

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: P451119

Luminaire Tested: **GLAN-SA2A-727-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451119  
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: STREETWORKS  
Catalog Number: GLAN-SA2A-727-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8027 lumens  
Efficiency: N/A  
Efficacy: 127.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

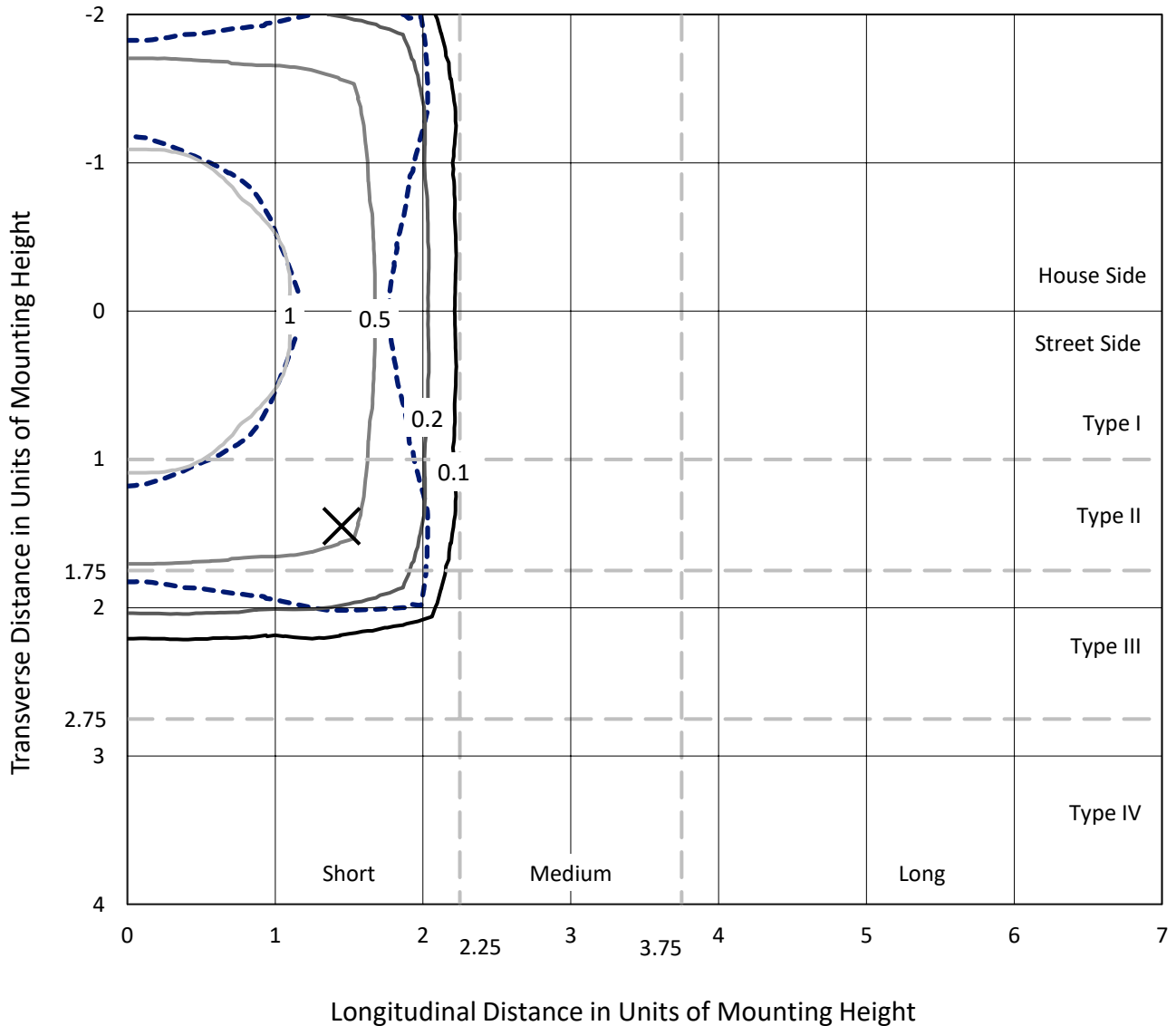
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

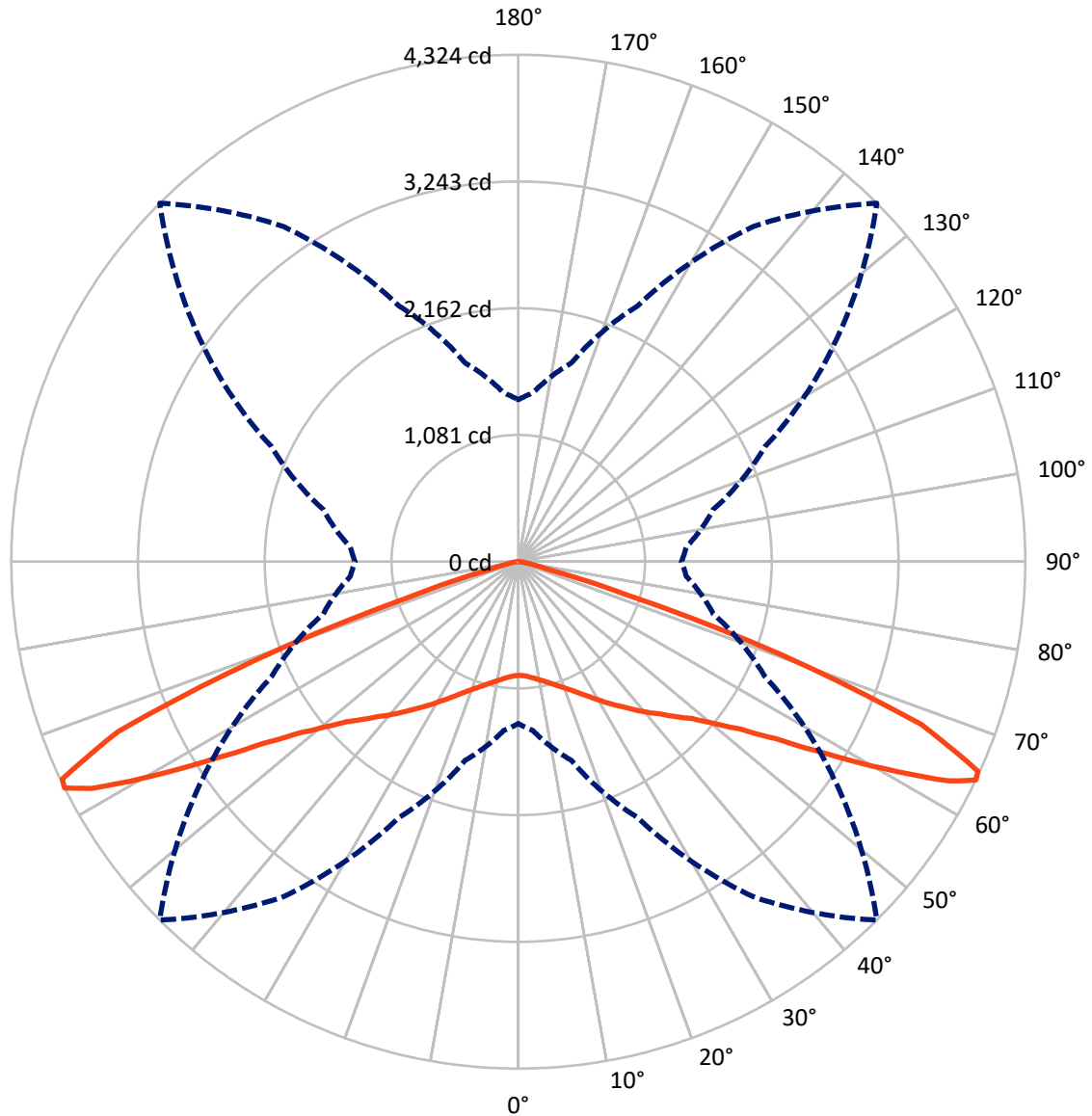
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4013.5   | 0.0    | 4013.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4013.5   | 0.0    | 4013.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 8027.0   | 0.0    | 8027.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 95.3   | 1.2       |
| 10°-20°   | 307.5  | 3.8       |
| 20°-30°   | 581.0  | 7.2       |
| 30°-40°   | 962.2  | 12.0      |
| 40°-50°   | 1502.1 | 18.7      |
| 50°-60°   | 2322.3 | 28.9      |
| 60°-70°   | 2002.5 | 24.9      |
| 70°-80°   | 226.9  | 2.8       |
| 80°-90°   | 27.2   | 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°    | 8027.0 | 100.0     |
| 0°-180°   | 8027.0 | 100.0     |

