

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: P316899

Luminaire Tested: **GAN-SA5D-760-U-5NQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316899  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5D-760-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40001 lumens  
Efficiency: N/A  
Efficacy: 125.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

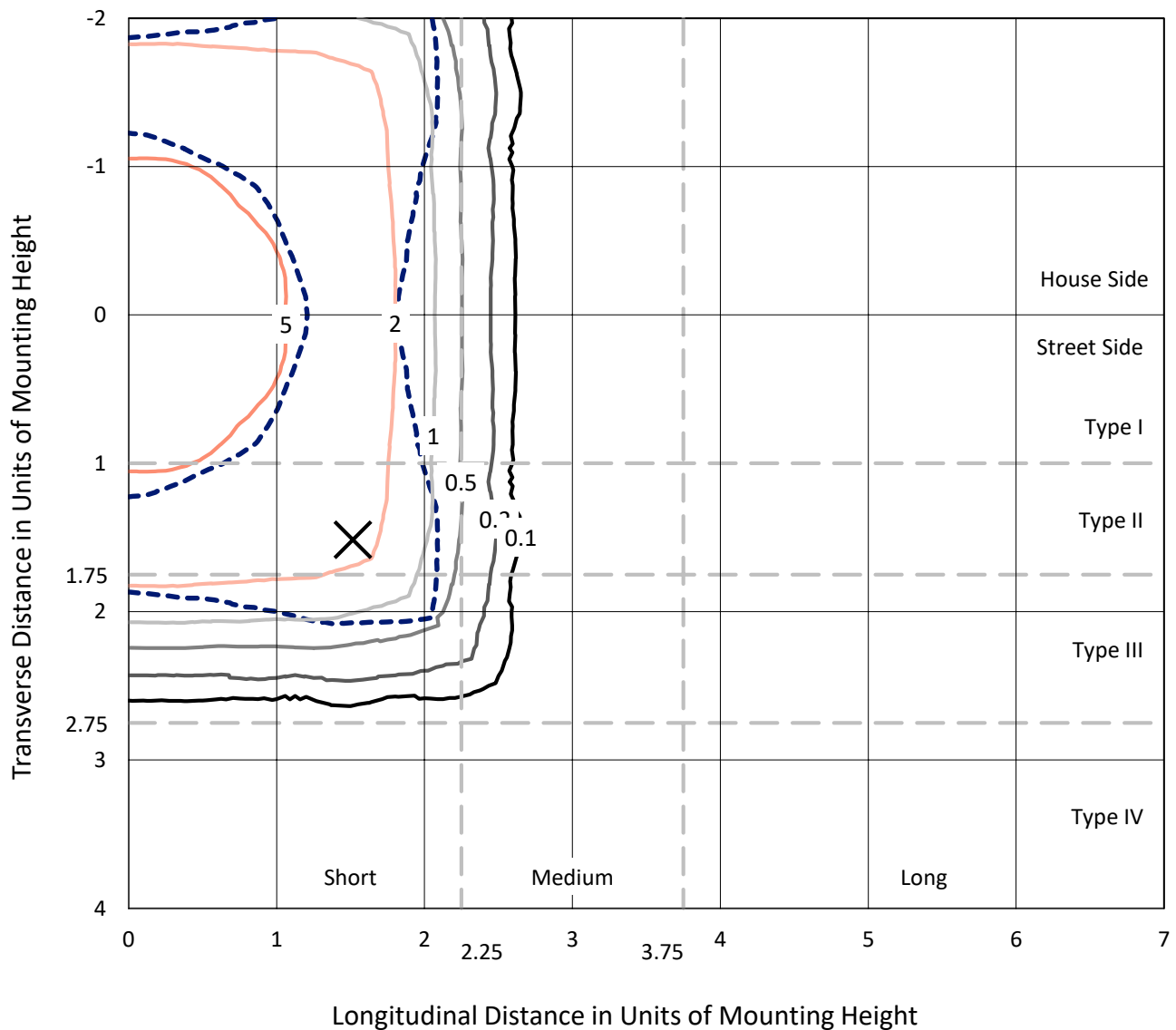
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

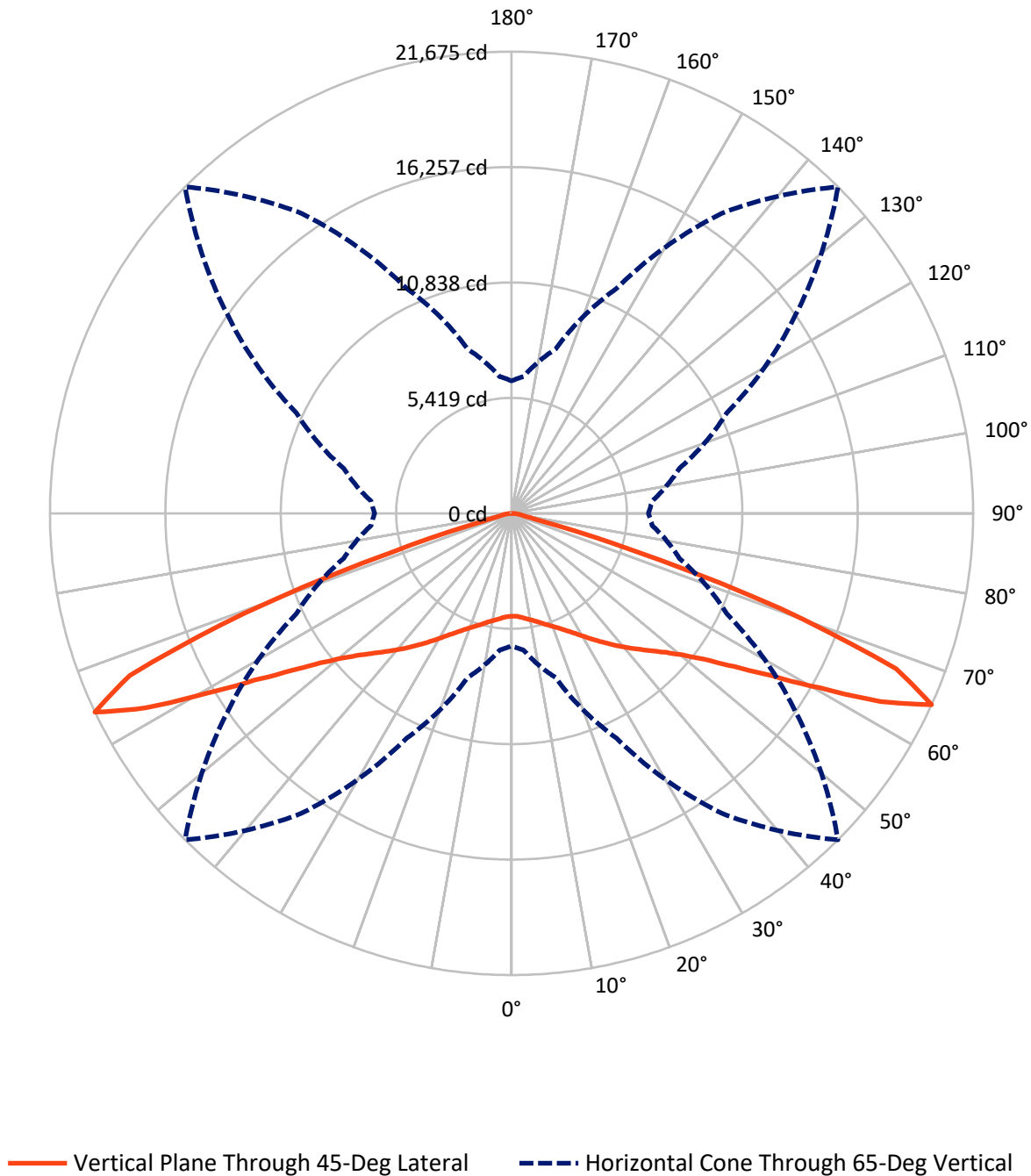
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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    | 20000.5  | 0.0    | 20000.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 20000.5  | 0.0    | 20000.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 40001.0  | 0.0    | 40001.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 473.9   | 1.2       |
| 10°-20°   | 1523.4  | 3.8       |
| 20°-30°   | 2858.2  | 7.1       |
| 30°-40°   | 4726.9  | 11.8      |
| 40°-50°   | 7321.3  | 18.3      |
| 50°-60°   | 11228.8 | 28.1      |
| 60°-70°   | 10477.7 | 26.2      |
| 70°-80°   | 1219.4  | 3.0       |
| 80°-90°   | 171.4   | 0.4       |
| 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°    | 40001.0 | 100.0     |
| 0°-180°   | 40001.0 | 100.0     |

