

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: P383191

Luminaire Tested: **GAN-SA5B-735-U-RW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383191  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5B-735-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27197.5 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

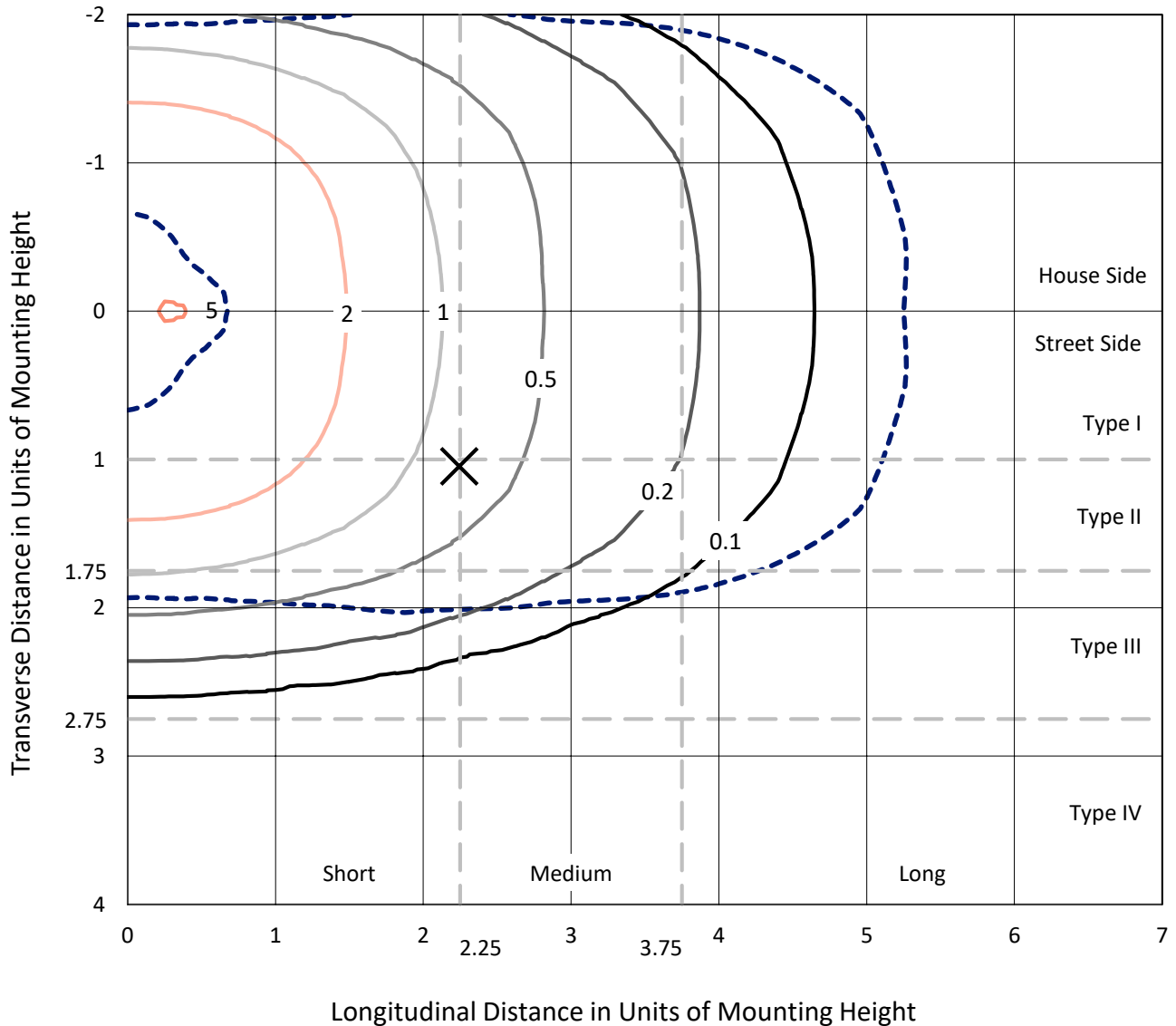
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

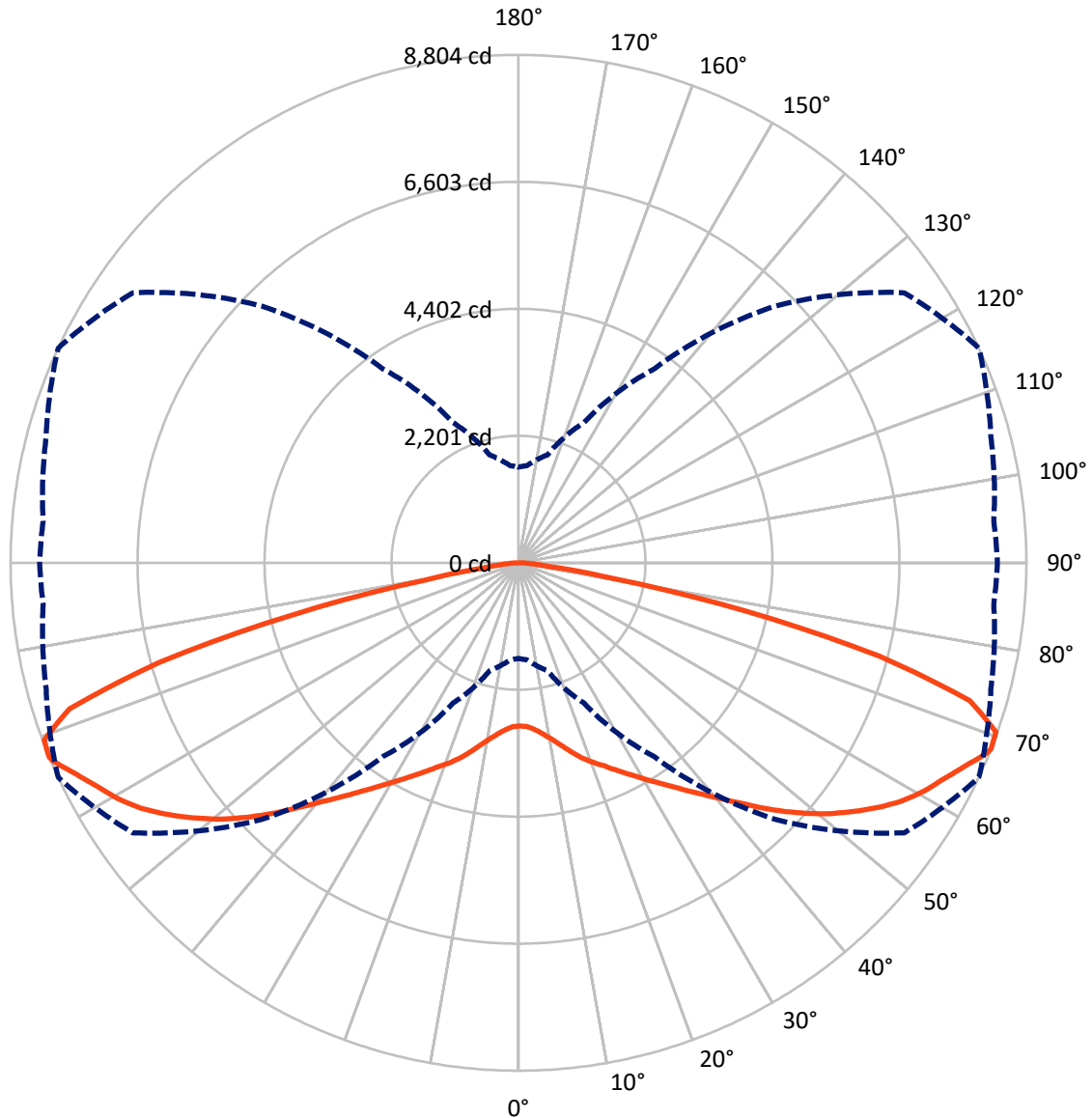
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 13598.7  | 0.0    | 13598.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 13598.7  | 0.0    | 13598.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 27197.5  | 0.0    | 27197.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 276.9   | 1.0       |
| 10°-20°   | 927.1   | 3.4       |
| 20°-30°   | 1807.6  | 6.6       |
| 30°-40°   | 3036.6  | 11.2      |
| 40°-50°   | 4784.6  | 17.6      |
| 50°-60°   | 6398.6  | 23.5      |
| 60°-70°   | 6220.2  | 22.9      |
| 70°-80°   | 3400.3  | 12.5      |
| 80°-90°   | 345.8   | 1.3       |
| 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°    | 27197.5 | 100.0     |
| 0°-180°   | 27197.5 | 100.0     |

