

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: P532312

Luminaire Tested: **GALN-SA7C-830-U-RW-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532312  
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-830-U-RW-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 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: 34096 lumens  
Efficiency: N/A  
Efficacy: 90.4 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): 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

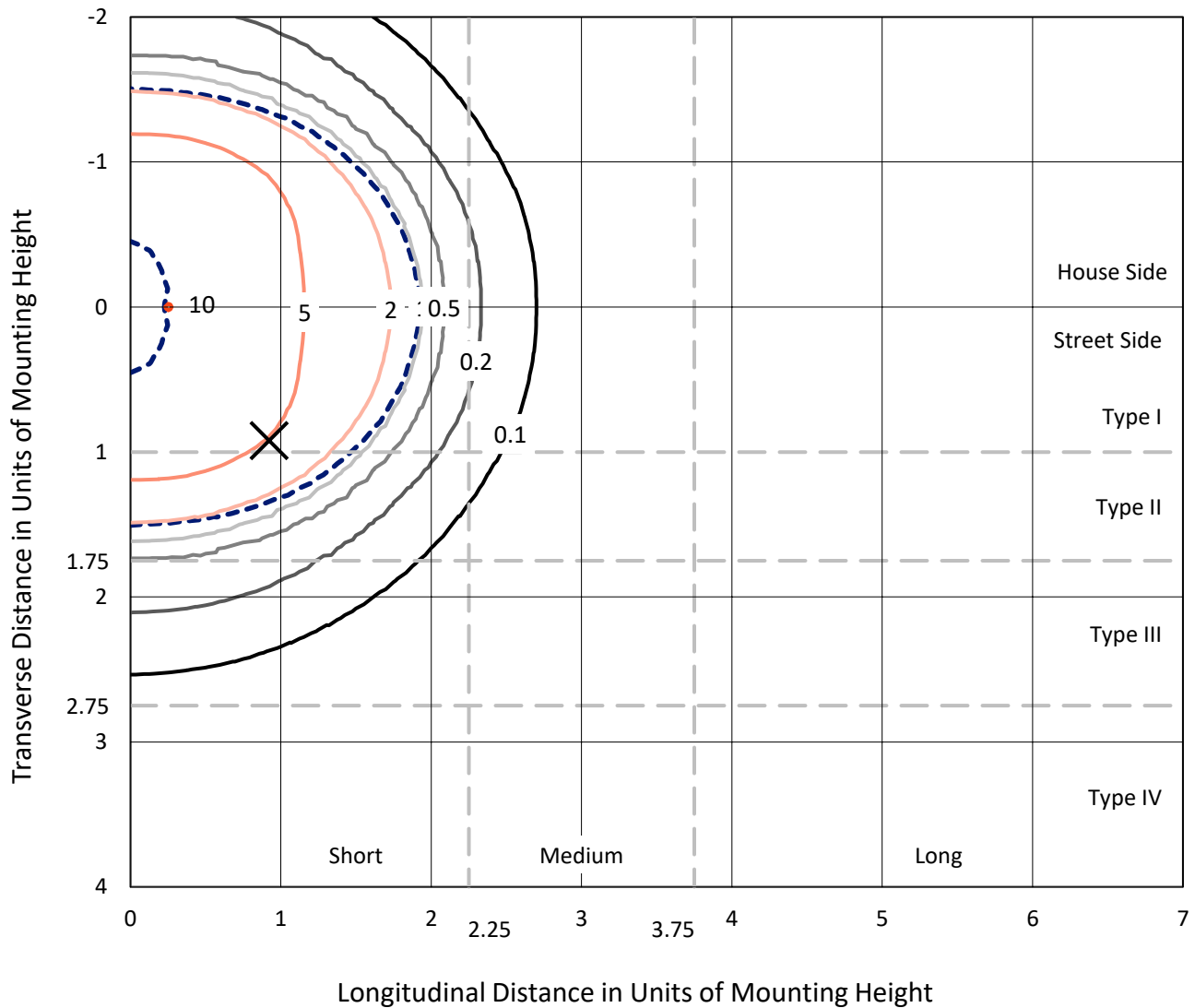


REPORT NUMBER: P532312

CATALOG NUMBER: GALN-SA7C-830-U-RW-GRSWH

## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

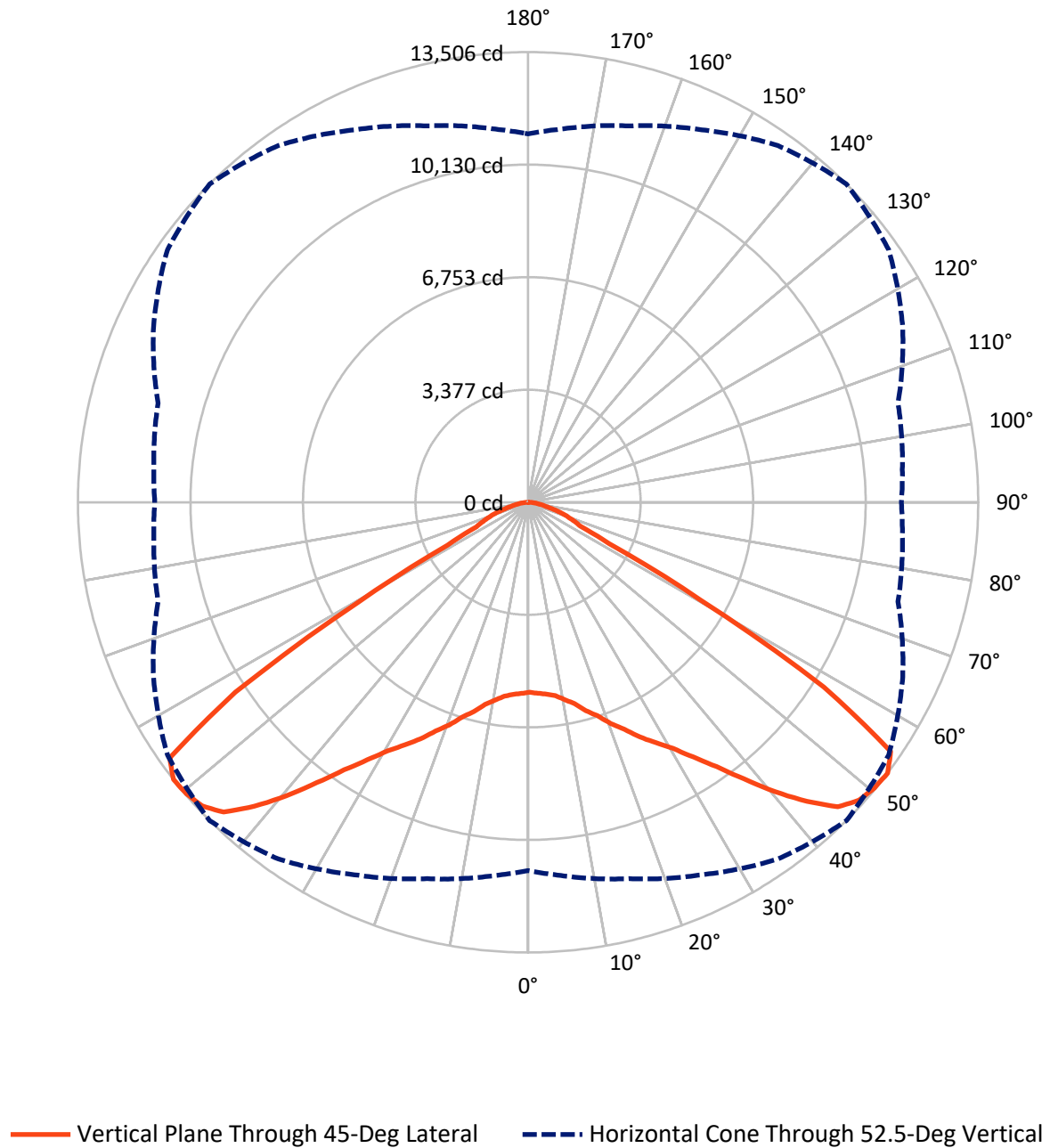


Based on 25 foot mounting height. Maximum calculated value = 10.1 fc  
 Type V - Short - N/A

