

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: P316913

Luminaire Tested: **GAN-SA9A-827-U-5NQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316913  
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-SA9A-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31592 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

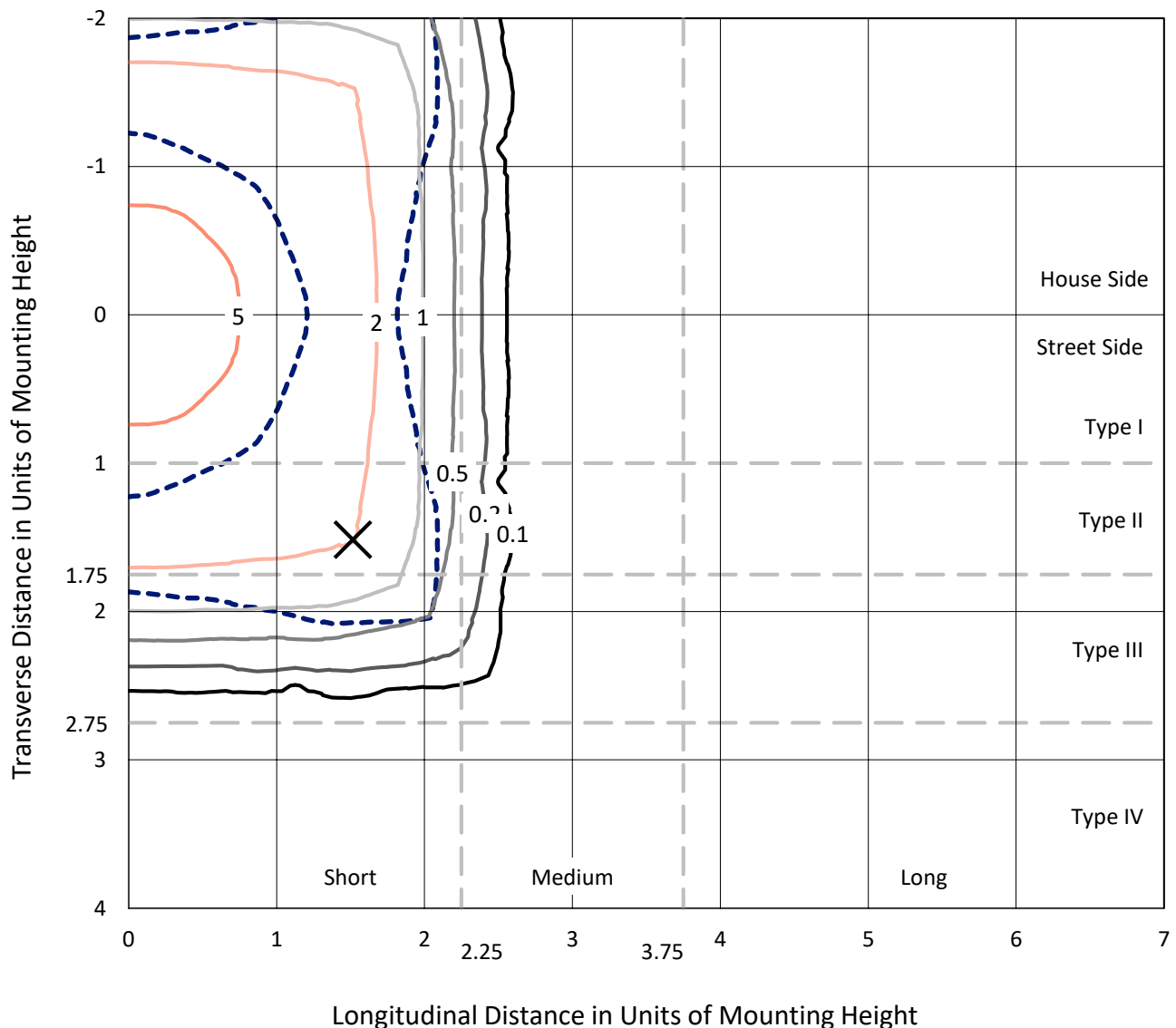
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

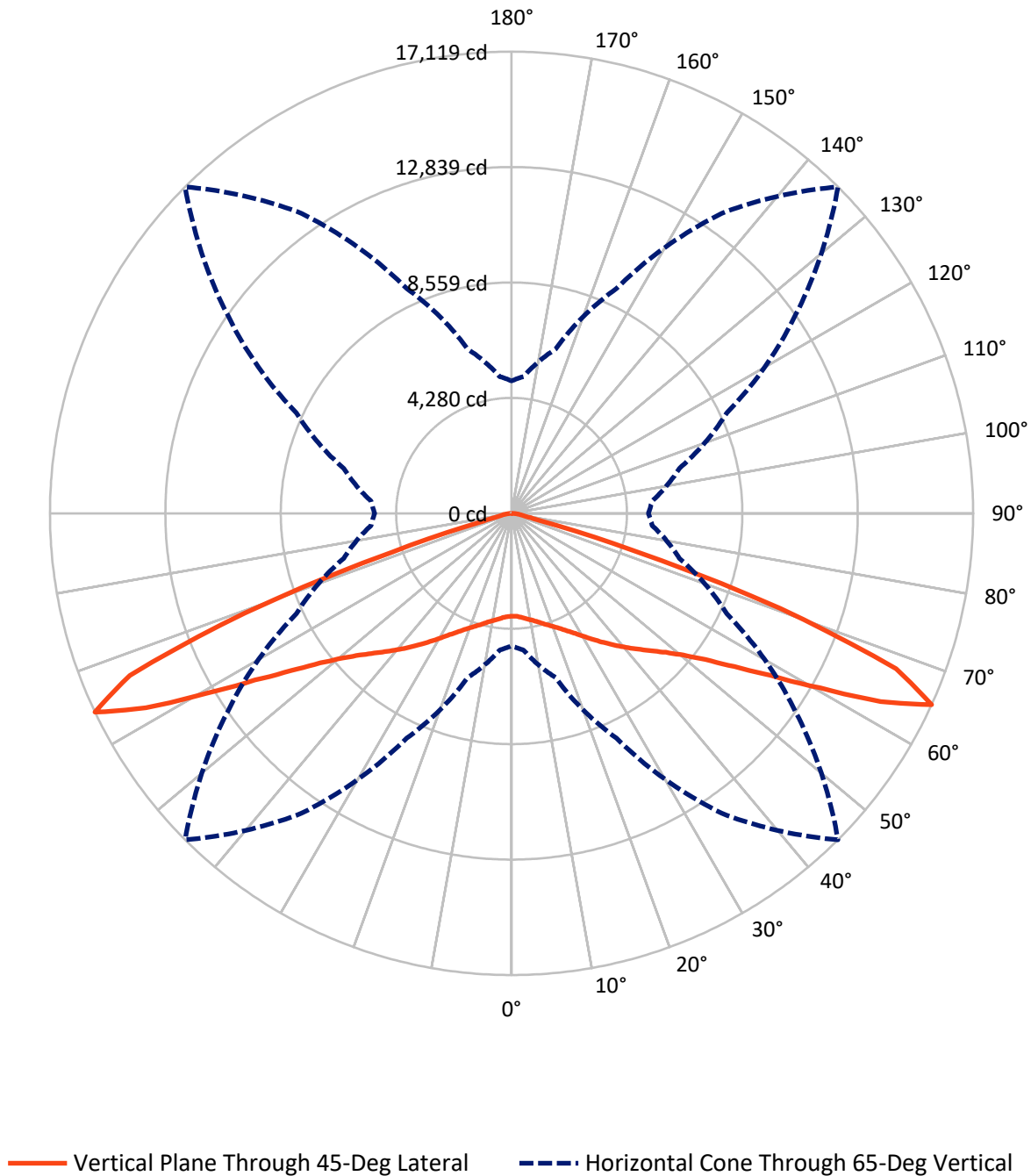
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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    | 15796.0  | 0.0    | 15796.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 15796.0  | 0.0    | 15796.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 31592.0  | 0.0    | 31592.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 374.3   | 1.2       |
| 10°-20°   | 1203.2  | 3.8       |
| 20°-30°   | 2257.3  | 7.1       |
| 30°-40°   | 3733.2  | 11.8      |
| 40°-50°   | 5782.2  | 18.3      |
| 50°-60°   | 8868.3  | 28.1      |
| 60°-70°   | 8275.1  | 26.2      |
| 70°-80°   | 963.1   | 3.0       |
| 80°-90°   | 135.3   | 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°    | 31592.0 | 100.0     |
| 0°-180°   | 31592.0 | 100.0     |

