

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: P534080

Luminaire Tested: **GALN-SA9C-740-U-RW-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534080  
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-SA9C-740-U-RW-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 1050mA 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: 55846 lumens  
Efficiency: N/A  
Efficacy: 116.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

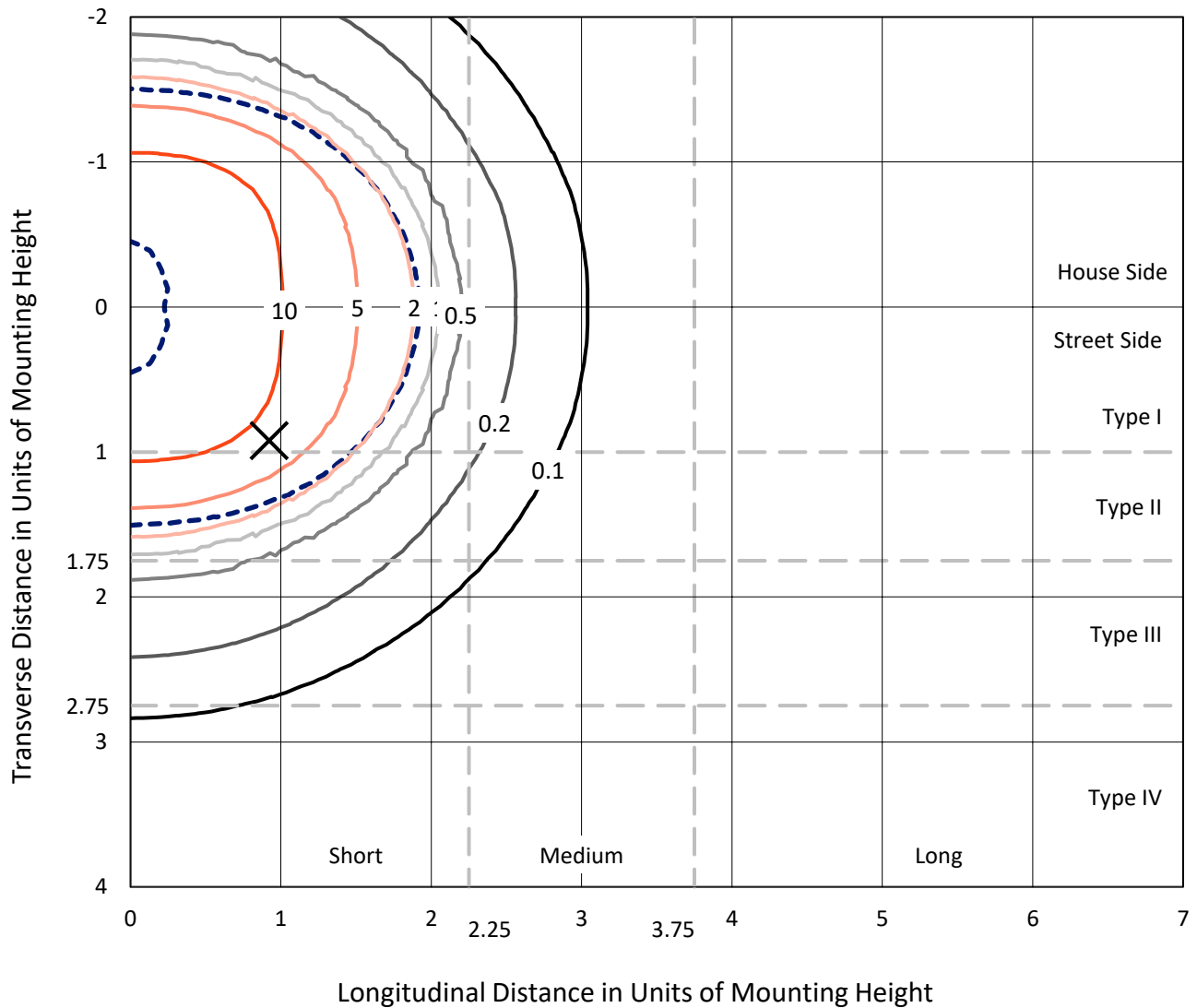
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

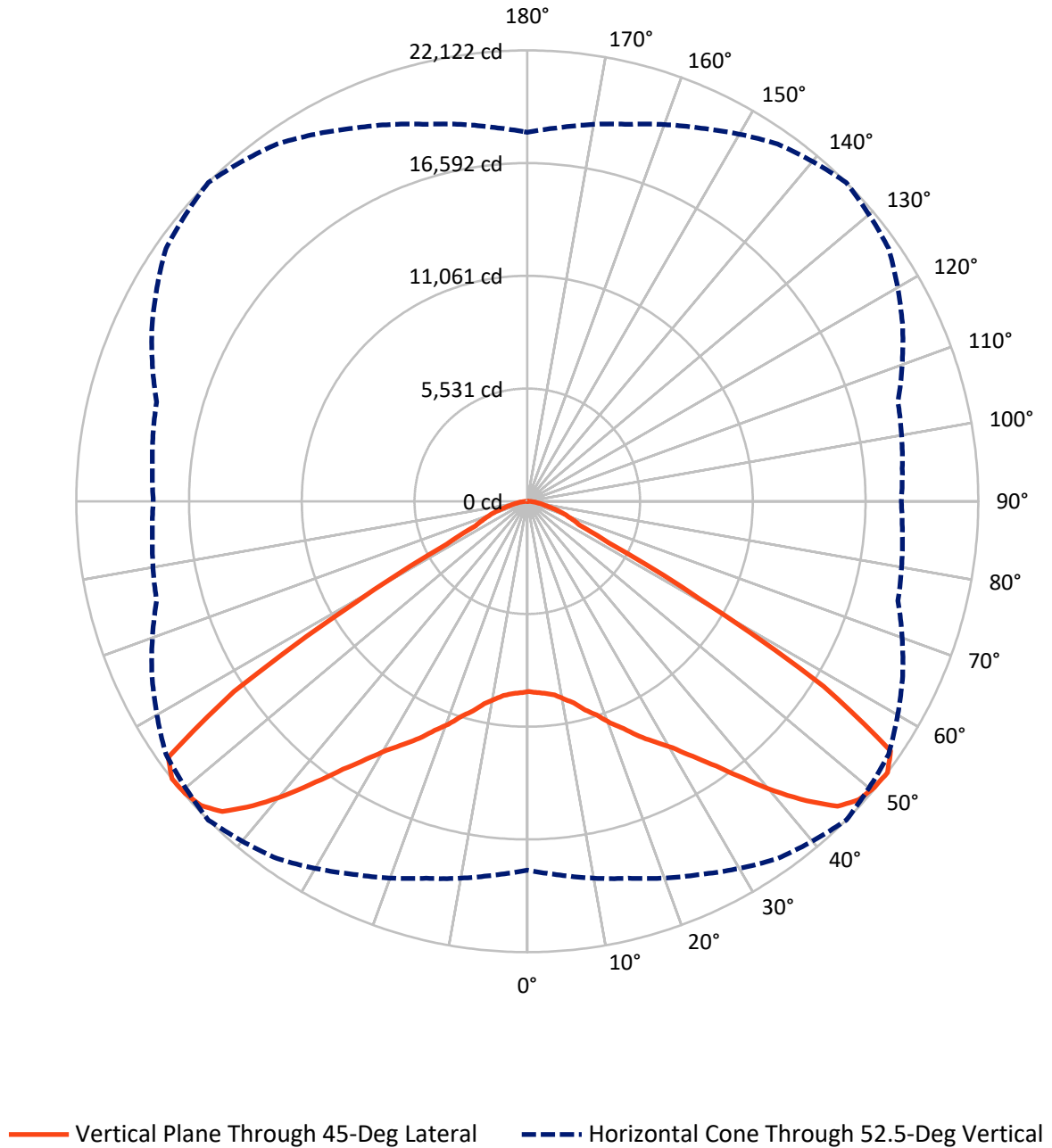
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 27923.0  | 0.0    | 27923.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 27923.0  | 0.0    | 27923.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 55846.0  | 0.0    | 55846.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 917.2   | 1.6       |
| 10°-20°   | 3013.8  | 5.4       |
| 20°-30°   | 5737.8  | 10.3      |
| 30°-40°   | 9852.2  | 17.6      |
| 40°-50°   | 15143.1 | 27.1      |
| 50°-60°   | 15377.6 | 27.5      |
| 60°-70°   | 4285.5  | 7.7       |
| 70°-80°   | 1264.2  | 2.3       |
| 80°-90°   | 254.6   | 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°    | 55846.0 | 100.0     |
| 0°-180°   | 55846.0 | 100.0     |

