

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: P452265

Luminaire Tested: **GALN-SA3B-722-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452265  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-722-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12465 lumens  
Efficiency: N/A  
Efficacy: 103.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

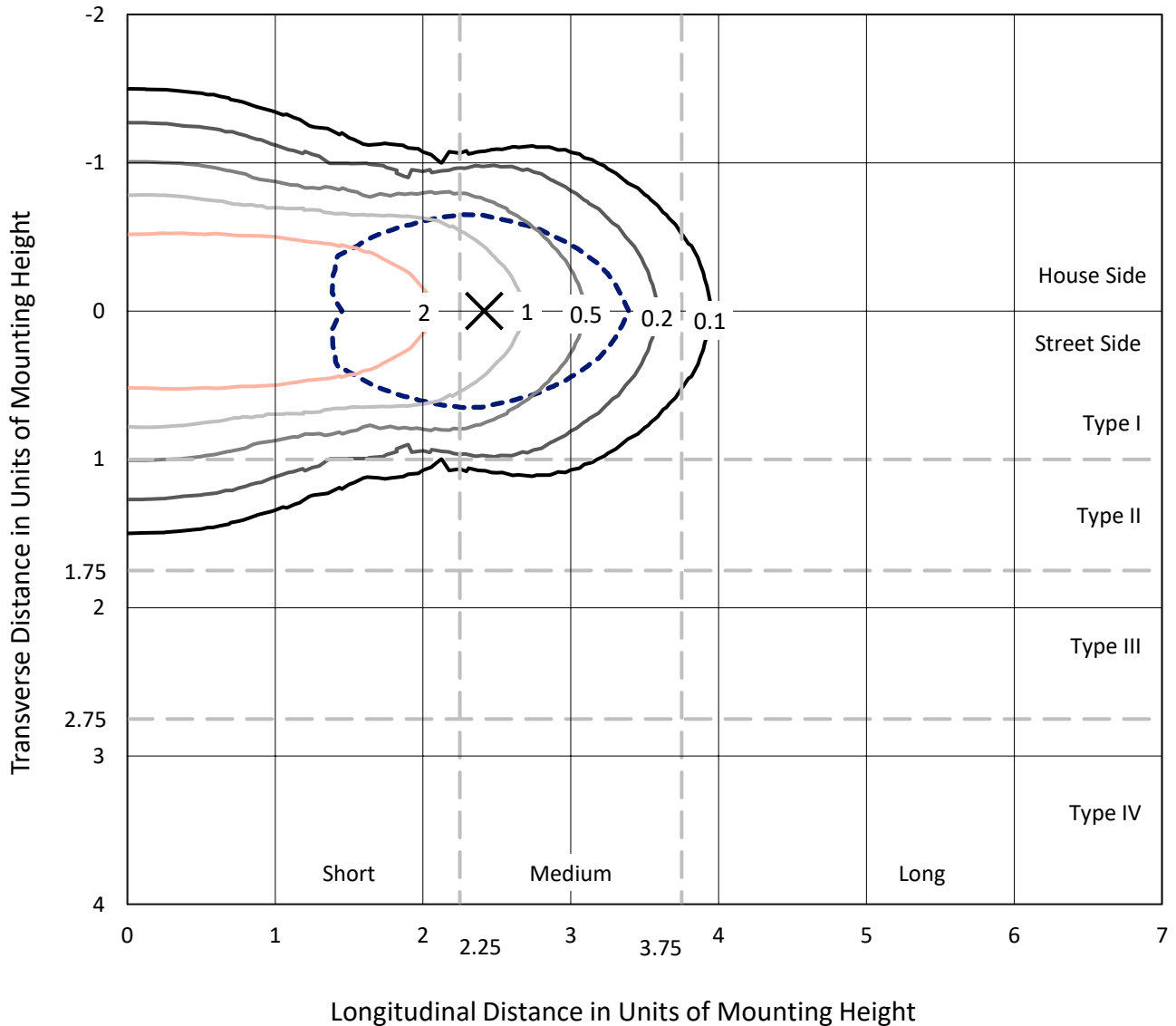
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

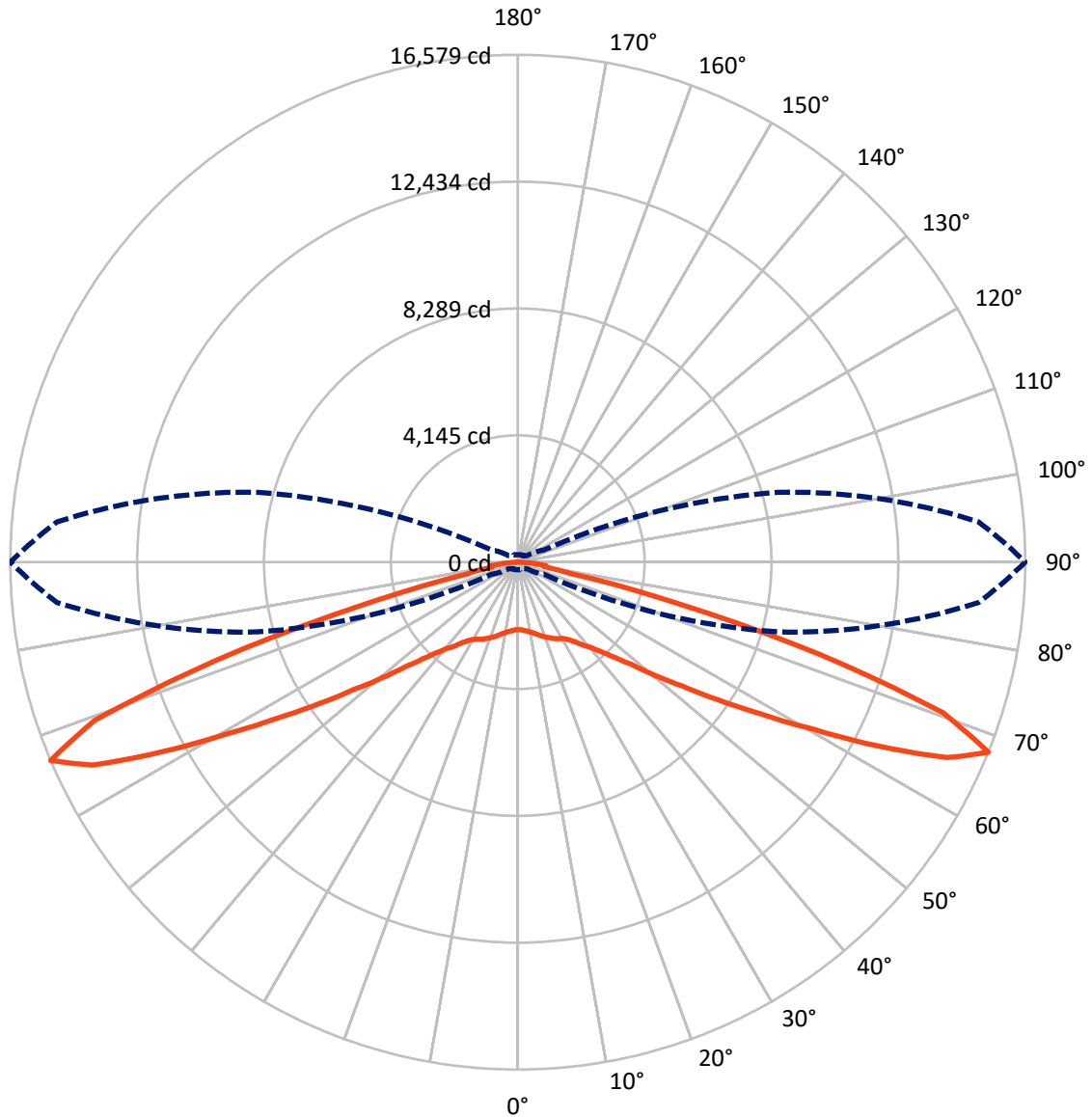
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6232.5   | 0.0    | 6232.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 6232.5   | 0.0    | 6232.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 12465.0  | 0.0    | 12465.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 220.0   | 1.8       |
| 10°-20°   | 703.9   | 5.6       |
| 20°-30°   | 1178.2  | 9.5       |
| 30°-40°   | 1596.1  | 12.8      |
| 40°-50°   | 2021.7  | 16.2      |
| 50°-60°   | 2525.6  | 20.3      |
| 60°-70°   | 2968.8  | 23.8      |
| 70°-80°   | 1135.7  | 9.1       |
| 80°-90°   | 115.1   | 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°    | 12465.0 | 100.0     |
| 0°-180°   | 12465.0 | 100.0     |



