

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: P530986

Luminaire Tested: **GALN-SA6B-730-U-RW-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530986  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-730-U-RW-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26927 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

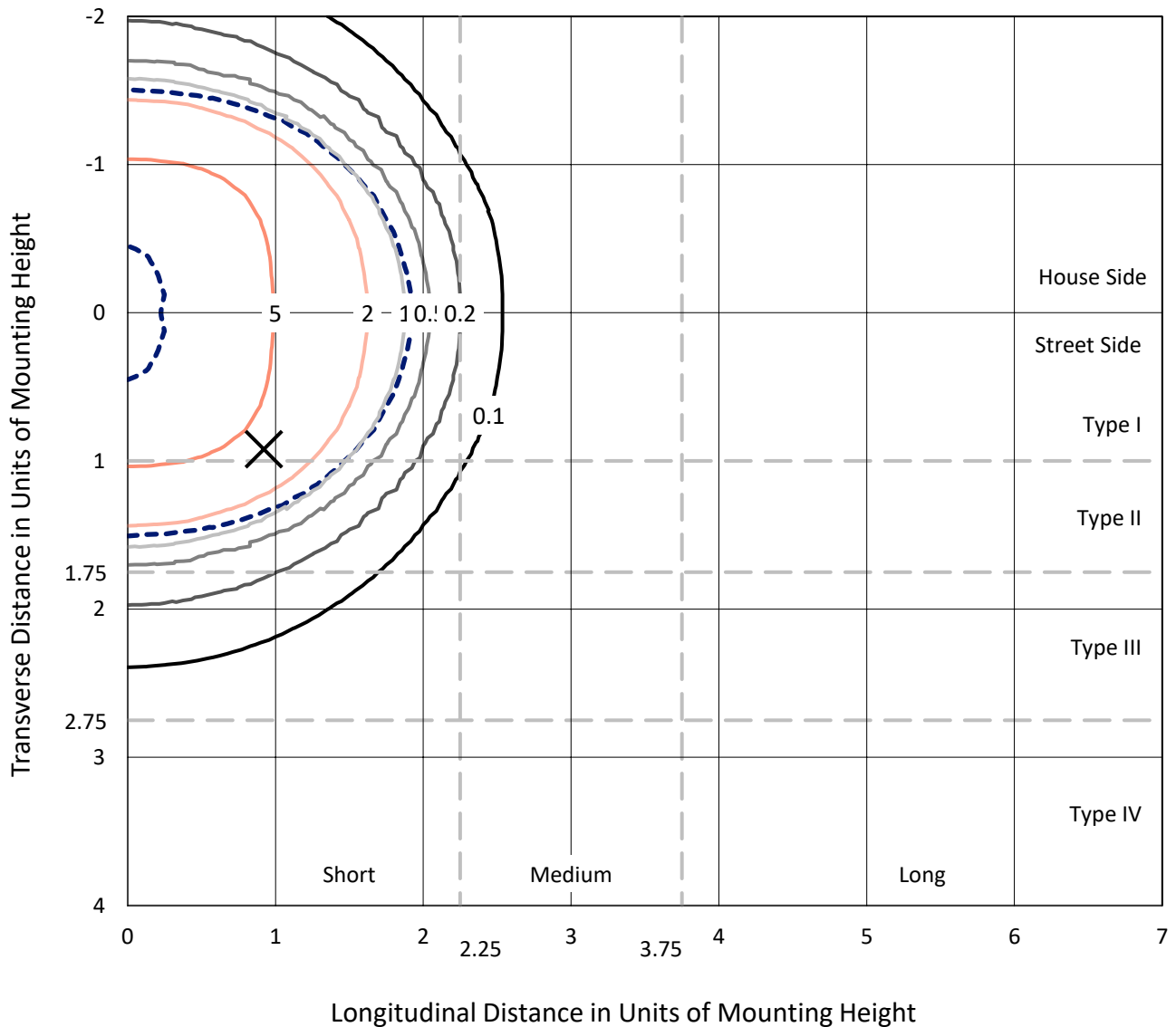
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

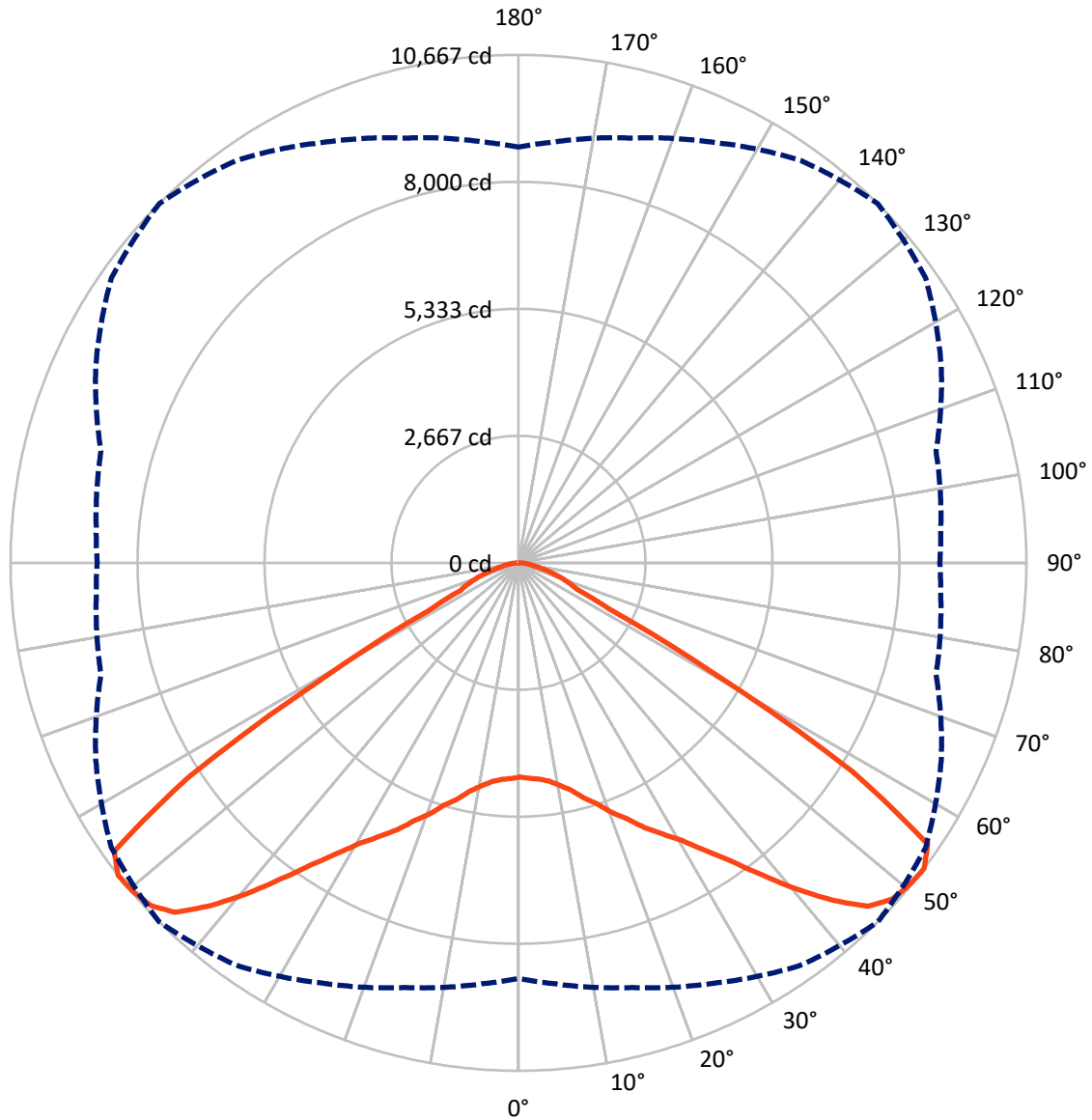
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 13463.5  | 0.0    | 13463.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 13463.5  | 0.0    | 13463.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 26927.0  | 0.0    | 26927.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 442.2   | 1.6       |
| 10°-20°   | 1453.1  | 5.4       |
| 20°-30°   | 2766.6  | 10.3      |
| 30°-40°   | 4750.4  | 17.6      |
| 40°-50°   | 7301.5  | 27.1      |
| 50°-60°   | 7414.5  | 27.5      |
| 60°-70°   | 2066.3  | 7.7       |
| 70°-80°   | 609.5   | 2.3       |
| 80°-90°   | 122.8   | 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°    | 26927.0 | 100.0     |
| 0°-180°   | 26927.0 | 100.0     |

**Coefficient of Utilization**



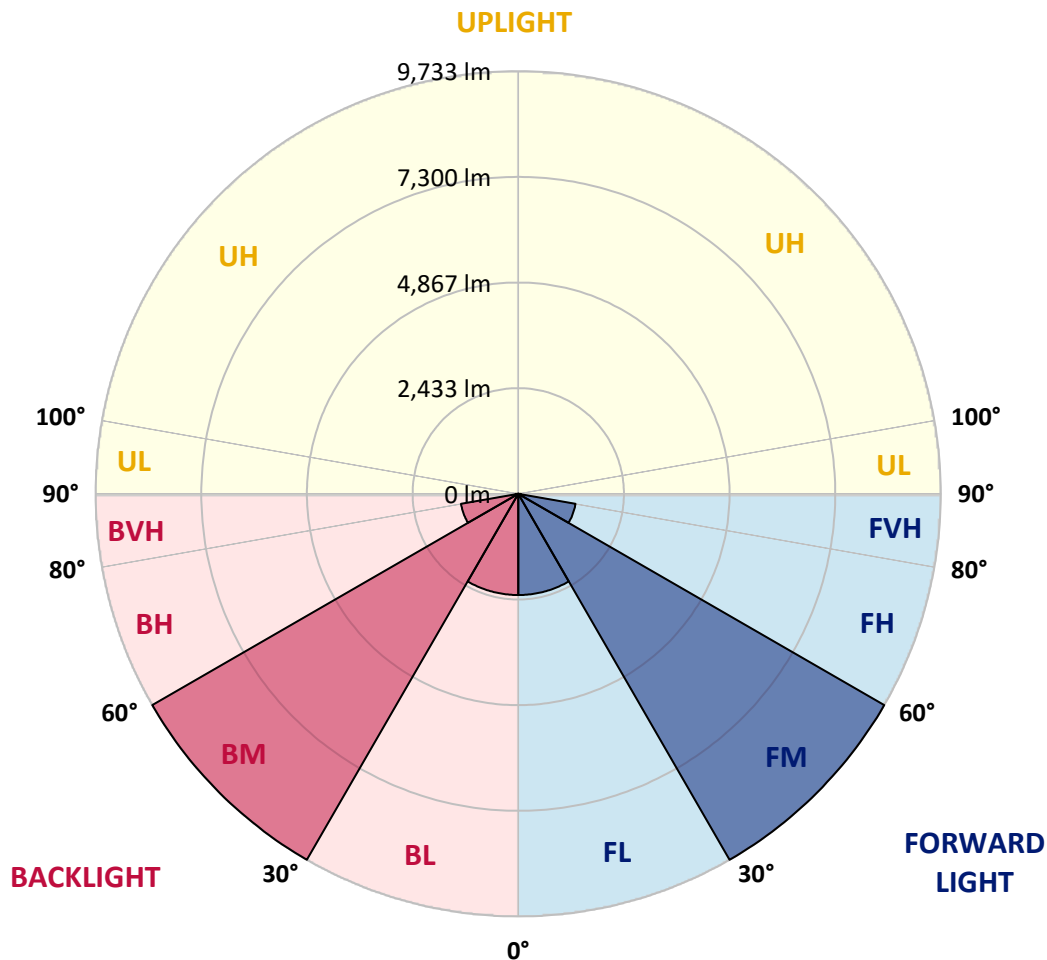