REPORT NUMBER: P532312

CATALOG NUMBER: GALN-SA7C-830-U-RW-GRSWH

## Luminous Intensity Polar Plot



REPORT NUMBER: P532312

CATALOG NUMBER: GALN-SA7C-830-U-RW-GRSWH

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 17048.0  | 0.0    | 17048.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 17048.0  | 0.0    | 17048.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 34096.0  | 0.0    | 34096.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 560.0   | 1.6       |
| 10°-20°   | 1840.0  | 5.4       |
| 20°-30°   | 3503.1  | 10.3      |
| 30°-40°   | 6015.1  | 17.6      |
| 40°-50°   | 9245.4  | 27.1      |
| 50°-60°   | 9388.6  | 27.5      |
| 60°-70°   | 2616.5  | 7.7       |
| 70°-80°   | 771.8   | 2.3       |
| 80°-90°   | 155.5   | 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°    | 34096.0 | 100.0     |
| 0°-180°   | 34096.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P532312

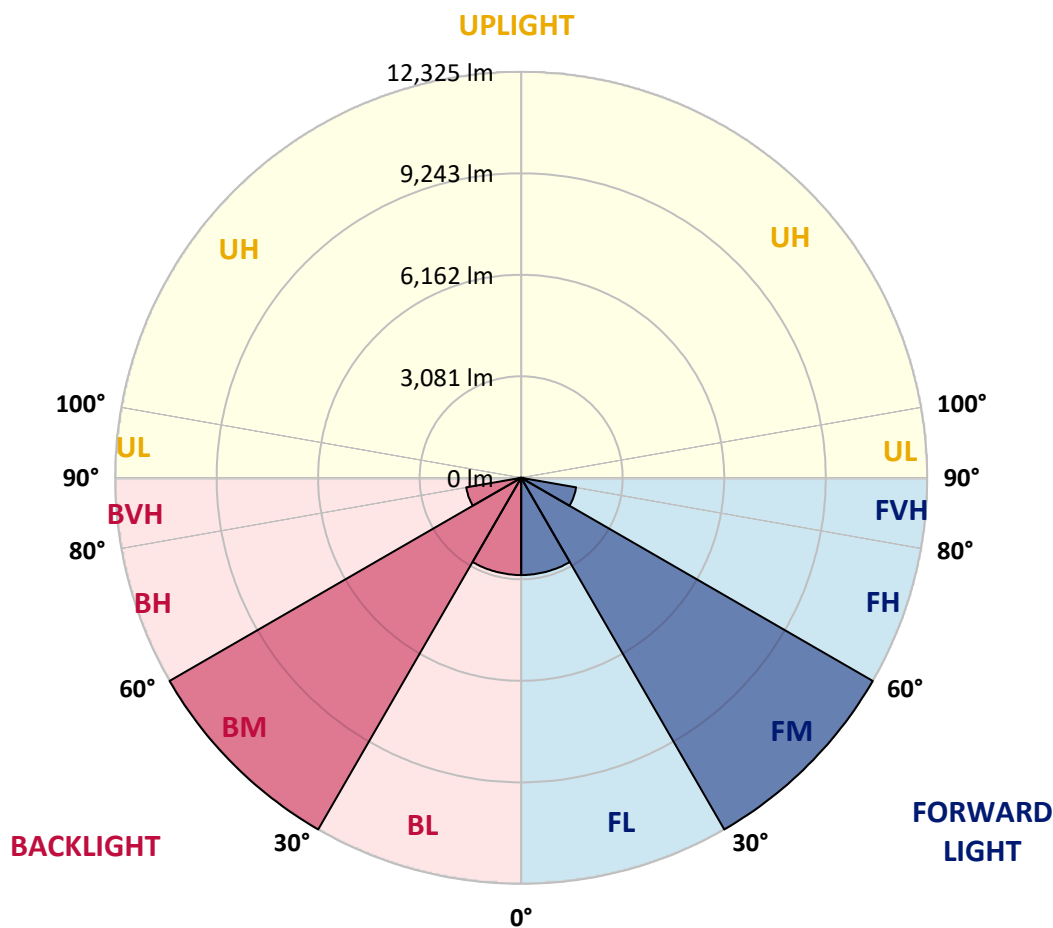
CATALOG NUMBER: GALN-SA7C-830-U-RW-GRSWH

