

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: P383298

Luminaire Tested: **GLEON-SA6B-735-U-5MQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383298  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA6B-735-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33449.1 lumens  
Efficiency: N/A  
Efficacy: 134.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

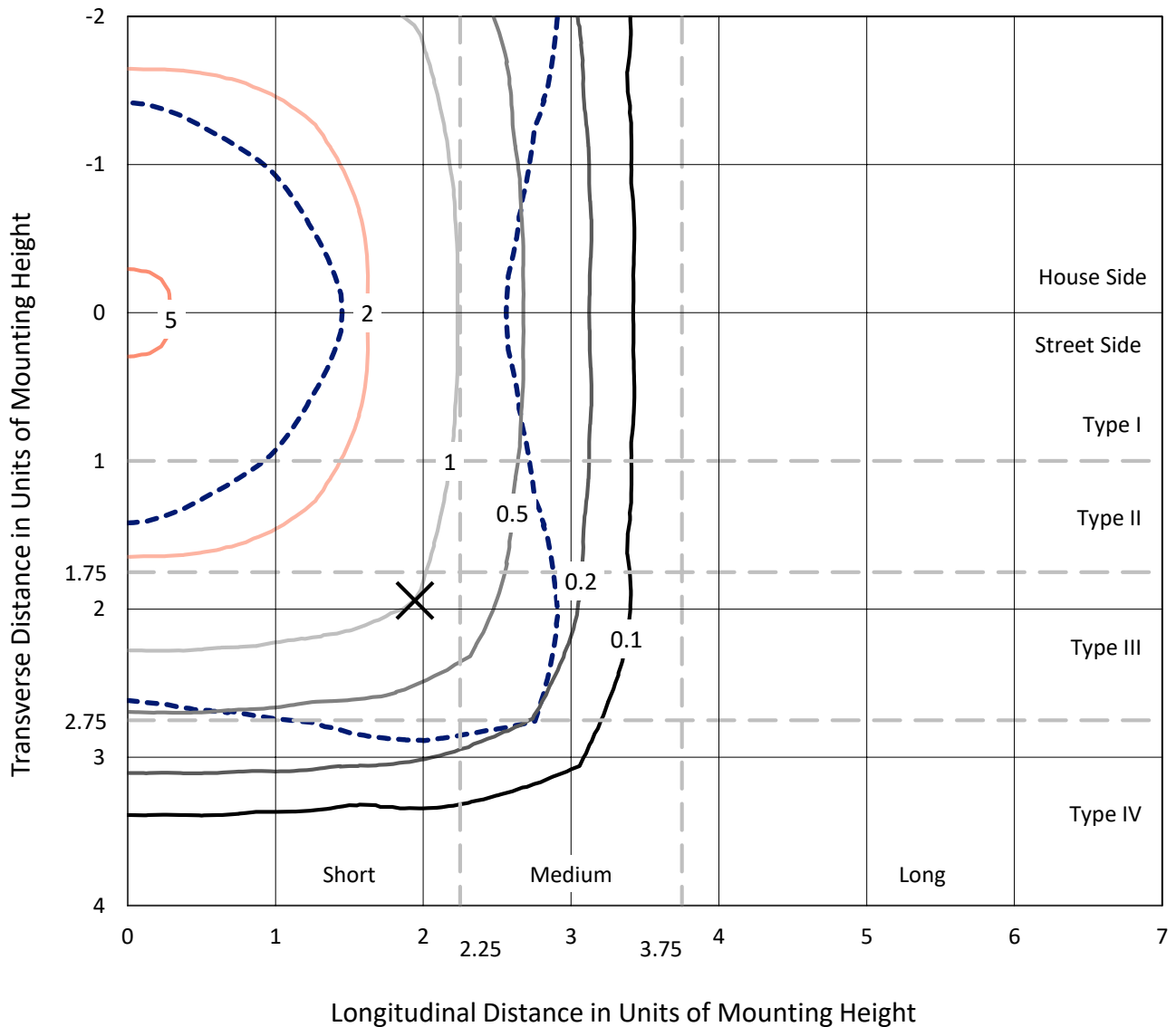
Input Watts (W): 249  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

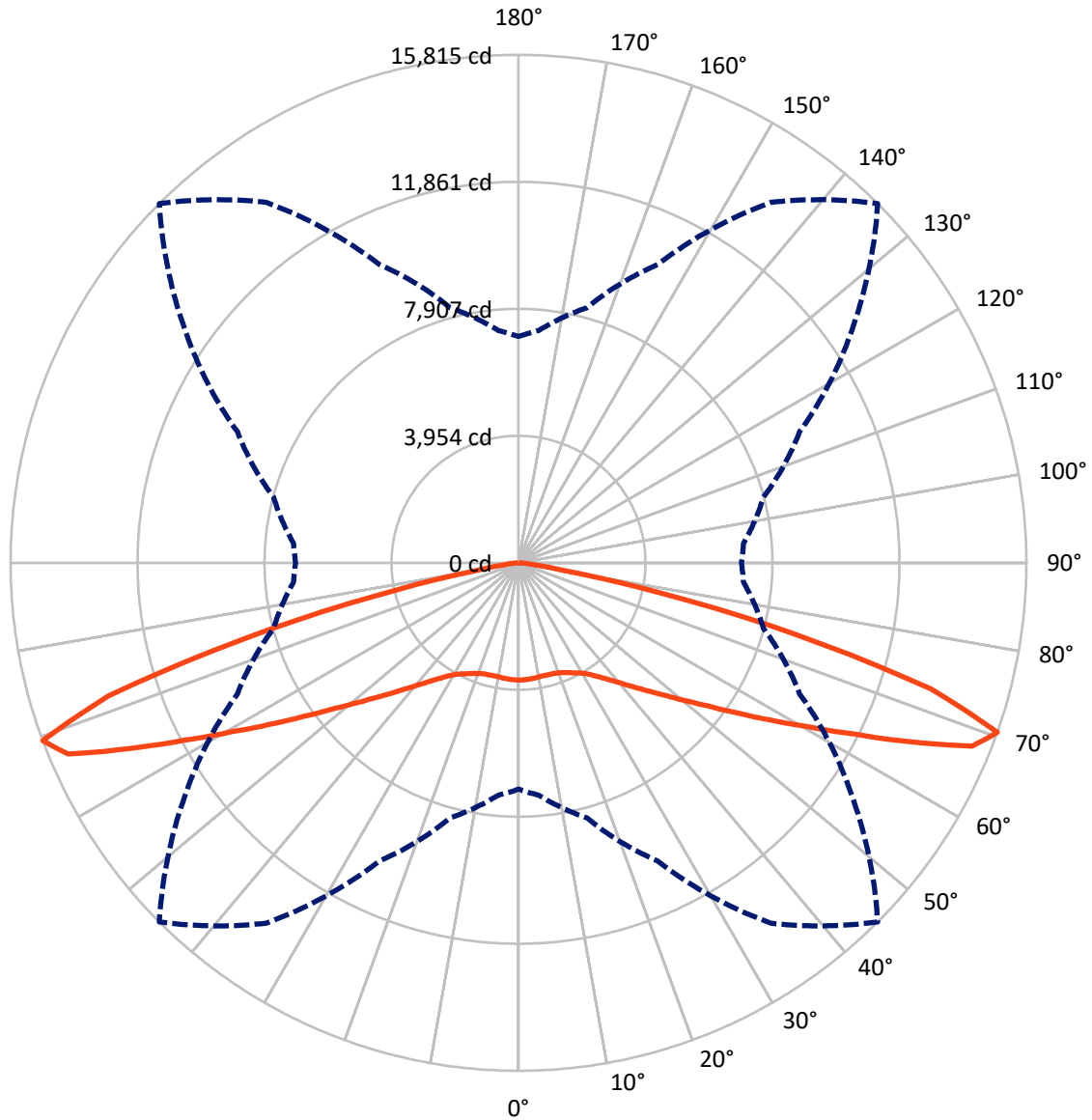
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 16724.5  | 0.0    | 16724.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 16724.5  | 0.0    | 16724.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 33449.1  | 0.0    | 33449.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 346.0   | 1.0       |
| 10°-20°   | 1015.7  | 3.0       |
| 20°-30°   | 1729.1  | 5.2       |
| 30°-40°   | 2742.4  | 8.2       |
| 40°-50°   | 4462.7  | 13.3      |
| 50°-60°   | 7358.2  | 22.0      |
| 60°-70°   | 10802.0 | 32.3      |
| 70°-80°   | 4776.6  | 14.3      |
| 80°-90°   | 216.3   | 0.6       |
| 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°    | 33449.1 | 100.0     |
| 0°-180°   | 33449.1 | 100.0     |

