

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: McGRAW-EDISON

Report Number: P455908

Luminaire Tested: **GALN-SA7A-827-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455908  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7A-827-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24158 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

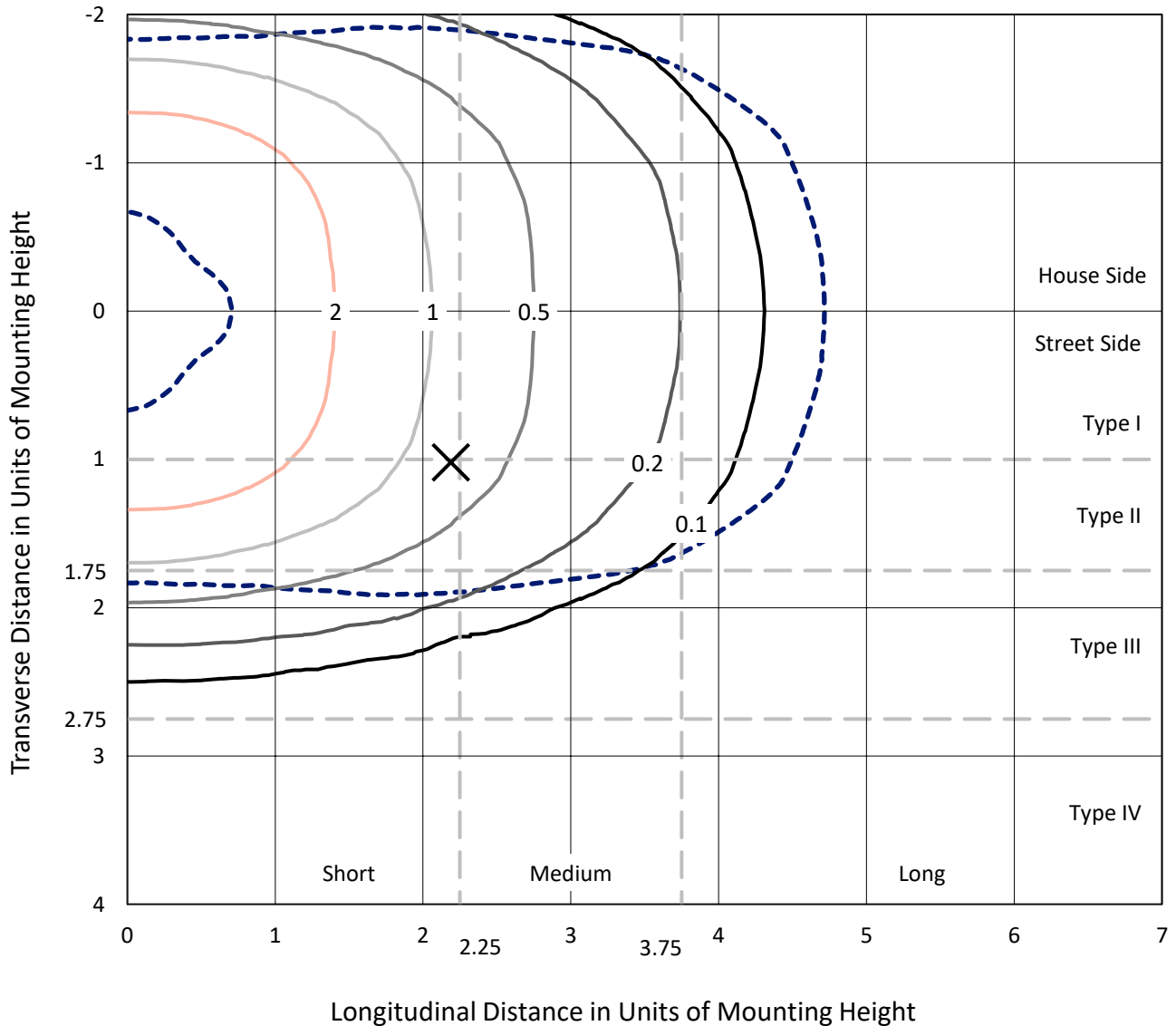
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

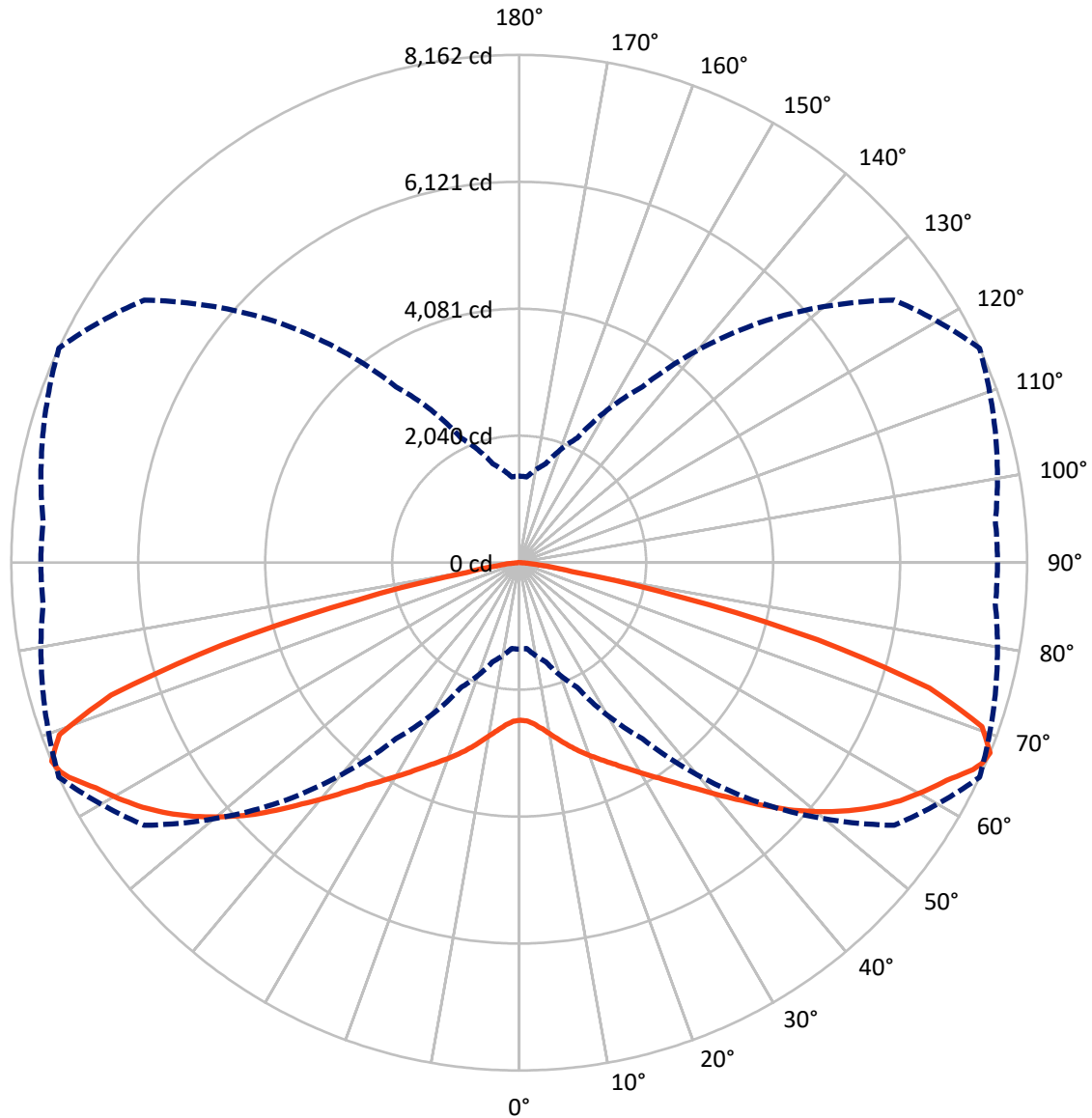
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12079.0  | 0.0    | 12079.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 12079.0  | 0.0    | 12079.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 24158.0  | 0.0    | 24158.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 249.6   | 1.0       |
| 10°-20°   | 835.3   | 3.5       |
| 20°-30°   | 1633.8  | 6.8       |
| 30°-40°   | 2778.9  | 11.5      |
| 40°-50°   | 4398.2  | 18.2      |
| 50°-60°   | 5831.9  | 24.1      |
| 60°-70°   | 5501.3  | 22.8      |
| 70°-80°   | 2719.6  | 11.3      |
| 80°-90°   | 209.6   | 0.9       |
| 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°    | 24158.0 | 100.0     |
| 0°-180°   | 24158.0 | 100.0     |