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2951.6  | 8.7       |                         |      |         |
| FM   | (30°-60°)   | 12324.6 | 36.1      |                         |      |         |
| FH   | (60°-80°)   | 1694.1  | 5.0       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 77.7    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 2951.6  | 8.7       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 12324.6 | 36.1      | B5                      |      |         |
| BH   | (60°-80°)   | 1694.1  | 5.0       | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 77.7    | 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: P532312

CATALOG NUMBER: GALN-SA7C-830-U-RW-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5699.6  | 5699.6  | 5699.6  | 5699.6  | 5699.6  | 5699.6  | 5699.6  | 5699.6  | 5699.6  | 5699.6  | 5699.6  |
| 2.5°  | 5712.3  | 5653.1  | 5674.2  | 5686.9  | 5741.9  | 5737.7  | 5725.0  | 5741.9  | 5758.8  | 5763.1  | 5754.6  |
| 5°    | 5708.1  | 5665.7  | 5682.7  | 5695.4  | 5750.4  | 5780.0  | 5771.5  | 5843.5  | 5894.2  | 5881.5  | 5945.0  |
| 7.5°  | 5674.2  | 5699.6  | 5678.4  | 5741.9  | 5788.5  | 5860.4  | 5936.5  | 6004.3  | 6067.7  | 6139.7  | 6152.3  |
| 10°   | 5750.4  | 5750.4  | 5788.5  | 5839.2  | 5961.9  | 6016.9  | 6127.0  | 6224.3  | 6347.0  | 6431.6  | 6397.8  |
| 12.5° | 5830.8  | 5843.5  | 5843.5  | 5974.6  | 6076.2  | 6198.9  | 6300.4  | 6431.6  | 6605.1  | 6706.7  | 6757.4  |
| 15°   | 5911.2  | 5919.6  | 5961.9  | 6139.7  | 6292.0  | 6486.6  | 6579.7  | 6698.2  | 6795.5  | 6985.9  | 6990.2  |
| 17.5° | 5983.1  | 6029.6  | 6156.6  | 6355.5  | 6545.9  | 6732.0  | 6880.1  | 7002.8  | 7087.5  | 7163.6  | 7146.7  |
| 20°   | 6253.9  | 6287.7  | 6418.9  | 6617.8  | 6901.3  | 7083.2  | 7134.0  | 7155.2  | 7210.2  | 7362.5  | 7316.0  |
| 22.5° | 6516.2  | 6528.9  | 6651.6  | 6956.3  | 7155.2  | 7396.4  | 7451.4  | 7438.7  | 7459.8  | 7497.9  | 7565.6  |
| 25°   | 6787.0  | 6808.2  | 6977.5  | 7235.6  | 7514.8  | 7802.6  | 7849.1  | 7751.8  | 7722.2  | 7764.5  | 7768.7  |
| 27.5° | 7134.0  | 7138.2  | 7354.0  | 7578.3  | 7895.7  | 8166.5  | 8238.4  | 8162.2  | 8022.6  | 8056.4  | 8111.5  |
| 30°   | 7574.1  | 7544.5  | 7760.3  | 8081.8  | 8416.1  | 8568.4  | 8691.1  | 8653.1  | 8500.7  | 8471.1  | 8424.6  |
| 32.5° | 8081.8  | 8090.3  | 8284.9  | 8636.1  | 8856.2  | 9110.0  | 9241.2  | 9177.7  | 9080.4  | 9029.6  | 9059.3  |
| 35°   | 8796.9  | 8835.0  | 8966.2  | 9258.1  | 9613.6  | 9740.5  | 9947.8  | 9812.4  | 9558.6  | 9622.0  | 9677.0  |
