

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: P383495

Luminaire Tested: **GLEON-SA8A-735-U-5NQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383495  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA8A-735-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35888.8 lumens  
Efficiency: N/A  
Efficacy: 139.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

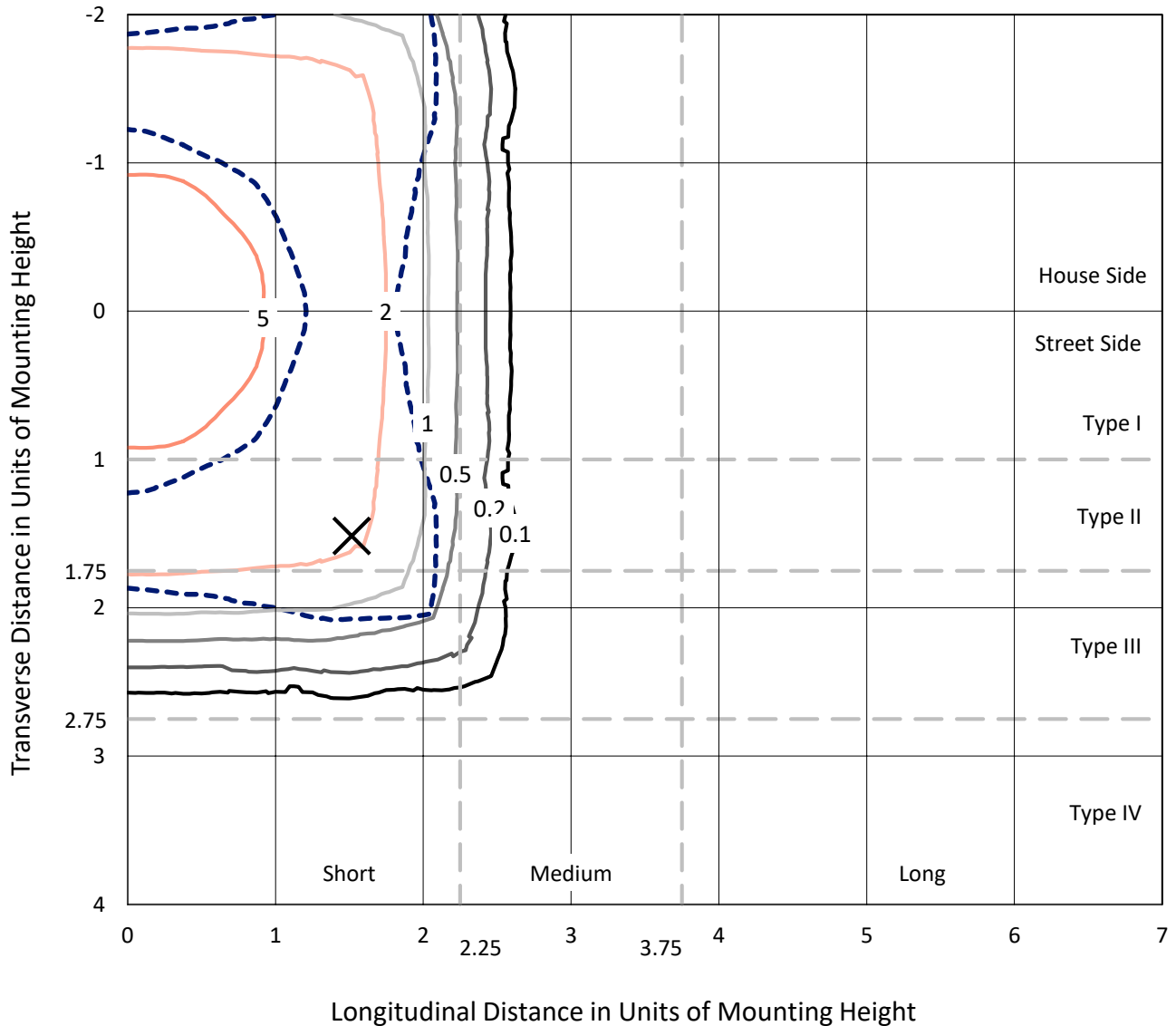
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

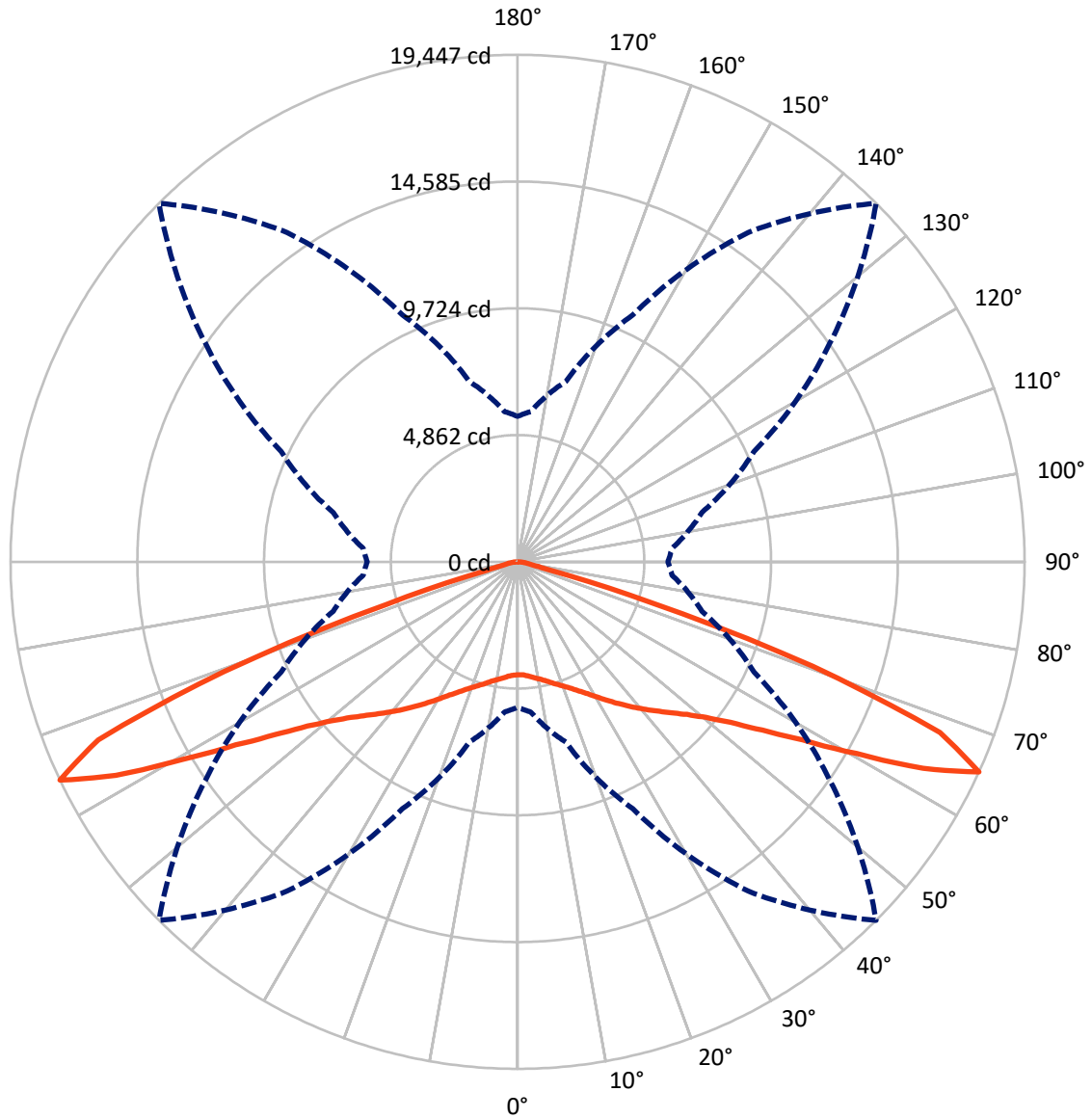
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 17944.4  | 0.0    | 17944.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 17944.4  | 0.0    | 17944.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 35888.8  | 0.0    | 35888.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 425.2   | 1.2       |
| 10°-20°   | 1366.8  | 3.8       |
| 20°-30°   | 2564.4  | 7.1       |
| 30°-40°   | 4240.9  | 11.8      |
| 40°-50°   | 6568.6  | 18.3      |
| 50°-60°   | 10074.4 | 28.1      |
| 60°-70°   | 9400.6  | 26.2      |
| 70°-80°   | 1094.1  | 3.0       |
| 80°-90°   | 153.7   | 0.4       |
| 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°    | 35888.8 | 100.0     |
| 0°-180°   | 35888.8 | 100.0     |

