

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: P316613

Luminaire Tested: **GAN-SA9C-827-U-5MQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316613  
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-SA9C-827-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48832 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

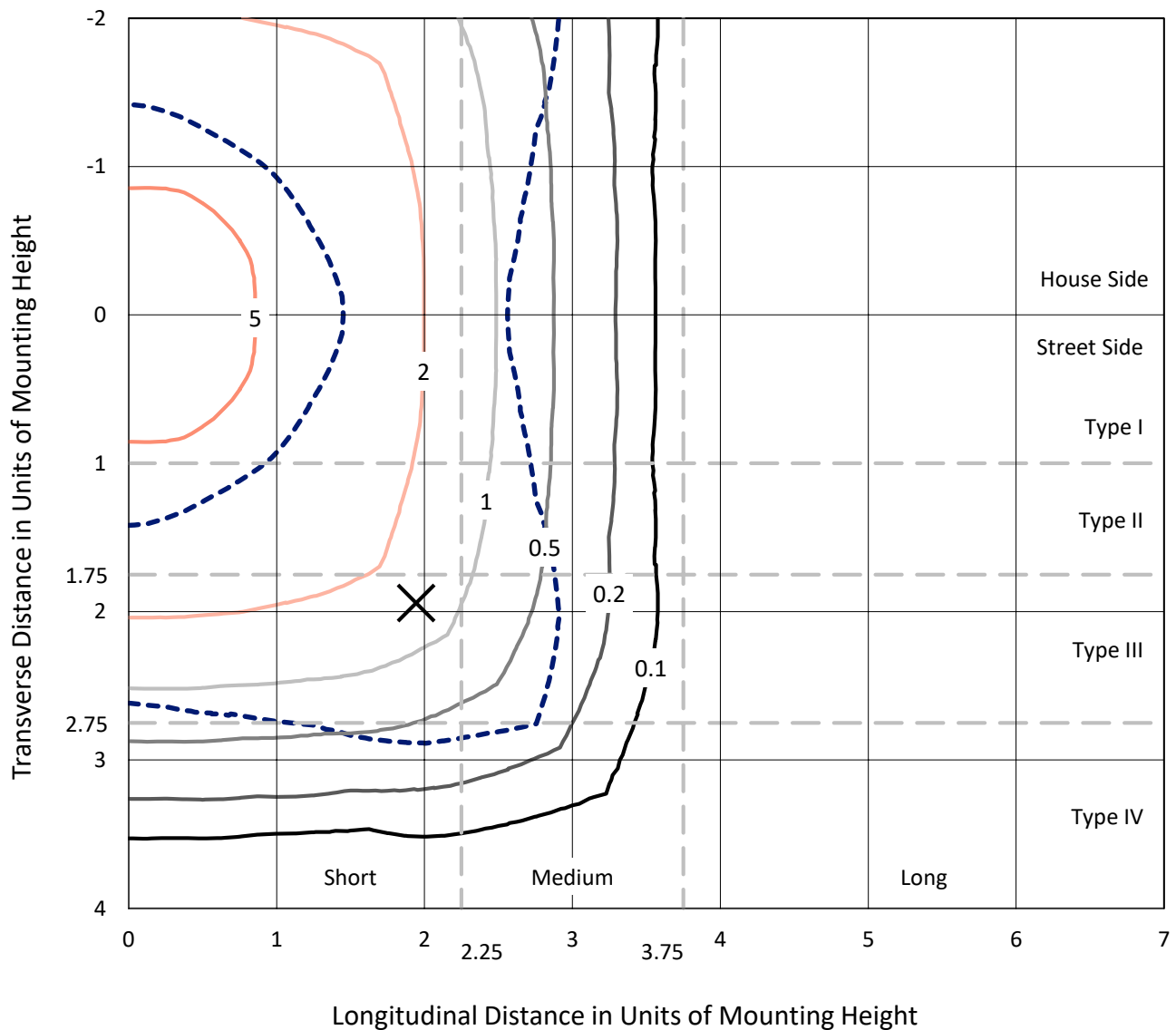
Input Watts (W): 501  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

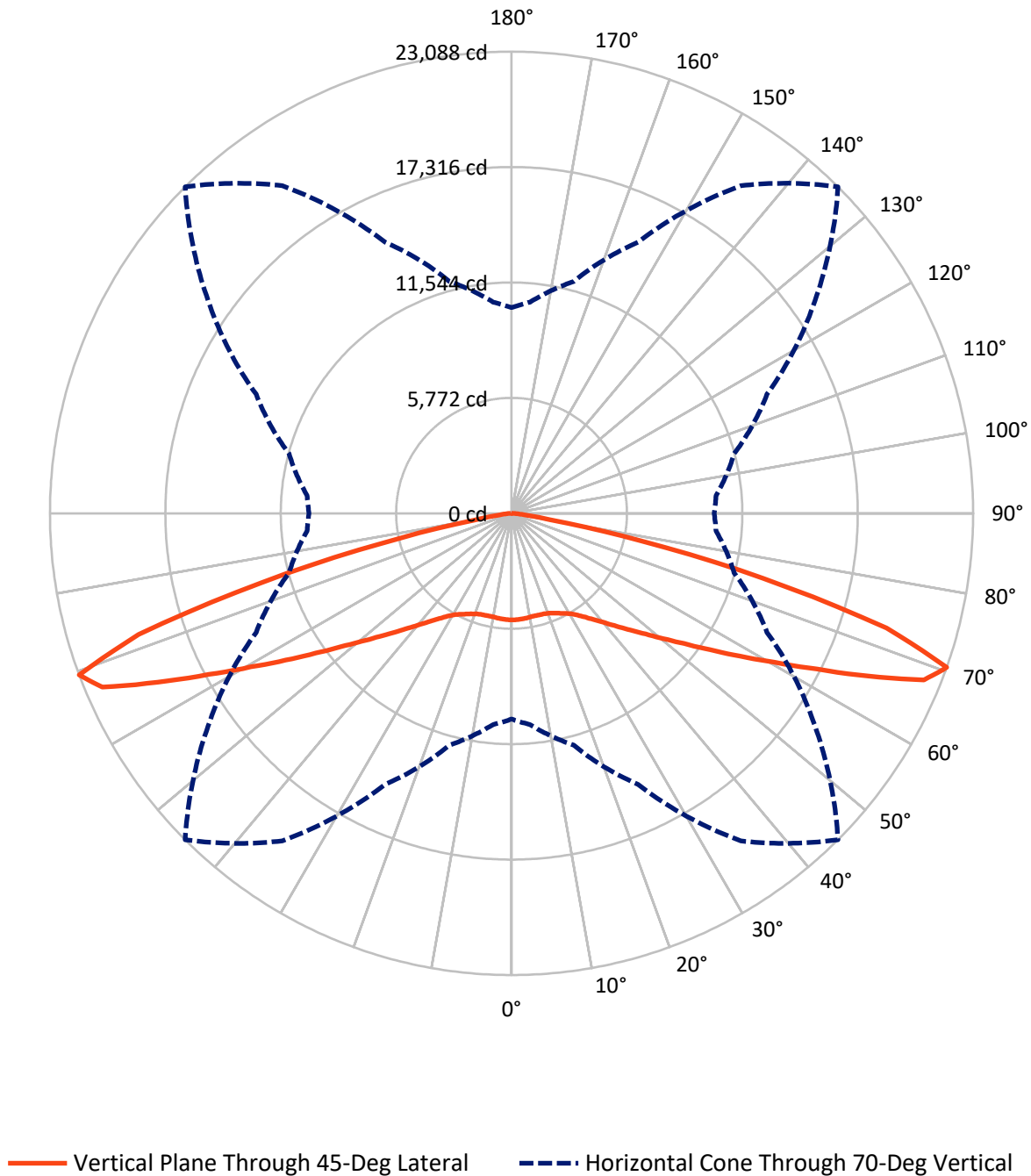
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 24416.0  | 0.0    | 24416.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 24416.0  | 0.0    | 24416.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 48832.0  | 0.0    | 48832.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 505.1   | 1.0       |
| 10°-20°   | 1482.9  | 3.0       |
| 20°-30°   | 2524.3  | 5.2       |
| 30°-40°   | 4003.6  | 8.2       |
| 40°-50°   | 6515.0  | 13.3      |
| 50°-60°   | 10742.1 | 22.0      |
| 60°-70°   | 15769.8 | 32.3      |
| 70°-80°   | 6973.4  | 14.3      |
| 80°-90°   | 315.8   | 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°    | 48832.0 | 100.0     |
| 0°-180°   | 48832.0 | 100.0     |

**Coefficient of Utilization**



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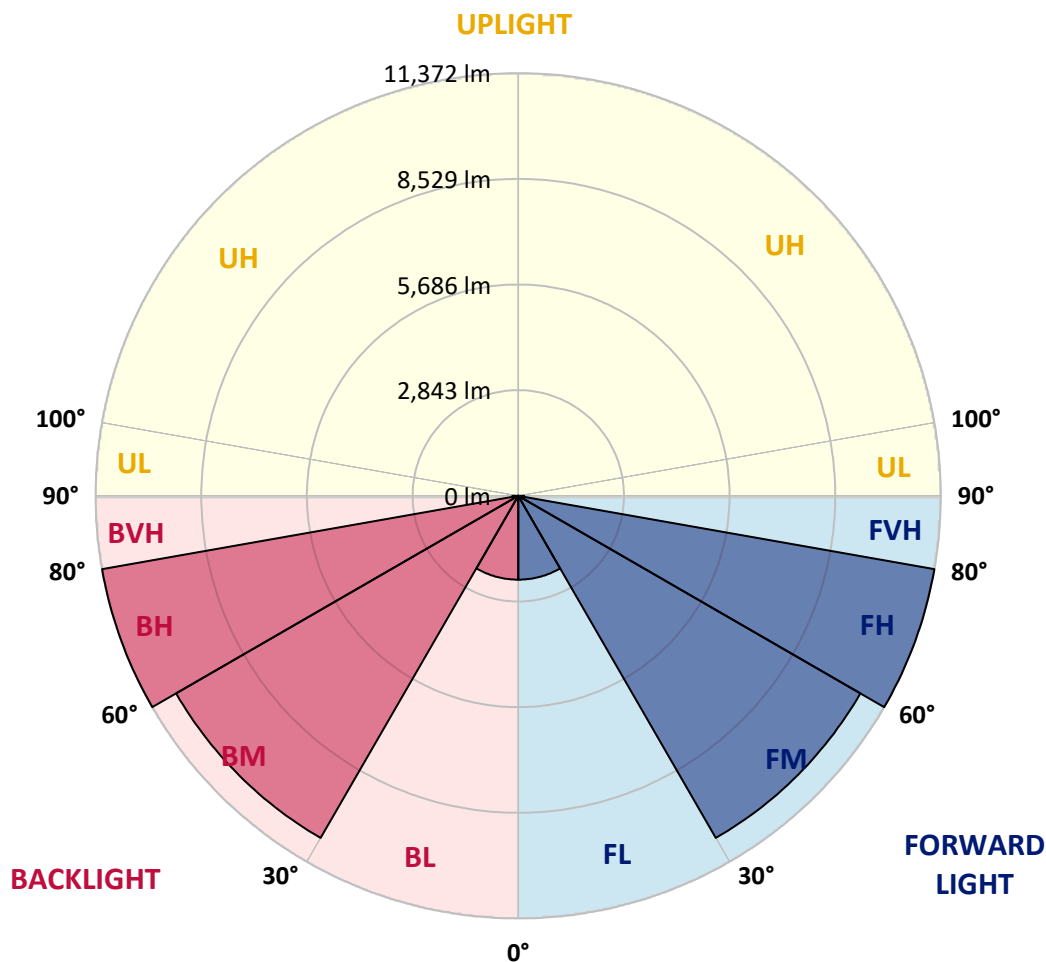
