

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: P455937

Luminaire Tested: **GALN-SA7A-830-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455937  
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-830-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26115 lumens  
Efficiency: N/A  
Efficacy: 121.5 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 (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

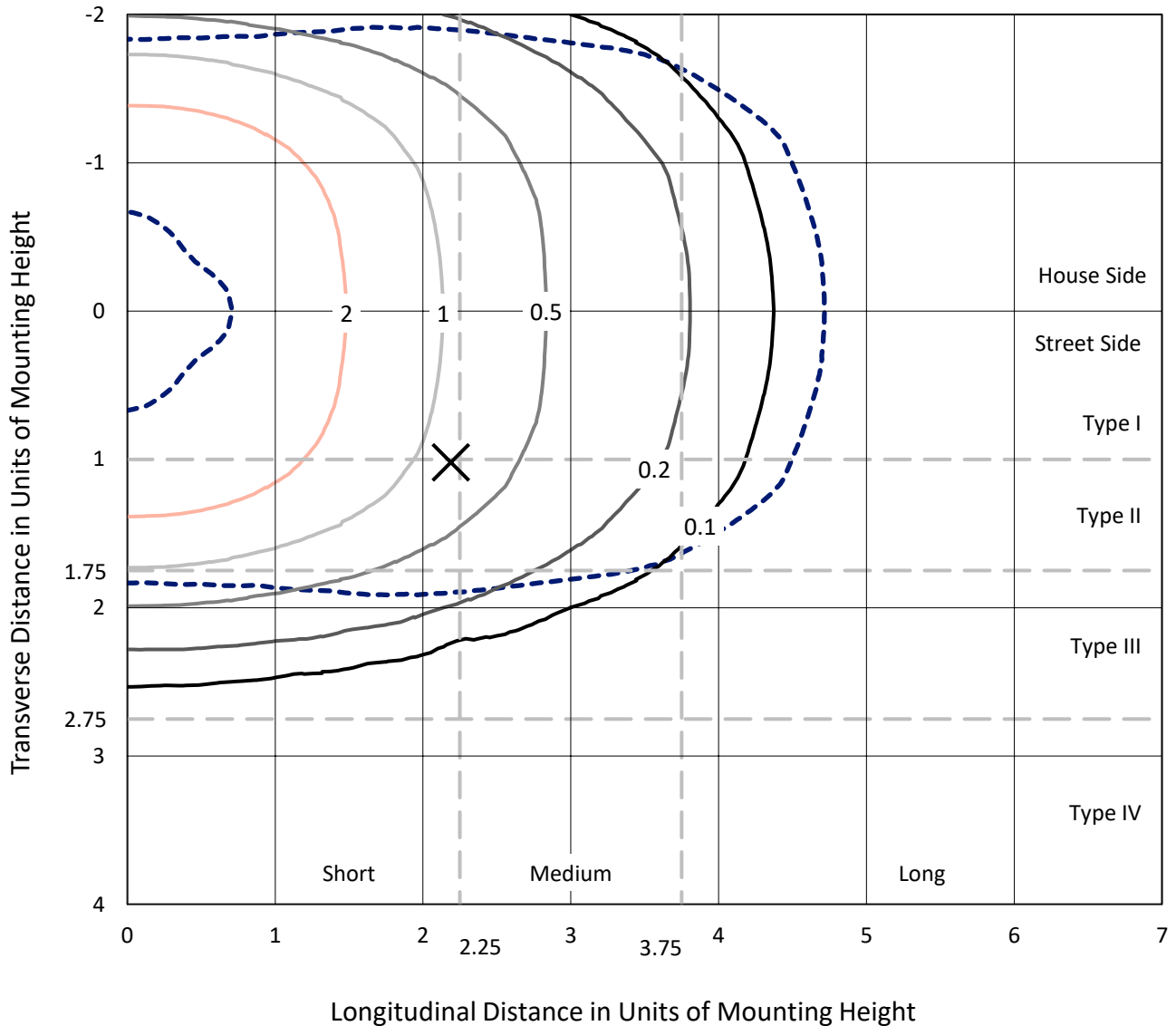




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### Iso-Footcandle Lines of Horizontal Illumination

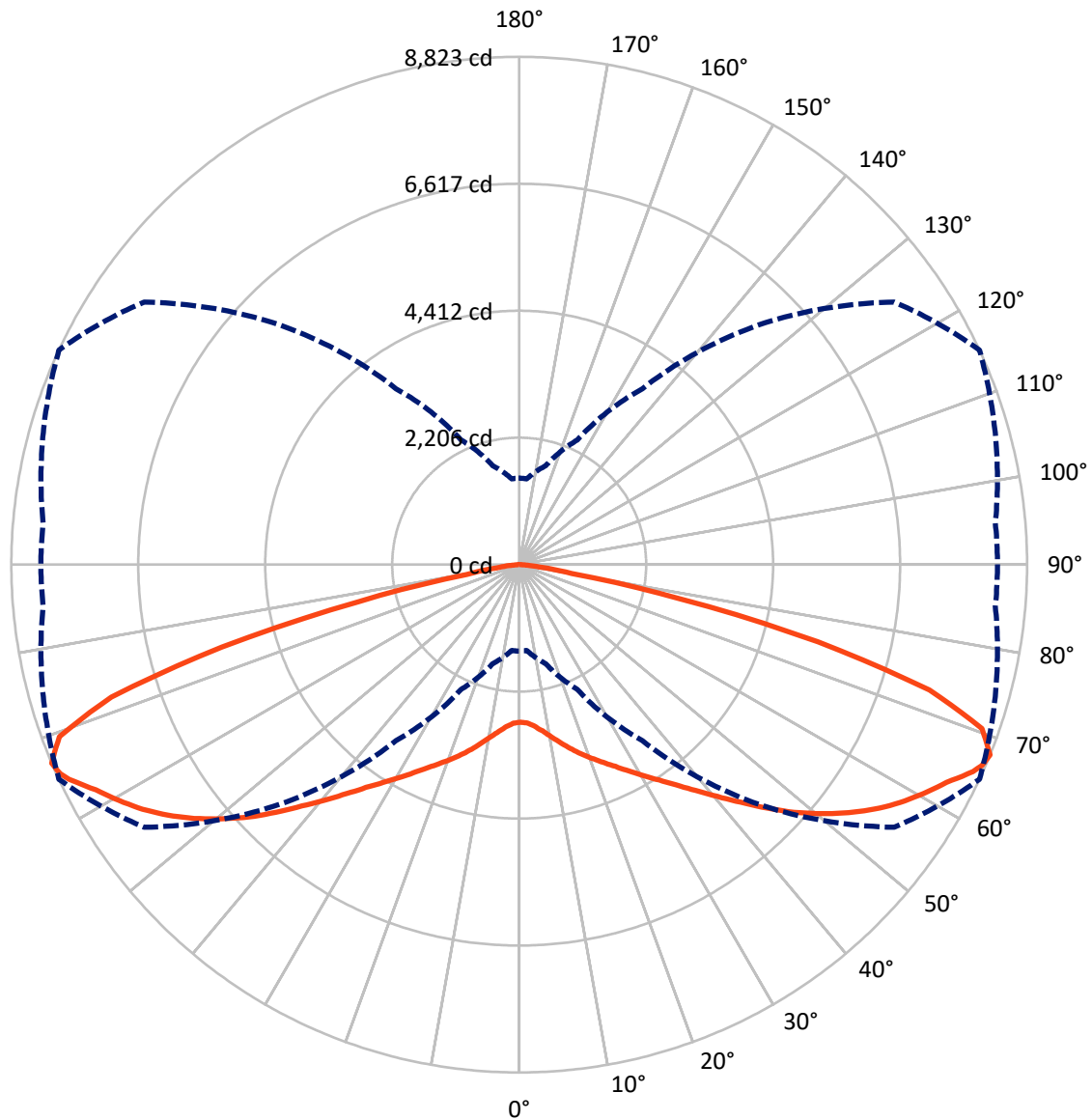
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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    | 13057.5  | 0.0    | 13057.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 13057.5  | 0.0    | 13057.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 26115.0  | 0.0    | 26115.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 269.8   | 1.0       |
| 10°-20°   | 902.9   | 3.5       |
| 20°-30°   | 1766.2  | 6.8       |
| 30°-40°   | 3004.0  | 11.5      |
| 40°-50°   | 4754.5  | 18.2      |
| 50°-60°   | 6304.3  | 24.1      |
| 60°-70°   | 5946.9  | 22.8      |
| 70°-80°   | 2939.9  | 11.3      |
