

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: P647309

Luminaire Tested: **GALN-SA3D-835-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647309  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-835-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15960.7 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

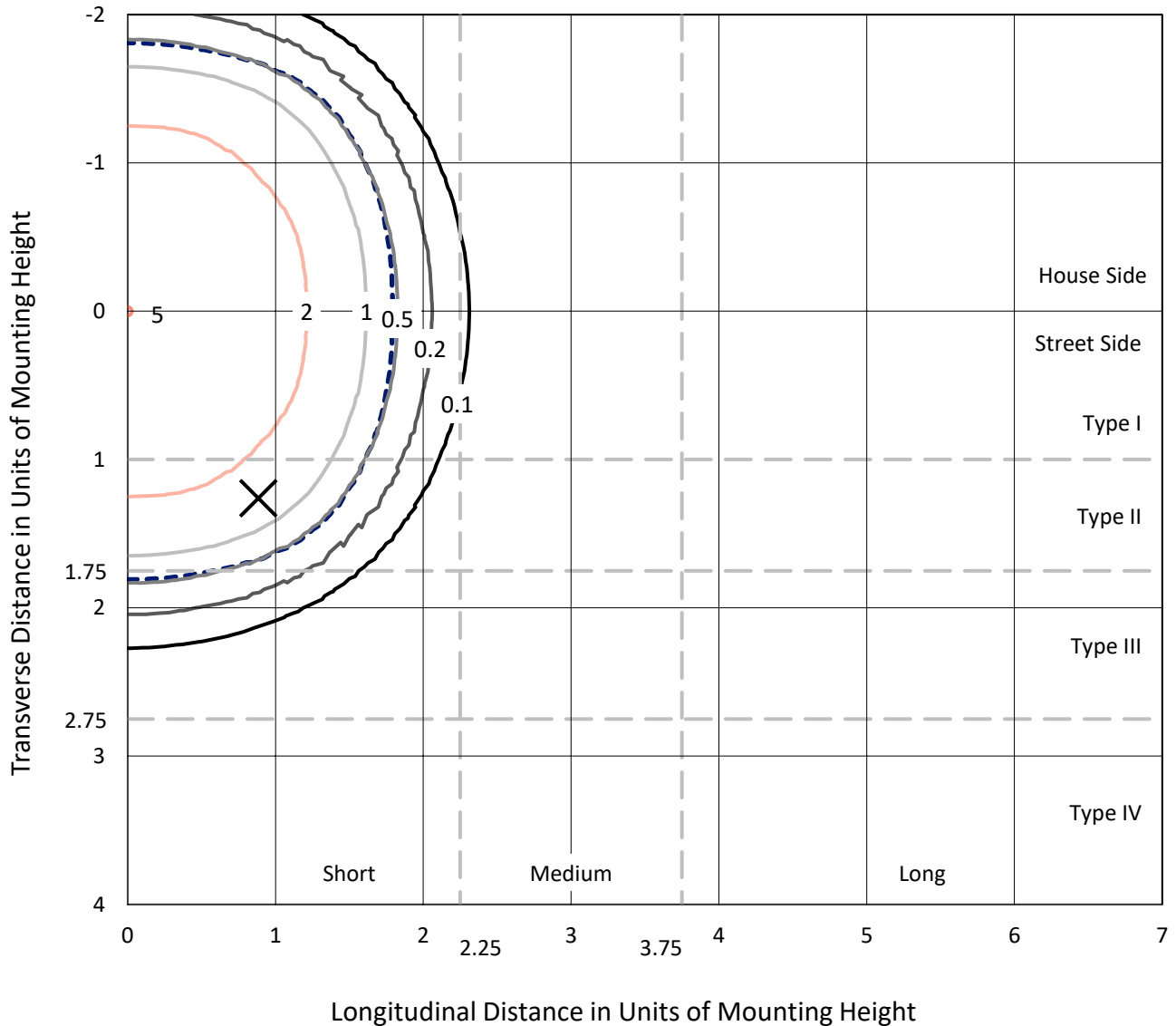
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

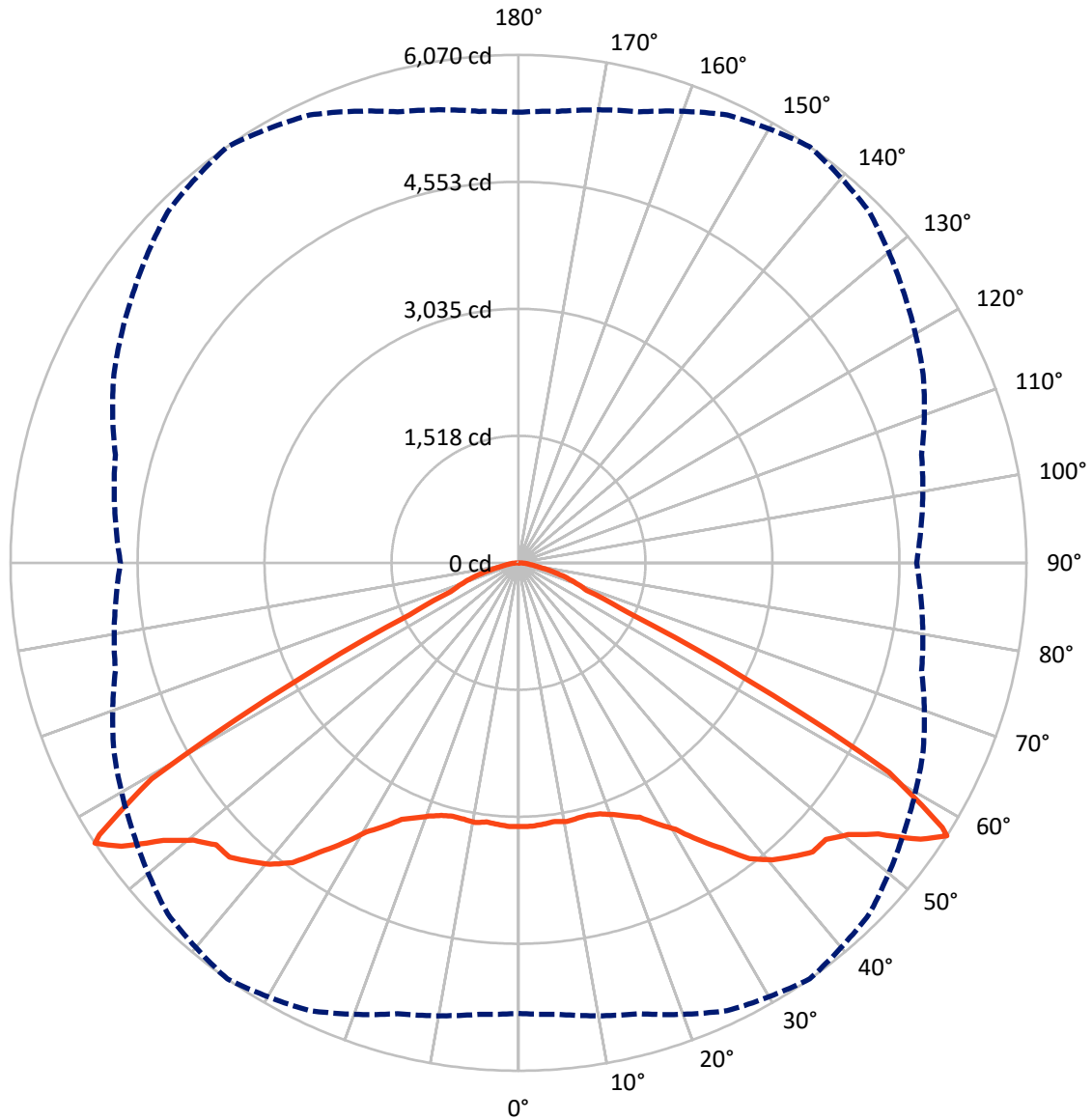
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7980.3   | 0.0    | 7980.3  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 7980.3   | 0.0    | 7980.3  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 15960.7  | 0.0    | 15960.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 298.8   | 1.9       |
| 10°-20°   | 885.1   | 5.5       |
| 20°-30°   | 1545.7  | 9.7       |
| 30°-40°   | 2532.7  | 15.9      |
| 40°-50°   | 3713.6  | 23.3      |
| 50°-60°   | 4677.6  | 29.3      |
| 60°-70°   | 1759.2  | 11.0      |
| 70°-80°   | 467.8   | 2.9       |
| 80°-90°   | 80.2    | 0.5       |
| 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°    | 15960.7 | 100.0     |
| 0°-180°   | 15960.7 | 100.0     |

