

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: P316922

Luminaire Tested: **GAN-SA8B-827-U-5NQ**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P316922  
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-SA8B-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 34728 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 334  
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

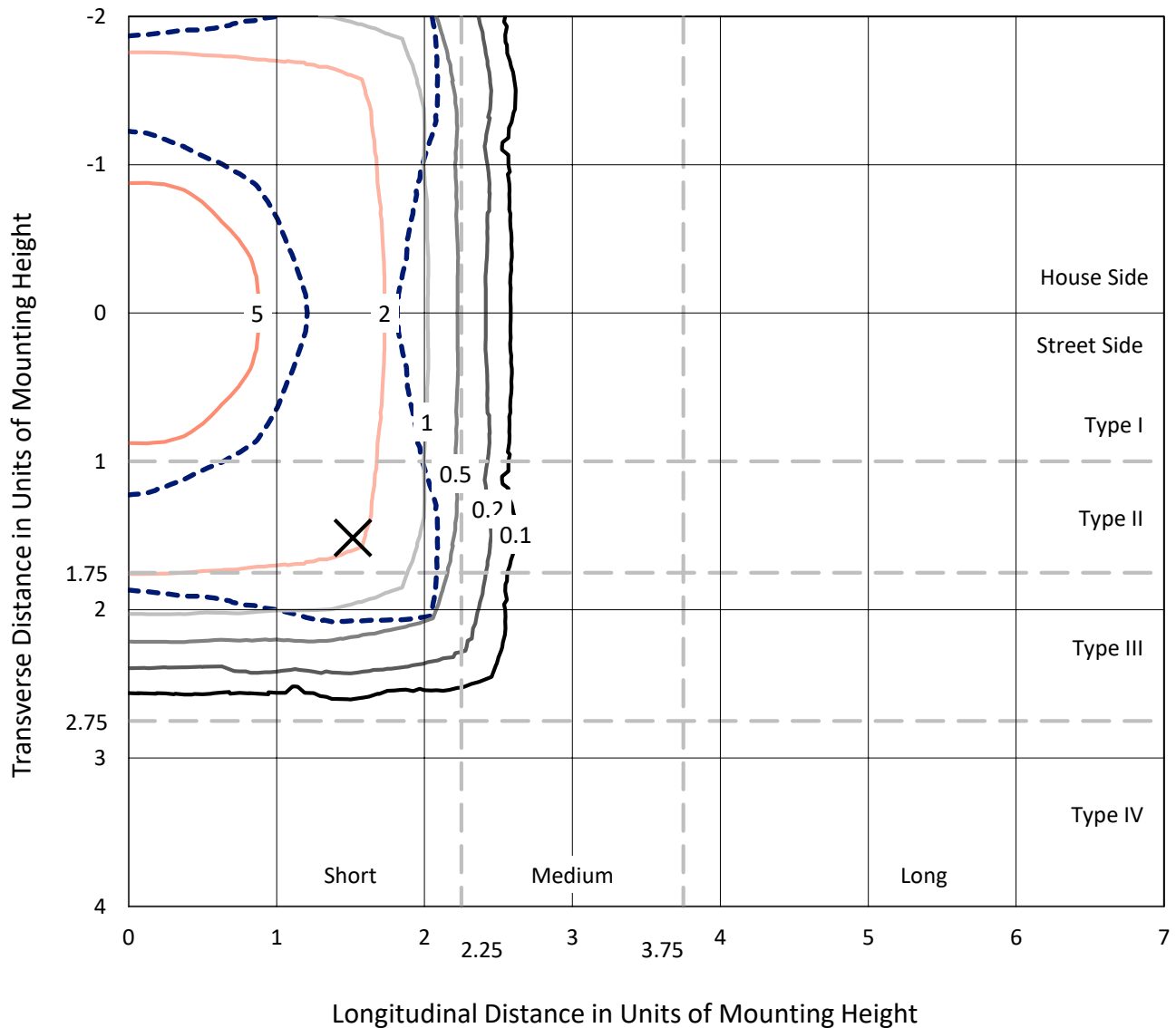


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## Iso-Footcandle Lines of Horizontal Illumination

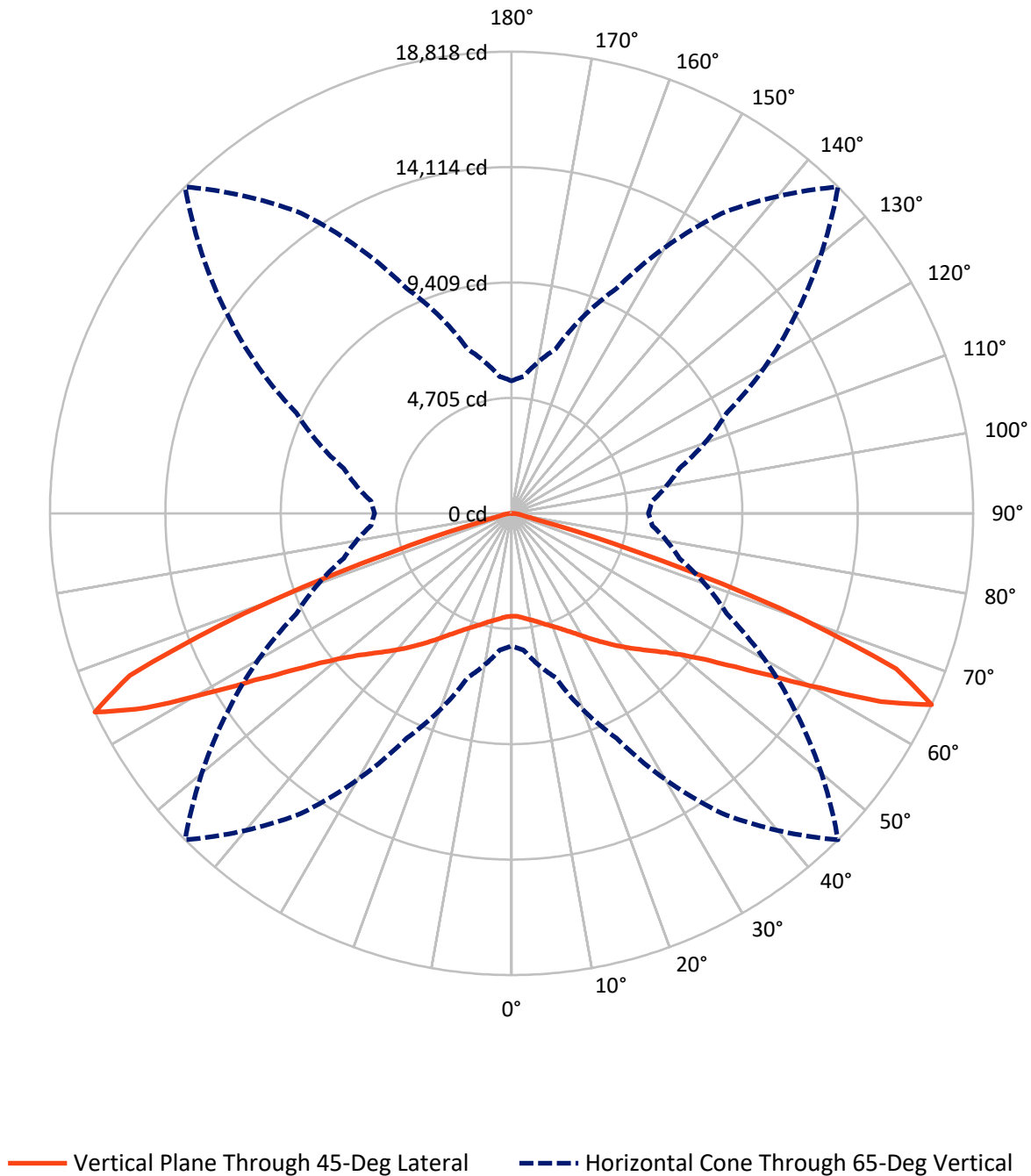
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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    | 17364.0  | 0.0    | 17364.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 17364.0  | 0.0    | 17364.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 34728.0  | 0.0    | 34728.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 411.5   | 1.2       |
| 10°-20°   | 1322.6  | 3.8       |
| 20°-30°   | 2481.4  | 7.1       |
| 30°-40°   | 4103.8  | 11.8      |
| 40°-50°   | 6356.2  | 18.3      |
| 50°-60°   | 9748.6  | 28.1      |
| 60°-70°   | 9096.5  | 26.2      |
| 70°-80°   | 1058.7  | 3.0       |
| 80°-90°   | 148.8   | 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°    | 34728.0 | 100.0     |
