

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: P531734

Luminaire Tested: **GALN-SA7A-740-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531734  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-740-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28690 lumens  
Efficiency: N/A  
Efficacy: 133.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

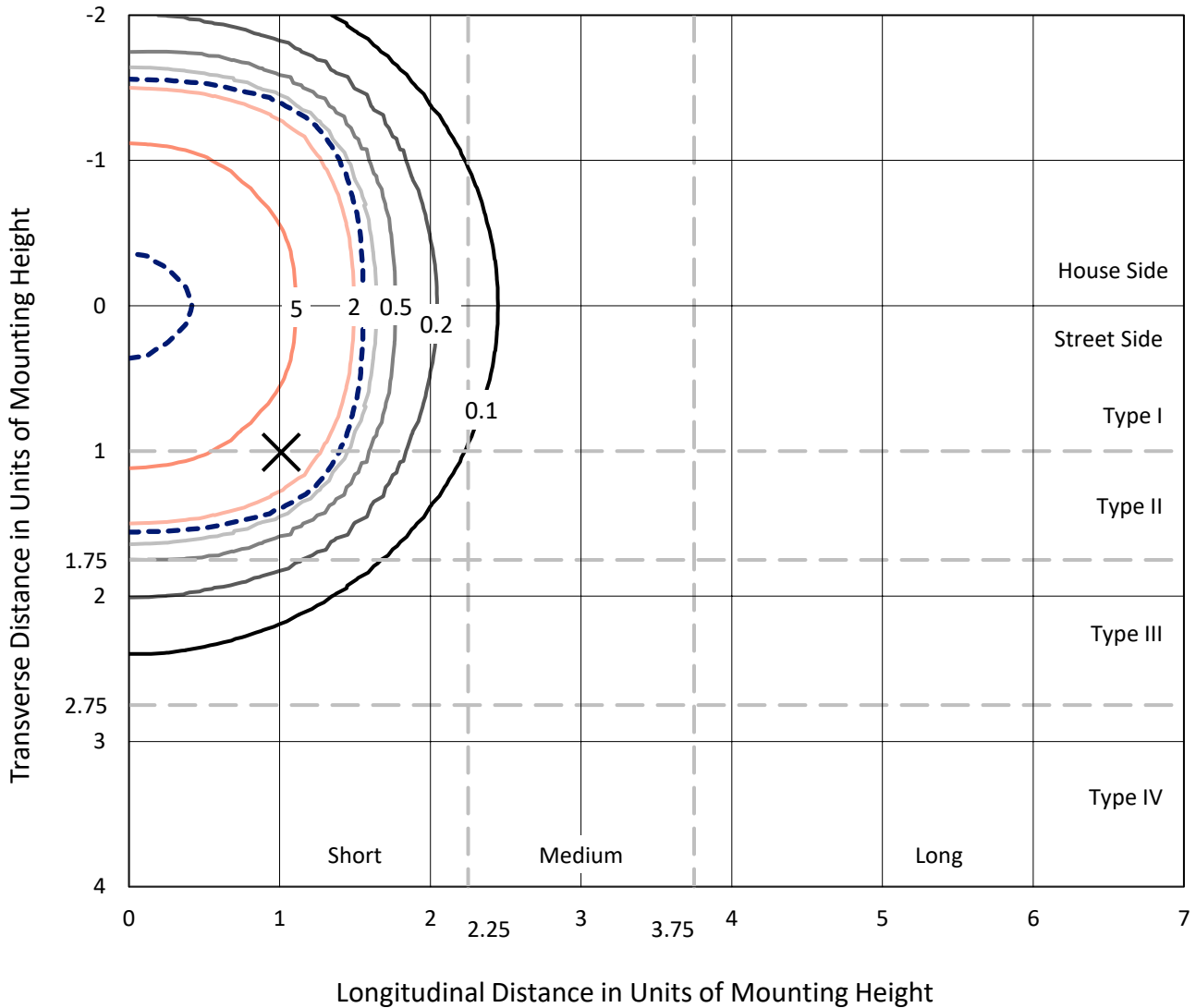
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P531734  
 CATALOG NUMBER: GALN-SA7A-740-U-5NQ-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