**Coefficient of Utilization**



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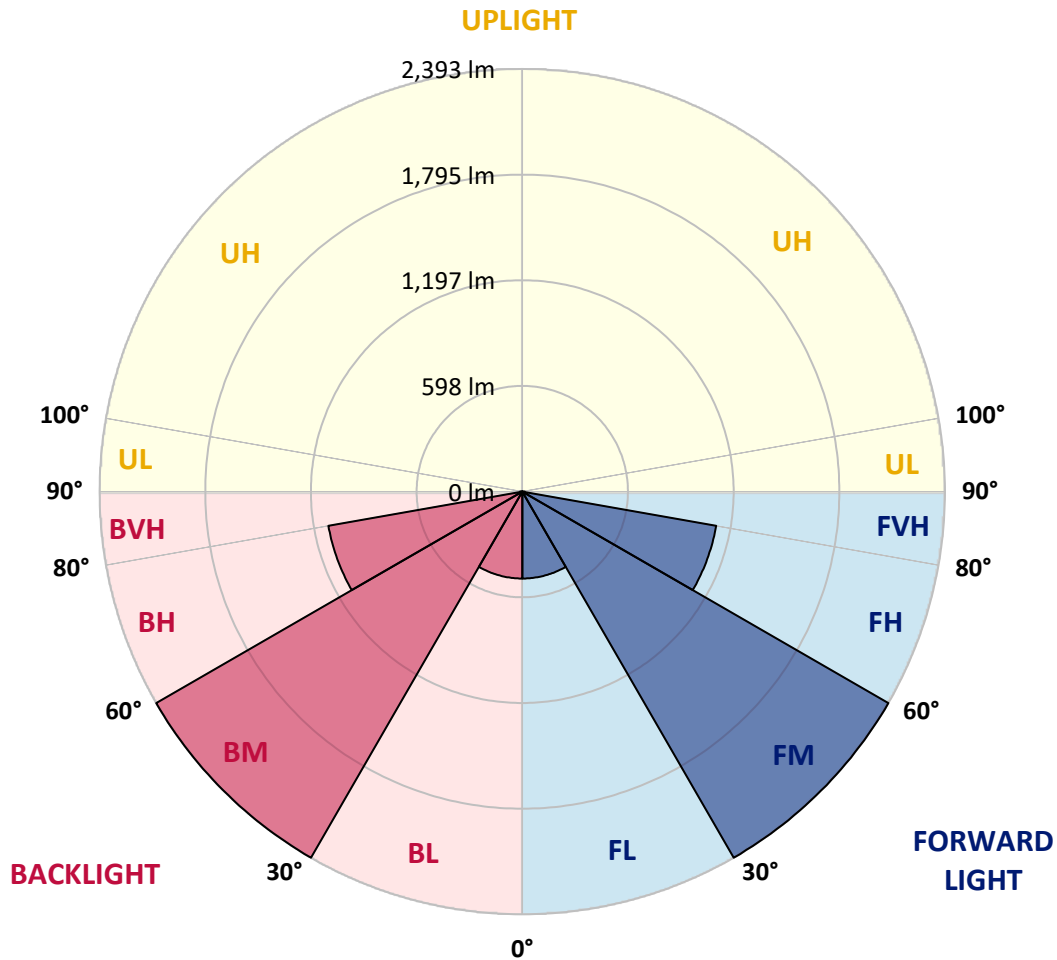
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 491.9  | 6.1       |                         |      |         |
| FM (30°-60°)   | 2393.3 | 29.8      |                         |      |         |
| FH (60°-80°)   | 1114.7 | 13.9      |                         |      | G1/1800 |
| FVH (80°-90°)  | 13.6   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 491.9  | 6.1       | B1/500                  |      |         |
| BM (30°-60°)   | 2393.3 | 29.8      | B2/2500                 |      |         |
| BH (60°-80°)   | 1114.7 | 13.9      | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 13.6   | 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-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 970.2  | 970.2  | 970.2  | 970.2  | 970.2  | 970.2  | 970.2  | 970.2  | 970.2  | 970.2  | 970.2  |
| 2.5°  | 974.0  | 976.2  | 974.4  | 974.0  | 973.6  | 973.6  | 973.6  | 974.0  | 975.7  | 977.0  | 976.2  |
| 5°    | 986.4  | 988.1  | 987.2  | 986.8  | 986.4  | 986.8  | 985.9  | 985.5  | 986.8  | 986.8  | 986.4  |
| 7.5°  | 1001.7 | 1003.8 | 1002.9 | 1003.8 | 1004.2 | 1004.6 | 1002.5 | 1000.8 | 1000.4 | 1001.7 | 1000.8 |