| 80°-90°   | 226.6   | 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°    | 26115.0 | 100.0     |
| 0°-180°   | 26115.0 | 100.0     |

**Coefficient of Utilization**



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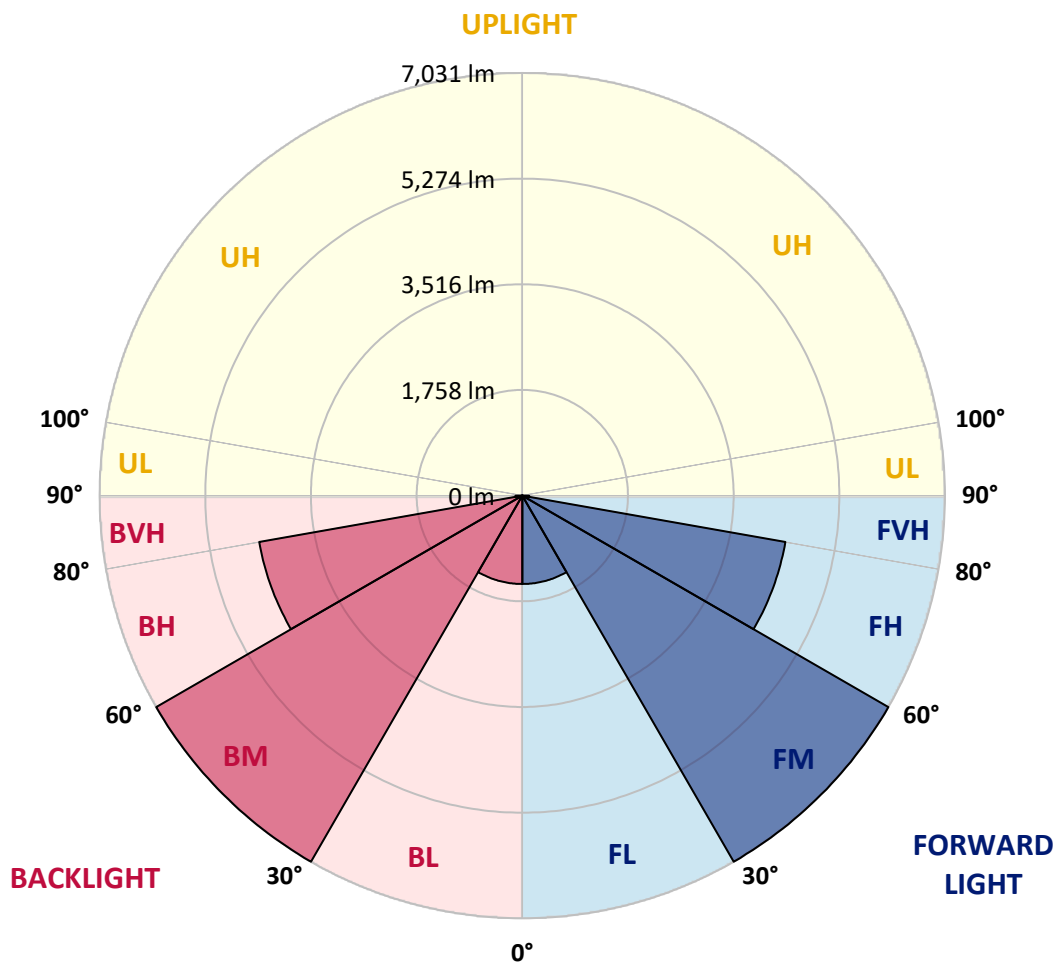
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1469.4 | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 7031.4 | 26.9      |                         |      |         |
| FH   | (60°-80°)   | 4443.4 | 17.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 113.3  | 0.4       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1469.4 | 5.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 7031.4 | 26.9      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 4443.4 | 17.0      | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 113.3  | 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°    | 2735.3 | 2735.3 | 2735.3 | 2735.3 | 2735.3 | 2735.3 | 2735.3 | 2735.3 | 2735.3 | 2735.3 | 2735.3 |
| 2.5°  | 2721.3 | 2724.1 | 2726.9 | 2731.1 | 2736.7 | 2745.1 | 2750.7 | 2754.9 | 2766.1 | 2767.5 | 2766.1 |
| 5°    | 2711.5 | 2714.3 | 2721.3 | 2733.9 | 2752.1 | 2777.3 | 2796.9 | 2820.7 | 2838.9 | 2851.4 | 2848.6 |