**Coefficient of Utilization**

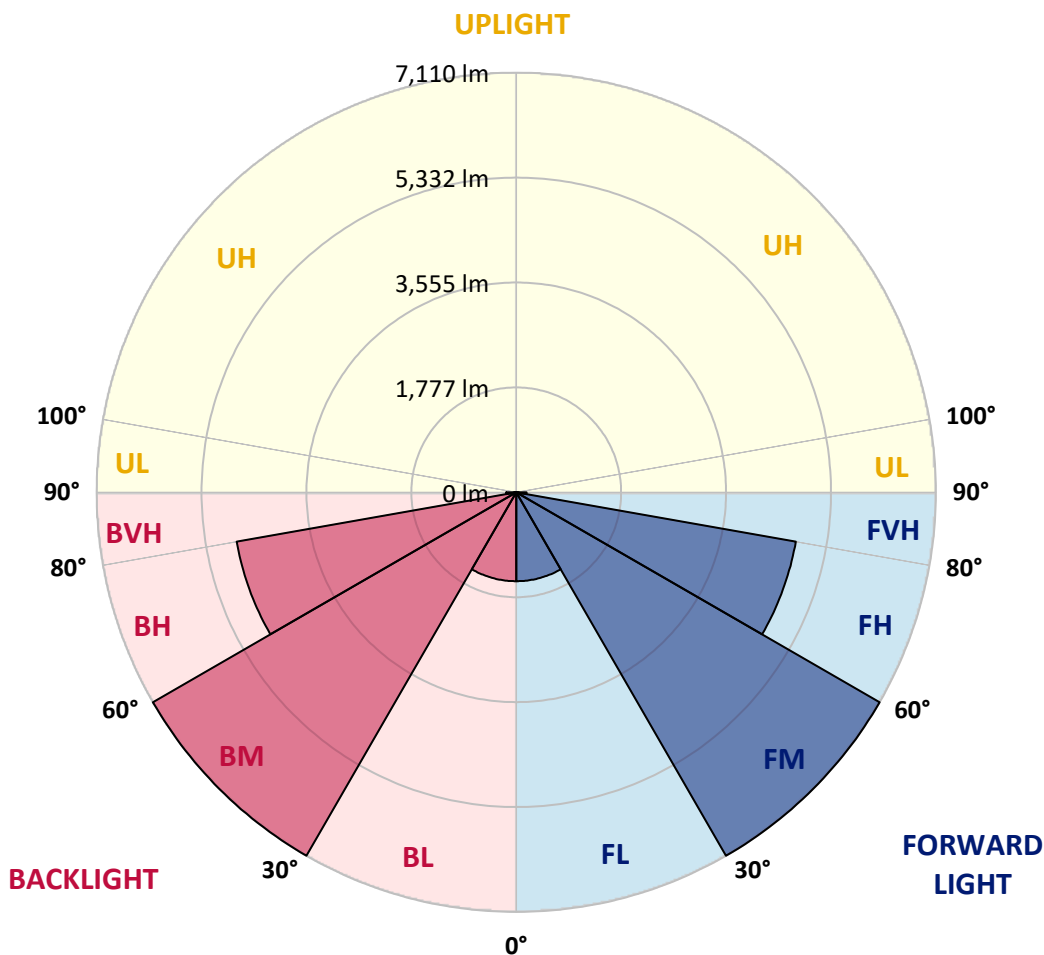


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1505.8 | 5.5       |                         |      |         |
| FM (30°-60°)   | 7109.8 | 26.1      |                         |      |         |
| FH (60°-80°)   | 4810.2 | 17.7      |                         |      | G2/5000 |
| FVH (80°-90°)  | 172.9  | 0.6       |                         |      | G2/225  |
| BL (0°-30°)    | 1505.8 | 5.5       | B3/2500                 |      |         |
| BM (30°-60°)   | 7109.8 | 26.1      | B4/8500                 |      |         |
| BH (60°-80°)   | 4810.2 | 17.7      | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 172.9  | 0.6       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2827.9 | 2827.9 | 2827.9 | 2827.9 | 2827.9 | 2827.9 | 2827.9 | 2827.9 | 2827.9 | 2827.9 | 2827.9 |
| 2.5°  | 2807.9 | 2808.7 | 2813.3 | 2818.8 | 2823.3 | 2835.2 | 2838.0 | 2842.5 | 2844.3 | 2848.9 | 2848.9 |
| 5°    | 2783.2 | 2785.0 | 2795.9 | 2810.6 | 2827.0 | 2856.1 | 2877.2 | 2900.8 | 2912.7 | 2925.4 | 2924.6 |
| 7.5°  | 2780.5 | 2785.0 | 2800.5 | 2824.3 | 2851.6 | 2899.9 | 2943.7 | 2991.1 | 3023.1 | 3052.2 | 3050.4 |