| 10°   | 1022.5 | 1024.2 | 1024.6 | 1025.0 | 1025.9 | 1025.5 | 1022.9 | 1019.9 | 1019.5 | 1019.1 | 1018.7 |
| 12.5° | 1045.9 | 1047.2 | 1047.6 | 1049.3 | 1050.6 | 1051.0 | 1048.0 | 1045.4 | 1041.2 | 1042.0 | 1040.3 |
| 15°   | 1072.2 | 1074.8 | 1074.4 | 1076.9 | 1080.3 | 1081.2 | 1078.2 | 1073.9 | 1070.1 | 1068.0 | 1066.7 |
| 17.5° | 1104.5 | 1106.2 | 1105.4 | 1107.9 | 1112.2 | 1114.3 | 1111.8 | 1106.2 | 1102.4 | 1097.7 | 1095.2 |
| 20°   | 1142.8 | 1145.8 | 1146.6 | 1146.6 | 1150.5 | 1152.6 | 1148.8 | 1147.1 | 1141.1 | 1137.7 | 1135.6 |
| 22.5° | 1186.2 | 1187.5 | 1190.0 | 1192.6 | 1196.4 | 1195.5 | 1194.3 | 1191.7 | 1186.2 | 1183.2 | 1179.8 |
| 25°   | 1235.1 | 1236.3 | 1242.7 | 1248.2 | 1249.5 | 1248.7 | 1247.0 | 1245.7 | 1240.6 | 1233.8 | 1231.2 |
| 27.5° | 1292.0 | 1294.6 | 1303.1 | 1308.2 | 1308.2 | 1308.6 | 1305.2 | 1309.5 | 1298.4 | 1290.3 | 1289.5 |
| 30°   | 1363.5 | 1365.2 | 1372.4 | 1377.5 | 1374.9 | 1372.8 | 1372.0 | 1376.2 | 1364.3 | 1349.9 | 1346.5 |
| 32.5° | 1434.0 | 1440.0 | 1446.4 | 1457.4 | 1448.5 | 1444.7 | 1443.8 | 1446.8 | 1433.2 | 1417.0 | 1412.4 |
| 35°   | 1509.7 | 1514.0 | 1525.9 | 1535.2 | 1527.1 | 1518.2 | 1522.0 | 1531.4 | 1515.2 | 1493.6 | 1492.7 |