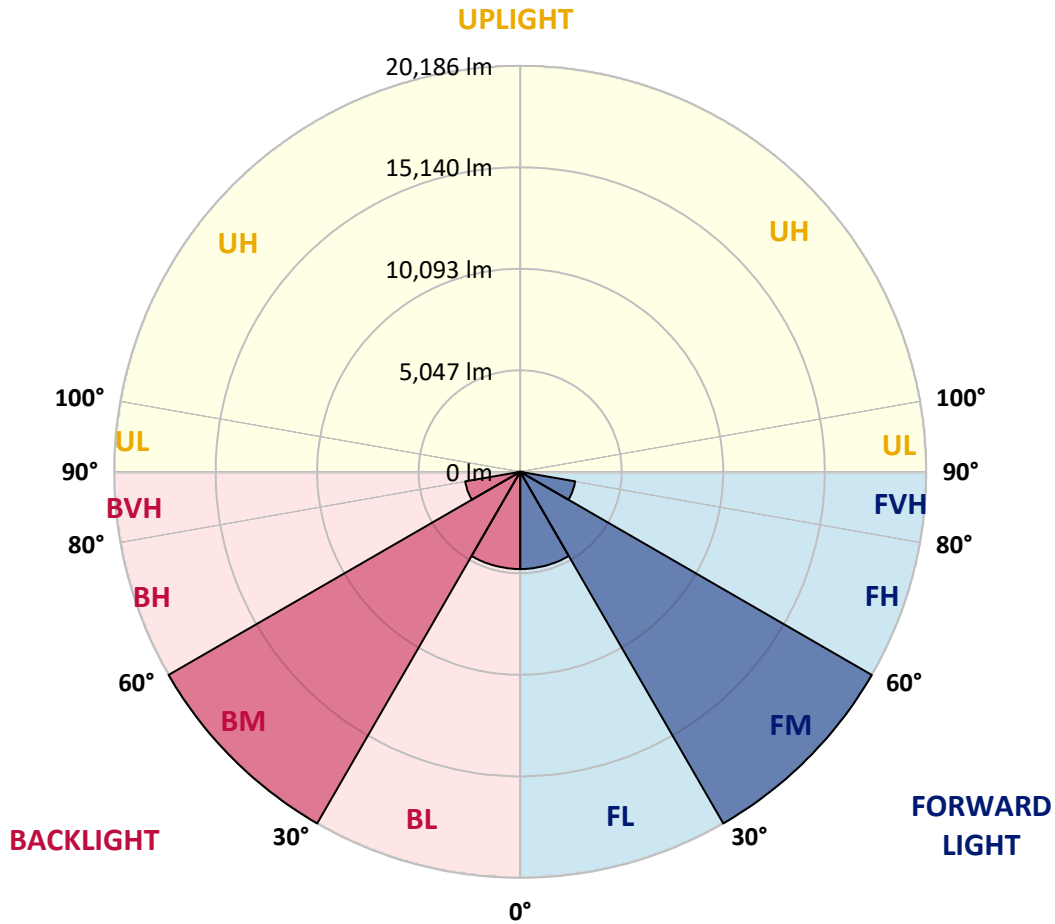


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4834.4  | 8.7       |                         |      |         |
| FM (30°-60°)   | 20186.5 | 36.1      |                         |      |         |
| FH (60°-80°)   | 2774.9  | 5.0       |                         |      | G2/5000 |
| FVH (80°-90°)  | 127.3   | 0.2       |                         |      | G2/225  |
| BL (0°-30°)    | 4834.4  | 8.7       | B4/5000                 |      |         |
| BM (30°-60°)   | 20186.5 | 36.1      | B5                      |      |         |
| BH (60°-80°)   | 2774.9  | 5.0       | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 127.3   | 0.2       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G2**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9335.4  | 9335.4  | 9335.4  | 9335.4  | 9335.4  | 9335.4  | 9335.4  | 9335.4  | 9335.4  | 9335.4  | 9335.4  |
| 2.5°  | 9356.2  | 9259.2  | 9293.8  | 9314.6  | 9404.7  | 9397.8  | 9377.0  | 9404.7  | 9432.4  | 9439.4  | 9425.5  |
| 5°    | 9349.3  | 9280.0  | 9307.7  | 9328.5  | 9418.6  | 9467.1  | 9453.2  | 9571.0  | 9654.2  | 9633.4  | 9737.4  |
| 7.5°  | 9293.8  | 9335.4  | 9300.7  | 9404.7  | 9480.9  | 9598.8  | 9723.5  | 9834.4  | 9938.3  | 10056.2 | 10077.0 |