| 10°   | 2808.7 | 2816.1 | 2838.0 | 2873.5 | 2914.5 | 2974.7 | 3039.5 | 3103.3 | 3159.0 | 3203.6 | 3205.5 |
| 12.5° | 2851.6 | 2860.7 | 2895.3 | 2949.2 | 3011.2 | 3088.7 | 3165.3 | 3237.3 | 3314.0 | 3380.5 | 3386.0 |
| 15°   | 2908.1 | 2920.0 | 2972.0 | 3052.2 | 3147.0 | 3239.2 | 3321.2 | 3395.1 | 3483.6 | 3575.7 | 3584.8 |
| 17.5° | 2992.0 | 3008.4 | 3076.8 | 3185.3 | 3310.3 | 3411.5 | 3497.2 | 3552.9 | 3626.7 | 3721.6 | 3739.0 |
| 20°   | 3119.8 | 3140.7 | 3227.3 | 3356.8 | 3509.1 | 3614.9 | 3680.5 | 3692.4 | 3728.9 | 3813.7 | 3833.8 |
| 22.5° | 3285.7 | 3303.9 | 3400.6 | 3554.7 | 3725.3 | 3840.1 | 3874.8 | 3827.4 | 3823.7 | 3892.1 | 3911.3 |
| 25°   | 3470.9 | 3487.2 | 3599.4 | 3772.7 | 3955.9 | 4082.7 | 4081.8 | 3989.7 | 3925.8 | 3978.7 | 3998.9 |
| 27.5° | 3678.7 | 3704.3 | 3811.9 | 3994.3 | 4190.3 | 4315.3 | 4307.9 | 4165.7 | 4044.4 | 4058.1 | 4075.4 |
| 30°   | 3917.6 | 3945.9 | 4050.8 | 4235.9 | 4432.0 | 4554.1 | 4545.0 | 4357.2 | 4174.8 | 4138.3 | 4151.1 |
| 32.5° | 4214.0 | 4247.8 | 4347.2 | 4529.6 | 4702.8 | 4813.2 | 4786.8 | 4565.1 | 4331.7 | 4252.3 | 4264.2 |
| 35°   | 4570.6 | 4590.7 | 4695.6 | 4875.2 | 5015.6 | 5091.3 | 5035.7 | 4805.9 | 4530.5 | 4434.7 | 4434.7 |
