

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: P532182

Luminaire Tested: **GALN-SA7C-735-U-RW-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532182  
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-SA7C-735-U-RW-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 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: 39971 lumens  
Efficiency: N/A  
Efficacy: 106.0 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

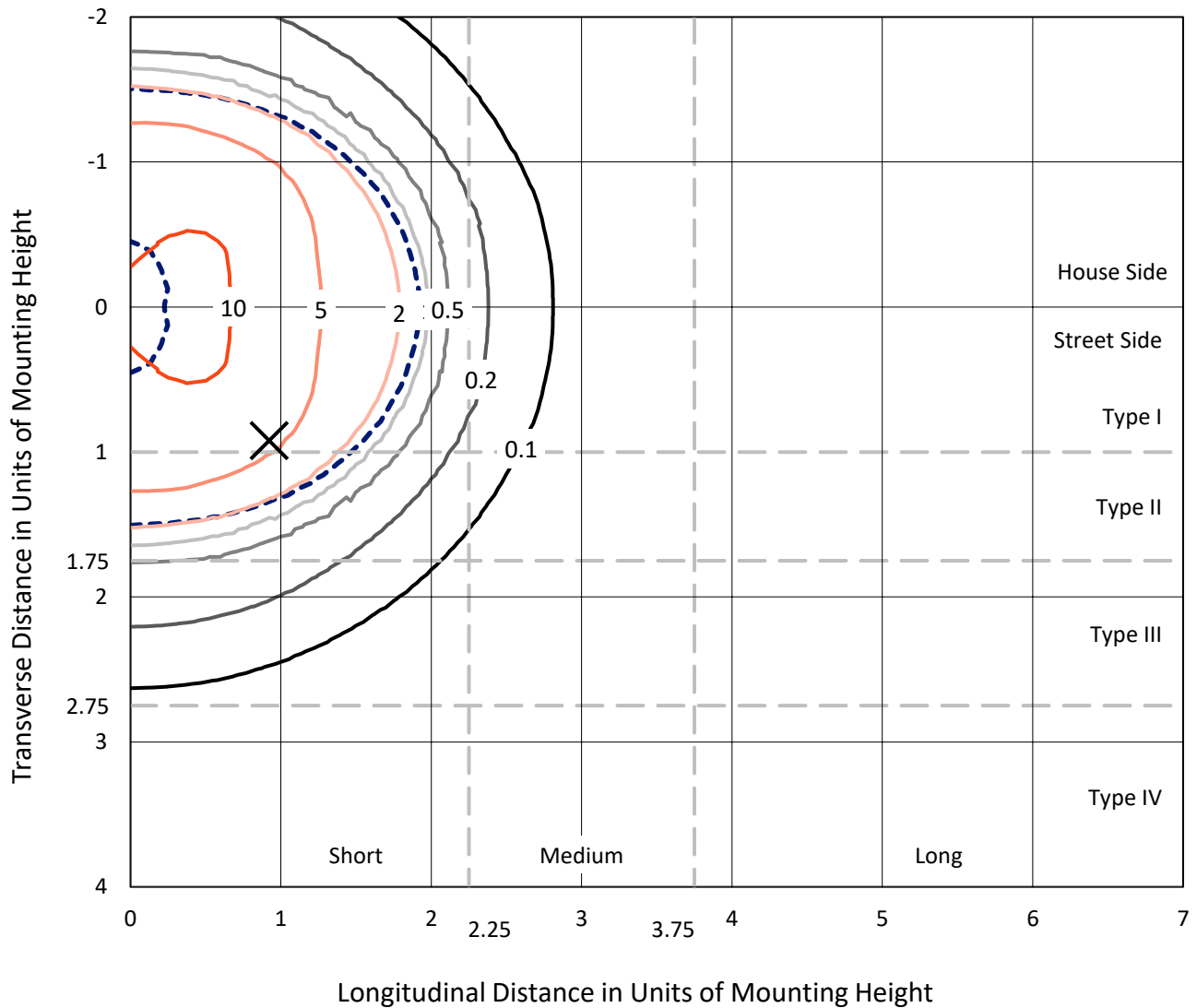
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

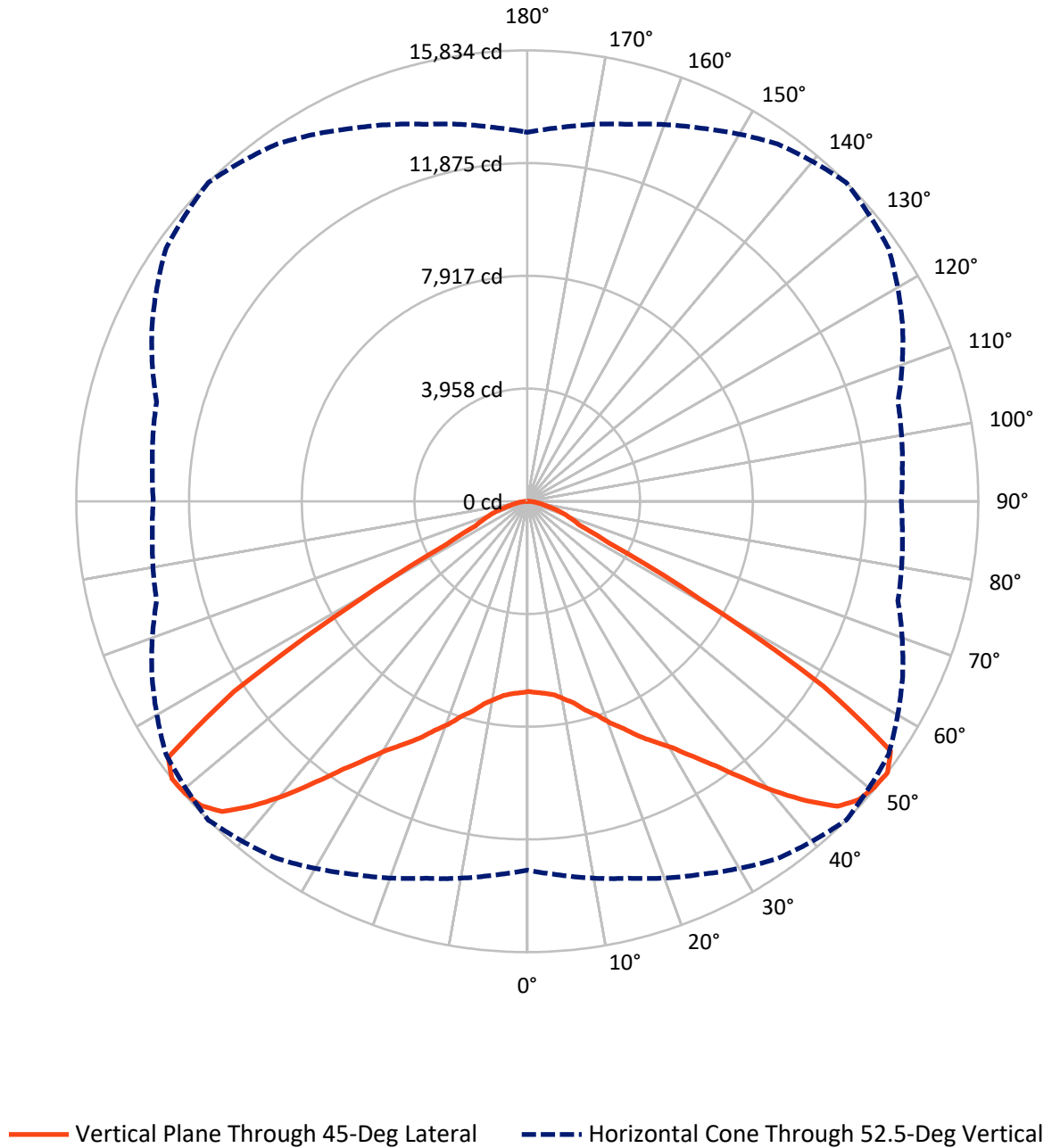
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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    | 19985.5  | 0.0    | 19985.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 19985.5  | 0.0    | 19985.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 39971.0  | 0.0    | 39971.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 656.5   | 1.6       |
| 10°-20°   | 2157.1  | 5.4       |
| 20°-30°   | 4106.7  | 10.3      |
| 30°-40°   | 7051.6  | 17.6      |
| 40°-50°   | 10838.5 | 27.1      |
| 50°-60°   | 11006.3 | 27.5      |
| 60°-70°   | 3067.3  | 7.7       |
| 70°-80°   | 904.8   | 2.3       |
| 80°-90°   | 182.3   | 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°    | 39971.0 | 100.0     |