| 10°   | 9418.6  | 9418.6  | 9480.9  | 9564.1  | 9765.1  | 9855.2  | 10035.4 | 10194.8 | 10395.8 | 10534.4 | 10478.9 |
| 12.5° | 9550.2  | 9571.0  | 9571.0  | 9785.9  | 9952.2  | 10153.2 | 10319.5 | 10534.4 | 10818.5 | 10984.9 | 11068.0 |
| 15°   | 9681.9  | 9695.8  | 9765.1  | 10056.2 | 10305.7 | 10624.5 | 10776.9 | 10971.0 | 11130.4 | 11442.3 | 11449.2 |
| 17.5° | 9799.7  | 9876.0  | 10083.9 | 10409.6 | 10721.5 | 11026.4 | 11269.0 | 11470.0 | 11608.6 | 11733.4 | 11705.6 |
| 20°   | 10243.3 | 10298.7 | 10513.6 | 10839.3 | 11303.7 | 11601.7 | 11684.8 | 11719.5 | 11809.6 | 12059.1 | 11982.8 |
| 22.5° | 10673.0 | 10693.8 | 10894.8 | 11393.8 | 11719.5 | 12114.5 | 12204.6 | 12183.8 | 12218.5 | 12280.9 | 12391.7 |
| 25°   | 11116.5 | 11151.2 | 11428.4 | 11851.2 | 12308.6 | 12779.9 | 12856.1 | 12696.7 | 12648.2 | 12717.5 | 12724.4 |
| 27.5° | 11684.8 | 11691.8 | 12045.2 | 12412.5 | 12932.3 | 13375.9 | 13493.7 | 13369.0 | 13140.2 | 13195.7 | 13285.8 |
| 30°   | 12405.6 | 12357.1 | 12710.6 | 13237.3 | 13784.8 | 14034.3 | 14235.3 | 14172.9 | 13923.4 | 13874.9 | 13798.6 |
| 32.5° | 13237.3 | 13251.1 | 13569.9 | 14145.2 | 14505.6 | 14921.4 | 15136.2 | 15032.3 | 14872.9 | 14789.7 | 14838.2 |
| 35°   | 14408.5 | 14470.9 | 14685.7 | 15164.0 | 15746.1 | 15954.0 | 16293.6 | 16071.8 | 15656.0 | 15760.0 | 15850.1 |
