

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: P531602

Luminaire Tested: **GALN-SA6D-830-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531602  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-830-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32175 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

Input Watts (W): 368  
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

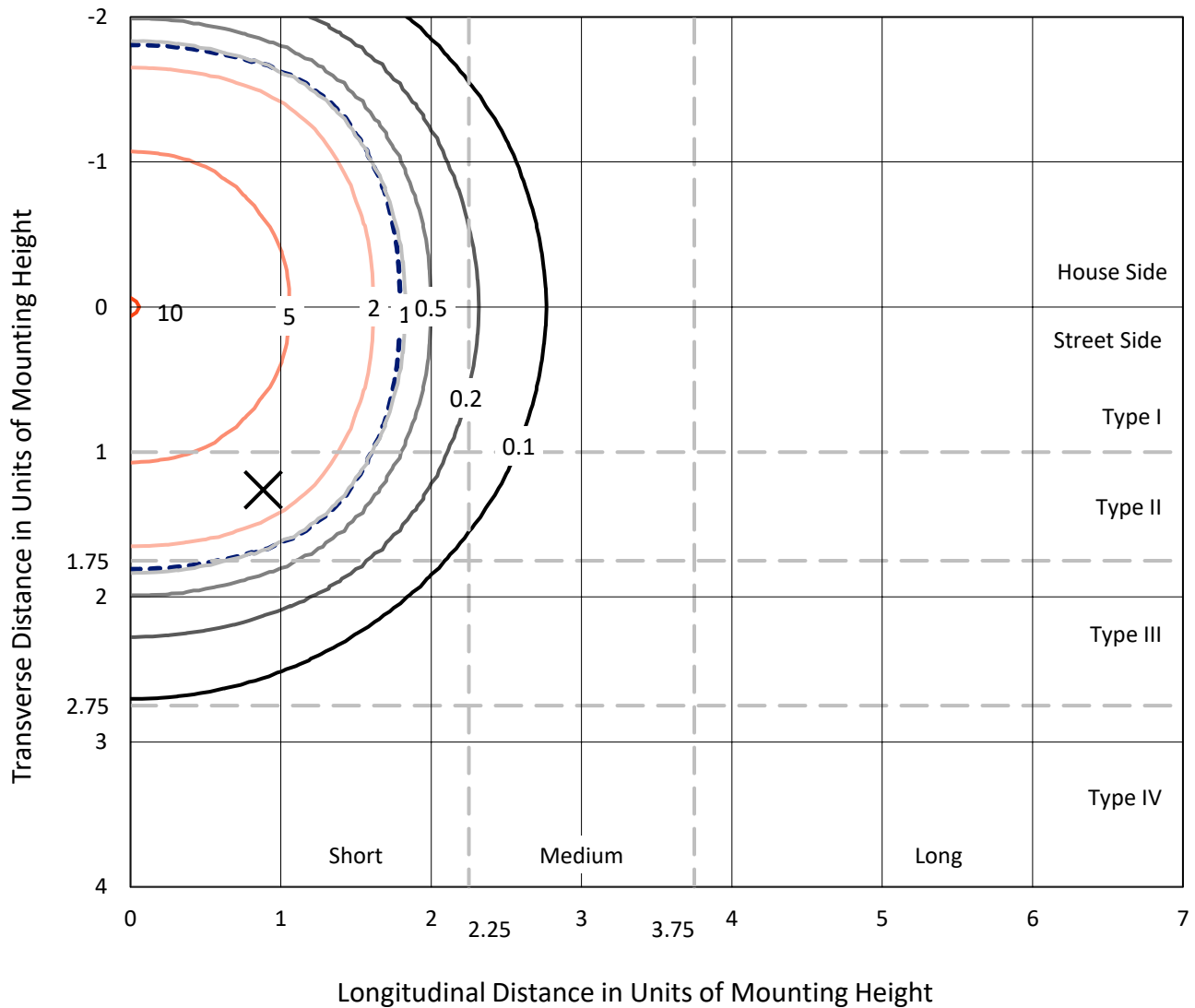


REPORT NUMBER: P531602

CATALOG NUMBER: GALN-SA6D-830-U-5MQ-GRSWH

## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