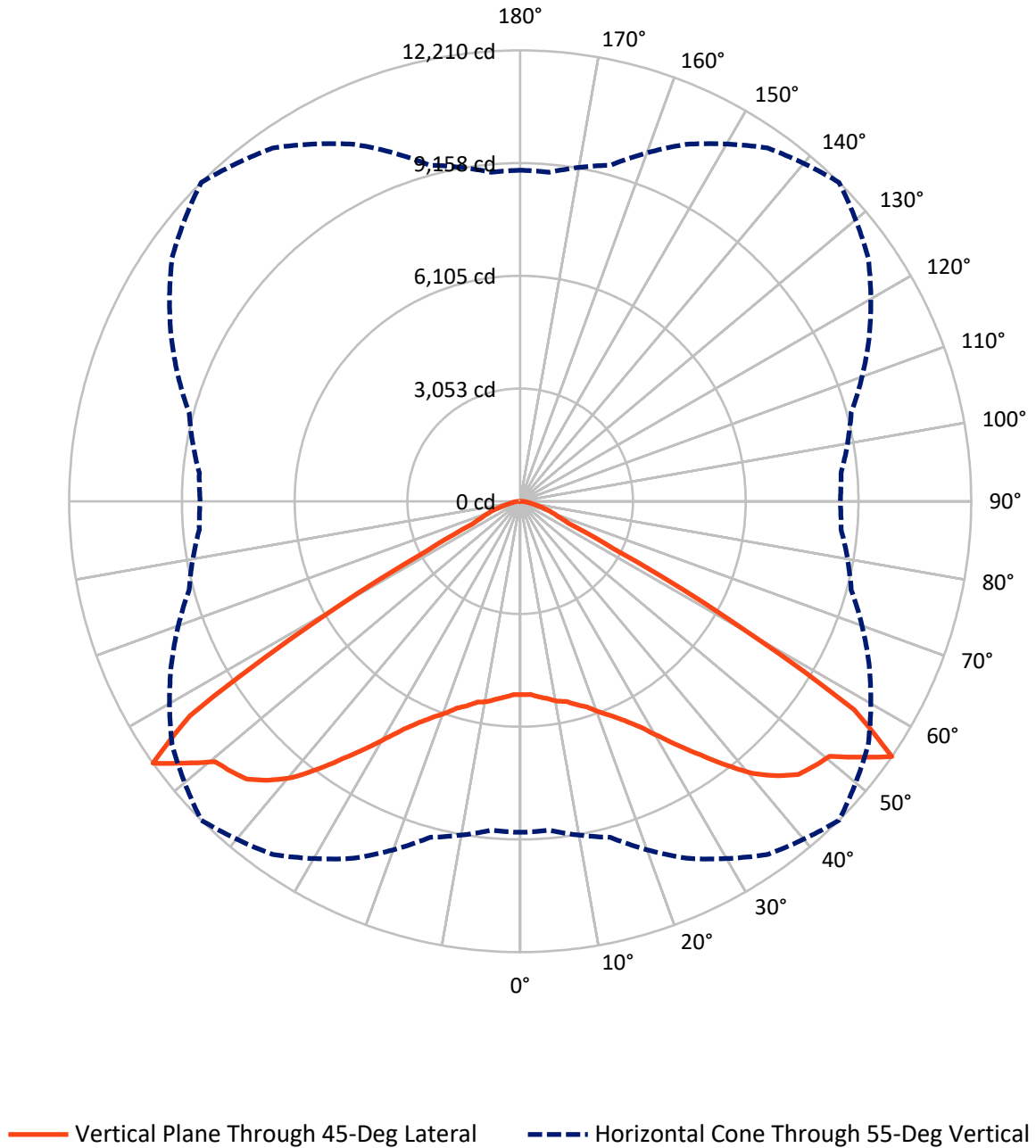
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type V - Short - N/A