| 37.5° | 1593.5 | 1597.3 | 1612.6 | 1622.4 | 1616.4 | 1601.1 | 1607.5 | 1618.6 | 1602.4 | 1575.6 | 1570.1 |
| 40°   | 1680.6 | 1688.7 | 1707.8 | 1718.0 | 1708.3 | 1687.9 | 1699.8 | 1711.7 | 1697.2 | 1666.2 | 1653.8 |
| 42.5° | 1778.4 | 1791.2 | 1818.8 | 1823.9 | 1805.2 | 1777.6 | 1798.4 | 1817.5 | 1807.3 | 1771.6 | 1766.9 |
| 45°   | 1892.8 | 1900.4 | 1934.4 | 1945.5 | 1919.6 | 1885.1 | 1911.1 | 1945.9 | 1938.3 | 1897.0 | 1888.1 |
| 47.5° | 2020.7 | 2028.0 | 2063.3 | 2079.8 | 2047.1 | 2000.8 | 2047.5 | 2093.0 | 2088.3 | 2044.1 | 2039.9 |
| 50°   | 2172.1 | 2173.8 | 2222.7 | 2241.4 | 2208.7 | 2168.7 | 2210.4 | 2266.9 | 2248.2 | 2191.7 | 2190.8 |
| 52.5° | 2337.9 | 2340.0 | 2401.7 | 2437.8 | 2419.5 | 2374.5 | 2423.8 | 2458.2 | 2410.6 | 2336.6 | 2331.1 |
| 55°   | 2481.6 | 2492.2 | 2576.4 | 2672.5 | 2697.6 | 2664.9 | 2679.7 | 2663.6 | 2546.2 | 2442.5 | 2426.3 |
| 57.5° | 2540.3 | 2561.1 | 2689.1 | 2868.5 | 3031.8 | 3080.2 | 2965.4 | 2811.5 | 2600.2 | 2453.6 | 2437.8 |
| 60°   | 2397.0 | 2419.5 | 2618.1 | 2958.6 | 3375.3 | 3585.7 | 3263.0 | 2836.6 | 2477.4 | 2271.2 | 2246.5 |
| 62.5° | 1919.6 | 1925.9 | 2218.0 | 2746.5 | 3575.5 | 4120.6 | 3388.5 | 2622.8 | 2119.8 | 1839.6 | 1829.9 |