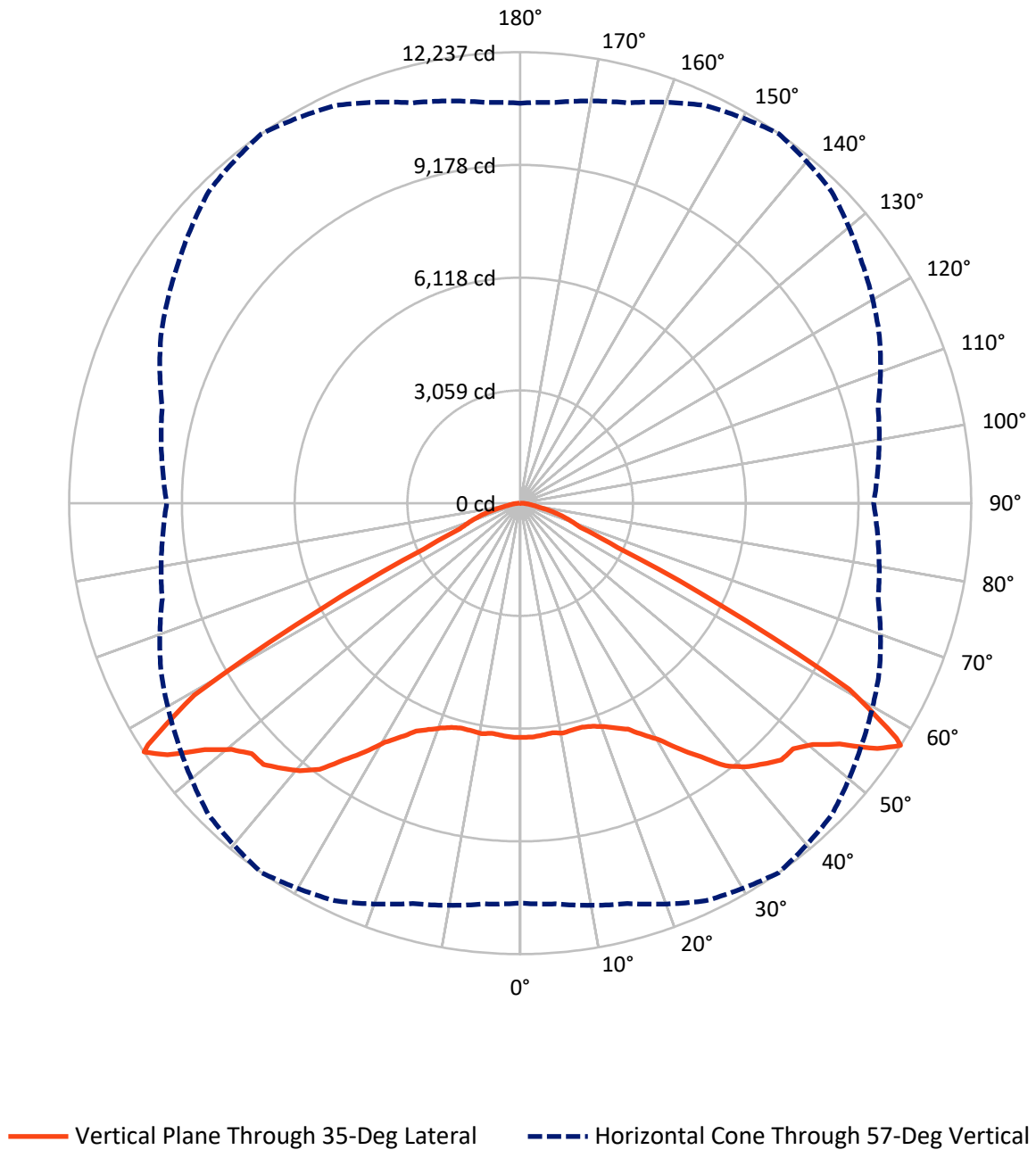


Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type V - Short - N/A

REPORT NUMBER: P531602

CATALOG NUMBER: GALN-SA6D-830-U-5MQ-GRSWH

## Luminous Intensity Polar Plot



REPORT NUMBER: P531602

CATALOG NUMBER: GALN-SA6D-830-U-5MQ-GRSWH

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 16087.5  | 0.0    | 16087.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 16087.5  | 0.0    | 16087.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 32175.0  | 0.0    | 32175.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 602.4   | 1.9       |