**Coefficient of Utilization**



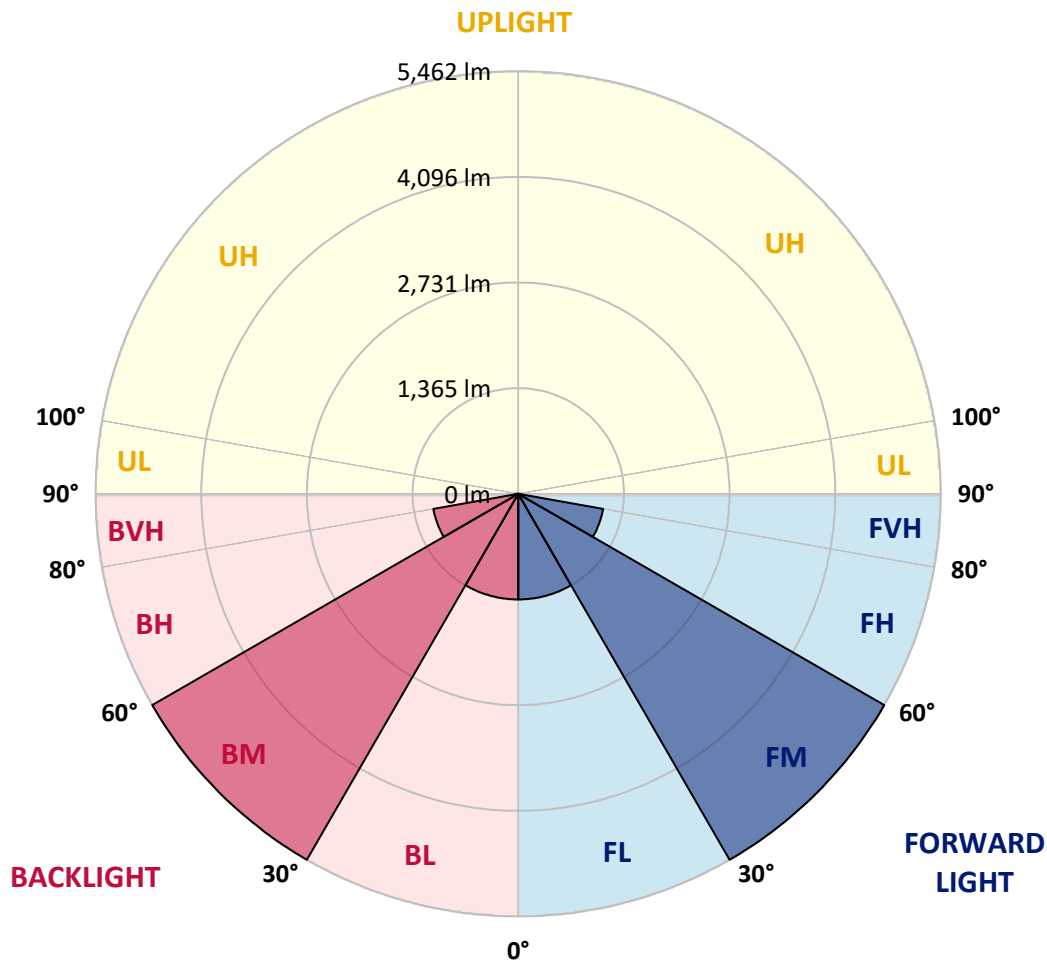
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1364.8 | 8.6       |                         |      |         |
| FM (30°-60°)   | 5461.9 | 34.2      |                         |      |         |
| FH (60°-80°)   | 1113.5 | 7.0       |                         |      | G1/1800 |
| FVH (80°-90°)  | 40.1   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 1364.8 | 8.6       | B3/2500                 |      |         |
| BM (30°-60°)   | 5461.9 | 34.2      | B4/8500                 |      |         |
| BH (60°-80°)   | 1113.5 | 7.0       | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 40.1   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3152.1 | 3152.1 | 3152.1 | 3152.1 | 3152.1 | 3152.1 | 3152.1 | 3152.1 | 3152.1 | 3152.1 | 3152.1 |
| 2.5°  | 3136.4 | 3167.9 | 3154.1 | 3146.3 | 3152.1 | 3142.3 | 3126.5 | 3144.2 | 3140.3 | 3124.6 | 3118.7 |
| 5°    | 3128.6 | 3152.1 | 3136.4 | 3152.1 | 3136.4 | 3163.9 | 3156.0 | 3126.5 | 3161.9 | 3128.6 | 3140.3 |
| 7.5°  | 3122.6 | 3130.5 | 3134.4 | 3126.5 | 3120.6 | 3154.1 | 3136.4 | 3122.6 | 3103.0 | 3097.1 | 3106.9 |