| 37.5° | 4931.7 | 4947.3 | 5064.8 | 5239.0 | 5374.9 | 5415.1 | 5306.6 | 5069.4 | 4790.4 | 4654.5 | 4657.3 |
| 40°   | 5278.2 | 5320.2 | 5452.4 | 5631.2 | 5765.3 | 5776.2 | 5632.0 | 5370.4 | 5079.4 | 4939.0 | 4955.5 |
| 42.5° | 5640.3 | 5681.3 | 5839.1 | 6041.6 | 6160.0 | 6178.3 | 6009.6 | 5707.8 | 5406.0 | 5291.9 | 5310.2 |
| 45°   | 5963.1 | 5995.9 | 6178.3 | 6413.6 | 6561.4 | 6608.8 | 6409.0 | 6094.5 | 5758.8 | 5647.6 | 5652.2 |
| 47.5° | 6188.4 | 6231.2 | 6431.9 | 6709.1 | 6924.3 | 6997.2 | 6801.1 | 6471.1 | 6106.3 | 5971.3 | 5983.1 |
| 50°   | 6392.7 | 6415.5 | 6618.8 | 6921.6 | 7195.1 | 7345.6 | 7177.8 | 6843.1 | 6457.4 | 6314.2 | 6327.0 |
| 52.5° | 6506.6 | 6535.8 | 6732.8 | 7048.3 | 7372.1 | 7614.7 | 7512.5 | 7177.8 | 6796.6 | 6657.1 | 6672.6 |
| 55°   | 6427.3 | 6449.2 | 6685.3 | 7076.6 | 7481.4 | 7780.6 | 7796.1 | 7505.2 | 7129.5 | 7007.3 | 7051.1 |
| 57.5° | 6066.1 | 6093.5 | 6381.7 | 6894.2 | 7495.1 | 7892.7 | 8009.4 | 7808.9 | 7440.5 | 7341.1 | 7366.6 |
| 60°   | 5501.7 | 5519.0 | 5826.4 | 6402.6 | 7228.9 | 7939.3 | 8145.4 | 8056.9 | 7745.0 | 7645.6 | 7680.2 |
| 62.5° | 4495.8 | 4521.4 | 4888.9 | 5661.3 | 6666.2 | 7801.5 | 8276.7 | 8262.1 | 8028.6 | 7937.4 | 7968.5 |