**Coefficient of Utilization**



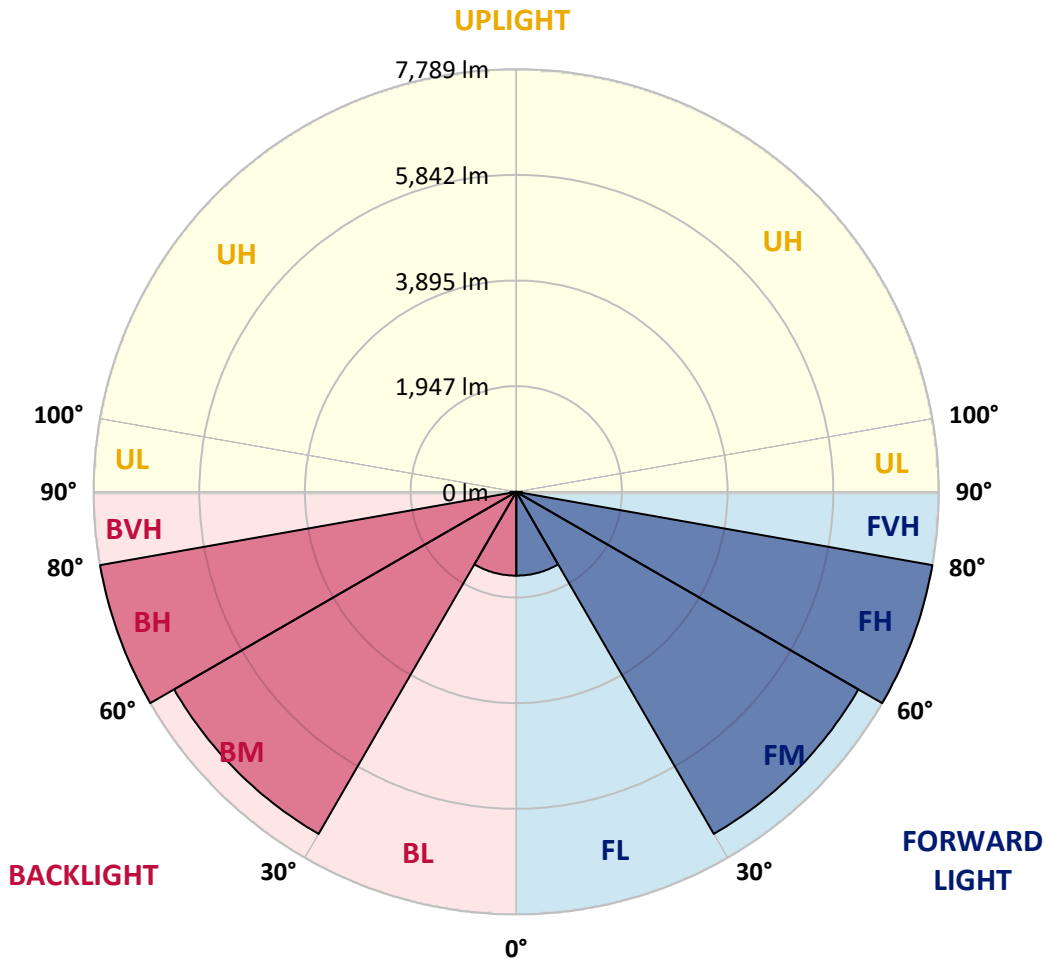
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1545.4 | 4.6       |                         |      |          |
| FM (30°-60°)   | 7281.6 | 21.8      |                         |      |          |
| FH (60°-80°)   | 7789.3 | 23.3      |                         |      | G4/12000 |
| FVH (80°-90°)  | 108.2  | 0.3       |                         |      | G2/225   |
| BL (0°-30°)    | 1545.4 | 4.6       | B3/2500                 |      |          |
| BM (30°-60°)   | 7281.6 | 21.8      | B4/8500                 |      |          |
| BH (60°-80°)   | 7789.3 | 23.3      | B5                      |      | G4/12000 |
| BVH (80°-90°)  | 108.2  | 0.3       |                         |      | G2/225   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°    | 90°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0°    | 3653.2  | 3653.2  | 3653.2  | 3653.2  | 3653.2  | 3653.2  | 3653.2  | 3653.2  | 3653.2  | 3653.2 | 3653.2 |
| 2.5°  | 3647.7  | 3644.3  | 3652.0  | 3650.9  | 3644.3  | 3645.4  | 3645.4  | 3648.7  | 3648.7  | 3646.5 | 3646.5 |
| 5°    | 3634.3  | 3632.1  | 3641.0  | 3641.0  | 3634.3  | 3636.6  | 3638.8  | 3642.1  | 3641.0  | 3638.8 | 3637.7 |
| 7.5°  | 3617.8  | 3616.6  | 3625.5  | 3625.5  | 3621.0  | 3623.3  | 3621.0  | 3622.1  | 3620.0  | 3617.8 | 3614.4 |