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2256.2  | 4.6       |                         |      |          |
| FM   | (30°-60°)   | 10630.4 | 21.8      |                         |      |          |
| FH   | (60°-80°)   | 11371.6 | 23.3      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 157.9   | 0.3       |                         |      | G2/225   |
| BL   | (0°-30°)    | 2256.2  | 4.6       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 10630.4 | 21.8      | B5                      |      |          |
| BH   | (60°-80°)   | 11371.6 | 23.3      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 157.9   | 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



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5333.2  | 5333.2  | 5333.2  | 5333.2  | 5333.2  | 5333.2  | 5333.2  | 5333.2  | 5333.2  | 5333.2  | 5333.2  |
| 2.5°  | 5325.1  | 5320.3  | 5331.6  | 5330.0  | 5320.3  | 5321.9  | 5321.9  | 5326.7  | 5326.7  | 5323.5  | 5323.5  |
| 5°    | 5305.7  | 5302.5  | 5315.4  | 5315.4  | 5305.7  | 5309.0  | 5312.2  | 5317.1  | 5315.4  | 5312.2  | 5310.6  |
| 7.5°  | 5281.5  | 5279.9  | 5292.8  | 5292.8  | 5286.3  | 5289.6  | 5286.3  | 5288.0  | 5284.7  | 5281.5  | 5276.6  |