| 7.5°  | 2710.1 | 2715.7 | 2726.9 | 2753.5 | 2788.5 | 2831.9 | 2876.6 | 2917.2 | 2952.2 | 2980.2 | 2976.0 |
| 10°   | 2732.5 | 2739.5 | 2757.7 | 2796.9 | 2851.4 | 2914.4 | 2977.4 | 3037.5 | 3087.9 | 3124.3 | 3136.9 |
| 12.5° | 2770.3 | 2775.9 | 2809.5 | 2868.2 | 2946.6 | 3024.9 | 3096.3 | 3170.4 | 3240.4 | 3302.0 | 3302.0 |
| 15°   | 2836.1 | 2845.8 | 2887.8 | 2973.2 | 3069.7 | 3160.7 | 3233.4 | 3311.8 | 3387.3 | 3457.3 | 3478.3 |
| 17.5° | 2927.0 | 2941.0 | 3004.0 | 3113.1 | 3236.2 | 3320.2 | 3388.7 | 3453.1 | 3518.8 | 3586.0 | 3595.8 |
| 20°   | 3051.5 | 3065.5 | 3149.5 | 3281.0 | 3426.5 | 3527.2 | 3573.4 | 3588.8 | 3621.0 | 3685.3 | 3693.7 |
| 22.5° | 3220.8 | 3234.8 | 3328.6 | 3476.9 | 3639.2 | 3748.3 | 3767.9 | 3731.5 | 3723.1 | 3773.5 | 3779.1 |
| 25°   | 3412.5 | 3425.1 | 3532.8 | 3692.3 | 3860.2 | 3979.2 | 3973.6 | 3884.0 | 3833.6 | 3864.4 | 3872.8 |
| 27.5° | 3628.0 | 3646.2 | 3755.3 | 3920.4 | 4102.3 | 4207.2 | 4190.4 | 4060.3 | 3952.6 | 3947.0 | 3949.8 |
| 30°   | 3903.6 | 3923.2 | 4026.7 | 4184.8 | 4363.9 | 4460.5 | 4425.5 | 4250.6 | 4084.1 | 4028.1 | 4028.1 |
| 32.5° | 4194.6 | 4243.6 | 4348.5 | 4513.6 | 4653.5 | 4723.5 | 4670.3 | 4460.5 | 4239.4 | 4161.0 | 4156.8 |
| 35°   | 4573.8 | 4600.4 | 4703.9 | 4864.8 | 4969.7 | 5024.3 | 4922.2 | 4696.9 | 4442.3 | 4349.9 | 4337.3 |
