

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: STREETWORKS

Report Number: P653702

Luminaire Tested: **GLAN-SA2A-840-U-RW-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P653702  
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: STREETWORKS  
Catalog Number: GLAN-SA2A-840-U-RW-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 615mA 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: 6776.8 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1

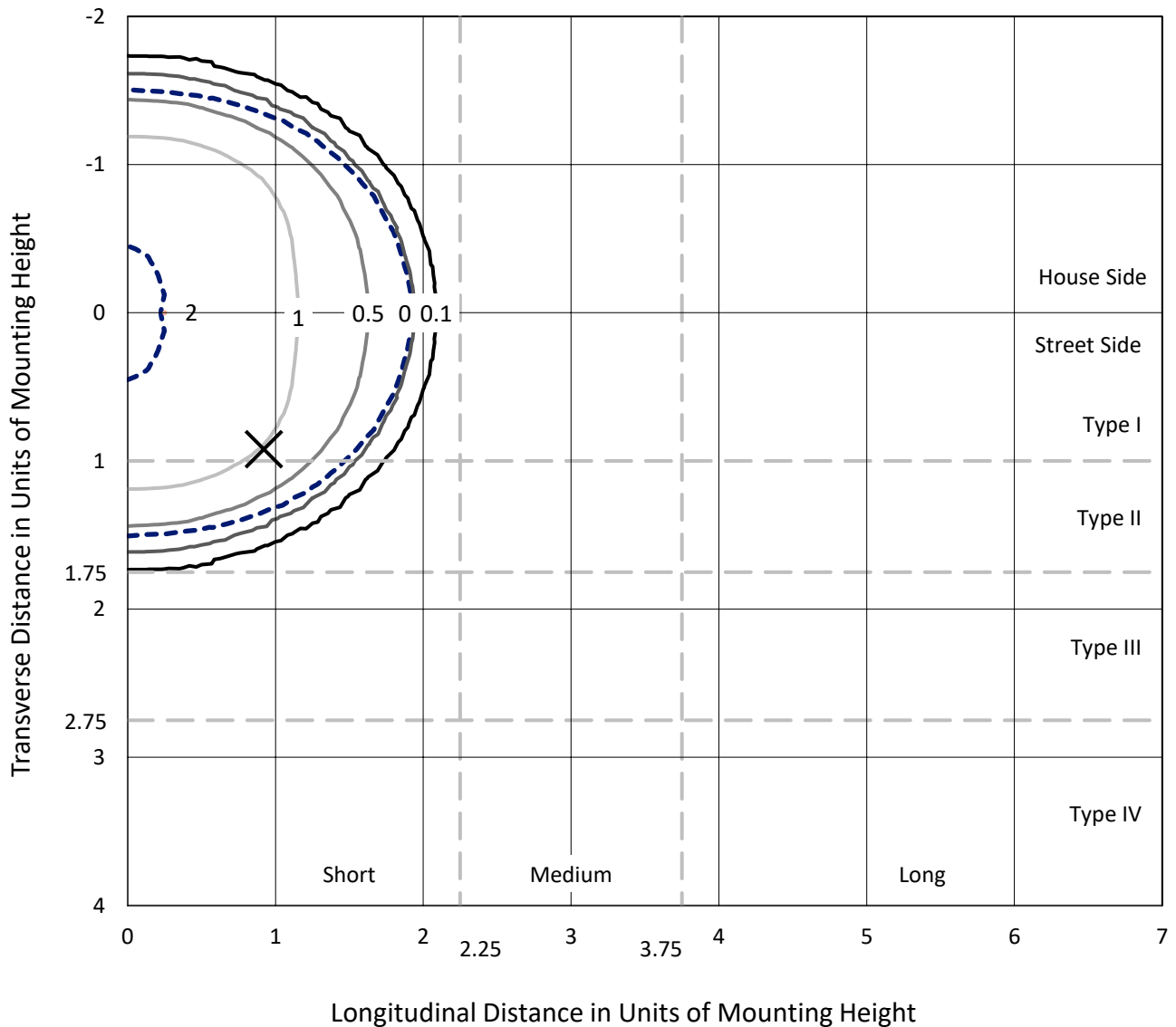
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

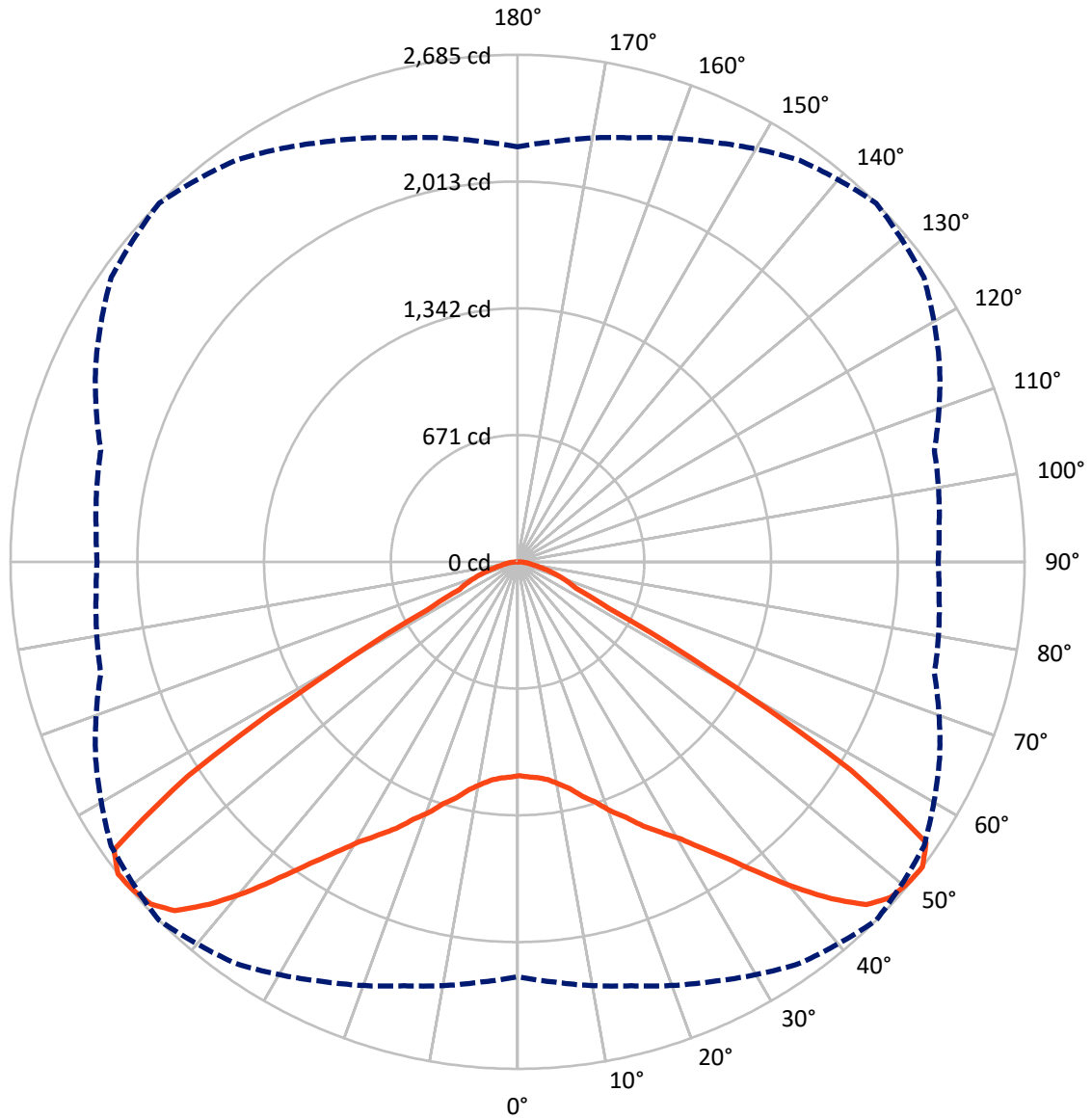
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3388.4   | 0.0    | 3388.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3388.4   | 0.0    | 3388.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 6776.8   | 0.0    | 6776.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 111.3  | 1.6       |
| 10°-20°   | 365.7  | 5.4       |
| 20°-30°   | 696.3  | 10.3      |
| 30°-40°   | 1195.5 | 17.6      |
| 40°-50°   | 1837.6 | 27.1      |
| 50°-60°   | 1866.0 | 27.5      |
| 60°-70°   | 520.0  | 7.7       |
| 70°-80°   | 153.4  | 2.3       |