| 10°   | 3590.1  | 3592.2  | 3600.1  | 3602.2  | 3602.2  | 3603.3  | 3601.2  | 3595.6  | 3592.2  | 3589.0 | 3585.6 |
| 12.5° | 3564.6  | 3563.4  | 3574.5  | 3580.1  | 3589.0  | 3598.9  | 3592.2  | 3576.8  | 3570.2  | 3563.4 | 3561.3 |
| 15°   | 3548.0  | 3549.1  | 3560.2  | 3570.2  | 3585.6  | 3606.7  | 3598.9  | 3574.5  | 3561.3  | 3553.6 | 3551.3 |
| 17.5° | 3544.6  | 3546.9  | 3561.3  | 3579.0  | 3595.6  | 3618.9  | 3614.4  | 3590.1  | 3567.9  | 3553.6 | 3550.2 |
| 20°   | 3552.5  | 3553.6  | 3575.7  | 3601.2  | 3629.9  | 3652.0  | 3642.1  | 3615.5  | 3585.6  | 3563.4 | 3558.0 |
| 22.5° | 3566.8  | 3571.3  | 3598.9  | 3638.8  | 3683.1  | 3713.0  | 3700.8  | 3655.4  | 3608.9  | 3581.2 | 3573.4 |
| 25°   | 3612.2  | 3613.3  | 3650.9  | 3705.2  | 3758.3  | 3792.6  | 3778.3  | 3714.1  | 3654.3  | 3623.3 | 3613.3 |
| 27.5° | 3706.3  | 3709.6  | 3747.2  | 3810.4  | 3855.8  | 3877.8  | 3869.0  | 3817.0  | 3766.1  | 3732.9 | 3736.2 |
| 30°   | 3842.4  | 3846.9  | 3888.9  | 3958.7  | 3986.4  | 3991.9  | 3989.7  | 3965.3  | 3918.8  | 3874.6 | 3877.8 |
| 32.5° | 4008.5  | 4010.7  | 4067.2  | 4130.3  | 4152.5  | 4156.8  | 4152.5  | 4130.3  | 4075.0  | 4015.2 | 4018.5 |
| 35°   | 4222.1  | 4228.9  | 4283.1  | 4343.9  | 4361.7  | 4370.5  | 4362.7  | 4333.9  | 4276.5  | 4217.8 | 4215.5 |
