

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: P451699

Luminaire Tested: **GALN-SA2C-760-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451699  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-760-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14755 lumens  
Efficiency: N/A  
Efficacy: 136.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

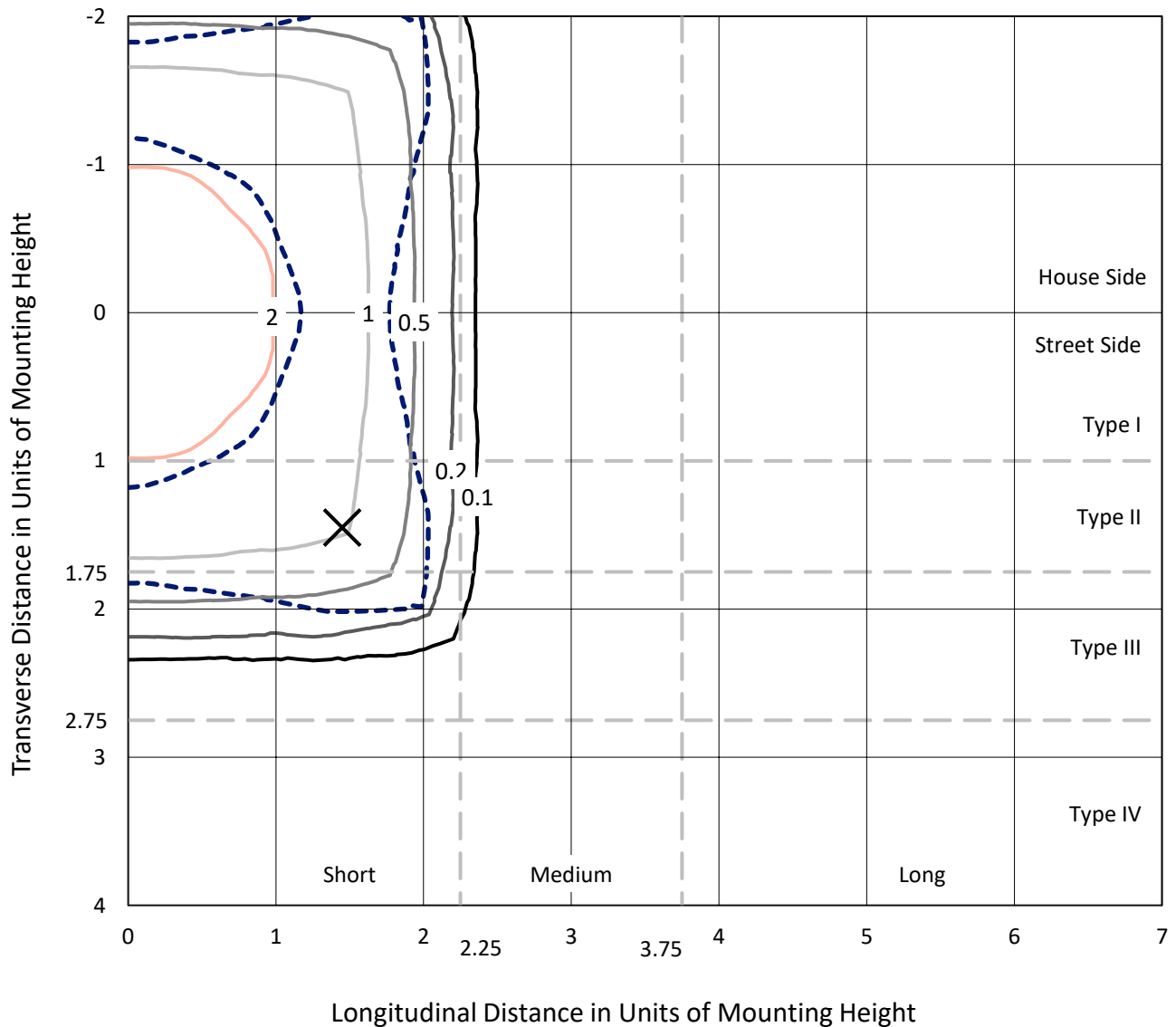
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P451699  
 CATALOG NUMBER: GALN-SA2C-760-U-5NQ