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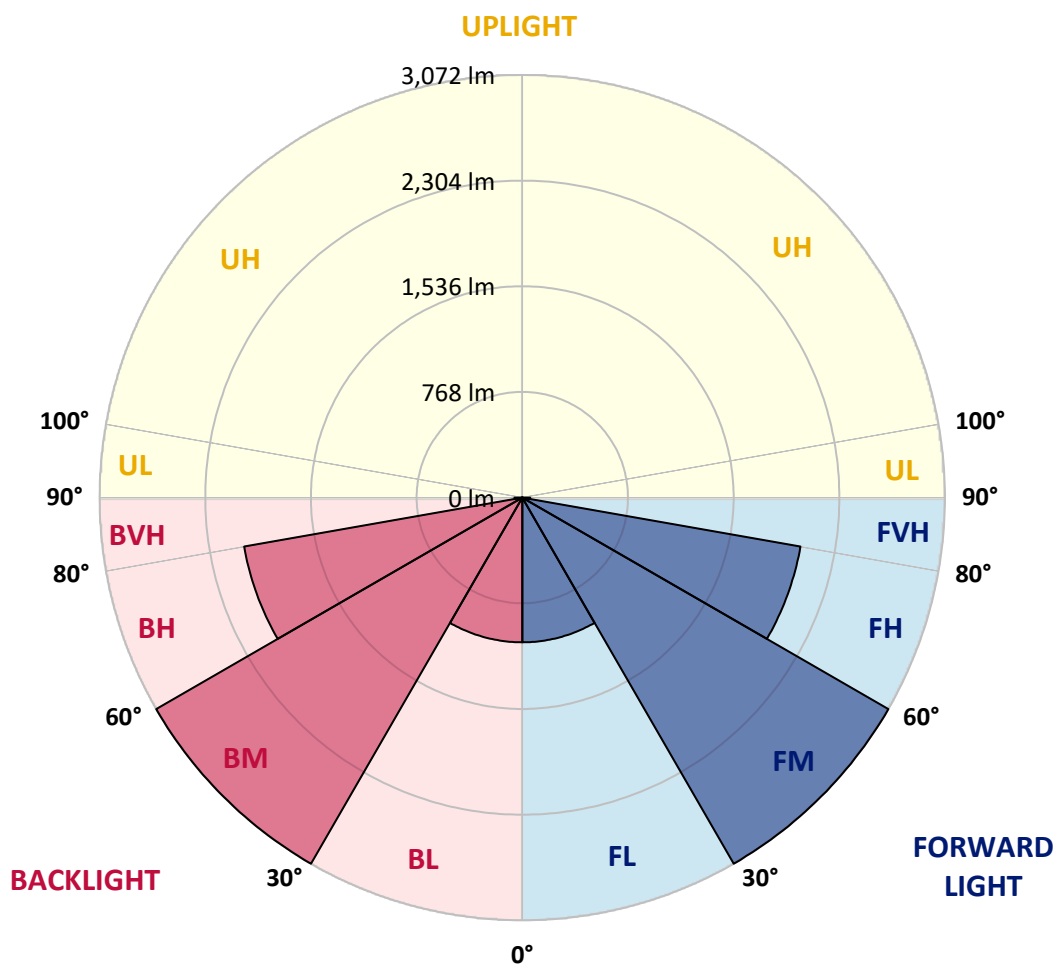
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1051.0 | 8.4       |                         |      |         |
| FM   | (30°-60°)   | 3071.7 | 24.6      |                         |      |         |
| FH   | (60°-80°)   | 2052.2 | 16.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 57.5   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1051.0 | 8.4       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3071.7 | 24.6      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2052.2 | 16.5      | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 57.5   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°     | 90°     |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0°    | 2206.7 | 2206.7 | 2206.7 | 2206.7 | 2206.7 | 2206.7 | 2206.7 | 2206.7 | 2206.7 | 2206.7  | 2206.7  |
| 2.5°  | 2235.0 | 2233.6 | 2234.3 | 2233.6 | 2235.7 | 2234.3 | 2226.0 | 2219.1 | 2213.6 | 2214.3  | 2212.2  |
| 5°    | 2282.6 | 2283.3 | 2284.0 | 2280.5 | 2285.4 | 2282.6 | 2269.5 | 2258.5 | 2247.4 | 2243.3  | 2241.9  |
| 7.5°  | 2322.0 | 2325.4 | 2327.5 | 2330.9 | 2339.2 | 2339.2 | 2332.3 | 2316.4 | 2292.3 | 2278.5  | 2277.8  |