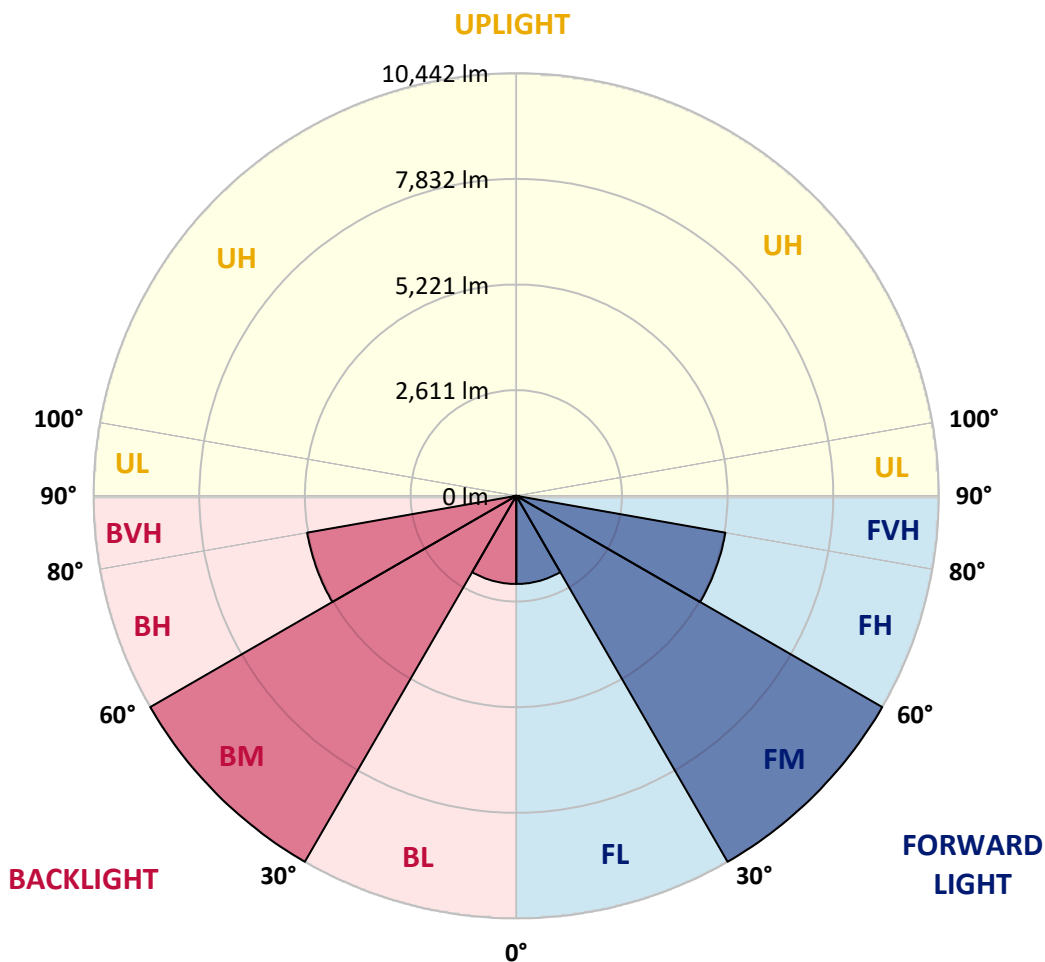


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2178.2  | 6.1       |                         |      |         |
| FM (30°-60°)   | 10442.0 | 29.1      |                         |      |         |
| FH (60°-80°)   | 5247.3  | 14.6      |                         |      | G3/7500 |
| FVH (80°-90°)  | 76.9    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 2178.2  | 6.1       | B3/2500                 |      |         |
| BM (30°-60°)   | 10442.0 | 29.1      | B5                      |      |         |
| BH (60°-80°)   | 5247.3  | 14.6      | B5                      |      | G3/7500 |
| BVH (80°-90°)  | 76.9    | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4334.0  | 4334.0  | 4334.0  | 4334.0  | 4334.0  | 4334.0  | 4334.0  | 4334.0  | 4334.0  | 4334.0  | 4334.0  |
| 2.5°  | 4348.3  | 4345.9  | 4348.3  | 4349.5  | 4342.4  | 4345.9  | 4344.7  | 4350.7  | 4353.1  | 4350.7  | 4350.7  |
| 5°    | 4398.4  | 4394.8  | 4399.5  | 4405.5  | 4396.0  | 4398.4  | 4394.8  | 4401.9  | 4404.4  | 4399.5  | 4403.1  |
| 7.5°  | 4467.4  | 4468.6  | 4473.4  | 4484.1  | 4478.1  | 4483.0  | 4475.8  | 4477.0  | 4475.8  | 4468.6  | 4469.8  |
| 10°   | 4542.5  | 4543.7  | 4552.0  | 4566.4  | 4568.7  | 4568.7  | 4563.9  | 4560.4  | 4555.6  | 4550.9  | 4552.0  |