| 10°   | 5241.1  | 5244.3  | 5255.6  | 5258.9  | 5258.9  | 5260.5  | 5257.3  | 5249.2  | 5244.3  | 5239.5  | 5234.6  |
| 12.5° | 5203.9  | 5202.3  | 5218.5  | 5226.6  | 5239.5  | 5254.0  | 5244.3  | 5221.7  | 5212.0  | 5202.3  | 5199.1  |
| 15°   | 5179.7  | 5181.3  | 5197.5  | 5212.0  | 5234.6  | 5265.3  | 5254.0  | 5218.5  | 5199.1  | 5187.8  | 5184.5  |
| 17.5° | 5174.8  | 5178.1  | 5199.1  | 5224.9  | 5249.2  | 5283.1  | 5276.6  | 5241.1  | 5208.8  | 5187.8  | 5182.9  |
| 20°   | 5186.1  | 5187.8  | 5220.1  | 5257.3  | 5299.3  | 5331.6  | 5317.1  | 5278.3  | 5234.6  | 5202.3  | 5194.2  |
| 22.5° | 5207.2  | 5213.6  | 5254.0  | 5312.2  | 5376.8  | 5420.5  | 5402.7  | 5336.4  | 5268.6  | 5228.2  | 5216.9  |
| 25°   | 5273.4  | 5275.0  | 5330.0  | 5409.2  | 5486.7  | 5536.8  | 5515.8  | 5422.1  | 5334.8  | 5289.6  | 5275.0  |
| 27.5° | 5410.8  | 5415.6  | 5470.6  | 5562.7  | 5629.0  | 5661.3  | 5648.4  | 5572.4  | 5498.1  | 5449.6  | 5454.4  |
| 30°   | 5609.6  | 5616.0  | 5677.4  | 5779.3  | 5819.7  | 5827.7  | 5824.5  | 5789.0  | 5721.1  | 5656.4  | 5661.3  |
| 32.5° | 5852.0  | 5855.2  | 5937.6  | 6029.8  | 6062.1  | 6068.6  | 6062.1  | 6029.8  | 5949.0  | 5861.7  | 5866.5  |
| 35°   | 6163.9  | 6173.6  | 6252.8  | 6341.7  | 6367.5  | 6380.5  | 6369.2  | 6327.1  | 6243.1  | 6157.4  | 6154.2  |