**Coefficient of Utilization**



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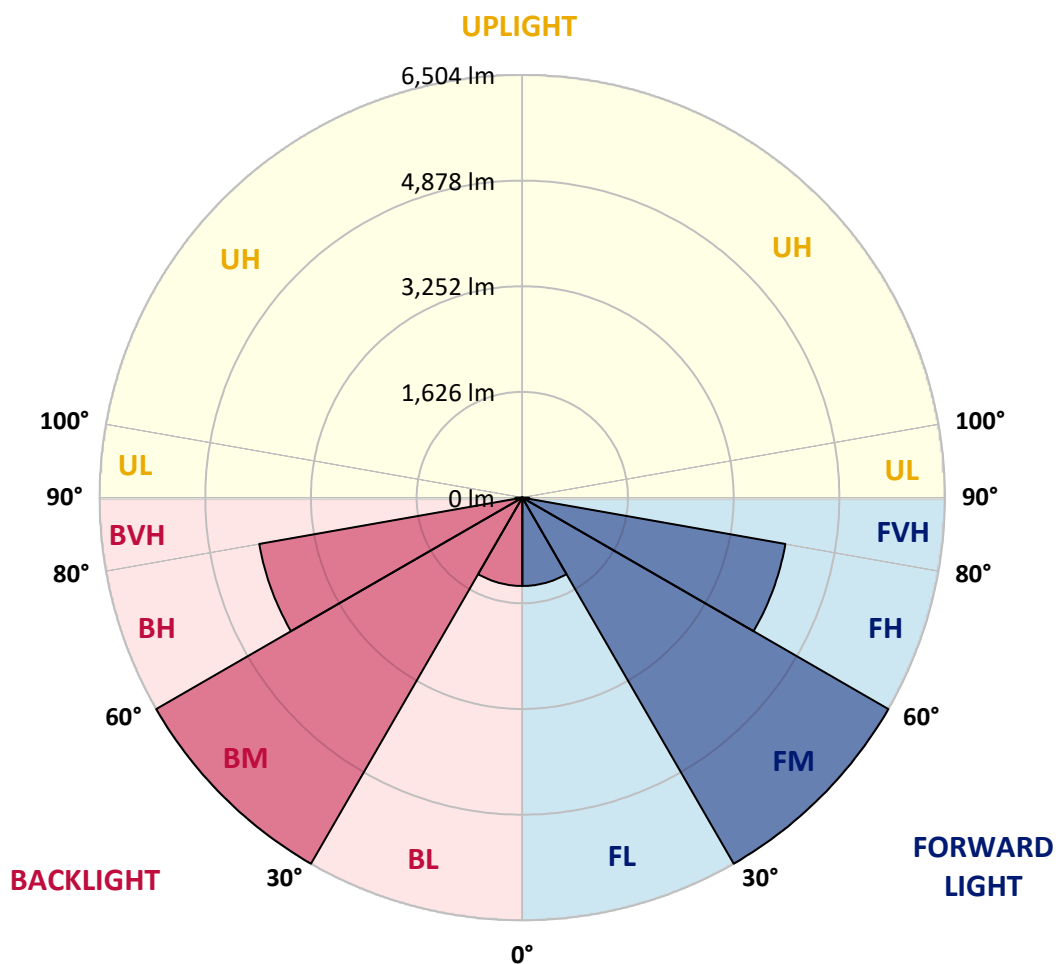
CATALOG NUMBER: GALN-SA7A-827-U-RW

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1359.3 | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 6504.5 | 26.9      |                         |      |         |
| FH   | (60°-80°)   | 4110.4 | 17.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 104.8  | 0.4       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1359.3 | 5.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 6504.5 | 26.9      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 4110.4 | 17.0      | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 104.8  | 0.4       |                         |      | 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°    | 2530.3 | 2530.3 | 2530.3 | 2530.3 | 2530.3 | 2530.3 | 2530.3 | 2530.3 | 2530.3 | 2530.3 | 2530.3 |
| 2.5°  | 2517.4 | 2520.0 | 2522.6 | 2526.5 | 2531.6 | 2539.4 | 2544.6 | 2548.5 | 2558.8 | 2560.1 | 2558.8 |
| 5°    | 2508.3 | 2510.9 | 2517.4 | 2529.0 | 2545.9 | 2569.2 | 2587.3 | 2609.3 | 2626.1 | 2637.8 | 2635.2 |
| 7.5°  | 2507.0 | 2512.2 | 2522.6 | 2547.2 | 2579.5 | 2619.6 | 2661.1 | 2698.6 | 2731.0 | 2756.8 | 2753.0 |