**Coefficient of Utilization**



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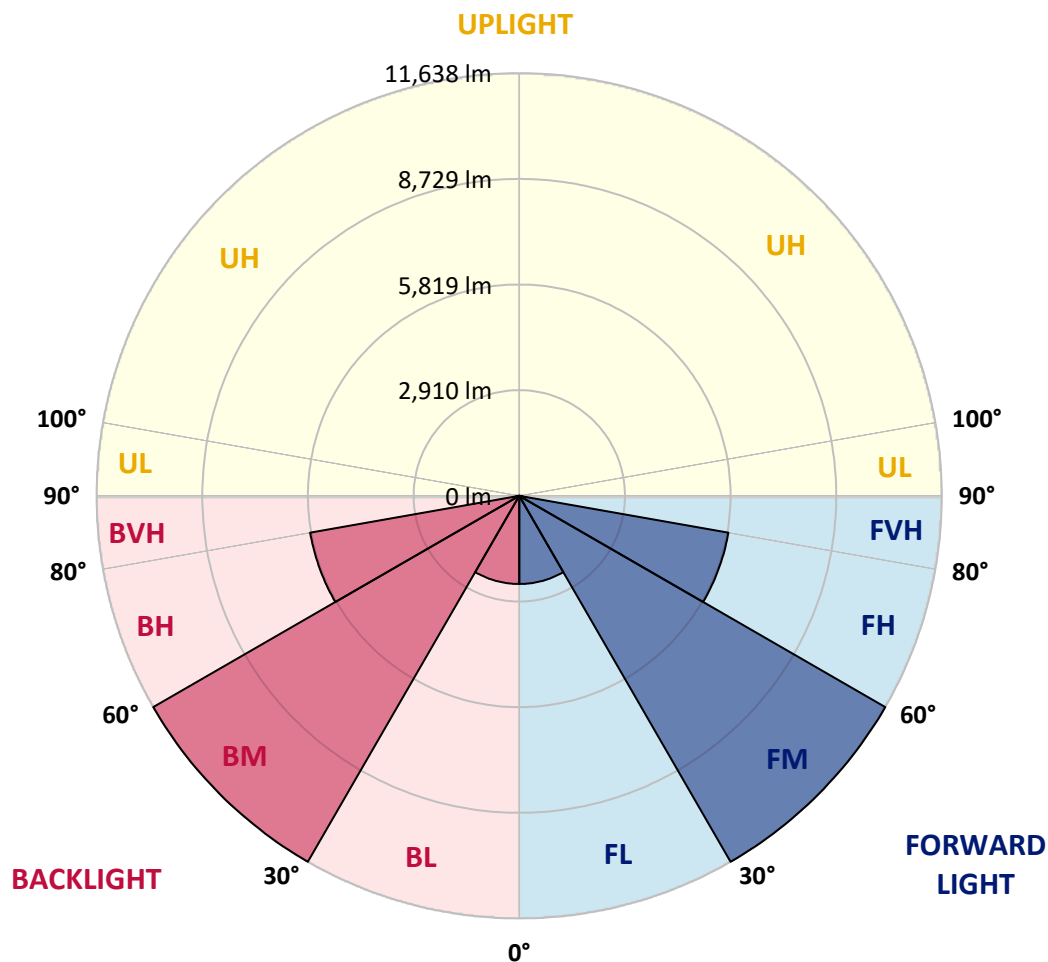
CATALOG NUMBER: GAN-SA5D-760-U-5NQ

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2427.8  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 11638.5 | 29.1      |                         |      |         |
| FH   | (60°-80°)   | 5848.6  | 14.6      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 85.7    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 2427.8  | 6.1       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 11638.5 | 29.1      | B5                      |      |         |
| BH   | (60°-80°)   | 5848.6  | 14.6      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 85.7    | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4830.6  | 4830.6  | 4830.6  | 4830.6  | 4830.6  | 4830.6  | 4830.6  | 4830.6  | 4830.6  | 4830.6  | 4830.6  |
| 2.5°  | 4846.6  | 4843.9  | 4846.6  | 4847.9  | 4839.9  | 4843.9  | 4842.6  | 4849.2  | 4851.9  | 4849.2  | 4849.2  |
| 5°    | 4902.3  | 4898.3  | 4903.7  | 4910.3  | 4899.7  | 4902.3  | 4898.3  | 4906.3  | 4909.0  | 4903.7  | 4907.6  |
| 7.5°  | 4979.3  | 4980.7  | 4986.0  | 4997.9  | 4991.3  | 4996.6  | 4988.6  | 4990.0  | 4988.6  | 4980.7  | 4982.0  |