| 80°-90°   | 30.9   | 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°    | 6776.8 | 100.0     |
| 0°-180°   | 6776.8 | 100.0     |

**Coefficient of Utilization**



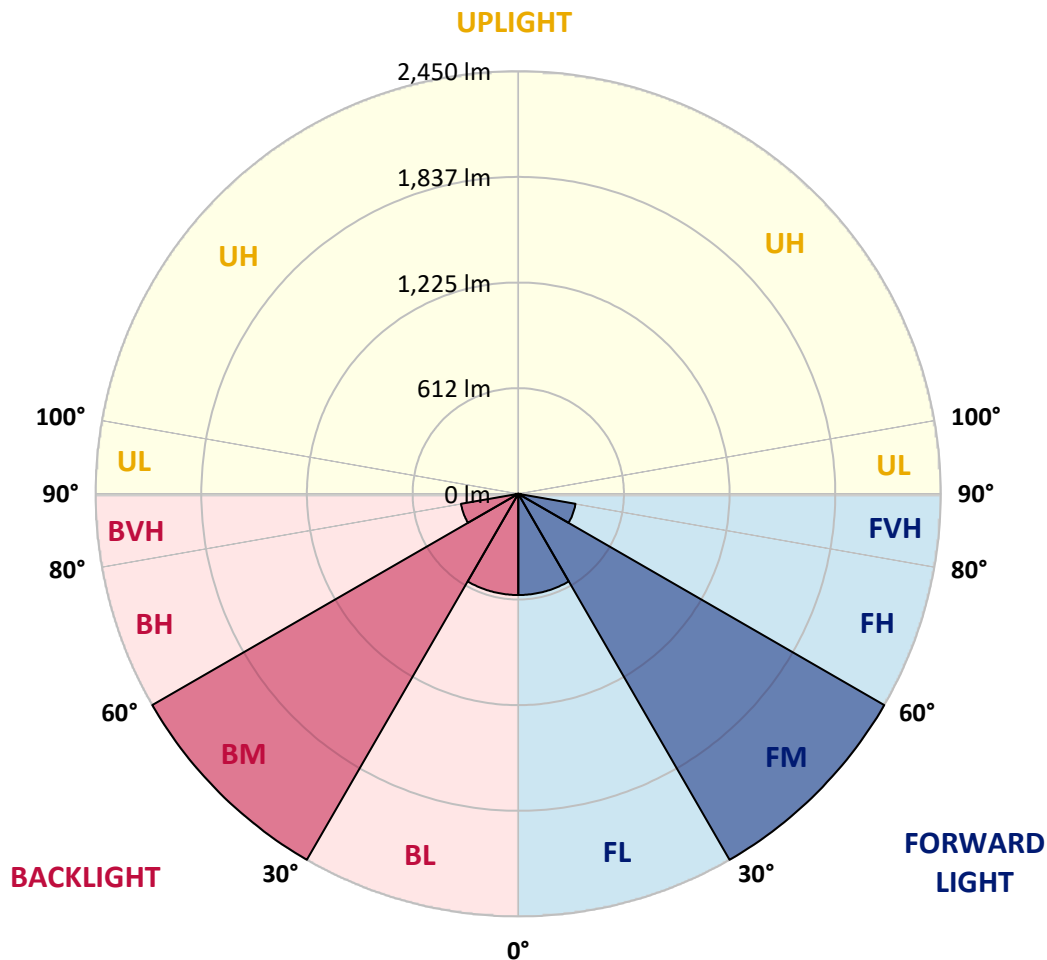
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 586.6  | 8.7       |                         |      |        |
| FM (30°-60°)   | 2449.6 | 36.1      |                         |      |        |
| FH (60°-80°)   | 336.7  | 5.0       |                         |      | G0/660 |
| FVH (80°-90°)  | 15.5   | 0.2       |                         |      | G1/100 |
| BL (0°-30°)    | 586.6  | 8.7       | B2/1000                 |      |        |
| BM (30°-60°)   | 2449.6 | 36.1      | B2/2500                 |      |        |
| BH (60°-80°)   | 336.7  | 5.0       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 15.5   | 0.2       |                         |      | G1/100 |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1132.8 | 1132.8 | 1132.8 | 1132.8 | 1132.8 | 1132.8 | 1132.8 | 1132.8 | 1132.8 | 1132.8 | 1132.8 |
| 2.5°  | 1135.4 | 1123.6 | 1127.8 | 1130.3 | 1141.2 | 1140.4 | 1137.9 | 1141.2 | 1144.6 | 1145.4 | 1143.8 |
| 5°    | 1134.5 | 1126.1 | 1129.5 | 1132.0 | 1142.9 | 1148.8 | 1147.1 | 1161.4 | 1171.5 | 1169.0 | 1181.6 |