REPORT NUMBER: P531734  
CATALOG NUMBER: GALN-SA7A-740-U-5NQ-GRSWH

### Luminous Intensity Polar Plot



REPORT NUMBER: P531734  
 CATALOG NUMBER: GALN-SA7A-740-U-5NQ-GRSWH

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 14345.0  | 0.0    | 14345.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 14345.0  | 0.0    | 14345.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 28690.0  | 0.0    | 28690.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 511.7   | 1.8       |
| 10°-20°   | 1621.4  | 5.7       |
| 20°-30°   | 3023.5  | 10.5      |
| 30°-40°   | 5062.3  | 17.6      |
| 40°-50°   | 7877.3  | 27.5      |
| 50°-60°   | 8179.1  | 28.5      |
| 60°-70°   | 1734.5  | 6.0       |
| 70°-80°   | 571.2   | 2.0       |
| 80°-90°   | 108.8   | 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°    | 28690.0 | 100.0     |
| 0°-180°   | 28690.0 | 100.0     |

**Coefficient of Utilization**

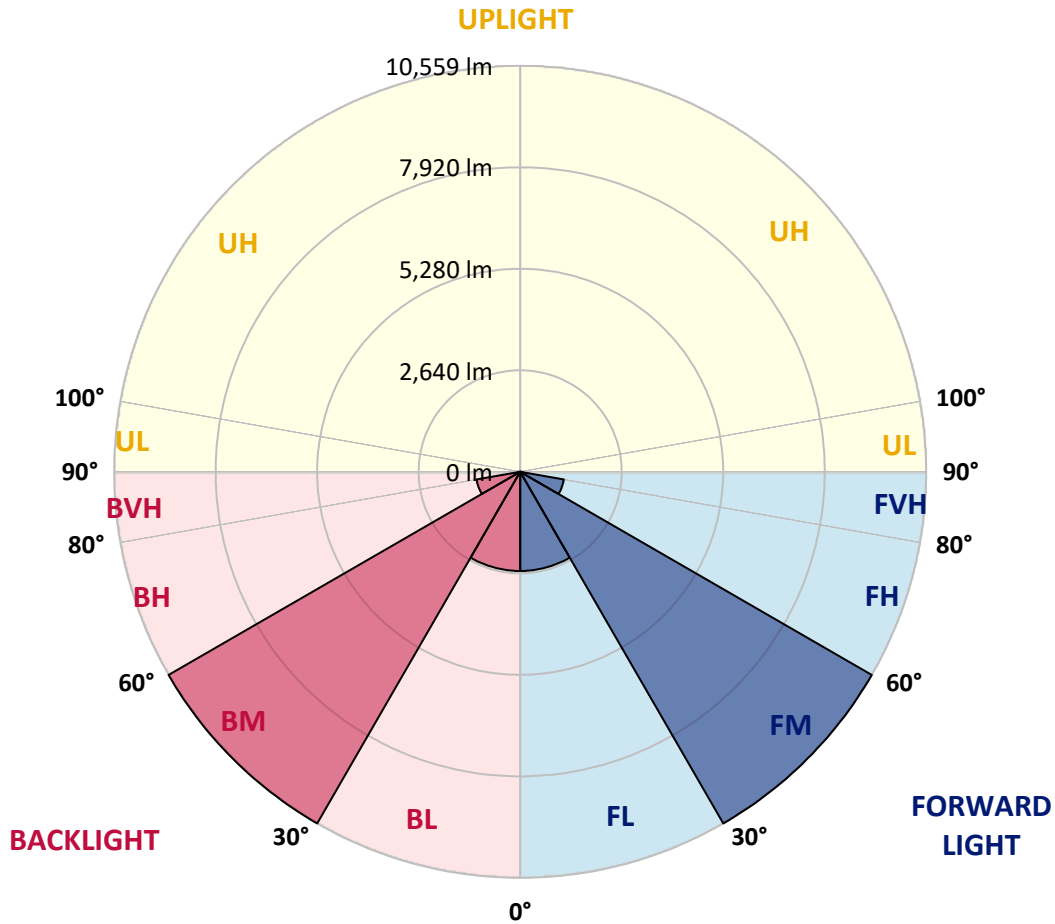


REPORT NUMBER: P531734  
 CATALOG NUMBER: GALN-SA7A-740-U-5NQ-GRSWH

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2578.3  | 9.0       |                         |      |         |
| FM (30°-60°)   | 10559.4 | 36.8      |                         |      |         |
| FH (60°-80°)   | 1152.9  | 4.0       |                         |      | G1/1800 |
| FVH (80°-90°)  | 54.4    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 2578.3  | 9.0       | B4/5000                 |      |         |
| BM (30°-60°)   | 10559.4 | 36.8      | B5                      |      |         |
| BH (60°-80°)   | 1152.9  | 4.0       | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 54.4    | 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