| 10°   | 3108.8 | 3128.6 | 3099.0 | 3138.3 | 3146.3 | 3122.6 | 3122.6 | 3097.1 | 3081.3 | 3071.5 | 3104.9 |
| 12.5° | 3144.2 | 3110.9 | 3106.9 | 3126.5 | 3132.5 | 3142.3 | 3114.8 | 3101.0 | 3071.5 | 3075.4 | 3069.5 |
| 15°   | 3103.0 | 3116.7 | 3118.7 | 3122.6 | 3128.6 | 3152.1 | 3126.5 | 3097.1 | 3085.3 | 3044.0 | 3047.9 |
| 17.5° | 3118.7 | 3104.9 | 3118.7 | 3163.9 | 3156.0 | 3173.7 | 3146.3 | 3101.0 | 3073.4 | 3049.9 | 3081.3 |
| 20°   | 3146.3 | 3140.3 | 3146.3 | 3201.3 | 3211.1 | 3226.8 | 3203.3 | 3161.9 | 3108.8 | 3081.3 | 3097.1 |
| 22.5° | 3175.7 | 3171.8 | 3175.7 | 3228.8 | 3285.9 | 3305.5 | 3281.9 | 3185.6 | 3158.0 | 3106.9 | 3089.2 |
| 25°   | 3228.8 | 3232.8 | 3274.0 | 3333.0 | 3370.3 | 3407.8 | 3364.5 | 3295.6 | 3207.2 | 3175.7 | 3138.3 |
| 27.5° | 3346.8 | 3356.6 | 3380.2 | 3466.7 | 3531.6 | 3565.1 | 3504.1 | 3409.7 | 3354.7 | 3289.8 | 3279.9 |
| 30°   | 3492.3 | 3492.3 | 3533.6 | 3608.3 | 3696.8 | 3747.9 | 3673.2 | 3561.2 | 3494.3 | 3458.9 | 3437.2 |
| 32.5° | 3685.0 | 3663.3 | 3679.1 | 3810.9 | 3948.5 | 3991.7 | 3891.5 | 3753.9 | 3647.6 | 3600.5 | 3584.7 |
| 35°   | 3850.2 | 3863.9 | 3899.3 | 4040.9 | 4194.3 | 4294.6 | 4137.3 | 3958.3 | 3850.2 | 3806.9 | 3799.0 |