| 37.5° | 4485.7  | 4486.7  | 4543.2  | 4606.3  | 4628.5  | 4630.6  | 4621.8  | 4603.0  | 4531.0  | 4477.9 | 4474.6 |
| 40°   | 4791.1  | 4795.6  | 4862.0  | 4929.6  | 4938.4  | 4928.4  | 4940.6  | 4929.6  | 4855.4  | 4794.5 | 4804.5 |
| 42.5° | 5163.1  | 5173.1  | 5252.8  | 5319.2  | 5293.8  | 5288.2  | 5295.9  | 5299.3  | 5239.5  | 5165.3 | 5158.7 |
| 45°   | 5596.0  | 5604.8  | 5704.4  | 5757.6  | 5741.0  | 5704.4  | 5720.0  | 5746.5  | 5663.5  | 5571.6 | 5580.4 |
| 47.5° | 6089.7  | 6111.9  | 6218.1  | 6267.9  | 6227.0  | 6177.2  | 6207.1  | 6246.9  | 6149.5  | 6035.5 | 6029.9 |
| 50°   | 6638.8  | 6666.4  | 6808.1  | 6877.9  | 6836.9  | 6745.1  | 6794.9  | 6821.4  | 6680.9  | 6533.6 | 6521.5 |
| 52.5° | 7224.4  | 7252.1  | 7430.3  | 7574.2  | 7547.7  | 7404.9  | 7474.6  | 7446.9  | 7285.3  | 7087.1 | 7071.7 |
| 55°   | 7887.5  | 7898.6  | 8091.2  | 8323.7  | 8350.2  | 8245.0  | 8240.7  | 8195.3  | 7956.2  | 7727.0 | 7715.9 |
| 57.5° | 8569.4  | 8577.1  | 8826.2  | 9100.8  | 9225.9  | 9225.9  | 9101.9  | 9005.6  | 8687.9  | 8422.2 | 8394.5 |
| 60°   | 9305.6  | 9333.3  | 9608.9  | 9982.0  | 10274.2 | 10360.6 | 10141.4 | 9879.1  | 9533.6  | 9209.3 | 9177.1 |
| 62.5° | 9960.9  | 9993.1  | 10414.8 | 10970.6 | 11440.0 | 11754.4 | 11218.5 | 10791.2 | 10162.4 | 9642.2 | 9581.2 |