| 0°-180°   | 39971.0 | 100.0     |

**Coefficient of Utilization**

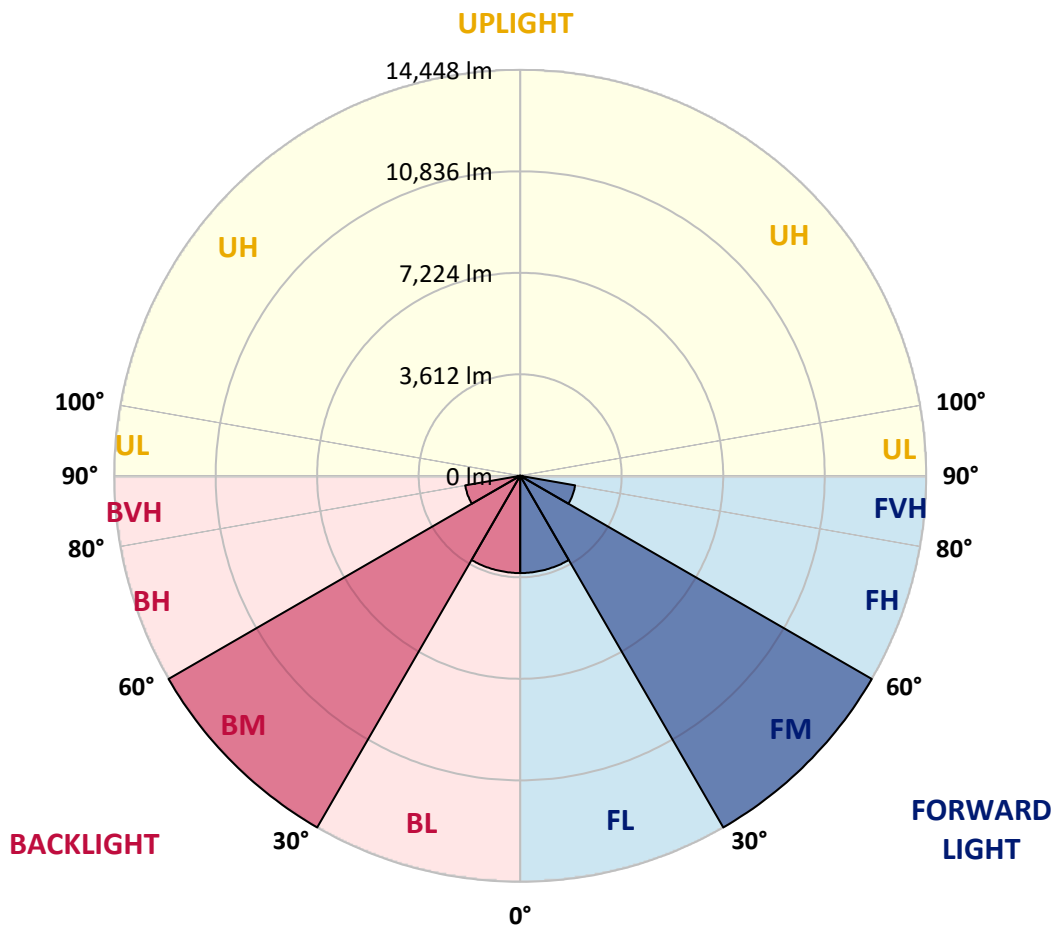


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3460.1  | 8.7       |                         |      |         |
| FM (30°-60°)   | 14448.2 | 36.1      |                         |      |         |
| FH (60°-80°)   | 1986.1  | 5.0       |                         |      | G2/5000 |
| FVH (80°-90°)  | 91.1    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 3460.1  | 8.7       | B4/5000                 |      |         |
| BM (30°-60°)   | 14448.2 | 36.1      | B5                      |      |         |
| BH (60°-80°)   | 1986.1  | 5.0       | B3/2500                 |      | G2/5000 |
| BVH (80°-90°)  | 91.1    | 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-G2**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6681.7  | 6681.7  | 6681.7  | 6681.7  | 6681.7  | 6681.7  | 6681.7  | 6681.7  | 6681.7  | 6681.7  | 6681.7  |
| 2.5°  | 6696.6  | 6627.1  | 6651.9  | 6666.8  | 6731.3  | 6726.3  | 6711.4  | 6731.3  | 6751.1  | 6756.1  | 6746.2  |
| 5°    | 6691.6  | 6642.0  | 6661.8  | 6676.7  | 6741.2  | 6775.9  | 6766.0  | 6850.3  | 6909.9  | 6895.0  | 6969.4  |
| 7.5°  | 6651.9  | 6681.7  | 6656.9  | 6731.3  | 6785.8  | 6870.2  | 6959.5  | 7038.8  | 7113.2  | 7197.6  | 7212.4  |