| 64°   | 1381.3 | 1446.8 | 1756.3 | 2408.1 | 3488.0 | 4324.2 | 3316.2 | 2323.0 | 1721.9 | 1438.3 | 1392.4 |
| 65°   | 1033.1 | 1051.0 | 1415.8 | 2056.5 | 3333.6 | 4308.9 | 3175.9 | 2036.5 | 1426.0 | 1100.7 | 1049.7 |
| 67.5° | 390.3  | 392.4  | 522.5  | 1025.0 | 2373.2 | 3707.3 | 2423.8 | 1107.9 | 600.7  | 434.5  | 418.8  |
| 70°   | 162.0  | 165.0  | 191.7  | 344.8  | 1019.9 | 2380.4 | 1168.7 | 399.6  | 219.8  | 178.1  | 175.6  |
| 72.5° | 118.6  | 120.3  | 128.4  | 153.1  | 313.8  | 977.4  | 384.3  | 169.6  | 128.8  | 115.2  | 113.9  |
| 75°   | 93.1   | 94.0   | 99.9   | 112.7  | 146.3  | 270.8  | 159.9  | 116.5  | 98.2   | 88.4   | 87.6   |
| 77.5° | 71.0   | 73.1   | 77.4   | 85.9   | 98.2   | 128.4  | 105.9  | 87.2   | 75.7   | 67.6   | 66.3   |
| 80°   | 48.9   | 51.4   | 59.5   | 62.9   | 65.9   | 83.3   | 72.3   | 65.9   | 59.1   | 49.3   | 46.3   |
| 82.5° | 30.2   | 31.9   | 40.0   | 42.9   | 41.7   | 46.8   | 46.3   | 47.2   | 42.1   | 30.6   | 28.5   |
| 85°   | 15.7   | 16.6   | 21.7   | 22.5   | 20.8   | 19.1   | 23.8   | 27.6   | 25.9   | 17.4   | 17.0   |
| 87.5° | 3.4    | 3.8    | 4.7    | 4.3    | 4.7    | 4.7    | 6.0    | 8.9    | 9.4    | 6.0    | 5.5    |
| 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)