### Iso-Footcandle Lines of Horizontal Illumination

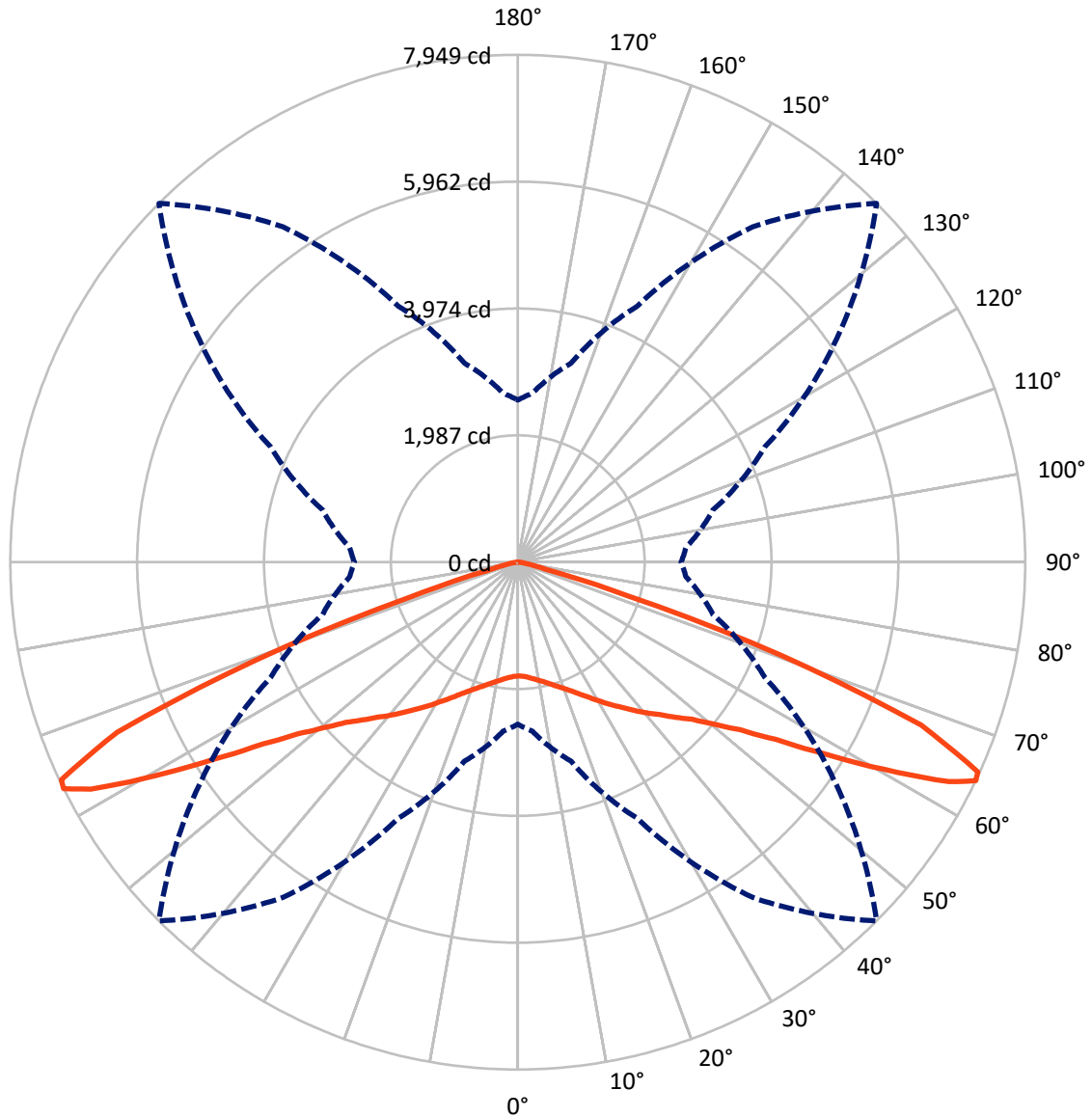
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type V - Short - N/A