| 10°   | 6741.2  | 6741.2  | 6785.8  | 6845.4  | 6989.2  | 7053.7  | 7182.7  | 7296.8  | 7440.6  | 7539.8  | 7500.1  |
| 12.5° | 6835.5  | 6850.3  | 6850.3  | 7004.1  | 7123.2  | 7267.0  | 7386.1  | 7539.8  | 7743.2  | 7862.3  | 7921.8  |
| 15°   | 6929.7  | 6939.6  | 6989.2  | 7197.6  | 7376.1  | 7604.3  | 7713.4  | 7852.3  | 7966.4  | 8189.6  | 8194.6  |
| 17.5° | 7014.0  | 7068.6  | 7217.4  | 7450.5  | 7673.8  | 7892.0  | 8065.6  | 8209.5  | 8308.7  | 8398.0  | 8378.1  |
| 20°   | 7331.5  | 7371.2  | 7524.9  | 7758.1  | 8090.4  | 8303.7  | 8363.3  | 8388.1  | 8452.5  | 8631.1  | 8576.6  |
| 22.5° | 7639.0  | 7653.9  | 7797.8  | 8154.9  | 8388.1  | 8670.8  | 8735.3  | 8720.4  | 8745.2  | 8789.9  | 8869.2  |
| 25°   | 7956.5  | 7981.3  | 8179.7  | 8482.3  | 8809.7  | 9147.0  | 9201.6  | 9087.5  | 9052.8  | 9102.4  | 9107.3  |
| 27.5° | 8363.3  | 8368.2  | 8621.2  | 8884.1  | 9256.1  | 9573.6  | 9657.9  | 9568.6  | 9404.9  | 9444.6  | 9509.1  |
| 30°   | 8879.1  | 8844.4  | 9097.4  | 9474.4  | 9866.3  | 10044.8 | 10188.7 | 10144.0 | 9965.5  | 9930.8  | 9876.2  |
| 32.5° | 9474.4  | 9484.3  | 9712.5  | 10124.2 | 10382.1 | 10679.8 | 10833.5 | 10759.1 | 10645.1 | 10585.5 | 10620.2 |
| 35°   | 10312.7 | 10357.3 | 10511.1 | 10853.4 | 11270.1 | 11418.9 | 11661.9 | 11503.2 | 11205.6 | 11280.0 | 11344.5 |
