

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: P957014

Luminaire Tested: **GALN-SB9C-730-U-RW**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P957014  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9C-730-U-RW  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 70243 lumens  
Efficiency: N/A  
Efficacy: 156.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 449.8  
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

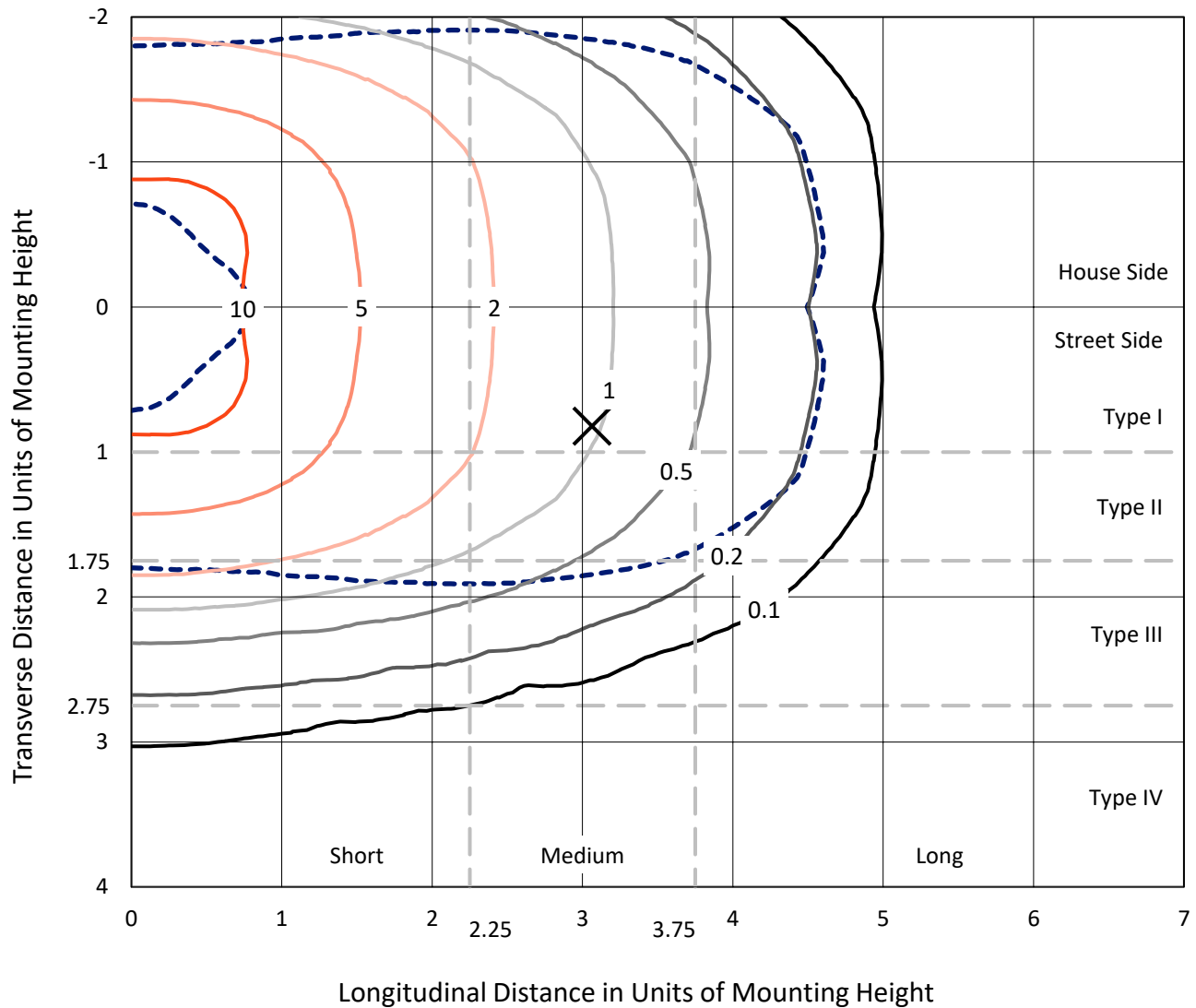


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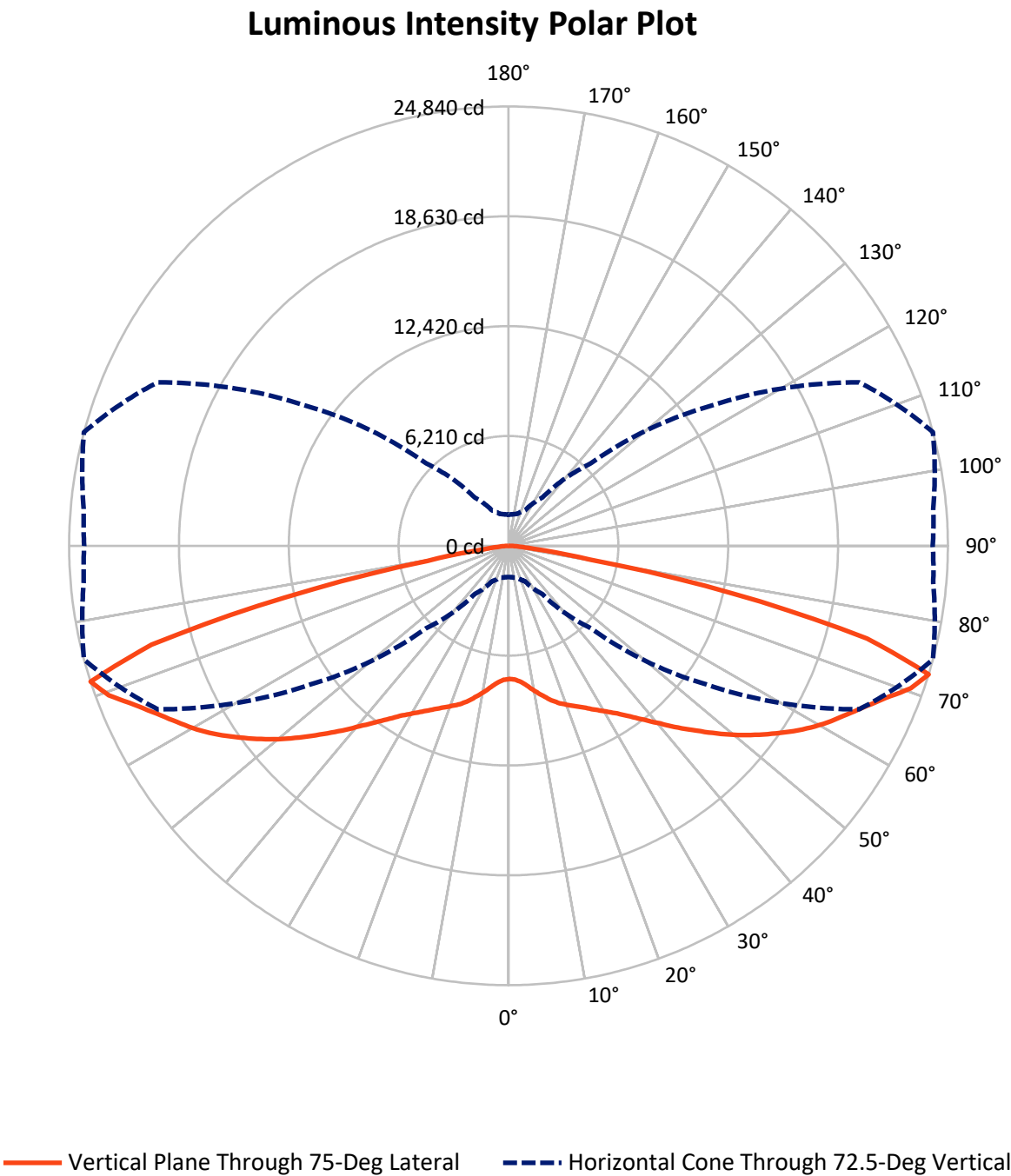
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc  
 Type III - Medium - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 35121.5  | 0.0    | 35121.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 35121.5  | 0.0    | 35121.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 70243.0  | 0.0    | 70243.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 737.1   | 1.0       |
| 10°-20°   | 2431.0  | 3.5       |
| 20°-30°   | 4697.4  | 6.7       |
| 30°-40°   | 7931.8  | 11.3      |
| 40°-50°   | 12579.0 | 17.9      |
| 50°-60°   | 16841.8 | 24.0      |
| 60°-70°   | 16028.0 | 22.8      |
| 70°-80°   | 8363.7  | 11.9      |
| 80°-90°   | 633.1   | 0.9       |
| 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°    | 70243.0 | 100.0     |