| 37.5° | 6548.5  | 6550.2  | 6632.6  | 6724.7  | 6757.0  | 6760.3  | 6747.3  | 6719.9  | 6614.8  | 6537.2  | 6532.4  |
| 40°   | 6994.6  | 7001.1  | 7098.0  | 7196.6  | 7209.5  | 7195.0  | 7212.8  | 7196.6  | 7088.3  | 6999.4  | 7014.0  |
| 42.5° | 7537.6  | 7552.2  | 7668.5  | 7765.5  | 7728.3  | 7720.2  | 7731.5  | 7736.4  | 7649.1  | 7540.8  | 7531.1  |
| 45°   | 8169.5  | 8182.4  | 8327.9  | 8405.5  | 8381.2  | 8327.9  | 8350.5  | 8389.3  | 8268.1  | 8134.0  | 8146.9  |
| 47.5° | 8890.3  | 8922.6  | 9077.8  | 9150.5  | 9090.7  | 9018.0  | 9061.6  | 9119.8  | 8977.6  | 8811.1  | 8803.0  |
| 50°   | 9691.9  | 9732.3  | 9939.2  | 10041.0 | 9981.2  | 9847.1  | 9919.8  | 9958.6  | 9753.3  | 9538.4  | 9520.6  |
| 52.5° | 10546.8 | 10587.2 | 10847.4 | 11057.5 | 11018.7 | 10810.3 | 10912.1 | 10871.7 | 10635.7 | 10346.4 | 10323.8 |
| 55°   | 11514.9 | 11531.1 | 11812.3 | 12151.6 | 12190.4 | 12036.9 | 12030.4 | 11964.2 | 11615.1 | 11280.6 | 11264.4 |
| 57.5° | 12510.4 | 12521.7 | 12885.4 | 13286.2 | 13468.8 | 13468.8 | 13287.8 | 13147.2 | 12683.4 | 12295.5 | 12255.1 |
| 60°   | 13585.2 | 13625.6 | 14028.0 | 14572.6 | 14999.3 | 15125.3 | 14805.3 | 14422.3 | 13918.1 | 13444.5 | 13397.7 |
| 62.5° | 14541.9 | 14588.8 | 15204.5 | 16015.8 | 16701.0 | 17160.0 | 16377.8 | 15754.0 | 14836.0 | 14076.5 | 13987.6 |