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 2331.0 | 8.7       |                         |      |         |
| FM (30°-60°)   | 9733.2 | 36.1      |                         |      |         |
| FH (60°-80°)   | 1337.9 | 5.0       |                         |      | G1/1800 |
| FVH (80°-90°)  | 61.4   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 2331.0 | 8.7       | B3/2500                 |      |         |
| BM (30°-60°)   | 9733.2 | 36.1      | B5                      |      |         |
| BH (60°-80°)   | 1337.9 | 5.0       | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 61.4   | 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-G1**

Type V Short





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CATALOG NUMBER: GALN-SA6B-730-U-RW-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 45°     | 55°     | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 4501.2 | 4501.2 | 4501.2 | 4501.2  | 4501.2  | 4501.2  | 4501.2  | 4501.2 | 4501.2 | 4501.2 | 4501.2 |
| 2.5°  | 4511.2 | 4464.4 | 4481.2 | 4491.2  | 4534.6  | 4531.3  | 4521.3  | 4534.6 | 4548.0 | 4551.3 | 4544.6 |
| 5°    | 4507.9 | 4474.5 | 4487.8 | 4497.9  | 4541.3  | 4564.7  | 4558.0  | 4614.8 | 4654.9 | 4644.9 | 4695.0 |
| 7.5°  | 4481.2 | 4501.2 | 4484.5 | 4534.6  | 4571.4  | 4628.2  | 4688.3  | 4741.8 | 4791.9 | 4848.7 | 4858.8 |
| 10°   | 4541.3 | 4541.3 | 4571.4 | 4611.5  | 4708.4  | 4751.8  | 4838.7  | 4915.6 | 5012.5 | 5079.3 | 5052.6 |
| 12.5° | 4604.8 | 4614.8 | 4614.8 | 4718.4  | 4798.6  | 4895.5  | 4975.7  | 5079.3 | 5216.3 | 5296.5 | 5336.6 |
| 15°   | 4668.3 | 4675.0 | 4708.4 | 4848.7  | 4969.0  | 5122.7  | 5196.3  | 5289.8 | 5366.7 | 5517.1 | 5520.4 |
| 17.5° | 4725.1 | 4761.9 | 4862.1 | 5019.2  | 5169.5  | 5316.6  | 5433.5  | 5530.4 | 5597.3 | 5657.4 | 5644.0 |
| 20°   | 4939.0 | 4965.7 | 5069.3 | 5226.3  | 5450.2  | 5593.9  | 5634.0  | 5650.7 | 5694.2 | 5814.5 | 5777.7 |
| 22.5° | 5146.1 | 5156.2 | 5253.1 | 5493.7  | 5650.7  | 5841.2  | 5884.6  | 5874.6 | 5891.3 | 5921.4 | 5974.9 |
| 25°   | 5360.0 | 5376.7 | 5510.4 | 5714.2  | 5934.8  | 6162.0  | 6198.8  | 6121.9 | 6098.5 | 6131.9 | 6135.3 |
| 27.5° | 5634.0 | 5637.4 | 5807.8 | 5984.9  | 6235.5  | 6449.4  | 6506.2  | 6446.0 | 6335.8 | 6362.5 | 6405.9 |
| 30°   | 5981.6 | 5958.2 | 6128.6 | 6382.6  | 6646.5  | 6766.8  | 6863.7  | 6833.7 | 6713.4 | 6690.0 | 6653.2 |
| 32.5° | 6382.6 | 6389.2 | 6543.0 | 6820.3  | 6994.1  | 7194.6  | 7298.2  | 7248.0 | 7171.2 | 7131.1 | 7154.5 |