**Coefficient of Utilization**



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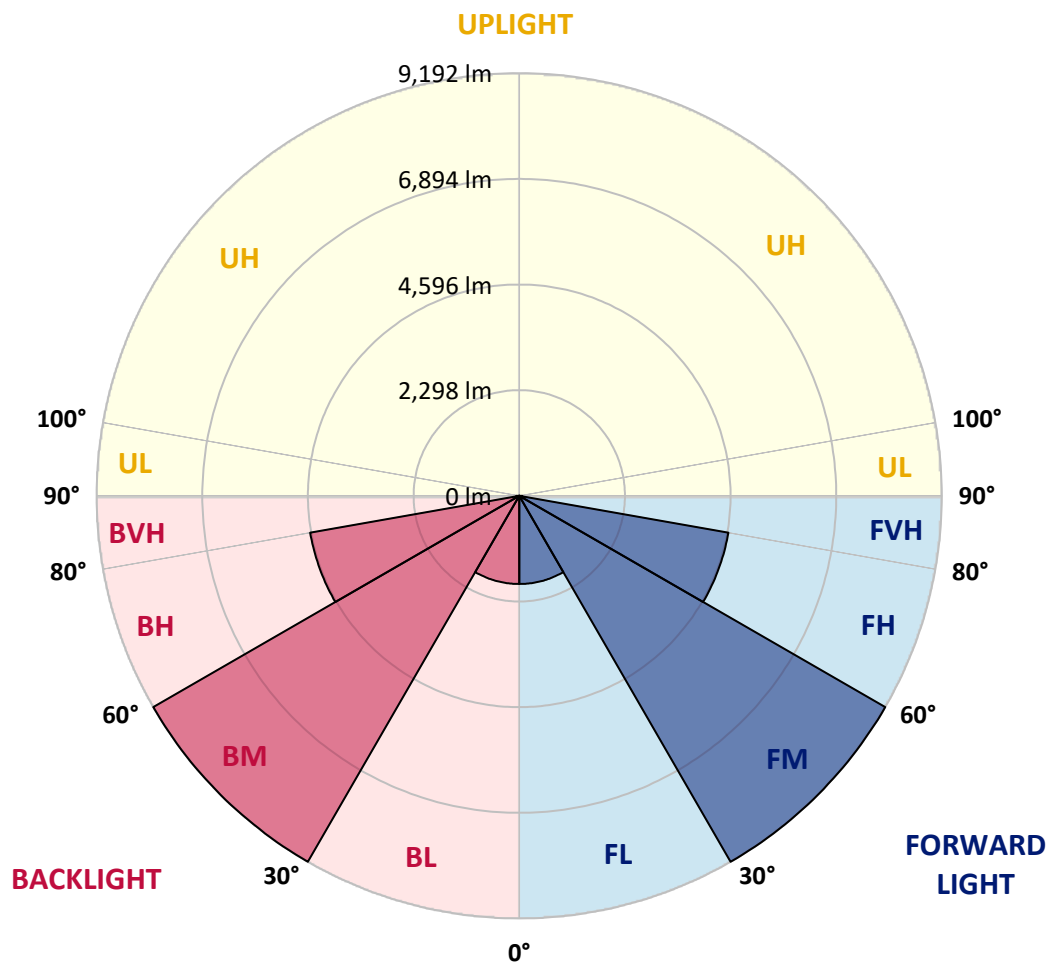
CATALOG NUMBER: GAN-SA9A-827-U-5NQ

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1917.4 | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 9191.8 | 29.1      |                         |      |         |
| FH   | (60°-80°)   | 4619.1 | 14.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 67.7   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1917.4 | 6.1       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 9191.8 | 29.1      | B5                      |      |         |
| BH   | (60°-80°)   | 4619.1 | 14.6      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 67.7   | 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-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°    | 90°    |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0°    | 3815.1 | 3815.1 | 3815.1  | 3815.1  | 3815.1  | 3815.1  | 3815.1  | 3815.1  | 3815.1  | 3815.1 | 3815.1 |
| 2.5°  | 3827.7 | 3825.6 | 3827.7  | 3828.8  | 3822.5  | 3825.6  | 3824.6  | 3829.8  | 3831.9  | 3829.8 | 3829.8 |
| 5°    | 3871.8 | 3868.6 | 3872.8  | 3878.1  | 3869.7  | 3871.8  | 3868.6  | 3874.9  | 3877.0  | 3872.8 | 3876.0 |