| 10°   | 5063.0  | 5064.3  | 5073.6  | 5089.6  | 5092.2  | 5092.2  | 5086.9  | 5082.9  | 5077.6  | 5072.3  | 5073.6  |
| 12.5° | 5163.9  | 5170.6  | 5177.2  | 5197.1  | 5197.1  | 5207.7  | 5205.1  | 5194.5  | 5185.2  | 5177.2  | 5177.2  |
| 15°   | 5300.7  | 5299.3  | 5307.3  | 5327.2  | 5336.5  | 5353.8  | 5353.8  | 5339.2  | 5327.2  | 5319.3  | 5316.6  |
| 17.5° | 5444.1  | 5448.1  | 5453.4  | 5477.3  | 5491.9  | 5511.8  | 5514.5  | 5502.5  | 5494.5  | 5483.9  | 5477.3  |
| 20°   | 5611.4  | 5618.0  | 5639.3  | 5648.6  | 5661.8  | 5680.4  | 5687.1  | 5684.4  | 5676.5  | 5671.1  | 5672.5  |
| 22.5° | 5806.6  | 5823.8  | 5837.1  | 5850.4  | 5866.3  | 5879.6  | 5886.2  | 5895.5  | 5887.6  | 5883.6  | 5880.9  |
| 25°   | 6042.9  | 6054.9  | 6081.4  | 6105.3  | 6116.0  | 6119.9  | 6127.9  | 6141.2  | 6139.9  | 6130.6  | 6130.6  |
| 27.5° | 6311.2  | 6333.7  | 6366.9  | 6401.4  | 6401.4  | 6388.2  | 6414.7  | 6437.3  | 6429.3  | 6417.4  | 6401.4  |
| 30°   | 6636.5  | 6657.7  | 6696.2  | 6744.0  | 6720.1  | 6710.8  | 6746.7  | 6787.8  | 6775.9  | 6756.0  | 6753.3  |
| 32.5° | 6987.0  | 7006.9  | 7057.4  | 7109.2  | 7078.6  | 7065.4  | 7103.9  | 7163.6  | 7142.4  | 7102.5  | 7078.6  |
| 35°   | 7366.8  | 7386.7  | 7458.4  | 7520.8  | 7469.0  | 7446.4  | 7478.3  | 7543.4  | 7506.2  | 7431.8  | 7413.2  |