| 10°   | 2527.7 | 2534.2 | 2551.0 | 2587.3 | 2637.8 | 2696.0 | 2754.2 | 2809.9 | 2856.5 | 2890.2 | 2901.8 |
| 12.5° | 2562.7 | 2567.9 | 2598.9 | 2653.3 | 2725.8 | 2798.3 | 2864.3 | 2932.9 | 2997.6 | 3054.5 | 3054.5 |
| 15°   | 2623.5 | 2632.6 | 2671.4 | 2750.4 | 2839.7 | 2923.8 | 2991.1 | 3063.6 | 3133.5 | 3198.2 | 3217.6 |
| 17.5° | 2707.7 | 2720.6 | 2778.8 | 2879.8 | 2993.7 | 3071.4 | 3134.8 | 3194.3 | 3255.1 | 3317.3 | 3326.3 |
| 20°   | 2822.8 | 2835.8 | 2913.4 | 3035.1 | 3169.7 | 3262.9 | 3305.6 | 3319.9 | 3349.6 | 3409.2 | 3416.9 |
| 22.5° | 2979.5 | 2992.4 | 3079.1 | 3216.3 | 3366.4 | 3467.4 | 3485.5 | 3451.9 | 3444.1 | 3490.7 | 3495.9 |
| 25°   | 3156.8 | 3168.4 | 3268.1 | 3415.6 | 3570.9 | 3681.0 | 3675.8 | 3592.9 | 3546.4 | 3574.8 | 3582.6 |
| 27.5° | 3356.1 | 3372.9 | 3473.9 | 3626.6 | 3794.9 | 3891.9 | 3876.4 | 3756.0 | 3656.4 | 3651.2 | 3653.8 |
| 30°   | 3611.1 | 3629.2 | 3725.0 | 3871.2 | 4036.9 | 4126.2 | 4093.8 | 3932.1 | 3778.0 | 3726.3 | 3726.3 |
| 32.5° | 3880.3 | 3925.6 | 4022.7 | 4175.4 | 4304.8 | 4369.5 | 4320.3 | 4126.2 | 3921.7 | 3849.2 | 3845.3 |
| 35°   | 4231.0 | 4255.6 | 4351.4 | 4500.2 | 4597.3 | 4647.8 | 4553.3 | 4344.9 | 4109.4 | 4023.9 | 4012.3 |