| 37.5° | 4944.6 | 4966.9 | 5087.3 | 5241.2 | 5368.5 | 5365.7 | 5227.2 | 4978.1 | 4694.1 | 4590.6 | 4582.2 |
| 40°   | 5323.7 | 5347.5 | 5484.6 | 5625.9 | 5753.3 | 5742.1 | 5574.2 | 5295.7 | 4993.5 | 4877.4 | 4899.8 |
| 42.5° | 5652.5 | 5679.1 | 5834.4 | 6035.9 | 6150.6 | 6147.8 | 5953.3 | 5639.9 | 5325.1 | 5221.6 | 5241.2 |
| 45°   | 5951.9 | 5975.7 | 6156.2 | 6387.1 | 6555.0 | 6576.0 | 6363.3 | 6031.7 | 5708.5 | 5575.6 | 5581.2 |
| 47.5° | 6163.2 | 6208.0 | 6396.9 | 6661.3 | 6889.4 | 6963.5 | 6755.0 | 6430.4 | 6058.3 | 5919.8 | 5928.2 |
| 50°   | 6324.1 | 6352.1 | 6557.8 | 6858.6 | 7146.8 | 7300.7 | 7132.8 | 6799.8 | 6408.1 | 6261.1 | 6280.7 |
| 52.5° | 6343.7 | 6377.3 | 6601.1 | 6948.1 | 7317.5 | 7551.2 | 7468.6 | 7160.8 | 6764.8 | 6613.7 | 6655.7 |
| 55°   | 6184.2 | 6203.8 | 6471.0 | 6892.2 | 7384.7 | 7737.2 | 7758.2 | 7496.6 | 7104.8 | 6990.1 | 7018.1 |
| 57.5° | 5729.5 | 5779.8 | 6118.4 | 6630.5 | 7292.3 | 7836.6 | 7975.1 | 7801.6 | 7449.0 | 7335.7 | 7380.5 |
| 60°   | 4983.7 | 5034.1 | 5374.1 | 6023.3 | 6943.9 | 7790.4 | 8154.2 | 8071.6 | 7761.0 | 7670.1 | 7693.9 |
| 62.5° | 3905.0 | 3900.8 | 4321.9 | 5118.0 | 6251.4 | 7563.7 | 8287.1 | 8331.9 | 8068.8 | 7954.1 | 7990.5 |