| 37.5° | 15371.9 | 15552.1 | 15954.0 | 16522.3 | 16868.9 | 17250.0 | 17374.8 | 17076.8 | 16771.8 | 16647.1 | 16945.1 |
| 40°   | 16848.1 | 16792.6 | 17236.2 | 17804.5 | 18317.3 | 18698.5 | 18539.1 | 18241.1 | 17485.7 | 17492.6 | 17575.8 |
| 42.5° | 18116.3 | 18144.1 | 18483.7 | 19162.9 | 19862.8 | 20098.5 | 19592.5 | 18864.8 | 18026.3 | 17936.2 | 18116.3 |
| 45°   | 19183.6 | 19294.5 | 19488.6 | 20396.5 | 21082.6 | 21339.0 | 20403.4 | 19544.0 | 18421.3 | 18047.0 | 18345.1 |
| 47.5° | 19564.8 | 19745.0 | 20167.8 | 20999.4 | 21678.6 | 21886.5 | 21138.1 | 19904.4 | 18788.6 | 18178.7 | 18338.1 |
| 50°   | 19620.3 | 19557.9 | 20250.9 | 21013.3 | 21609.3 | 22059.8 | 21401.4 | 20167.8 | 18698.5 | 18379.7 | 18331.2 |
| 52.5° | 18102.5 | 18407.4 | 19149.0 | 20195.5 | 21401.4 | 22122.2 | 21637.0 | 20313.3 | 18823.3 | 18462.9 | 18345.1 |
| 55°   | 14651.1 | 14290.7 | 15642.2 | 17402.5 | 19620.3 | 21623.2 | 21553.9 | 20389.6 | 18899.5 | 18601.5 | 18442.1 |
| 57.5° | 8178.0  | 8282.0  | 9044.3  | 10957.1 | 13819.4 | 17146.1 | 19162.9 | 19585.6 | 18864.8 | 18691.6 | 18774.7 |
| 60°   | 3784.1  | 3818.7  | 4144.4  | 5038.5  | 6812.7  | 9723.5  | 12377.9 | 15073.9 | 16314.4 | 16563.9 | 16563.9 |
| 62.5° | 2820.7  | 2806.9  | 2890.0  | 3049.4  | 3423.7  | 4470.2  | 5967.2  | 8108.7  | 9813.6  | 11005.6 | 11317.5 |