| 10°-20°   | 1784.2  | 5.5       |
| 20°-30°   | 3116.0  | 9.7       |
| 30°-40°   | 5105.7  | 15.9      |
| 40°-50°   | 7486.2  | 23.3      |
| 50°-60°   | 9429.5  | 29.3      |
| 60°-70°   | 3546.3  | 11.0      |
| 70°-80°   | 942.9   | 2.9       |
| 80°-90°   | 161.7   | 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°    | 32175.0 | 100.0     |
| 0°-180°   | 32175.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P531602

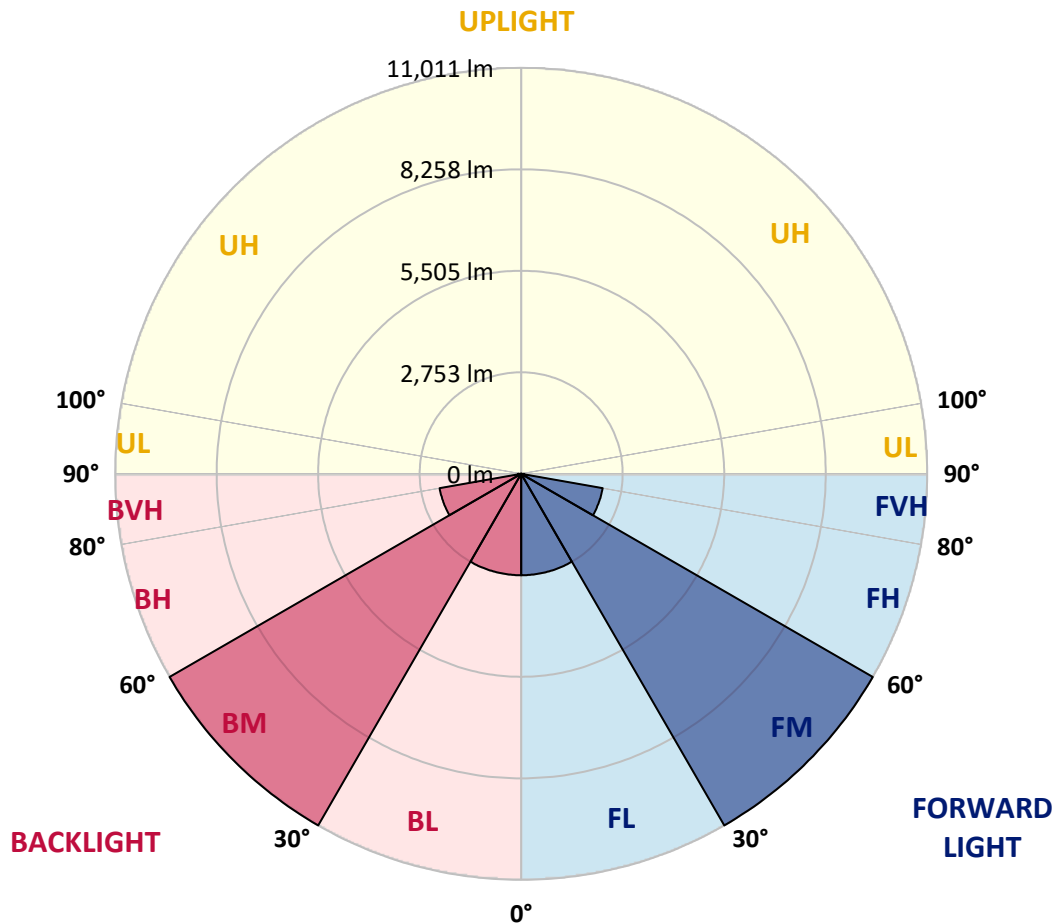
CATALOG NUMBER: GALN-SA6D-830-U-5MQ-GRSWH