| 7.5°  | 3932.6 | 3933.6 | 3937.8  | 3947.3  | 3942.0  | 3946.2  | 3939.9  | 3941.0  | 3939.9  | 3933.6 | 3934.7 |
| 10°   | 3998.7 | 3999.7 | 4007.0  | 4019.6  | 4021.7  | 4021.7  | 4017.5  | 4014.4  | 4010.2  | 4006.0 | 4007.0 |
| 12.5° | 4078.4 | 4083.6 | 4088.8  | 4104.6  | 4104.6  | 4113.0  | 4110.9  | 4102.5  | 4095.1  | 4088.8 | 4088.8 |
| 15°   | 4186.4 | 4185.3 | 4191.6  | 4207.3  | 4214.7  | 4228.3  | 4228.3  | 4216.8  | 4207.3  | 4201.1 | 4199.0 |
| 17.5° | 4299.6 | 4302.8 | 4307.0  | 4325.8  | 4337.4  | 4353.1  | 4355.2  | 4345.8  | 4339.5  | 4331.1 | 4325.8 |
| 20°   | 4431.8 | 4437.0 | 4453.8  | 4461.1  | 4471.6  | 4486.3  | 4491.5  | 4489.4  | 4483.1  | 4479.0 | 4480.0 |
| 22.5° | 4585.9 | 4599.6 | 4610.0  | 4620.5  | 4633.1  | 4643.6  | 4648.8  | 4656.2  | 4649.9  | 4646.7 | 4644.6 |
| 25°   | 4772.6 | 4782.0 | 4803.0  | 4821.9  | 4830.3  | 4833.4  | 4839.7  | 4850.2  | 4849.1  | 4841.8 | 4841.8 |
| 27.5° | 4984.4 | 5002.3 | 5028.5  | 5055.7  | 5055.7  | 5045.2  | 5066.2  | 5084.0  | 5077.8  | 5068.3 | 5055.7 |
| 30°   | 5241.4 | 5258.1 | 5288.5  | 5326.3  | 5307.4  | 5300.1  | 5328.4  | 5360.9  | 5351.5  | 5335.7 | 5333.6 |
| 32.5° | 5518.2 | 5533.9 | 5573.8  | 5614.7  | 5590.6  | 5580.1  | 5610.5  | 5657.7  | 5640.9  | 5609.4 | 5590.6 |