| 65°   | 2531.0 | 2543.6 | 2950.8 | 3808.5 | 5206.2 | 6987.3 | 8316.5 | 8663.5 | 8371.0 | 8197.6 | 8224.1 |
| 66°   | 2035.7 | 2073.5 | 2419.1 | 3209.6 | 4673.1 | 6609.5 | 8228.3 | 8761.4 | 8463.4 | 8253.5 | 8266.1 |
| 67.5° | 1502.7 | 1495.7 | 1779.7 | 2389.7 | 3731.5 | 5891.8 | 7952.7 | 8823.0 | 8568.3 | 8303.9 | 8309.5 |
| 70°   | 857.7  | 856.3  | 957.0  | 1312.4 | 2193.8 | 4148.4 | 6703.3 | 8527.7 | 8781.0 | 8485.8 | 8470.4 |
| 72.5° | 626.8  | 622.6  | 636.6  | 724.8  | 1070.3 | 2094.5 | 4624.2 | 7453.2 | 8671.9 | 8456.4 | 8413.0 |
| 75°   | 526.1  | 523.3  | 520.5  | 531.7  | 600.2  | 948.6  | 2454.1 | 5361.5 | 7524.6 | 7937.3 | 7892.5 |
| 77.5° | 429.5  | 429.5  | 430.9  | 428.1  | 430.9  | 499.5  | 1017.2 | 2873.8 | 4582.2 | 5115.3 | 5239.8 |
| 80°   | 335.8  | 334.4  | 358.2  | 348.4  | 326.0  | 320.4  | 450.5  | 924.8  | 1520.9 | 1512.5 | 1248.0 |
| 82.5° | 247.6  | 230.9  | 272.8  | 265.8  | 240.7  | 204.3  | 263.0  | 394.6  | 507.9  | 330.2  | 244.8  |
| 85°   | 156.7  | 155.3  | 193.1  | 176.3  | 146.9  | 96.5   | 125.9  | 169.3  | 209.9  | 127.3  | 103.5  |
| 87.5° | 28.0   | 26.6   | 61.6   | 44.8   | 44.8   | 28.0   | 35.0   | 46.2   | 68.6   | 47.6   | 35.0   |
| 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)