| 37.5° | 9385.1  | 9495.1  | 9740.5  | 10087.5 | 10299.0 | 10531.8 | 10607.9 | 10426.0 | 10239.8 | 10163.6 | 10345.6 |
| 40°   | 10286.4 | 10252.5 | 10523.3 | 10870.3 | 11183.4 | 11416.1 | 11318.8 | 11136.8 | 10675.6 | 10679.9 | 10730.6 |
| 42.5° | 11060.7 | 11077.6 | 11284.9 | 11699.6 | 12127.0 | 12270.8 | 11962.0 | 11517.7 | 11005.7 | 10950.7 | 11060.7 |
| 45°   | 11712.3 | 11780.0 | 11898.5 | 12452.8 | 12871.7 | 13028.3 | 12457.0 | 11932.3 | 11246.9 | 11018.4 | 11200.3 |
| 47.5° | 11945.0 | 12055.0 | 12313.2 | 12820.9 | 13235.6 | 13362.5 | 12905.5 | 12152.4 | 11471.1 | 11098.8 | 11196.1 |
| 50°   | 11978.9 | 11940.8 | 12363.9 | 12829.4 | 13193.3 | 13468.3 | 13066.3 | 12313.2 | 11416.1 | 11221.5 | 11191.9 |
| 52.5° | 11052.2 | 11238.4 | 11691.2 | 12330.1 | 13066.3 | 13506.4 | 13210.2 | 12402.0 | 11492.3 | 11272.3 | 11200.3 |
| 55°   | 8945.0  | 8725.0  | 9550.1  | 10624.9 | 11978.9 | 13201.7 | 13159.4 | 12448.6 | 11538.8 | 11356.9 | 11259.6 |
| 57.5° | 4993.0  | 5056.4  | 5521.9  | 6689.7  | 8437.3  | 10468.3 | 11699.6 | 11957.7 | 11517.7 | 11411.9 | 11462.7 |
| 60°   | 2310.3  | 2331.5  | 2530.3  | 3076.2  | 4159.4  | 5936.5  | 7557.1  | 9203.1  | 9960.5  | 10112.9 | 10112.9 |
| 62.5° | 1722.1  | 1713.7  | 1764.5  | 1861.8  | 2090.3  | 2729.2  | 3643.2  | 4950.7  | 5991.6  | 6719.3  | 6909.8  |
| 65°   | 1557.1  | 1552.9  | 1578.3  | 1612.1  | 1629.1  | 1717.9  | 1921.0  | 2323.0  | 2661.5  | 2856.1  | 2822.3  |
| 67.5° | 1362.5  | 1358.3  | 1366.7  | 1387.9  | 1417.5  | 1464.0  | 1514.8  | 1599.4  | 1717.9  | 1709.5  | 1688.3  |
| 70°   | 1100.1  | 1100.1  | 1112.8  | 1129.8  | 1163.6  | 1218.6  | 1277.9  | 1337.1  | 1438.7  | 1459.8  | 1455.6  |
| 72.5° | 812.4   | 799.7   | 825.1   | 859.0   | 892.8   | 960.5   | 1024.0  | 1079.0  | 1150.9  | 1172.1  | 1163.6  |
| 75°   | 516.2   | 524.7   | 541.6   | 579.7   | 638.9   | 685.5   | 753.2   | 799.7   | 846.3   | 863.2   | 867.4   |
| 77.5° | 287.7   | 296.2   | 325.8   | 372.4   | 431.6   | 482.4   | 541.6   | 579.7   | 609.3   | 613.5   | 617.8   |
| 80°   | 173.5   | 177.7   | 207.3   | 249.6   | 300.4   | 355.4   | 402.0   | 440.1   | 465.4   | 452.8   | 448.5   |
| 82.5° | 105.8   | 110.0   | 135.4   | 173.5   | 215.8   | 258.1   | 308.9   | 342.7   | 368.1   | 351.2   | 334.3   |
| 85°   | 55.0    | 59.2    | 80.4    | 105.8   | 139.6   | 160.8   | 160.8   | 143.9   | 139.6   | 131.2   | 126.9   |
| 87.5° | 16.9    | 16.9    | 21.2    | 25.4    | 21.2    | 25.4    | 29.6    | 33.9    | 33.9    | 38.1    | 33.9    |
| 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)