| 35°   | 6947.3 | 6977.4 | 7081.0 | 7311.5  | 7592.2  | 7692.5  | 7856.2  | 7749.3 | 7548.8 | 7598.9 | 7642.4 |
| 37.5° | 7411.8 | 7498.7 | 7692.5 | 7966.5  | 8133.6  | 8317.4  | 8377.5  | 8233.8 | 8086.8 | 8026.6 | 8170.3 |
| 40°   | 8123.6 | 8096.8 | 8310.7 | 8584.7  | 8832.0  | 9015.8  | 8938.9  | 8795.2 | 8431.0 | 8434.3 | 8474.4 |
| 42.5° | 8735.1 | 8748.4 | 8912.2 | 9239.7  | 9577.2  | 9690.8  | 9446.8  | 9096.0 | 8691.6 | 8648.2 | 8735.1 |
| 45°   | 9249.7 | 9303.2 | 9396.7 | 9834.5  | 10165.3 | 10288.9 | 9837.8  | 9423.5 | 8882.1 | 8701.7 | 8845.3 |
| 47.5° | 9433.5 | 9520.4 | 9724.2 | 10125.2 | 10452.7 | 10552.9 | 10192.0 | 9597.2 | 9059.2 | 8765.1 | 8842.0 |
| 50°   | 9460.2 | 9430.1 | 9764.3 | 10131.9 | 10419.3 | 10636.5 | 10319.0 | 9724.2 | 9015.8 | 8862.1 | 8838.7 |
| 52.5° | 8728.4 | 8875.4 | 9233.0 | 9737.6  | 10319.0 | 10666.5 | 10432.6 | 9794.4 | 9075.9 | 8902.2 | 8845.3 |
| 55°   | 7064.2 | 6890.5 | 7542.1 | 8390.9  | 9460.2  | 10425.9 | 10392.5 | 9831.1 | 9112.7 | 8969.0 | 8892.1 |
| 57.5° | 3943.1 | 3993.3 | 4360.9 | 5283.1  | 6663.3  | 8267.2  | 9239.7  | 9443.5 | 9096.0 | 9012.4 | 9052.5 |
| 60°   | 1824.5 | 1841.2 | 1998.3 | 2429.4  | 3284.8  | 4688.3  | 5968.2  | 7268.1 | 7866.2 | 7986.5 | 7986.5 |