| 37.5° | 11002.2 | 11131.2 | 11418.9 | 11825.6 | 12073.7 | 12346.5 | 12435.8 | 12222.5 | 12004.2 | 11914.9 | 12128.2 |
| 40°   | 12058.8 | 12019.1 | 12336.6 | 12743.3 | 13110.4 | 13383.2 | 13269.1 | 13055.8 | 12515.1 | 12520.1 | 12579.6 |
| 42.5° | 12966.5 | 12986.4 | 13229.4 | 13715.5 | 14216.6 | 14385.2 | 14023.1 | 13502.3 | 12902.0 | 12837.6 | 12966.5 |
| 45°   | 13730.4 | 13809.8 | 13948.7 | 14598.5 | 15089.6 | 15273.1 | 14603.5 | 13988.4 | 13184.8 | 12916.9 | 13130.2 |
| 47.5° | 14003.3 | 14132.2 | 14434.8 | 15030.1 | 15516.2 | 15665.0 | 15129.3 | 14246.3 | 13447.7 | 13011.2 | 13125.3 |
| 50°   | 14042.9 | 13998.3 | 14494.3 | 15040.0 | 15466.6 | 15789.0 | 15317.8 | 14434.8 | 13383.2 | 13155.0 | 13120.3 |
| 52.5° | 12956.6 | 13174.9 | 13705.6 | 14454.7 | 15317.8 | 15833.6 | 15486.4 | 14539.0 | 13472.5 | 13214.5 | 13130.2 |
| 55°   | 10486.3 | 10228.4 | 11195.7 | 12455.6 | 14042.9 | 15476.5 | 15426.9 | 14593.5 | 13527.1 | 13313.8 | 13199.7 |
| 57.5° | 5853.3  | 5927.7  | 6473.3  | 7842.4  | 9891.1  | 12272.1 | 13715.5 | 14018.1 | 13502.3 | 13378.2 | 13437.8 |
| 60°   | 2708.4  | 2733.2  | 2966.3  | 3606.2  | 4876.1  | 6959.5  | 8859.3  | 10788.9 | 11676.8 | 11855.4 | 11855.4 |
| 62.5° | 2018.9  | 2009.0  | 2068.5  | 2182.6  | 2450.4  | 3199.5  | 4270.9  | 5803.7  | 7023.9  | 7877.1  | 8100.4  |