| 37.5° | 7779.7  | 7790.3  | 7883.3  | 7947.0  | 7911.2  | 7851.4  | 7891.3  | 7939.1  | 7907.2  | 7816.9  | 7781.1  |
| 40°   | 8208.6  | 8247.1  | 8354.7  | 8429.0  | 8366.6  | 8272.3  | 8338.7  | 8405.1  | 8357.3  | 8241.8  | 8180.7  |
| 42.5° | 8709.2  | 8738.4  | 8881.8  | 8948.2  | 8847.3  | 8714.5  | 8804.8  | 8895.1  | 8847.3  | 8735.8  | 8682.6  |
| 45°   | 9229.7  | 9274.9  | 9446.1  | 9512.5  | 9366.5  | 9197.8  | 9308.1  | 9466.1  | 9462.1  | 9301.4  | 9245.6  |
| 47.5° | 9796.7  | 9841.8  | 10046.3 | 10134.0 | 9975.9  | 9750.2  | 9905.6  | 10128.6 | 10112.7 | 9936.1  | 9891.0  |
| 50°   | 10451.3 | 10499.1 | 10754.1 | 10864.3 | 10716.9 | 10454.0 | 10687.7 | 10884.2 | 10855.0 | 10637.2 | 10641.2 |
| 52.5° | 11273.2 | 11270.6 | 11587.9 | 11779.1 | 11627.8 | 11395.4 | 11610.5 | 11801.7 | 11680.9 | 11379.5 | 11370.2 |
| 55°   | 11992.9 | 12036.7 | 12429.8 | 12792.3 | 12783.0 | 12694.0 | 12780.3 | 12788.3 | 12443.0 | 12042.0 | 11992.9 |
| 57.5° | 12465.6 | 12549.3 | 13103.0 | 13758.9 | 14250.2 | 14368.4 | 14201.1 | 13693.9 | 12885.2 | 12243.9 | 12165.5 |
| 60°   | 12174.8 | 12302.3 | 13172.0 | 14509.1 | 15956.5 | 16650.9 | 15706.8 | 14133.4 | 12541.3 | 11647.7 | 11541.5 |
| 62.5° | 10212.3 | 10427.4 | 11700.8 | 14146.6 | 17425.0 | 19455.3 | 16798.3 | 13428.3 | 11173.6 | 9942.8  | 9760.8  |
