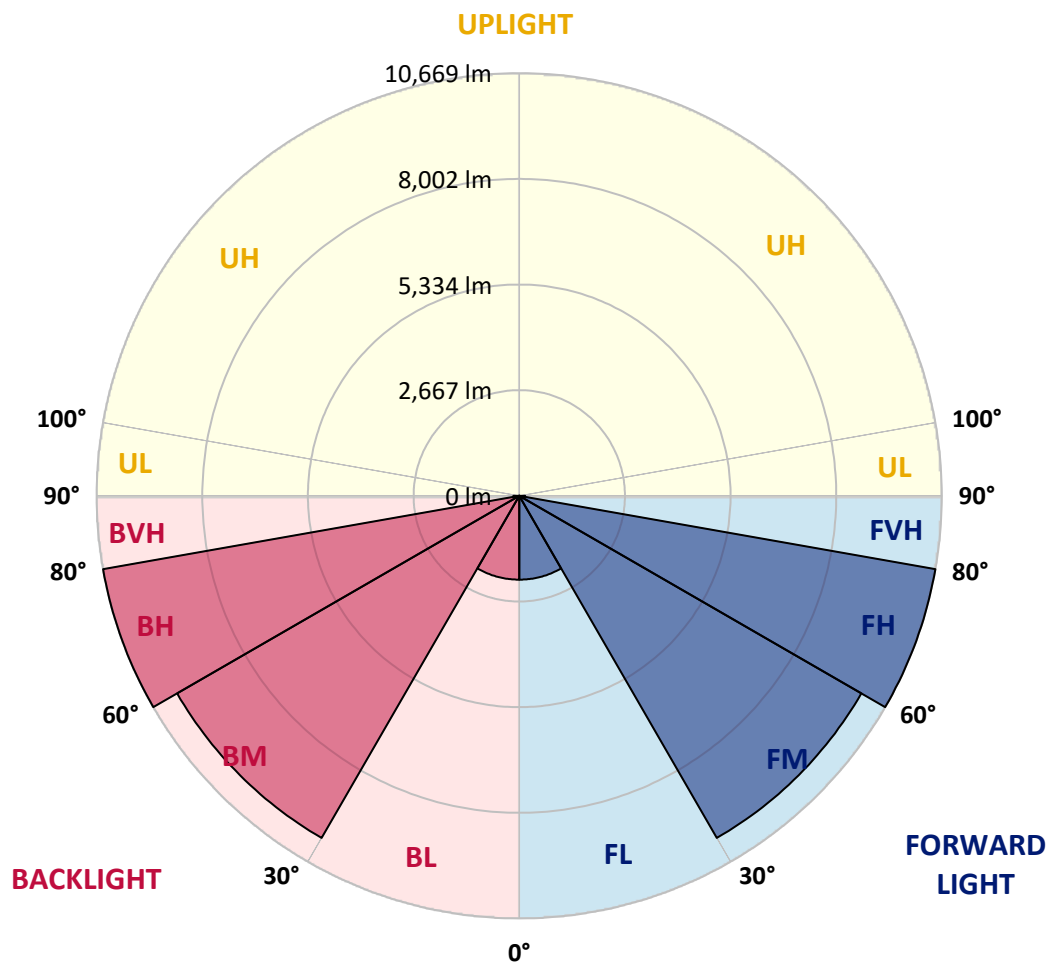
CATALOG NUMBER: GAN-SA7D-830-U-5MQ

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2116.7  | 4.6       |                         |      |          |
| FM   | (30°-60°)   | 9973.4  | 21.8      |                         |      |          |
| FH   | (60°-80°)   | 10668.8 | 23.3      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 148.1   | 0.3       |                         |      | G2/225   |
| BL   | (0°-30°)    | 2116.7  | 4.6       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 9973.4  | 21.8      | B5                      |      |          |
| BH   | (60°-80°)   | 10668.8 | 23.3      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 148.1   | 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-G4**