| 37.5° | 4574.0 | 4594.7 | 4706.0 | 4848.4 | 4966.2 | 4963.6 | 4835.5 | 4605.1 | 4342.3 | 4246.6 | 4238.8 |
| 40°   | 4924.8 | 4946.8 | 5073.6 | 5204.3 | 5322.1 | 5311.8 | 5156.5 | 4898.9 | 4619.3 | 4511.9 | 4532.6 |
| 42.5° | 5228.9 | 5253.5 | 5397.2 | 5583.6 | 5689.7 | 5687.1 | 5507.2 | 5217.3 | 4926.1 | 4830.3 | 4848.4 |
| 45°   | 5505.9 | 5527.9 | 5694.9 | 5908.4 | 6063.7 | 6083.2 | 5886.4 | 5579.7 | 5280.7 | 5157.7 | 5162.9 |
| 47.5° | 5701.3 | 5742.8 | 5917.5 | 6162.1 | 6373.1 | 6441.7 | 6248.8 | 5948.6 | 5604.3 | 5476.1 | 5483.9 |
| 50°   | 5850.2 | 5876.1 | 6066.3 | 6344.6 | 6611.2 | 6753.6 | 6598.3 | 6290.3 | 5927.8 | 5791.9 | 5810.1 |
| 52.5° | 5868.3 | 5899.4 | 6106.5 | 6427.4 | 6769.1 | 6985.3 | 6908.9 | 6624.2 | 6257.9 | 6118.1 | 6156.9 |
| 55°   | 5720.8 | 5738.9 | 5986.1 | 6375.7 | 6831.3 | 7157.4 | 7176.8 | 6934.8 | 6572.4 | 6466.3 | 6492.2 |
| 57.5° | 5300.1 | 5346.7 | 5659.9 | 6133.6 | 6745.8 | 7249.3 | 7377.5 | 7217.0 | 6890.8 | 6786.0 | 6827.4 |
| 60°   | 4610.3 | 4656.9 | 4971.4 | 5571.9 | 6423.6 | 7206.6 | 7543.1 | 7466.8 | 7179.4 | 7095.3 | 7117.3 |
| 62.5° | 3612.4 | 3608.5 | 3998.1 | 4734.5 | 5782.9 | 6996.9 | 7666.1 | 7707.5 | 7464.2 | 7358.0 | 7391.7 |