| 0°-180°   | 34728.0 | 100.0     |

**Coefficient of Utilization**



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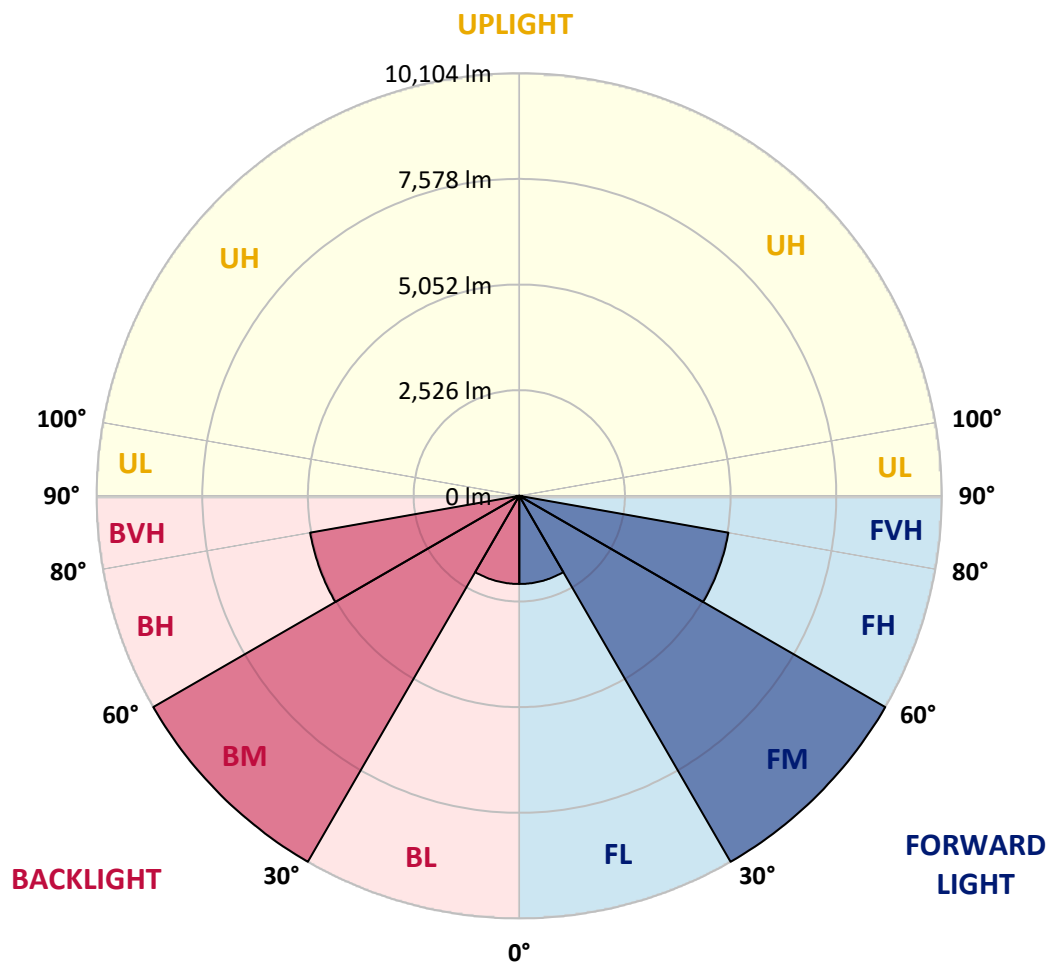
CATALOG NUMBER: GAN-SA8B-827-U-5NQ

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2107.7  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 10104.3 | 29.1      |                         |      |         |
| FH   | (60°-80°)   | 5077.6  | 14.6      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 74.4    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 2107.7  | 6.1       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 10104.3 | 29.1      | B5                      |      |         |
| BH   | (60°-80°)   | 5077.6  | 14.6      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 74.4    | 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°    | 4193.8  | 4193.8  | 4193.8  | 4193.8  | 4193.8  | 4193.8  | 4193.8  | 4193.8  | 4193.8  | 4193.8  | 4193.8  |
| 2.5°  | 4207.7  | 4205.4  | 4207.7  | 4208.8  | 4201.9  | 4205.4  | 4204.2  | 4210.0  | 4212.3  | 4210.0  | 4210.0  |
| 5°    | 4256.1  | 4252.6  | 4257.2  | 4263.0  | 4253.8  | 4256.1  | 4252.6  | 4259.6  | 4261.9  | 4257.2  | 4260.7  |
| 7.5°  | 4323.0  | 4324.1  | 4328.7  | 4339.1  | 4333.3  | 4337.9  | 4331.0  | 4332.2  | 4331.0  | 4324.1  | 4325.3  |