| 65°   | 6219.5  | 6446.6  | 7981.6  | 11643.7 | 17187.4 | 21675.4 | 16300.4 | 11145.8 | 8155.5  | 6624.5  | 6428.0  |
| 67.5° | 2072.7  | 2139.1  | 3043.4  | 6436.0  | 13508.0 | 19475.2 | 13530.5 | 6672.3  | 3549.3  | 2352.9  | 2283.9  |
| 70°   | 811.3   | 817.9   | 965.3   | 1865.6  | 6378.9  | 13376.5 | 7038.8  | 1898.8  | 1009.1  | 798.0   | 815.3   |
| 72.5° | 596.2   | 598.8   | 640.0   | 779.4   | 1662.4  | 5892.9  | 1722.2  | 783.4   | 622.7   | 559.0   | 559.0   |
| 75°   | 479.3   | 479.3   | 508.6   | 568.3   | 744.9   | 1351.7  | 755.5   | 561.7   | 487.3   | 446.1   | 440.8   |
| 77.5° | 378.4   | 386.4   | 409.0   | 447.5   | 504.6   | 650.6   | 523.2   | 444.8   | 393.0   | 354.5   | 346.6   |
| 80°   | 281.5   | 289.5   | 326.6   | 345.2   | 362.5   | 451.5   | 386.4   | 347.9   | 310.7   | 265.6   | 257.6   |
| 82.5° | 184.6   | 192.5   | 239.0   | 249.6   | 245.6   | 294.8   | 260.3   | 256.3   | 228.4   | 171.3   | 163.3   |
| 85°   | 120.8   | 123.5   | 159.3   | 166.0   | 152.7   | 134.1   | 166.0   | 175.3   | 159.3   | 111.5   | 107.6   |
| 87.5° | 57.1    | 57.1    | 81.0    | 75.7    | 69.0    | 55.8    | 75.7    | 89.0    | 90.3    | 54.4    | 53.1    |
| 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)