| 65°   | 1825.4  | 1820.5  | 1850.2  | 1889.9  | 1909.8  | 2013.9  | 2252.0  | 2723.3  | 3120.1  | 3348.3  | 3308.6  |
| 67.5° | 1597.3  | 1592.3  | 1602.2  | 1627.0  | 1661.7  | 1716.3  | 1775.8  | 1875.0  | 2013.9  | 2004.0  | 1979.2  |
| 70°   | 1289.7  | 1289.7  | 1304.6  | 1324.4  | 1364.1  | 1428.6  | 1498.0  | 1567.5  | 1686.5  | 1711.3  | 1706.4  |
| 72.5° | 952.4   | 937.5   | 967.3   | 1007.0  | 1046.6  | 1126.0  | 1200.4  | 1264.9  | 1349.2  | 1374.0  | 1364.1  |
| 75°   | 605.2   | 615.1   | 634.9   | 679.6   | 749.0   | 803.6   | 883.0   | 937.5   | 992.1   | 1011.9  | 1016.9  |
| 77.5° | 337.3   | 347.2   | 382.0   | 436.5   | 506.0   | 565.5   | 634.9   | 679.6   | 714.3   | 719.3   | 724.2   |
| 80°   | 203.4   | 208.3   | 243.1   | 292.7   | 352.2   | 416.7   | 471.2   | 515.9   | 545.6   | 530.8   | 525.8   |
| 82.5° | 124.0   | 129.0   | 158.7   | 203.4   | 253.0   | 302.6   | 362.1   | 401.8   | 431.6   | 411.7   | 391.9   |
| 85°   | 64.5    | 69.4    | 94.2    | 124.0   | 163.7   | 188.5   | 188.5   | 168.7   | 163.7   | 153.8   | 148.8   |
| 87.5° | 19.8    | 19.8    | 24.8    | 29.8    | 24.8    | 29.8    | 34.7    | 39.7    | 39.7    | 44.6    | 39.7    |
| 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)