| 10°   | 4395.6  | 4396.7  | 4404.8  | 4418.6  | 4420.9  | 4420.9  | 4416.3  | 4412.9  | 4408.3  | 4403.7  | 4404.8  |
| 12.5° | 4483.2  | 4489.0  | 4494.7  | 4512.0  | 4512.0  | 4521.2  | 4518.9  | 4509.7  | 4501.6  | 4494.7  | 4494.7  |
| 15°   | 4601.9  | 4600.8  | 4607.7  | 4625.0  | 4633.1  | 4648.0  | 4648.0  | 4635.4  | 4625.0  | 4618.1  | 4615.8  |
| 17.5° | 4726.4  | 4729.9  | 4734.5  | 4755.3  | 4767.9  | 4785.2  | 4787.5  | 4777.2  | 4770.2  | 4761.0  | 4755.3  |
| 20°   | 4871.7  | 4877.4  | 4895.9  | 4904.0  | 4915.5  | 4931.6  | 4937.4  | 4935.1  | 4928.2  | 4923.6  | 4924.7  |
| 22.5° | 5041.1  | 5056.1  | 5067.7  | 5079.2  | 5093.0  | 5104.5  | 5110.3  | 5118.4  | 5111.5  | 5108.0  | 5105.7  |
| 25°   | 5246.3  | 5256.7  | 5279.8  | 5300.5  | 5309.7  | 5313.2  | 5320.1  | 5331.6  | 5330.5  | 5322.4  | 5322.4  |
| 27.5° | 5479.2  | 5498.8  | 5527.6  | 5557.6  | 5557.6  | 5546.1  | 5569.1  | 5588.7  | 5581.8  | 5571.4  | 5557.6  |
| 30°   | 5761.6  | 5780.1  | 5813.5  | 5855.0  | 5834.3  | 5826.2  | 5857.3  | 5893.1  | 5882.7  | 5865.4  | 5863.1  |
| 32.5° | 6066.0  | 6083.3  | 6127.1  | 6172.0  | 6145.5  | 6134.0  | 6167.4  | 6219.3  | 6200.9  | 6166.3  | 6145.5  |
| 35°   | 6395.7  | 6413.0  | 6475.2  | 6529.4  | 6484.4  | 6464.8  | 6492.5  | 6549.0  | 6516.7  | 6452.2  | 6436.0  |