| 0°-180°   | 70243.0 | 100.0     |

**Coefficient of Utilization**



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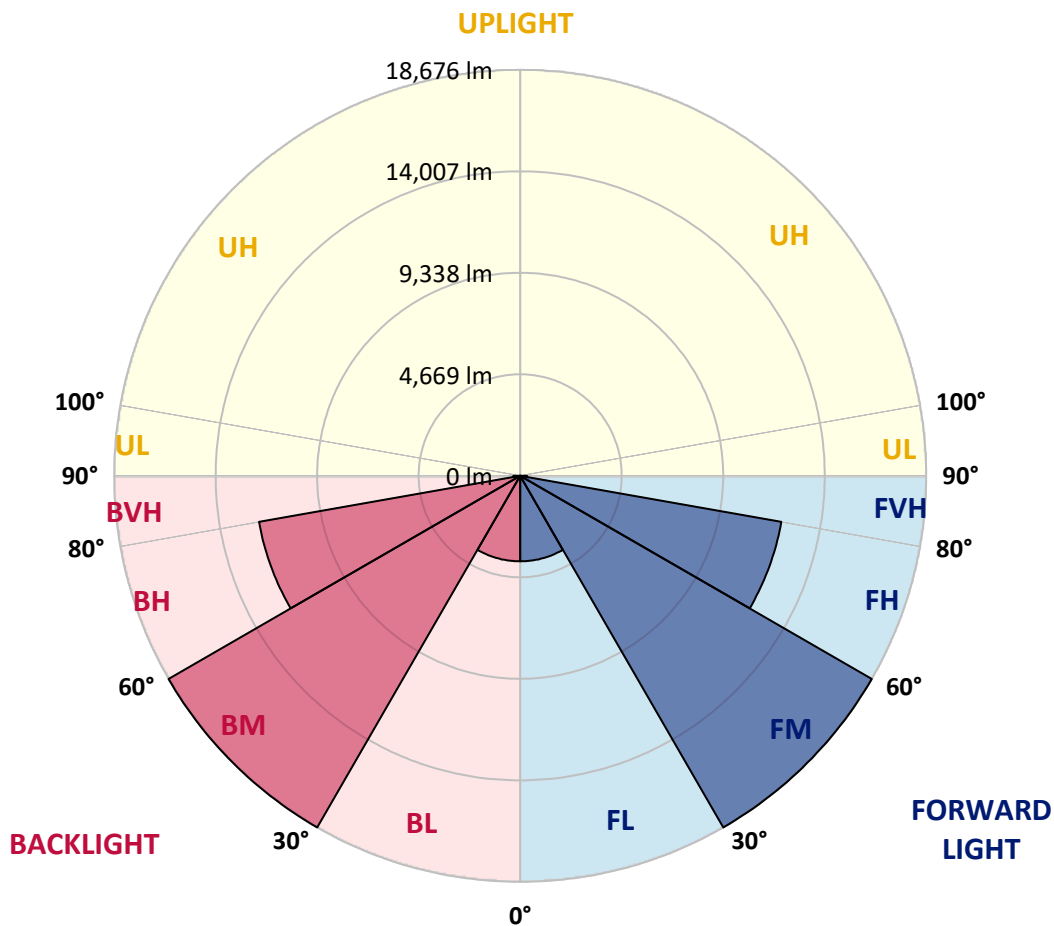
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 3932.7  | 5.6       |                         |      |        |
| FM   | (30°-60°)   | 18676.3 | 26.6      |                         |      |        |
| FH   | (60°-80°)   | 12195.9 | 17.4      |                         |      | G5     |
| FVH  | (80°-90°)   | 316.5   | 0.5       |                         |      | G3/500 |
| BL   | (0°-30°)    | 3932.7  | 5.6       | B4/5000                 |      |        |
| BM   | (30°-60°)   | 18676.3 | 26.6      | B5                      |      |        |
| BH   | (60°-80°)   | 12195.9 | 17.4      | B5                      |      | G5     |
| BVH  | (80°-90°)   | 316.5   | 0.5       |                         |      | G3/500 |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |        |

**BUG Rating: B5-U0-G5**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7524.3  | 7524.3  | 7524.3  | 7524.3  | 7524.3  | 7524.3  | 7524.3  | 7524.3  | 7524.3  | 7524.3  | 7524.3  |
| 2.5°  | 7524.3  | 7517.1  | 7524.3  | 7531.5  | 7527.9  | 7527.9  | 7545.8  | 7556.6  | 7578.1  | 7574.5  | 7570.9  |
| 5°    | 7474.1  | 7470.5  | 7499.2  | 7531.5  | 7556.6  | 7599.6  | 7653.4  | 7692.8  | 7743.1  | 7753.8  | 7753.8  |