| 10°   | 2361.3 | 2364.1 | 2370.3 | 2381.3 | 2395.1 | 2408.2 | 2405.5 | 2384.1 | 2353.0 | 2329.6  | 2324.0  |
| 12.5° | 2375.1 | 2378.6 | 2399.3 | 2431.0 | 2462.1 | 2487.6 | 2487.6 | 2470.4 | 2430.3 | 2394.4  | 2384.1  |
| 15°   | 2326.8 | 2333.0 | 2370.3 | 2437.9 | 2519.4 | 2575.3 | 2587.7 | 2563.5 | 2520.8 | 2465.5  | 2453.1  |
| 17.5° | 2230.9 | 2246.0 | 2300.6 | 2400.7 | 2535.9 | 2651.9 | 2687.8 | 2676.1 | 2620.8 | 2550.4  | 2535.9  |
| 20°   | 2128.0 | 2144.6 | 2202.6 | 2335.1 | 2522.1 | 2696.8 | 2801.0 | 2803.7 | 2735.4 | 2633.3  | 2611.9  |
| 22.5° | 2014.8 | 2027.2 | 2101.8 | 2257.1 | 2480.7 | 2707.1 | 2898.3 | 2945.9 | 2853.4 | 2716.1  | 2685.7  |
| 25°   | 1887.8 | 1901.6 | 1979.6 | 2147.3 | 2402.7 | 2695.4 | 2987.4 | 3092.3 | 2977.0 | 2804.4  | 2765.8  |
| 27.5° | 1766.3 | 1771.8 | 1855.4 | 2025.9 | 2299.9 | 2665.0 | 3052.9 | 3226.9 | 3113.7 | 2877.6  | 2828.6  |
| 30°   | 1649.7 | 1662.8 | 1736.6 | 1905.1 | 2181.8 | 2605.7 | 3109.5 | 3380.1 | 3260.7 | 2954.2  | 2891.4  |
| 32.5° | 1526.1 | 1542.0 | 1622.1 | 1792.5 | 2063.8 | 2516.6 | 3144.0 | 3547.8 | 3465.7 | 3078.5  | 3011.5  |
| 35°   | 1407.4 | 1417.8 | 1498.5 | 1664.2 | 1948.5 | 2413.1 | 3150.2 | 3737.0 | 3730.0 | 3266.9  | 3177.9  |