| 35°   | 5818.1 | 5833.9 | 5890.5  | 5939.8  | 5898.9  | 5881.1  | 5906.2  | 5957.6  | 5928.2  | 5869.5 | 5854.8 |
| 37.5° | 6144.3 | 6152.7 | 6226.1  | 6276.4  | 6248.1  | 6200.9  | 6232.4  | 6270.1  | 6244.9  | 6173.6 | 6145.3 |
| 40°   | 6483.0 | 6513.4 | 6598.4  | 6657.1  | 6607.8  | 6533.3  | 6585.8  | 6638.2  | 6600.5  | 6509.2 | 6461.0 |
| 42.5° | 6878.4 | 6901.4 | 7014.7  | 7067.1  | 6987.4  | 6882.6  | 6953.9  | 7025.2  | 6987.4  | 6899.3 | 6857.4 |
| 45°   | 7289.4 | 7325.1 | 7460.4  | 7512.8  | 7397.5  | 7264.3  | 7351.3  | 7476.1  | 7473.0  | 7346.1 | 7302.0 |
| 47.5° | 7737.2 | 7772.9 | 7934.4  | 8003.6  | 7878.8  | 7700.5  | 7823.2  | 7999.4  | 7986.8  | 7847.3 | 7811.7 |
| 50°   | 8254.2 | 8292.0 | 8493.3  | 8580.4  | 8464.0  | 8256.3  | 8440.9  | 8596.1  | 8573.0  | 8401.1 | 8404.2 |
| 52.5° | 8903.4 | 8901.3 | 9151.9  | 9302.9  | 9183.4  | 8999.9  | 9169.7  | 9320.8  | 9225.3  | 8987.3 | 8979.9 |
| 55°   | 9471.8 | 9506.4 | 9816.8  | 10103.1 | 10095.7 | 10025.5 | 10093.6 | 10099.9 | 9827.3  | 9510.6 | 9471.8 |
| 57.5° | 9845.1 | 9911.2 | 10348.5 | 10866.5 | 11254.5 | 11347.9 | 11215.7 | 10815.1 | 10176.5 | 9670.0 | 9608.1 |
| 60°   | 9615.4 | 9716.1 | 10403.0 | 11459.0 | 12602.1 | 13150.6 | 12405.0 | 11162.3 | 9904.9  | 9199.1 | 9115.2 |