REPORT NUMBER: P531734

CATALOG NUMBER: GALN-SA7A-740-U-5NQ-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5238.4  | 5238.4  | 5238.4  | 5238.4  | 5238.4  | 5238.4  | 5238.4  | 5238.4  | 5238.4  | 5238.4  | 5238.4  |
| 2.5°  | 5300.8  | 5276.5  | 5234.9  | 5266.1  | 5290.4  | 5238.4  | 5259.2  | 5269.6  | 5262.6  | 5234.9  | 5245.3  |
| 5°    | 5377.0  | 5363.2  | 5328.5  | 5352.8  | 5321.6  | 5321.6  | 5300.8  | 5273.0  | 5314.6  | 5307.7  | 5325.0  |
| 7.5°  | 5377.0  | 5359.7  | 5429.0  | 5384.0  | 5397.8  | 5397.8  | 5363.2  | 5335.4  | 5356.2  | 5325.0  | 5307.7  |
| 10°   | 5484.5  | 5508.8  | 5477.6  | 5488.0  | 5481.0  | 5505.3  | 5453.3  | 5436.0  | 5418.6  | 5408.2  | 5387.4  |
| 12.5° | 5612.8  | 5595.4  | 5605.8  | 5598.9  | 5623.2  | 5560.8  | 5529.6  | 5491.4  | 5522.6  | 5477.6  | 5508.8  |
| 15°   | 5716.8  | 5706.4  | 5716.8  | 5744.5  | 5720.3  | 5716.8  | 5661.3  | 5623.2  | 5574.6  | 5585.0  | 5536.5  |
| 17.5° | 5858.9  | 5848.5  | 5852.0  | 5876.3  | 5872.8  | 5855.5  | 5813.9  | 5741.1  | 5723.7  | 5696.0  | 5664.8  |
| 20°   | 6070.4  | 6053.1  | 6046.1  | 6056.5  | 6073.9  | 6087.7  | 6004.5  | 5976.8  | 5917.9  | 5872.8  | 5820.8  |
| 22.5° | 6250.7  | 6243.7  | 6271.5  | 6226.4  | 6264.5  | 6306.1  | 6226.4  | 6212.5  | 6066.9  | 6042.7  | 5987.2  |
| 25°   | 6500.3  | 6489.9  | 6472.6  | 6538.4  | 6583.5  | 6580.0  | 6503.8  | 6427.5  | 6316.5  | 6288.8  | 6288.8  |
| 27.5° | 6763.8  | 6704.8  | 6795.0  | 6812.3  | 6892.0  | 6916.3  | 6850.4  | 6739.5  | 6635.5  | 6576.6  | 6590.4  |
| 30°   | 7093.1  | 7037.6  | 7058.4  | 7183.3  | 7287.3  | 7377.4  | 7211.0  | 7048.0  | 6902.4  | 6798.4  | 6781.1  |
| 32.5° | 7422.5  | 7367.0  | 7429.4  | 7550.7  | 7758.7  | 7894.0  | 7731.0  | 7446.7  | 7276.9  | 7124.3  | 7155.5  |
| 35°   | 7689.4  | 7731.0  | 7831.5  | 8015.3  | 8230.2  | 8448.6  | 8188.6  | 7970.2  | 7727.5  | 7557.7  | 7581.9  |
| 37.5° | 8119.3  | 8247.6  | 8327.3  | 8538.8  | 8843.9  | 9069.2  | 8798.8  | 8514.5  | 8254.5  | 8032.6  | 7956.4  |
| 40°   | 8680.9  | 8767.6  | 8857.7  | 9107.3  | 9467.9  | 9693.2  | 9436.7  | 9065.7  | 8809.2  | 8580.4  | 8570.0  |
| 42.5° | 9298.0  | 9381.2  | 9474.8  | 9779.9  | 9994.8  | 10164.7 | 9929.0  | 9731.4  | 9447.1  | 9266.8  | 9256.4  |