| 37.5° | 1285.9 | 1301.1 | 1382.5 | 1541.3 | 1826.4 | 2303.3 | 3119.2 | 3937.8 | 4048.9 | 3528.5  | 3432.6  |
| 40°   | 1169.3 | 1182.4 | 1262.4 | 1422.6 | 1687.6 | 2169.4 | 3045.3 | 4121.4 | 4421.0 | 3797.7  | 3661.7  |
| 42.5° | 1042.3 | 1045.7 | 1133.4 | 1296.3 | 1551.7 | 2014.1 | 2939.0 | 4285.0 | 4835.8 | 4158.7  | 3989.6  |
| 45°   | 898.0  | 907.0  | 988.4  | 1148.6 | 1395.7 | 1840.2 | 2794.8 | 4420.3 | 5361.8 | 4659.1  | 4428.6  |
| 47.5° | 753.7  | 761.3  | 835.9  | 993.9  | 1225.2 | 1640.7 | 2572.5 | 4539.0 | 5901.5 | 5294.8  | 4992.5  |
| 50°   | 612.9  | 617.1  | 677.8  | 817.9  | 1033.3 | 1430.9 | 2297.1 | 4577.0 | 6511.7 | 6194.9  | 5809.0  |
| 52.5° | 484.5  | 490.8  | 537.0  | 646.8  | 828.3  | 1183.1 | 1999.6 | 4483.1 | 7224.0 | 7262.0  | 6718.1  |
| 55°   | 392.7  | 394.8  | 429.3  | 510.1  | 647.4  | 923.5  | 1640.7 | 4221.5 | 7990.2 | 8629.4  | 7935.7  |
| 57.5° | 338.2  | 339.6  | 358.9  | 403.8  | 498.4  | 696.5  | 1272.8 | 3726.6 | 8678.4 | 10231.4 | 9339.6  |
| 60°   | 307.2  | 307.8  | 318.9  | 345.1  | 394.8  | 534.2  | 911.8  | 3028.1 | 9357.6 | 12014.3 | 11084.5 |
| 62.5° | 287.8  | 287.8  | 295.4  | 309.9  | 334.1  | 410.0  | 660.6  | 2184.6 | 9822.8 | 13823.4 | 13235.3 |