| 7.5°  | 7449.0  | 7438.2  | 7488.4  | 7545.8  | 7624.7  | 7732.3  | 7836.3  | 7943.9  | 8030.0  | 8058.7  | 8065.8  |
| 10°   | 7466.9  | 7470.5  | 7538.6  | 7646.2  | 7771.7  | 7922.4  | 8069.4  | 8252.3  | 8374.3  | 8403.0  | 8431.6  |
| 12.5° | 7549.4  | 7542.2  | 7657.0  | 7829.1  | 8001.3  | 8191.4  | 8363.5  | 8564.3  | 8697.0  | 8765.2  | 8793.9  |
| 15°   | 7700.0  | 7685.7  | 7847.1  | 8101.7  | 8352.7  | 8575.1  | 8715.0  | 8905.0  | 9059.3  | 9145.3  | 9177.6  |
| 17.5° | 7879.3  | 7886.5  | 8098.1  | 8428.1  | 8758.0  | 9009.1  | 9141.8  | 9238.6  | 9356.9  | 9432.3  | 9468.1  |
| 20°   | 8194.9  | 8209.3  | 8446.0  | 8836.9  | 9213.5  | 9500.4  | 9608.0  | 9572.1  | 9604.4  | 9661.8  | 9704.8  |
| 22.5° | 8618.1  | 8625.3  | 8890.7  | 9313.9  | 9708.4  | 10024.0 | 10095.7 | 9948.7  | 9859.0  | 9898.5  | 9927.2  |
| 25°   | 9109.5  | 9156.1  | 9421.5  | 9855.4  | 10260.7 | 10562.0 | 10594.2 | 10371.9 | 10149.5 | 10160.3 | 10178.2 |
| 27.5° | 9708.4  | 9751.4  | 10020.4 | 10450.8 | 10863.2 | 11125.0 | 11121.4 | 10823.8 | 10497.4 | 10414.9 | 10440.0 |
| 30°   | 10357.5 | 10404.2 | 10680.3 | 11125.0 | 11508.8 | 11738.3 | 11688.1 | 11333.0 | 10866.8 | 10712.6 | 10730.5 |
| 32.5° | 11128.6 | 11157.3 | 11437.1 | 11881.8 | 12236.8 | 12419.7 | 12315.7 | 11878.2 | 11297.2 | 11121.4 | 11164.5 |