| 37.5° | 6754.2  | 6763.4  | 6844.1  | 6899.4  | 6868.3  | 6816.4  | 6851.0  | 6892.5  | 6864.9  | 6786.5  | 6755.3  |
| 40°   | 7126.5  | 7160.0  | 7253.3  | 7317.9  | 7263.7  | 7181.9  | 7239.5  | 7297.2  | 7255.7  | 7155.4  | 7102.3  |
| 42.5° | 7561.1  | 7586.5  | 7711.0  | 7768.6  | 7681.0  | 7565.8  | 7644.1  | 7722.5  | 7681.0  | 7584.2  | 7538.1  |
| 45°   | 8013.0  | 8052.2  | 8200.9  | 8258.6  | 8131.8  | 7985.4  | 8081.0  | 8218.2  | 8214.8  | 8075.3  | 8026.9  |
| 47.5° | 8505.3  | 8544.5  | 8722.0  | 8798.1  | 8660.9  | 8464.9  | 8599.8  | 8793.5  | 8779.6  | 8626.3  | 8587.1  |
| 50°   | 9073.6  | 9115.1  | 9336.4  | 9432.1  | 9304.2  | 9075.9  | 9278.8  | 9449.4  | 9424.0  | 9235.0  | 9238.4  |
| 52.5° | 9787.2  | 9784.9  | 10060.4 | 10226.4 | 10095.0 | 9893.2  | 10080.0 | 10246.0 | 10141.1 | 9879.4  | 9871.3  |
| 55°   | 10412.0 | 10450.0 | 10791.3 | 11106.0 | 11097.9 | 11020.7 | 11095.6 | 11102.5 | 10802.8 | 10454.6 | 10412.0 |
| 57.5° | 10822.4 | 10895.0 | 11375.7 | 11945.2 | 12371.7 | 12474.3 | 12329.1 | 11888.7 | 11186.7 | 10629.9 | 10561.9 |
| 60°   | 10569.9 | 10680.6 | 11435.7 | 12596.5 | 13853.1 | 14456.0 | 13636.3 | 12270.3 | 10888.1 | 10112.3 | 10020.0 |
| 62.5° | 8866.1  | 9052.9  | 10158.4 | 12281.8 | 15128.0 | 16890.7 | 14583.9 | 11658.2 | 9700.7  | 8632.1  | 8474.2  |