| 12.5° | 4633.1  | 4639.0  | 4645.0  | 4662.9  | 4662.9  | 4672.4  | 4669.9  | 4660.4  | 4652.1  | 4645.0  | 4645.0  |
| 15°   | 4755.7  | 4754.5  | 4761.7  | 4779.6  | 4787.9  | 4803.4  | 4803.4  | 4790.3  | 4779.6  | 4772.4  | 4770.1  |
| 17.5° | 4884.4  | 4888.0  | 4892.8  | 4914.2  | 4927.3  | 4945.2  | 4947.5  | 4936.8  | 4929.7  | 4920.2  | 4914.2  |
| 20°   | 5034.5  | 5040.5  | 5059.5  | 5067.9  | 5079.8  | 5096.5  | 5102.5  | 5100.0  | 5092.9  | 5088.1  | 5089.3  |
| 22.5° | 5209.7  | 5225.1  | 5237.1  | 5249.0  | 5263.2  | 5275.2  | 5281.1  | 5289.5  | 5282.3  | 5278.7  | 5276.4  |
| 25°   | 5421.7  | 5432.4  | 5456.3  | 5477.7  | 5487.2  | 5490.8  | 5498.0  | 5509.8  | 5508.7  | 5500.3  | 5500.3  |
| 27.5° | 5662.3  | 5682.6  | 5712.3  | 5743.4  | 5743.4  | 5731.4  | 5755.3  | 5775.5  | 5768.4  | 5757.6  | 5743.4  |
| 30°   | 5954.3  | 5973.3  | 6007.8  | 6050.7  | 6029.3  | 6021.0  | 6053.1  | 6090.0  | 6079.3  | 6061.5  | 6059.1  |
| 32.5° | 6268.8  | 6286.6  | 6331.9  | 6378.3  | 6350.9  | 6339.0  | 6373.6  | 6427.2  | 6408.1  | 6372.3  | 6350.9  |
| 35°   | 6609.4  | 6627.3  | 6691.7  | 6747.7  | 6701.2  | 6681.0  | 6709.6  | 6767.9  | 6734.5  | 6667.8  | 6651.2  |