| 62.5° | 1360.1 | 1353.4 | 1393.5 | 1470.3  | 1650.8  | 2155.4  | 2877.2  | 3909.7 | 4731.8 | 5306.5 | 5456.9 |
| 65°   | 1229.7 | 1226.4 | 1246.4 | 1273.2  | 1286.5  | 1356.7  | 1517.1  | 1834.6 | 2101.9 | 2255.6 | 2228.9 |
| 67.5° | 1076.0 | 1072.7 | 1079.4 | 1096.1  | 1119.5  | 1156.2  | 1196.3  | 1263.1 | 1356.7 | 1350.0 | 1333.3 |
| 70°   | 868.8  | 868.8  | 878.9  | 892.2   | 919.0   | 962.4   | 1009.2  | 1056.0 | 1136.2 | 1152.9 | 1149.5 |
| 72.5° | 641.6  | 631.6  | 651.6  | 678.4   | 705.1   | 758.6   | 808.7   | 852.1  | 908.9  | 925.6  | 919.0  |
| 75°   | 407.7  | 414.4  | 427.7  | 457.8   | 504.6   | 541.3   | 594.8   | 631.6  | 668.3  | 681.7  | 685.0  |
| 77.5° | 227.2  | 233.9  | 257.3  | 294.1   | 340.8   | 380.9   | 427.7   | 457.8  | 481.2  | 484.5  | 487.9  |
| 80°   | 137.0  | 140.3  | 163.7  | 197.2   | 237.3   | 280.7   | 317.5   | 347.5  | 367.6  | 357.6  | 354.2  |
| 82.5° | 83.5   | 86.9   | 106.9  | 137.0   | 170.4   | 203.8   | 243.9   | 270.7  | 290.7  | 277.4  | 264.0  |
| 85°   | 43.4   | 46.8   | 63.5   | 83.5    | 110.3   | 127.0   | 127.0   | 113.6  | 110.3  | 103.6  | 100.2  |
| 87.5° | 13.4   | 13.4   | 16.7   | 20.0    | 16.7    | 20.0    | 23.4    | 26.7   | 26.7   | 30.1   | 26.7   |
| 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)