| 7.5°  | 1127.8 | 1132.8 | 1128.6 | 1141.2 | 1150.5 | 1164.8 | 1179.9 | 1193.4 | 1206.0 | 1220.3 | 1222.8 |
| 10°   | 1142.9 | 1142.9 | 1150.5 | 1160.6 | 1185.0 | 1195.9 | 1217.8 | 1237.1 | 1261.5 | 1278.3 | 1271.6 |
| 12.5° | 1158.9 | 1161.4 | 1161.4 | 1187.5 | 1207.7 | 1232.1 | 1252.2 | 1278.3 | 1312.8 | 1333.0 | 1343.1 |
| 15°   | 1174.9 | 1176.6 | 1185.0 | 1220.3 | 1250.6 | 1289.3 | 1307.8 | 1331.3 | 1350.6 | 1388.5 | 1389.3 |
| 17.5° | 1189.2 | 1198.4 | 1223.7 | 1263.2 | 1301.0 | 1338.0 | 1367.5 | 1391.9 | 1408.7 | 1423.8 | 1420.4 |
| 20°   | 1243.0 | 1249.7 | 1275.8 | 1315.3 | 1371.7 | 1407.8 | 1417.9 | 1422.1 | 1433.1 | 1463.3 | 1454.1 |
| 22.5° | 1295.1 | 1297.7 | 1322.1 | 1382.6 | 1422.1 | 1470.1 | 1481.0 | 1478.5 | 1482.7 | 1490.3 | 1503.7 |
| 25°   | 1349.0 | 1353.2 | 1386.8 | 1438.1 | 1493.6 | 1550.8 | 1560.1 | 1540.7 | 1534.8 | 1543.2 | 1544.1 |
| 27.5° | 1417.9 | 1418.8 | 1461.7 | 1506.2 | 1569.3 | 1623.1 | 1637.4 | 1622.3 | 1594.5 | 1601.3 | 1612.2 |
| 30°   | 1505.4 | 1499.5 | 1542.4 | 1606.3 | 1672.7 | 1703.0 | 1727.4 | 1719.8 | 1689.6 | 1683.7 | 1674.4 |
| 32.5° | 1606.3 | 1608.0 | 1646.7 | 1716.5 | 1760.2 | 1810.7 | 1836.7 | 1824.1 | 1804.8 | 1794.7 | 1800.6 |