| 65°   | 269.2  | 269.2  | 274.7  | 285.1  | 298.2  | 335.5  | 488.0  | 1424.7 | 9811.1 | 15141.1 | 15398.5 |
| 67.5° | 247.8  | 247.8  | 251.9  | 262.3  | 269.9  | 288.5  | 376.9  | 933.2  | 8813.0 | 15112.1 | 16578.8 |
| 70°   | 222.3  | 222.3  | 227.8  | 236.8  | 243.0  | 254.7  | 297.5  | 638.5  | 6474.4 | 12903.3 | 14744.2 |
| 72.5° | 196.7  | 197.4  | 200.9  | 209.8  | 214.7  | 221.6  | 247.1  | 447.3  | 3971.6 | 8786.0  | 10309.4 |
| 75°   | 168.4  | 169.8  | 173.2  | 182.2  | 186.4  | 189.1  | 208.5  | 318.9  | 2009.3 | 4737.1  | 5393.5  |
| 77.5° | 136.0  | 138.7  | 140.8  | 150.5  | 153.2  | 157.4  | 171.9  | 230.5  | 882.1  | 1702.1  | 1717.3  |
| 80°   | 99.4   | 102.8  | 109.1  | 118.0  | 120.1  | 122.9  | 131.1  | 163.6  | 399.6  | 777.2   | 844.2   |
| 82.5° | 73.2   | 78.0   | 70.4   | 82.1   | 82.1   | 78.7   | 92.5   | 109.7  | 183.6  | 769.6   | 920.8   |
| 85°   | 40.0   | 40.7   | 36.6   | 42.1   | 44.9   | 44.2   | 49.0   | 53.8   | 89.0   | 513.5   | 529.4   |
| 87.5° | 9.7    | 10.4   | 11.0   | 13.1   | 15.9   | 15.9   | 17.3   | 15.2   | 29.0   | 166.3   | 95.3    |
| 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)