| 65°   | 2341.4 | 2353.0 | 2729.7 | 3523.1 | 4816.1 | 6463.7 | 7693.3 | 8014.2 | 7743.7 | 7583.2 | 7607.8 |
| 66°   | 1883.2 | 1918.1 | 2237.8 | 2969.1 | 4322.9 | 6114.2 | 7611.7 | 8104.8 | 7829.2 | 7635.0 | 7646.7 |
| 67.5° | 1390.1 | 1383.6 | 1646.3 | 2210.6 | 3451.9 | 5450.3 | 7356.7 | 8161.8 | 7926.2 | 7681.6 | 7686.8 |
| 70°   | 793.4  | 792.1  | 885.3  | 1214.0 | 2029.4 | 3837.6 | 6200.9 | 7888.7 | 8123.0 | 7849.9 | 7835.6 |
| 72.5° | 579.8  | 576.0  | 588.9  | 670.4  | 990.1  | 1937.6 | 4277.6 | 6894.7 | 8022.0 | 7822.7 | 7782.6 |
| 75°   | 486.7  | 484.1  | 481.5  | 491.8  | 555.3  | 877.5  | 2270.2 | 4959.7 | 6960.7 | 7342.5 | 7301.1 |
| 77.5° | 397.3  | 397.3  | 398.6  | 396.1  | 398.6  | 462.1  | 940.9  | 2658.5 | 4238.8 | 4731.9 | 4847.1 |
| 80°   | 310.6  | 309.3  | 331.3  | 322.3  | 301.6  | 296.4  | 416.8  | 855.5  | 1406.9 | 1399.1 | 1154.5 |
| 82.5° | 229.1  | 213.6  | 252.4  | 245.9  | 222.6  | 189.0  | 243.3  | 365.0  | 469.8  | 305.5  | 226.5  |
| 85°   | 145.0  | 143.7  | 178.6  | 163.1  | 135.9  | 89.3   | 116.5  | 156.6  | 194.1  | 117.8  | 95.8   |
| 87.5° | 25.9   | 24.6   | 56.9   | 41.4   | 41.4   | 25.9   | 32.4   | 42.7   | 63.4   | 44.0   | 32.4   |
| 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)