Type V Short





REPORT NUMBER: P316661

CATALOG NUMBER: GAN-SA7D-830-U-5MQ

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5003.6  | 5003.6  | 5003.6  | 5003.6  | 5003.6  | 5003.6  | 5003.6  | 5003.6  | 5003.6  | 5003.6  | 5003.6  |
| 2.5°  | 4996.0  | 4991.5  | 5002.1  | 5000.6  | 4991.5  | 4993.0  | 4993.0  | 4997.5  | 4997.5  | 4994.5  | 4994.5  |
| 5°    | 4977.8  | 4974.8  | 4986.9  | 4986.9  | 4977.8  | 4980.9  | 4983.9  | 4988.4  | 4986.9  | 4983.9  | 4982.4  |
| 7.5°  | 4955.1  | 4953.6  | 4965.7  | 4965.7  | 4959.6  | 4962.7  | 4959.6  | 4961.1  | 4958.1  | 4955.1  | 4950.5  |
| 10°   | 4917.2  | 4920.2  | 4930.8  | 4933.9  | 4933.9  | 4935.4  | 4932.3  | 4924.8  | 4920.2  | 4915.7  | 4911.1  |
| 12.5° | 4882.3  | 4880.8  | 4895.9  | 4903.5  | 4915.7  | 4929.3  | 4920.2  | 4899.0  | 4889.9  | 4880.8  | 4877.8  |
| 15°   | 4859.6  | 4861.1  | 4876.2  | 4889.9  | 4911.1  | 4939.9  | 4929.3  | 4895.9  | 4877.8  | 4867.1  | 4864.1  |
| 17.5° | 4855.0  | 4858.0  | 4877.8  | 4902.0  | 4924.8  | 4956.6  | 4950.5  | 4917.2  | 4886.9  | 4867.1  | 4862.6  |
| 20°   | 4865.6  | 4867.1  | 4897.5  | 4932.3  | 4971.8  | 5002.1  | 4988.4  | 4952.0  | 4911.1  | 4880.8  | 4873.2  |
| 22.5° | 4885.3  | 4891.4  | 4929.3  | 4983.9  | 5044.5  | 5085.5  | 5068.8  | 5006.6  | 4943.0  | 4905.0  | 4894.4  |
| 25°   | 4947.5  | 4949.0  | 5000.6  | 5074.9  | 5147.6  | 5194.6  | 5174.9  | 5087.0  | 5005.1  | 4962.7  | 4949.0  |
| 27.5° | 5076.4  | 5080.9  | 5132.5  | 5218.9  | 5281.1  | 5311.4  | 5299.3  | 5228.0  | 5158.3  | 5112.8  | 5117.3  |
| 30°   | 5262.9  | 5268.9  | 5326.6  | 5422.1  | 5460.0  | 5467.6  | 5464.5  | 5431.2  | 5367.5  | 5306.9  | 5311.4  |
| 32.5° | 5490.3  | 5493.3  | 5570.7  | 5657.1  | 5687.4  | 5693.5  | 5687.4  | 5657.1  | 5581.3  | 5499.4  | 5504.0  |
| 35°   | 5783.0  | 5792.0  | 5866.3  | 5949.7  | 5974.0  | 5986.1  | 5975.5  | 5936.1  | 5857.2  | 5776.9  | 5773.9  |
| 37.5° | 6143.8  | 6145.3  | 6222.7  | 6309.1  | 6339.4  | 6342.4  | 6330.3  | 6304.5  | 6206.0  | 6133.2  | 6128.7  |
| 40°   | 6562.3  | 6568.4  | 6659.3  | 6751.8  | 6764.0  | 6750.3  | 6767.0  | 6751.8  | 6650.2  | 6566.8  | 6580.5  |
| 42.5° | 7071.8  | 7085.4  | 7194.6  | 7285.5  | 7250.7  | 7243.1  | 7253.7  | 7258.3  | 7176.4  | 7074.8  | 7065.7  |
| 45°   | 7664.6  | 7676.7  | 7813.2  | 7886.0  | 7863.2  | 7813.2  | 7834.4  | 7870.8  | 7757.1  | 7631.3  | 7643.4  |
| 47.5° | 8340.9  | 8371.2  | 8516.7  | 8585.0  | 8528.9  | 8460.6  | 8501.6  | 8556.2  | 8422.7  | 8266.6  | 8259.0  |
| 50°   | 9092.9  | 9130.8  | 9324.9  | 9420.4  | 9364.3  | 9238.5  | 9306.7  | 9343.1  | 9150.5  | 8948.9  | 8932.2  |
| 52.5° | 9895.0  | 9932.9  | 10177.0 | 10374.1 | 10337.7 | 10142.1 | 10237.7 | 10199.8 | 9978.4  | 9707.0  | 9685.8  |
| 55°   | 10803.2 | 10818.4 | 11082.2 | 11400.6 | 11437.0 | 11293.0 | 11286.9 | 11224.7 | 10897.2 | 10583.4 | 10568.2 |
| 57.5° | 11737.2 | 11747.9 | 12089.0 | 12465.0 | 12636.4 | 12636.4 | 12466.5 | 12334.6 | 11899.5 | 11535.6 | 11497.7 |
| 60°   | 12745.5 | 12783.4 | 13161.0 | 13672.0 | 14072.3 | 14190.5 | 13890.3 | 13531.0 | 13057.9 | 12613.6 | 12569.7 |
| 62.5° | 13643.2 | 13687.1 | 14264.8 | 15026.0 | 15668.9 | 16099.5 | 15365.6 | 14780.3 | 13919.1 | 13206.5 | 13123.1 |
| 65°   | 13756.9 | 13875.1 | 14716.7 | 16094.9 | 17533.8 | 18393.5 | 16986.5 | 15544.5 | 13975.2 | 12985.1 | 12900.2 |
| 67.5° | 12563.6 | 12763.7 | 13900.9 | 16046.4 | 19019.8 | 20865.0 | 18022.1 | 15107.8 | 12968.4 | 11873.7 | 11779.7 |
| 70°   | 9653.9  | 9945.0  | 11256.6 | 14035.9 | 18763.5 | 21661.0 | 17373.1 | 13226.2 | 10812.3 | 9634.2  | 9502.3  |
| 72.5° | 5296.2  | 5416.0  | 6595.7  | 9611.5  | 15042.6 | 18407.2 | 14490.7 | 9779.8  | 7170.3  | 5834.5  | 5613.1  |
| 75°   | 1680.0  | 1722.5  | 2322.9  | 3933.1  | 8509.2  | 12192.1 | 9205.1  | 4800.4  | 2642.8  | 1948.4  | 1925.6  |
| 77.5° | 746.0   | 750.5   | 840.0   | 1147.8  | 2930.9  | 6177.2  | 3520.7  | 1307.0  | 900.6   | 786.9   | 812.7   |
| 80°   | 471.6   | 471.6   | 520.1   | 568.6   | 797.5   | 1793.7  | 952.2   | 621.7   | 530.7   | 492.8   | 503.4   |
| 82.5° | 225.9   | 250.2   | 338.1   | 363.9   | 438.2   | 603.5   | 488.2   | 406.4   | 354.8   | 263.8   | 245.6   |
| 85°   | 148.6   | 124.3   | 213.8   | 241.1   | 254.7   | 289.6   | 283.5   | 268.4   | 232.0   | 131.9   | 147.1   |
| 87.5° | 66.7    | 63.7    | 110.7   | 101.6   | 95.5    | 72.8    | 109.2   | 134.9   | 130.4   | 65.2    | 65.2    |
| 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)