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2751.3  | 8.6       |                         |      |         |
| FM   | (30°-60°)   | 11010.7 | 34.2      |                         |      |         |
| FH   | (60°-80°)   | 2244.6  | 7.0       |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 80.8    | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 2751.3  | 8.6       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 11010.7 | 34.2      | B5                      |      |         |
| BH   | (60°-80°)   | 2244.6  | 7.0       | B3/2500                 |      | G2/5000 |
| BVH  | (80°-90°)   | 80.8    | 0.3       |                         |      | 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



REPORT NUMBER: P531602

CATALOG NUMBER: GALN-SA6D-830-U-5MQ-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6354.3  | 6354.3  | 6354.3  | 6354.3  | 6354.3  | 6354.3  | 6354.3  | 6354.3  | 6354.3  | 6354.3  | 6354.3  |
| 2.5°  | 6322.6  | 6386.0  | 6358.3  | 6342.4  | 6354.3  | 6334.5  | 6302.8  | 6338.5  | 6330.5  | 6298.8  | 6286.9  |
| 5°    | 6306.8  | 6354.3  | 6322.6  | 6354.3  | 6322.6  | 6378.1  | 6362.3  | 6302.8  | 6374.1  | 6306.8  | 6330.5  |
| 7.5°  | 6294.9  | 6310.7  | 6318.6  | 6302.8  | 6290.9  | 6358.3  | 6322.6  | 6294.9  | 6255.2  | 6243.3  | 6263.2  |
| 10°   | 6267.1  | 6306.8  | 6247.3  | 6326.6  | 6342.4  | 6294.9  | 6294.9  | 6243.3  | 6211.6  | 6191.8  | 6259.2  |
| 12.5° | 6338.5  | 6271.1  | 6263.2  | 6302.8  | 6314.7  | 6334.5  | 6279.0  | 6251.3  | 6191.8  | 6199.7  | 6187.8  |
| 15°   | 6255.2  | 6283.0  | 6286.9  | 6294.9  | 6306.8  | 6354.3  | 6302.8  | 6243.3  | 6219.5  | 6136.3  | 6144.2  |
| 17.5° | 6286.9  | 6259.2  | 6286.9  | 6378.1  | 6362.3  | 6397.9  | 6342.4  | 6251.3  | 6195.8  | 6148.2  | 6211.6  |
| 20°   | 6342.4  | 6330.5  | 6342.4  | 6453.4  | 6473.2  | 6505.0  | 6457.4  | 6374.1  | 6267.1  | 6211.6  | 6243.3  |
| 22.5° | 6401.9  | 6394.0  | 6401.9  | 6508.9  | 6623.9  | 6663.5  | 6616.0  | 6421.7  | 6366.2  | 6263.2  | 6227.5  |
| 25°   | 6508.9  | 6516.9  | 6600.1  | 6719.0  | 6794.3  | 6869.6  | 6782.4  | 6643.7  | 6465.3  | 6401.9  | 6326.6  |
| 27.5° | 6746.8  | 6766.6  | 6814.2  | 6988.6  | 7119.4  | 7186.8  | 7063.9  | 6873.6  | 6762.6  | 6631.8  | 6612.0  |
| 30°   | 7040.1  | 7040.1  | 7123.3  | 7274.0  | 7452.4  | 7555.4  | 7404.8  | 7178.8  | 7044.1  | 6972.7  | 6929.1  |
| 32.5° | 7428.6  | 7385.0  | 7416.7  | 7682.3  | 7959.8  | 8047.0  | 7844.8  | 7567.3  | 7353.3  | 7258.1  | 7226.4  |
| 35°   | 7761.6  | 7789.3  | 7860.7  | 8146.1  | 8455.3  | 8657.4  | 8340.3  | 7979.6  | 7761.6  | 7674.3  | 7658.5  |