| 65°   | 3073.2 | 3117.9 | 3524.6 | 4501.3 | 5799.0 | 7380.3 | 8396.1 | 8501.0 | 8279.4 | 8164.5 | 8205.5 |
| 67.5° | 1855.7 | 1888.6 | 2183.2 | 2972.0 | 4437.4 | 6530.3 | 8273.1 | 8772.8 | 8456.3 | 8271.2 | 8304.9 |
| 68°   | 1658.8 | 1688.9 | 1935.1 | 2682.0 | 4104.6 | 6290.5 | 8160.8 | 8803.8 | 8475.5 | 8269.3 | 8299.4 |
| 70°   | 1002.3 | 1022.3 | 1187.4 | 1657.9 | 2736.7 | 4990.1 | 7395.7 | 8778.3 | 8597.7 | 8295.0 | 8312.3 |
| 72.5° | 652.9  | 659.3  | 686.6  | 850.9  | 1398.0 | 2790.5 | 5550.9 | 8180.0 | 8781.0 | 8443.5 | 8440.8 |
| 75°   | 542.6  | 539.0  | 541.7  | 560.8  | 689.4  | 1223.8 | 3243.7 | 6462.0 | 8370.6 | 8209.2 | 8151.8 |
| 77.5° | 458.7  | 456.0  | 455.1  | 456.0  | 461.4  | 591.0  | 1408.0 | 4025.2 | 6405.4 | 7261.7 | 7312.7 |
| 80°   | 371.1  | 367.5  | 379.3  | 373.9  | 357.4  | 367.5  | 590.0  | 1674.3 | 3019.4 | 3248.3 | 3044.0 |
| 82.5° | 270.0  | 256.3  | 307.3  | 292.7  | 279.1  | 259.0  | 325.6  | 540.8  | 720.5  | 494.3  | 347.5  |
| 85°   | 207.9  | 193.3  | 233.4  | 224.3  | 191.5  | 132.2  | 193.3  | 264.5  | 291.9  | 166.8  | 131.3  |
| 87.5° | 84.8   | 89.3   | 168.7  | 133.1  | 112.2  | 63.8   | 79.4   | 105.8  | 142.2  | 71.2   | 54.7   |
| 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)