| 35°   | 12061.1 | 12104.1 | 12312.1 | 12731.7 | 13043.8 | 13194.4 | 13018.7 | 12502.2 | 11849.5 | 11652.2 | 11680.9 |
| 37.5° | 13126.3 | 13097.6 | 13334.3 | 13707.2 | 13965.5 | 14058.7 | 13818.4 | 13205.2 | 12480.7 | 12247.6 | 12290.6 |
| 40°   | 14238.0 | 14223.7 | 14481.9 | 14840.6 | 14980.4 | 15037.8 | 14682.8 | 14012.1 | 13208.7 | 12957.7 | 13040.2 |
| 42.5° | 15245.8 | 15235.1 | 15582.9 | 15981.0 | 16149.6 | 16085.0 | 15636.7 | 14869.2 | 14051.5 | 13764.6 | 13836.4 |
| 45°   | 16052.8 | 16038.4 | 16465.2 | 17024.7 | 17354.6 | 17247.0 | 16644.5 | 15816.1 | 14905.1 | 14607.4 | 14675.6 |
| 47.5° | 16673.2 | 16680.4 | 17139.4 | 17831.6 | 18409.0 | 18448.5 | 17673.8 | 16780.8 | 15844.7 | 15507.6 | 15608.0 |
| 50°   | 17121.5 | 17143.0 | 17634.4 | 18401.9 | 19190.9 | 19538.7 | 18724.6 | 17770.6 | 16816.7 | 16436.5 | 16551.3 |
| 52.5° | 17232.7 | 17272.1 | 17863.9 | 18764.1 | 19693.0 | 20356.4 | 19793.4 | 18721.0 | 17738.4 | 17376.1 | 17469.4 |
| 55°   | 16640.9 | 16719.8 | 17469.4 | 18735.4 | 20001.4 | 20894.4 | 20733.0 | 19685.8 | 18667.3 | 18294.3 | 18398.3 |
| 57.5° | 15281.7 | 15392.9 | 16267.9 | 17921.3 | 19933.3 | 21263.8 | 21461.1 | 20611.1 | 19596.1 | 19237.5 | 19320.0 |
| 60°   | 13377.3 | 13510.0 | 14349.2 | 16153.2 | 18972.1 | 21400.1 | 21973.9 | 21511.3 | 20449.7 | 20101.8 | 20177.1 |