| 45°   | 10015.6 | 9956.7  | 10060.7 | 10261.8 | 10442.1 | 10553.0 | 10400.5 | 10303.4 | 10098.8 | 9932.4  | 9915.1  |
| 47.5° | 10494.1 | 10442.1 | 10629.3 | 10809.5 | 10837.3 | 10715.9 | 10747.1 | 10837.3 | 10622.3 | 10348.5 | 10435.1 |
| 50°   | 10771.4 | 10771.4 | 10896.2 | 11062.6 | 11010.6 | 10854.6 | 11100.8 | 11107.7 | 10892.8 | 10650.1 | 10650.1 |
| 52.5° | 10289.5 | 10397.0 | 10750.6 | 11294.9 | 11468.2 | 11513.3 | 11457.8 | 11222.1 | 10660.5 | 10164.7 | 10140.5 |
| 55°   | 8965.2  | 8940.9  | 9419.4  | 10667.4 | 11676.3 | 12210.1 | 11502.9 | 10417.8 | 9277.2  | 8719.1  | 8663.6  |
| 57.5° | 5831.2  | 5858.9  | 6573.1  | 7845.4  | 9665.5  | 10660.5 | 9467.9  | 7942.5  | 6573.1  | 5803.5  | 5876.3  |
| 60°   | 2624.4  | 2718.0  | 3151.3  | 4101.2  | 5664.8  | 6476.0  | 5678.7  | 4309.3  | 3307.3  | 2870.5  | 2908.7  |
| 62.5° | 1508.1  | 1525.4  | 1542.7  | 1830.5  | 2412.9  | 2853.2  | 2506.5  | 1934.5  | 1705.7  | 1629.4  | 1629.4  |
| 65°   | 1272.3  | 1261.9  | 1265.4  | 1289.7  | 1352.1  | 1442.2  | 1404.1  | 1352.1  | 1359.0  | 1352.1  | 1341.7  |
| 67.5° | 1081.6  | 1095.5  | 1085.1  | 1102.4  | 1105.9  | 1119.8  | 1144.1  | 1164.9  | 1168.3  | 1175.3  | 1168.3  |
| 70°   | 887.5   | 891.0   | 897.9   | 911.8   | 915.2   | 925.6   | 960.3   | 977.6   | 988.0   | 988.0   | 1001.9  |
| 72.5° | 679.5   | 676.0   | 683.0   | 696.8   | 714.2   | 717.6   | 748.8   | 773.1   | 787.0   | 769.6   | 773.1   |
| 75°   | 447.2   | 450.7   | 461.1   | 471.5   | 495.8   | 520.0   | 530.4   | 554.7   | 558.2   | 565.1   | 547.8   |
| 77.5° | 266.9   | 273.9   | 284.3   | 305.1   | 325.9   | 346.7   | 370.9   | 388.3   | 395.2   | 388.3   | 367.5   |
| 80°   | 173.3   | 173.3   | 187.2   | 204.5   | 228.8   | 246.1   | 260.0   | 273.9   | 284.3   | 273.9   | 266.9   |
| 82.5° | 107.5   | 107.5   | 124.8   | 145.6   | 162.9   | 173.3   | 194.1   | 211.5   | 221.9   | 214.9   | 204.5   |
| 85°   | 55.5    | 58.9    | 72.8    | 90.1    | 104.0   | 110.9   | 107.5   | 97.1    | 86.7    | 83.2    | 76.3    |
| 87.5° | 17.3    | 17.3    | 20.8    | 20.8    | 17.3    | 17.3    | 20.8    | 17.3    | 20.8    | 20.8    | 20.8    |
| 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)