| 35°   | 1748.4 | 1756.0 | 1782.1 | 1840.1 | 1910.8 | 1936.0 | 1977.2 | 1950.3 | 1899.8 | 1912.4 | 1923.4 |
| 37.5° | 1865.3 | 1887.2 | 1936.0 | 2004.9 | 2047.0 | 2093.2 | 2108.4 | 2072.2 | 2035.2 | 2020.1 | 2056.2 |
| 40°   | 2044.5 | 2037.7 | 2091.6 | 2160.5 | 2222.8 | 2269.0 | 2249.7 | 2213.5 | 2121.8 | 2122.7 | 2132.8 |
| 42.5° | 2198.4 | 2201.7 | 2242.9 | 2325.4 | 2410.3 | 2438.9 | 2377.5 | 2289.2 | 2187.4 | 2176.5 | 2198.4 |
| 45°   | 2327.9 | 2341.3 | 2364.9 | 2475.1 | 2558.3 | 2589.4 | 2475.9 | 2371.6 | 2235.4 | 2190.0 | 2226.1 |
| 47.5° | 2374.1 | 2396.0 | 2447.3 | 2548.2 | 2630.6 | 2655.9 | 2565.0 | 2415.4 | 2280.0 | 2205.9 | 2225.3 |
| 50°   | 2380.9 | 2373.3 | 2457.4 | 2549.9 | 2622.2 | 2676.9 | 2597.0 | 2447.3 | 2269.0 | 2230.3 | 2224.4 |
| 52.5° | 2196.7 | 2233.7 | 2323.7 | 2450.7 | 2597.0 | 2684.5 | 2625.6 | 2465.0 | 2284.2 | 2240.4 | 2226.1 |
| 55°   | 1777.9 | 1734.1 | 1898.1 | 2111.8 | 2380.9 | 2623.9 | 2615.5 | 2474.2 | 2293.4 | 2257.2 | 2237.9 |
| 57.5° | 992.4  | 1005.0 | 1097.5 | 1329.6 | 1677.0 | 2080.6 | 2325.4 | 2376.7 | 2289.2 | 2268.2 | 2278.3 |
| 60°   | 459.2  | 463.4  | 502.9  | 611.4  | 826.7  | 1179.9 | 1502.0 | 1829.2 | 1979.7 | 2010.0 | 2010.0 |