| 62.5° | 10504.6 | 10676.7 | 11680.9 | 13796.9 | 16942.2 | 20765.3 | 22411.5 | 22325.4 | 21217.2 | 20783.2 | 20833.4 |
| 65°   | 6738.9  | 6921.8  | 7979.8  | 10479.5 | 14234.5 | 18821.5 | 22547.7 | 23118.0 | 22027.7 | 21421.6 | 21496.9 |
| 67.5° | 4063.4  | 4145.9  | 4669.5  | 6351.5  | 10404.2 | 15891.4 | 21392.9 | 23996.7 | 22974.5 | 22221.4 | 22278.8 |
| 70°   | 2600.1  | 2646.8  | 2958.8  | 3729.9  | 5881.7  | 11594.9 | 18531.0 | 24161.6 | 24122.2 | 23042.7 | 23035.5 |
| 72.5° | 1764.5  | 1778.9  | 1861.3  | 2209.2  | 3328.2  | 6588.2  | 13667.8 | 21873.5 | 24839.5 | 24100.7 | 23985.9 |
| 75°   | 1291.1  | 1370.0  | 1502.7  | 1563.7  | 1890.0  | 3292.3  | 7832.7  | 15367.8 | 20933.9 | 21256.6 | 20474.8 |
| 77.5° | 961.2   | 964.7   | 1147.7  | 1219.4  | 1348.5  | 1753.8  | 3313.8  | 8578.7  | 12997.1 | 13646.3 | 12172.3 |
| 80°   | 814.1   | 771.1   | 767.5   | 982.7   | 1015.0  | 1093.9  | 1481.2  | 2962.4  | 4655.2  | 2822.5  | 2133.9  |
| 82.5° | 677.8   | 631.2   | 570.2   | 767.5   | 692.2   | 670.7   | 642.0   | 1205.0  | 1481.2  | 728.0   | 620.4   |
| 85°   | 473.4   | 451.9   | 430.4   | 502.1   | 394.5   | 337.1   | 308.4   | 563.1   | 624.0   | 308.4   | 272.6   |
| 87.5° | 204.4   | 211.6   | 215.2   | 222.4   | 165.0   | 118.4   | 118.4   | 157.8   | 157.8   | 121.9   | 89.7    |
| 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)