| 37.5° | 6980.0  | 6989.5  | 7072.9  | 7130.1  | 7097.9  | 7044.3  | 7080.0  | 7122.9  | 7094.3  | 7013.3  | 6981.1  |
| 40°   | 7364.7  | 7399.3  | 7495.8  | 7562.5  | 7506.5  | 7421.9  | 7481.5  | 7541.1  | 7498.2  | 7394.5  | 7339.8  |
| 42.5° | 7813.9  | 7840.1  | 7968.7  | 8028.4  | 7937.8  | 7818.7  | 7899.6  | 7980.7  | 7937.8  | 7837.7  | 7790.1  |
| 45°   | 8280.9  | 8321.4  | 8475.0  | 8534.7  | 8403.6  | 8252.3  | 8351.1  | 8492.9  | 8489.4  | 8345.2  | 8295.2  |
| 47.5° | 8789.5  | 8830.0  | 9013.6  | 9092.2  | 8950.4  | 8747.9  | 8887.2  | 9087.4  | 9073.1  | 8914.6  | 8874.1  |
| 50°   | 9376.9  | 9419.8  | 9648.5  | 9747.4  | 9615.2  | 9379.3  | 9589.0  | 9765.2  | 9739.1  | 9543.7  | 9547.2  |
| 52.5° | 10114.3 | 10111.9 | 10396.6 | 10568.2 | 10432.4 | 10223.9 | 10416.9 | 10588.4 | 10480.1 | 10209.7 | 10201.3 |
| 55°   | 10760.0 | 10799.3 | 11151.9 | 11477.2 | 11468.8 | 11389.0 | 11466.5 | 11473.6 | 11163.9 | 10804.1 | 10760.0 |
| 57.5° | 11184.2 | 11259.2 | 11755.9 | 12344.5 | 12785.3 | 12891.3 | 12741.1 | 12286.1 | 11560.6 | 10985.2 | 10914.9 |
| 60°   | 10923.2 | 11037.6 | 11817.9 | 13017.5 | 14316.1 | 14939.1 | 14092.2 | 12680.4 | 11252.1 | 10450.3 | 10355.0 |
| 62.5° | 9162.4  | 9355.4  | 10497.9 | 12692.3 | 15633.7 | 17455.2 | 15071.4 | 12047.8 | 10024.9 | 8920.6  | 8757.4  |