| 65°   | 5399.7  | 5596.8  | 6929.4  | 10108.8 | 14921.7 | 18818.1 | 14151.6 | 9676.5  | 7080.4  | 5751.3  | 5580.7  |
| 67.5° | 1799.5  | 1857.1  | 2642.2  | 5587.6  | 11727.3 | 16908.0 | 11746.9 | 5792.8  | 3081.4  | 2042.7  | 1982.8  |
| 70°   | 704.4   | 710.1   | 838.1   | 1619.7  | 5538.0  | 11613.2 | 6110.9  | 1648.5  | 876.1   | 692.8   | 707.8   |
| 72.5° | 517.6   | 519.9   | 555.6   | 676.7   | 1443.3  | 5116.1  | 1495.2  | 680.1   | 540.7   | 485.3   | 485.3   |
| 75°   | 416.2   | 416.2   | 441.5   | 493.4   | 646.7   | 1173.5  | 655.9   | 487.6   | 423.1   | 387.3   | 382.7   |
| 77.5° | 328.5   | 335.5   | 355.1   | 388.5   | 438.1   | 564.9   | 454.2   | 386.2   | 341.2   | 307.8   | 300.9   |
| 80°   | 244.4   | 251.3   | 283.6   | 299.7   | 314.7   | 391.9   | 335.5   | 302.0   | 269.8   | 230.6   | 223.6   |
| 82.5° | 160.2   | 167.2   | 207.5   | 216.7   | 213.3   | 255.9   | 225.9   | 222.5   | 198.3   | 148.7   | 141.8   |
| 85°   | 104.9   | 107.2   | 138.3   | 144.1   | 132.6   | 116.4   | 144.1   | 152.2   | 138.3   | 96.8    | 93.4    |
| 87.5° | 49.6    | 49.6    | 70.3    | 65.7    | 59.9    | 48.4    | 65.7    | 77.2    | 78.4    | 47.3    | 46.1    |
| 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)