| 65°   | 14663.1 | 14789.2 | 15686.1 | 17155.2 | 18688.9 | 19605.2 | 18105.5 | 16568.5 | 14895.8 | 13840.5 | 13750.0 |
| 67.5° | 13391.2 | 13604.5 | 14816.6 | 17103.5 | 20272.7 | 22239.5 | 19209.3 | 16103.1 | 13822.7 | 12655.9 | 12555.7 |
| 70°   | 10289.9 | 10600.2 | 11998.1 | 14960.5 | 19999.6 | 23088.0 | 18517.6 | 14097.5 | 11524.6 | 10268.9 | 10128.3 |
| 72.5° | 5645.1  | 5772.8  | 7030.1  | 10244.6 | 16033.6 | 19619.8 | 15445.3 | 10424.0 | 7642.7  | 6218.9  | 5982.9  |
| 75°   | 1790.7  | 1835.9  | 2475.9  | 4192.2  | 9069.7  | 12995.3 | 9811.5  | 5116.7  | 2816.9  | 2076.7  | 2052.5  |
| 77.5° | 795.1   | 800.0   | 895.3   | 1223.4  | 3124.0  | 6584.1  | 3752.6  | 1393.1  | 960.0   | 838.8   | 866.2   |
| 80°   | 502.6   | 502.6   | 554.3   | 606.0   | 850.1   | 1911.9  | 1014.9  | 662.6   | 565.6   | 525.2   | 536.6   |
| 82.5° | 240.8   | 266.7   | 360.4   | 387.9   | 467.1   | 643.2   | 520.4   | 433.1   | 378.2   | 281.2   | 261.8   |
| 85°   | 158.4   | 132.5   | 227.9   | 257.0   | 271.5   | 308.7   | 302.2   | 286.1   | 247.3   | 140.6   | 156.8   |
| 87.5° | 71.1    | 67.9    | 118.0   | 108.3   | 101.8   | 77.6    | 116.4   | 143.8   | 139.0   | 69.5    | 69.5    |
| 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)