| 65°   | 5580.2  | 5783.9  | 7161.0  | 10446.7 | 15420.5 | 19447.2 | 14624.6 | 10000.0 | 7317.1  | 5943.5  | 5767.2  |
| 67.5° | 1859.6  | 1919.2  | 2730.6  | 5774.3  | 12119.3 | 17473.1 | 12139.6 | 5986.4  | 3184.4  | 2111.0  | 2049.0  |
| 70°   | 727.9   | 733.9   | 866.1   | 1673.8  | 5723.1  | 12001.4 | 6315.2  | 1703.6  | 905.4   | 716.0   | 731.5   |
| 72.5° | 534.9   | 537.3   | 574.2   | 699.3   | 1491.5  | 5287.1  | 1545.2  | 702.9   | 558.7   | 501.5   | 501.5   |
| 75°   | 430.1   | 430.1   | 456.3   | 509.9   | 668.3   | 1212.8  | 677.9   | 504.0   | 437.2   | 400.3   | 395.5   |
| 77.5° | 339.5   | 346.6   | 366.9   | 401.5   | 452.7   | 583.7   | 469.4   | 399.1   | 352.6   | 318.1   | 311.0   |
| 80°   | 252.5   | 259.7   | 293.1   | 309.7   | 325.2   | 405.0   | 346.6   | 312.2   | 278.8   | 238.3   | 231.1   |
| 82.5° | 165.6   | 172.7   | 214.4   | 223.9   | 220.4   | 264.5   | 233.5   | 229.9   | 204.9   | 153.7   | 146.5   |
| 85°   | 108.4   | 110.8   | 143.0   | 149.0   | 137.0   | 120.4   | 149.0   | 157.2   | 143.0   | 100.0   | 96.5    |
| 87.5° | 51.2    | 51.2    | 72.7    | 67.9    | 61.9    | 50.0    | 67.9    | 79.8    | 81.0    | 48.8    | 47.7    |
| 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)