| 37.5° | 4064.6 | 4088.1 | 4105.8 | 4300.5 | 4485.3 | 4522.7 | 4371.3 | 4227.7 | 4096.0 | 4060.6 | 4040.9 |
| 40°   | 4367.3 | 4351.6 | 4357.5 | 4501.1 | 4668.2 | 4691.8 | 4542.3 | 4440.1 | 4331.9 | 4310.3 | 4310.3 |
| 42.5° | 4617.0 | 4599.3 | 4619.1 | 4672.2 | 4799.9 | 4782.3 | 4699.6 | 4624.9 | 4579.7 | 4556.1 | 4579.7 |
| 45°   | 4768.5 | 4764.6 | 4799.9 | 4839.3 | 4929.7 | 4870.7 | 4805.8 | 4817.6 | 4774.4 | 4735.0 | 4733.1 |
| 47.5° | 4933.7 | 4908.1 | 4951.4 | 5010.3 | 4941.5 | 4914.0 | 4910.0 | 4935.6 | 4921.9 | 4853.0 | 4831.4 |
| 50°   | 5014.3 | 5004.5 | 5073.3 | 5142.1 | 5104.8 | 5041.8 | 5055.6 | 5096.9 | 4919.9 | 4827.5 | 4774.4 |
| 52.5° | 5230.6 | 5232.6 | 5364.3 | 5401.7 | 5385.9 | 5293.5 | 5323.0 | 5210.9 | 5002.5 | 4872.7 | 4878.6 |
| 55°   | 5570.7 | 5557.0 | 5704.5 | 5814.6 | 5832.3 | 5714.3 | 5572.8 | 5415.5 | 5153.9 | 5022.2 | 4982.9 |
| 57°   | 5384.0 | 5415.5 | 5578.6 | 5905.1 | 6070.2 | 5930.6 | 5621.9 | 5334.8 | 4986.8 | 4827.5 | 4756.6 |
| 57.5° | 5134.2 | 5185.3 | 5468.6 | 5796.9 | 5970.0 | 5958.2 | 5560.9 | 5185.3 | 4874.6 | 4626.9 | 4632.8 |
| 60°   | 3761.7 | 3771.6 | 4027.1 | 4548.2 | 5089.0 | 5100.8 | 4617.0 | 4119.6 | 3773.5 | 3504.1 | 3541.4 |