REPORT NUMBER: P451699  
CATALOG NUMBER: GALN-SA2C-760-U-5NQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P451699

CATALOG NUMBER: GALN-SA2C-760-U-5NQ

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7377.5   | 0.0    | 7377.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 7377.5   | 0.0    | 7377.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 14755.0  | 0.0    | 14755.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 175.2   | 1.2       |
| 10°-20°   | 565.1   | 3.8       |
| 20°-30°   | 1068.0  | 7.2       |
| 30°-40°   | 1768.7  | 12.0      |
| 40°-50°   | 2761.2  | 18.7      |
| 50°-60°   | 4268.8  | 28.9      |
| 60°-70°   | 3680.9  | 24.9      |
| 70°-80°   | 417.1   | 2.8       |
| 80°-90°   | 50.0    | 0.3       |
| 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°    | 14755.0 | 100.0     |
| 0°-180°   | 14755.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P451699

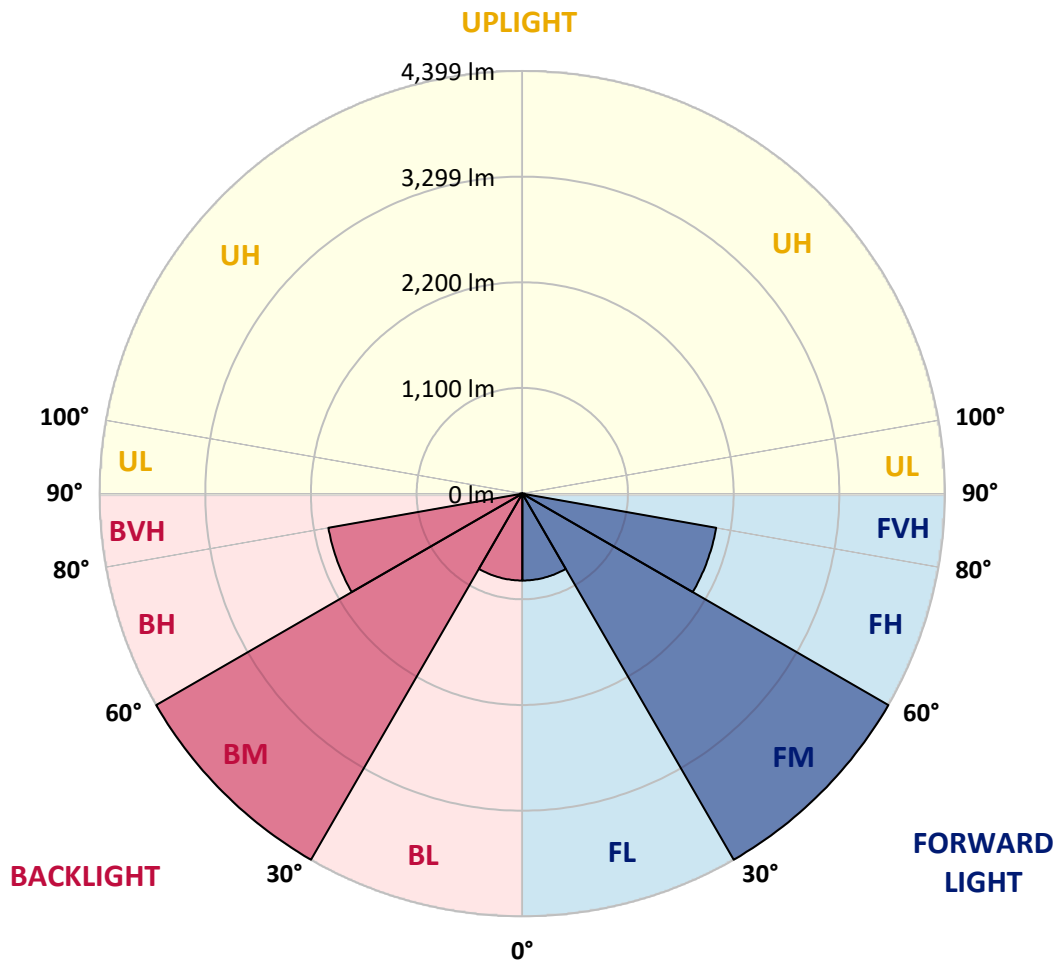
CATALOG NUMBER: GALN-SA2C-760-U-5NQ

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 904.2  | 6.1       |                         |      |         |
| FM (30°-60°)   | 4399.3 | 29.8      |                         |      |         |
| FH (60°-80°)   | 2049.0 | 13.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 25.0   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 904.2  | 6.1       | B2/1000                 |      |         |
| BM (30°-60°)   | 4399.3 | 29.8      | B3/5000                 |      |         |
| BH (60°-80°)   | 2049.0 | 13.9      | B3/2500                 |      | G2/5000 |
| BVH (80°-90°)  | 25.0   | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type V Short