| 37.5° | 8193.6  | 8241.2  | 8276.9  | 8669.3  | 9041.9  | 9117.2  | 8812.0  | 8522.6  | 8257.1  | 8185.7  | 8146.1  |
| 40°   | 8804.1  | 8772.4  | 8784.3  | 9073.6  | 9410.6  | 9458.2  | 9156.9  | 8950.8  | 8732.7  | 8689.1  | 8689.1  |
| 42.5° | 9307.5  | 9271.8  | 9311.5  | 9418.5  | 9676.2  | 9640.5  | 9474.0  | 9323.4  | 9232.2  | 9184.6  | 9232.2  |
| 45°   | 9612.8  | 9604.8  | 9676.2  | 9755.5  | 9937.8  | 9818.9  | 9688.1  | 9711.9  | 9624.6  | 9545.4  | 9541.4  |
| 47.5° | 9945.7  | 9894.2  | 9981.4  | 10100.3 | 9961.6  | 9906.1  | 9898.2  | 9949.7  | 9921.9  | 9783.2  | 9739.6  |
| 50°   | 10108.3 | 10088.4 | 10227.2 | 10365.9 | 10290.6 | 10163.7 | 10191.5 | 10274.7 | 9918.0  | 9731.7  | 9624.6  |
| 52.5° | 10544.3 | 10548.3 | 10813.8 | 10889.2 | 10857.5 | 10671.1 | 10730.6 | 10504.7 | 10084.5 | 9822.8  | 9834.7  |
| 55°   | 11230.1 | 11202.3 | 11499.6 | 11721.6 | 11757.3 | 11519.4 | 11234.0 | 10916.9 | 10389.7 | 10124.1 | 10044.8 |
| 57°   | 10853.5 | 10916.9 | 11245.9 | 11904.0 | 12236.9 | 11955.5 | 11333.1 | 10754.4 | 10052.8 | 9731.7  | 9589.0  |
| 57.5° | 10350.1 | 10453.1 | 11023.9 | 11685.9 | 12034.8 | 12011.0 | 11210.3 | 10453.1 | 9826.8  | 9327.3  | 9339.2  |
| 60°   | 7583.2  | 7603.0  | 8118.3  | 9168.8  | 10258.9 | 10282.7 | 9307.5  | 8304.6  | 7607.0  | 7063.9  | 7139.2  |
| 62.5° | 3999.7  | 4090.9  | 4297.0  | 5141.3  | 6084.8  | 6314.7  | 5724.0  | 5208.7  | 4606.2  | 4193.9  | 4233.6  |
| 65°   | 2116.8  | 2104.9  | 2204.0  | 2441.8  | 2905.6  | 3024.5  | 2945.3  | 2537.0  | 2326.9  | 2259.5  | 2263.5  |
| 67.5° | 1720.4  | 1740.2  | 1728.3  | 1740.2  | 1771.9  | 1823.4  | 1811.6  | 1827.4  | 1839.3  | 1859.1  | 1855.2  |
| 70°   | 1458.8  | 1458.8  | 1466.7  | 1470.7  | 1470.7  | 1494.4  | 1522.2  | 1573.7  | 1577.7  | 1597.5  | 1605.4  |
| 72.5° | 1149.6  | 1141.6  | 1153.5  | 1181.3  | 1185.2  | 1205.1  | 1244.7  | 1276.4  | 1288.3  | 1288.3  | 1264.5  |
| 75°   | 780.9   | 788.8   | 804.7   | 828.5   | 852.3   | 887.9   | 919.7   | 939.5   | 947.4   | 935.5   | 923.6   |
| 77.5° | 440.0   | 447.9   | 459.8   | 495.5   | 523.3   | 555.0   | 590.6   | 610.5   | 630.3   | 634.2   | 610.5   |
| 80°   | 261.6   | 261.6   | 281.4   | 309.2   | 340.9   | 372.6   | 404.3   | 428.1   | 436.0   | 436.0   | 424.2   |
| 82.5° | 158.6   | 162.5   | 178.4   | 206.1   | 233.9   | 253.7   | 281.4   | 301.3   | 317.1   | 313.2   | 305.2   |
| 85°   | 83.2    | 83.2    | 99.1    | 122.9   | 142.7   | 162.5   | 162.5   | 150.6   | 142.7   | 122.9   | 115.0   |
| 87.5° | 27.7    | 23.8    | 31.7    | 31.7    | 27.7    | 31.7    | 31.7    | 35.7    | 35.7    | 35.7    | 35.7    |
| 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)