| 62.5° | 342.3  | 340.6  | 350.7  | 370.0  | 415.5  | 542.4  | 724.1  | 984.0  | 1190.9 | 1335.5 | 1373.4 |
| 65°   | 309.5  | 308.6  | 313.7  | 320.4  | 323.8  | 341.4  | 381.8  | 461.7  | 529.0  | 567.7  | 560.9  |
| 67.5° | 270.8  | 270.0  | 271.6  | 275.8  | 281.7  | 291.0  | 301.1  | 317.9  | 341.4  | 339.8  | 335.6  |
| 70°   | 218.7  | 218.7  | 221.2  | 224.5  | 231.3  | 242.2  | 254.0  | 265.8  | 285.9  | 290.1  | 289.3  |
| 72.5° | 161.5  | 158.9  | 164.0  | 170.7  | 177.5  | 190.9  | 203.5  | 214.5  | 228.8  | 233.0  | 231.3  |
| 75°   | 102.6  | 104.3  | 107.6  | 115.2  | 127.0  | 136.2  | 149.7  | 158.9  | 168.2  | 171.6  | 172.4  |
| 77.5° | 57.2   | 58.9   | 64.8   | 74.0   | 85.8   | 95.9   | 107.6  | 115.2  | 121.1  | 121.9  | 122.8  |
| 80°   | 34.5   | 35.3   | 41.2   | 49.6   | 59.7   | 70.6   | 79.9   | 87.5   | 92.5   | 90.0   | 89.1   |
| 82.5° | 21.0   | 21.9   | 26.9   | 34.5   | 42.9   | 51.3   | 61.4   | 68.1   | 73.2   | 69.8   | 66.4   |
| 85°   | 10.9   | 11.8   | 16.0   | 21.0   | 27.8   | 32.0   | 32.0   | 28.6   | 27.8   | 26.1   | 25.2   |
| 87.5° | 3.4    | 3.4    | 4.2    | 5.0    | 4.2    | 5.0    | 5.9    | 6.7    | 6.7    | 7.6    | 6.7    |
| 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)