REPORT NUMBER: P451699  
 CATALOG NUMBER: GALN-SA2C-760-U-5NQ

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1783.4 | 1783.4 | 1783.4 | 1783.4 | 1783.4 | 1783.4 | 1783.4 | 1783.4 | 1783.4 | 1783.4 | 1783.4 |
| 2.5°  | 1790.4 | 1794.3 | 1791.2 | 1790.4 | 1789.6 | 1789.6 | 1789.6 | 1790.4 | 1793.5 | 1795.9 | 1794.3 |
| 5°    | 1813.1 | 1816.2 | 1814.6 | 1813.9 | 1813.1 | 1813.9 | 1812.3 | 1811.5 | 1813.9 | 1813.9 | 1813.1 |
| 7.5°  | 1841.2 | 1845.1 | 1843.6 | 1845.1 | 1845.9 | 1846.7 | 1842.8 | 1839.7 | 1838.9 | 1841.2 | 1839.7 |
| 10°   | 1879.5 | 1882.6 | 1883.4 | 1884.2 | 1885.8 | 1885.0 | 1880.3 | 1874.8 | 1874.0 | 1873.3 | 1872.5 |
| 12.5° | 1922.5 | 1924.8 | 1925.6 | 1928.7 | 1931.1 | 1931.9 | 1926.4 | 1921.7 | 1913.9 | 1915.5 | 1912.3 |
| 15°   | 1971.0 | 1975.6 | 1974.9 | 1979.5 | 1985.8 | 1987.4 | 1981.9 | 1974.1 | 1967.0 | 1963.1 | 1960.8 |
| 17.5° | 2030.3 | 2033.5 | 2031.9 | 2036.6 | 2044.4 | 2048.3 | 2043.6 | 2033.5 | 2026.4 | 2017.8 | 2013.2 |
| 20°   | 2100.7 | 2106.2 | 2107.7 | 2107.7 | 2114.7 | 2118.7 | 2111.6 | 2108.5 | 2097.6 | 2091.3 | 2087.4 |
| 22.5° | 2180.4 | 2182.7 | 2187.4 | 2192.1 | 2199.1 | 2197.6 | 2195.2 | 2190.6 | 2180.4 | 2174.9 | 2168.7 |
| 25°   | 2270.3 | 2272.6 | 2284.3 | 2294.5 | 2296.8 | 2295.3 | 2292.1 | 2289.8 | 2280.4 | 2267.9 | 2263.2 |
| 27.5° | 2375.0 | 2379.7 | 2395.3 | 2404.7 | 2404.7 | 2405.5 | 2399.2 | 2407.0 | 2386.7 | 2371.9 | 2370.3 |
| 30°   | 2506.3 | 2509.4 | 2522.7 | 2532.1 | 2527.4 | 2523.5 | 2521.9 | 2529.7 | 2507.8 | 2481.3 | 2475.0 |
| 32.5° | 2636.0 | 2647.0 | 2658.7 | 2679.0 | 2662.6 | 2655.5 | 2654.0 | 2659.5 | 2634.4 | 2604.7 | 2596.2 |
| 35°   | 2775.1 | 2782.9 | 2804.8 | 2822.0 | 2807.2 | 2790.7 | 2797.8 | 2815.0 | 2785.3 | 2745.4 | 2743.9 |
| 37.5° | 2929.1 | 2936.1 | 2964.2 | 2982.2 | 2971.3 | 2943.1 | 2954.9 | 2975.2 | 2945.5 | 2896.3 | 2886.1 |
| 40°   | 3089.3 | 3104.1 | 3139.3 | 3158.1 | 3140.1 | 3102.6 | 3124.4 | 3146.3 | 3119.8 | 3062.7 | 3040.0 |
| 42.5° | 3269.0 | 3292.5 | 3343.3 | 3352.6 | 3318.3 | 3267.5 | 3305.8 | 3340.9 | 3322.2 | 3256.5 | 3247.9 |