| 65°   | 10043.9 | 10130.3 | 10744.7 | 11751.0 | 12801.5 | 13429.3 | 12401.9 | 11349.1 | 10203.4 | 9480.5 | 9418.5 |
| 67.5° | 9172.8  | 9318.9  | 10149.1 | 11715.6 | 13886.4 | 15233.7 | 13158.0 | 11030.4 | 9468.3  | 8669.1 | 8600.4 |
| 70°   | 7048.4  | 7260.9  | 8218.5  | 10247.7 | 13699.3 | 15814.9 | 12684.2 | 9656.5  | 7894.1  | 7034.0 | 6937.7 |
| 72.5° | 3866.9  | 3954.2  | 4815.5  | 7017.3  | 10982.8 | 13439.2 | 10579.8 | 7140.3  | 5235.1  | 4259.8 | 4098.2 |
| 75°   | 1226.6  | 1257.6  | 1696.0  | 2871.6  | 6212.6  | 8901.5  | 6720.7  | 3504.9  | 1929.5  | 1422.5 | 1405.9 |
| 77.5° | 544.7   | 547.9   | 613.3   | 838.0   | 2139.9  | 4510.0  | 2570.5  | 954.3   | 657.6   | 574.6  | 593.4  |
| 80°   | 344.3   | 344.3   | 379.7   | 415.1   | 582.3   | 1309.6  | 695.2   | 453.8   | 387.4   | 359.8  | 367.5  |
| 82.5° | 165.0   | 182.7   | 246.9   | 265.7   | 319.9   | 440.6   | 356.5   | 296.7   | 259.1   | 192.6  | 179.3  |
| 85°   | 108.5   | 90.7    | 156.1   | 176.0   | 185.9   | 211.5   | 207.0   | 195.9   | 169.4   | 96.3   | 107.4  |
| 87.5° | 48.7    | 46.5    | 80.9    | 74.2    | 69.8    | 53.1    | 79.7    | 98.6    | 95.2    | 47.6   | 47.6   |
| 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)