| 62.5° | 8065.5 | 8235.4 | 9241.1  | 11172.7 | 13762.0 | 15365.4 | 13267.0 | 10605.4 | 8824.7  | 7852.6 | 7708.9 |
| 65°   | 4912.1 | 5091.4 | 6303.7  | 9196.0  | 13574.2 | 17118.8 | 12873.7 | 8802.7  | 6441.1  | 5231.9 | 5076.7 |
| 67.5° | 1637.0 | 1689.4 | 2403.6  | 5083.0  | 10668.3 | 15381.1 | 10686.2 | 5269.7  | 2803.1  | 1858.3 | 1803.7 |
| 70°   | 640.7  | 646.0  | 762.4   | 1473.4  | 5037.9  | 10564.5 | 5559.1  | 1499.6  | 797.0   | 630.3  | 643.9  |
| 72.5° | 470.9  | 473.0  | 505.5   | 615.6   | 1313.0  | 4654.1  | 1360.2  | 618.7   | 491.8   | 441.5  | 441.5  |
| 75°   | 378.6  | 378.6  | 401.6   | 448.8   | 588.3   | 1067.6  | 596.7   | 443.6   | 384.9   | 352.4  | 348.2  |
| 77.5° | 298.9  | 305.2  | 323.0   | 353.4   | 398.5   | 513.9   | 413.2   | 351.3   | 310.4   | 280.0  | 273.7  |
| 80°   | 222.3  | 228.6  | 258.0   | 272.7   | 286.3   | 356.6   | 305.2   | 274.8   | 245.4   | 209.7  | 203.4  |
| 82.5° | 145.8  | 152.1  | 188.8   | 197.2   | 194.0   | 232.8   | 205.5   | 202.4   | 180.4   | 135.3  | 129.0  |
| 85°   | 95.4   | 97.5   | 125.8   | 131.1   | 120.6   | 105.9   | 131.1   | 138.4   | 125.8   | 88.1   | 84.9   |
| 87.5° | 45.1   | 45.1   | 64.0    | 59.8    | 54.5    | 44.0    | 59.8    | 70.3    | 71.3    | 43.0   | 41.9   |
| 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)