| 45°   | 3479.3 | 3493.3 | 3555.8 | 3576.2 | 3528.5 | 3465.2 | 3512.9 | 3576.9 | 3562.9 | 3487.1 | 3470.7 |
| 47.5° | 3714.5 | 3727.8 | 3792.6 | 3823.1 | 3762.9 | 3677.8 | 3763.7 | 3847.3 | 3838.7 | 3757.5 | 3749.7 |
| 50°   | 3992.7 | 3995.8 | 4085.7 | 4120.1 | 4059.9 | 3986.4 | 4063.0 | 4167.0 | 4132.6 | 4028.6 | 4027.1 |
| 52.5° | 4297.5 | 4301.4 | 4414.7 | 4481.1 | 4447.5 | 4364.7 | 4455.3 | 4518.7 | 4431.1 | 4295.1 | 4285.0 |
| 55°   | 4561.6 | 4581.2 | 4735.9 | 4912.5 | 4958.6 | 4898.5 | 4925.8 | 4896.1 | 4680.4 | 4489.7 | 4460.0 |
| 57.5° | 4669.5 | 4707.8 | 4943.0 | 5272.8 | 5572.9 | 5662.0 | 5451.0 | 5168.1 | 4779.7 | 4510.1 | 4481.1 |
| 60°   | 4406.1 | 4447.5 | 4812.5 | 5438.5 | 6204.4 | 6591.2 | 5998.0 | 5214.2 | 4553.8 | 4174.8 | 4129.5 |
| 62.5° | 3528.5 | 3540.2 | 4077.1 | 5048.5 | 6572.4 | 7574.3 | 6228.6 | 4821.1 | 3896.6 | 3381.6 | 3363.6 |
| 64°   | 2539.1 | 2659.5 | 3228.4 | 4426.4 | 6411.5 | 7948.7 | 6095.7 | 4270.1 | 3165.1 | 2643.8 | 2559.4 |
| 65°   | 1899.1 | 1931.9 | 2602.4 | 3780.1 | 6127.8 | 7920.5 | 5837.8 | 3743.4 | 2621.2 | 2023.3 | 1929.5 |
| 67.5° | 717.4  | 721.3  | 960.5  | 1884.2 | 4362.3 | 6814.7 | 4455.3 | 2036.6 | 1104.3 | 798.7  | 769.8  |
| 70°   | 297.8  | 303.2  | 352.5  | 633.8  | 1874.8 | 4375.6 | 2148.4 | 734.6  | 404.0  | 327.4  | 322.8  |
| 72.5° | 218.0  | 221.2  | 236.0  | 281.3  | 576.7  | 1796.7 | 706.5  | 311.8  | 236.8  | 211.8  | 209.4  |
| 75°   | 171.1  | 172.7  | 183.7  | 207.1  | 268.8  | 497.8  | 293.8  | 214.1  | 180.5  | 162.6  | 161.0  |
| 77.5° | 130.5  | 134.4  | 142.2  | 157.9  | 180.5  | 236.0  | 194.6  | 160.2  | 139.1  | 124.3  | 121.9  |
| 80°   | 89.9   | 94.6   | 109.4  | 115.7  | 121.1  | 153.2  | 132.9  | 121.1  | 108.6  | 90.7   | 85.2   |
| 82.5° | 55.5   | 58.6   | 73.5   | 78.9   | 76.6   | 86.0   | 85.2   | 86.7   | 77.4   | 56.3   | 52.4   |
| 85°   | 28.9   | 30.5   | 39.9   | 41.4   | 38.3   | 35.2   | 43.8   | 50.8   | 47.7   | 32.0   | 31.3   |
| 87.5° | 6.3    | 7.0    | 8.6    | 7.8    | 8.6    | 8.6    | 10.9   | 16.4   | 17.2   | 10.9   | 10.2   |
| 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)