| 62.5° | 1984.0 | 2029.3 | 2131.6 | 2550.4 | 3018.4 | 3132.5 | 2839.5 | 2583.8 | 2285.0 | 2080.4 | 2100.1 |
| 65°   | 1050.1 | 1044.1 | 1093.3 | 1211.3 | 1441.3 | 1500.4 | 1461.0 | 1258.5 | 1154.3 | 1120.9 | 1122.8 |
| 67.5° | 853.4  | 863.3  | 857.3  | 863.3  | 879.0  | 904.5  | 898.6  | 906.5  | 912.4  | 922.2  | 920.3  |
| 70°   | 723.6  | 723.6  | 727.6  | 729.5  | 729.5  | 741.3  | 755.1  | 780.7  | 782.6  | 792.5  | 796.4  |
| 72.5° | 570.3  | 566.3  | 572.2  | 586.0  | 588.0  | 597.7  | 617.5  | 633.2  | 639.1  | 639.1  | 627.3  |
| 75°   | 387.4  | 391.3  | 399.2  | 411.0  | 422.7  | 440.4  | 456.2  | 466.0  | 470.0  | 464.1  | 458.1  |
| 77.5° | 218.3  | 222.2  | 228.1  | 245.8  | 259.6  | 275.3  | 293.0  | 302.8  | 312.7  | 314.6  | 302.8  |
| 80°   | 129.7  | 129.7  | 139.6  | 153.4  | 169.1  | 184.9  | 200.6  | 212.3  | 216.3  | 216.3  | 210.4  |
| 82.5° | 78.7   | 80.6   | 88.5   | 102.3  | 116.0  | 125.8  | 139.6  | 149.5  | 157.3  | 155.3  | 151.4  |
| 85°   | 41.3   | 41.3   | 49.2   | 61.0   | 70.8   | 80.6   | 80.6   | 74.7   | 70.8   | 61.0   | 57.0   |
| 87.5° | 13.8   | 11.8   | 15.7   | 15.7   | 13.8   | 15.7   | 15.7   | 17.7   | 17.7   | 17.7   | 17.7   |
| 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)