| 65°   | 2550.4  | 2543.5  | 2585.1  | 2640.5  | 2668.2  | 2813.8  | 3146.5  | 3804.8  | 4359.3  | 4678.1  | 4622.6  |
| 67.5° | 2231.6  | 2224.7  | 2238.6  | 2273.2  | 2321.7  | 2398.0  | 2481.1  | 2619.7  | 2813.8  | 2799.9  | 2765.3  |
| 70°   | 1801.9  | 1801.9  | 1822.7  | 1850.4  | 1905.9  | 1996.0  | 2093.0  | 2190.0  | 2356.4  | 2391.0  | 2384.1  |
| 72.5° | 1330.7  | 1309.9  | 1351.4  | 1406.9  | 1462.3  | 1573.2  | 1677.2  | 1767.3  | 1885.1  | 1919.8  | 1905.9  |
| 75°   | 845.5   | 859.4   | 887.1   | 949.5   | 1046.5  | 1122.7  | 1233.6  | 1309.9  | 1386.1  | 1413.8  | 1420.8  |
| 77.5° | 471.3   | 485.1   | 533.6   | 609.9   | 706.9   | 790.1   | 887.1   | 949.5   | 998.0   | 1004.9  | 1011.9  |
| 80°   | 284.2   | 291.1   | 339.6   | 408.9   | 492.1   | 582.2   | 658.4   | 720.8   | 762.4   | 741.6   | 734.6   |
| 82.5° | 173.3   | 180.2   | 221.8   | 284.2   | 353.5   | 422.8   | 505.9   | 561.4   | 603.0   | 575.2   | 547.5   |
| 85°   | 90.1    | 97.0    | 131.7   | 173.3   | 228.7   | 263.4   | 263.4   | 235.6   | 228.7   | 214.8   | 207.9   |
| 87.5° | 27.7    | 27.7    | 34.7    | 41.6    | 34.7    | 41.6    | 48.5    | 55.4    | 55.4    | 62.4    | 55.4    |
| 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)