

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: P451355

Luminaire Tested: **GLAN-SA2B-727-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451355  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA2B-727-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9873 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 82  
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

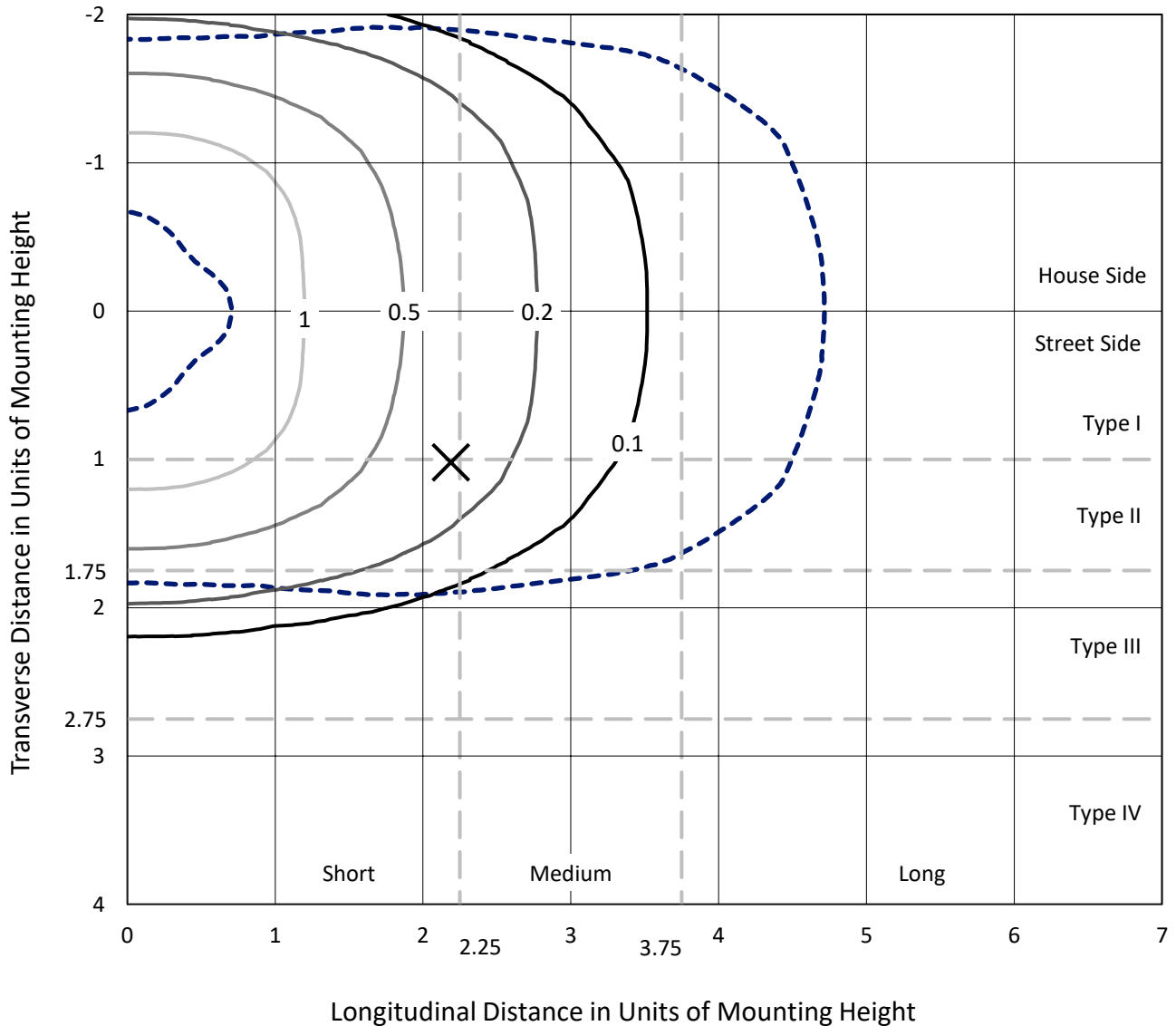




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### Iso-Footcandle Lines of Horizontal Illumination

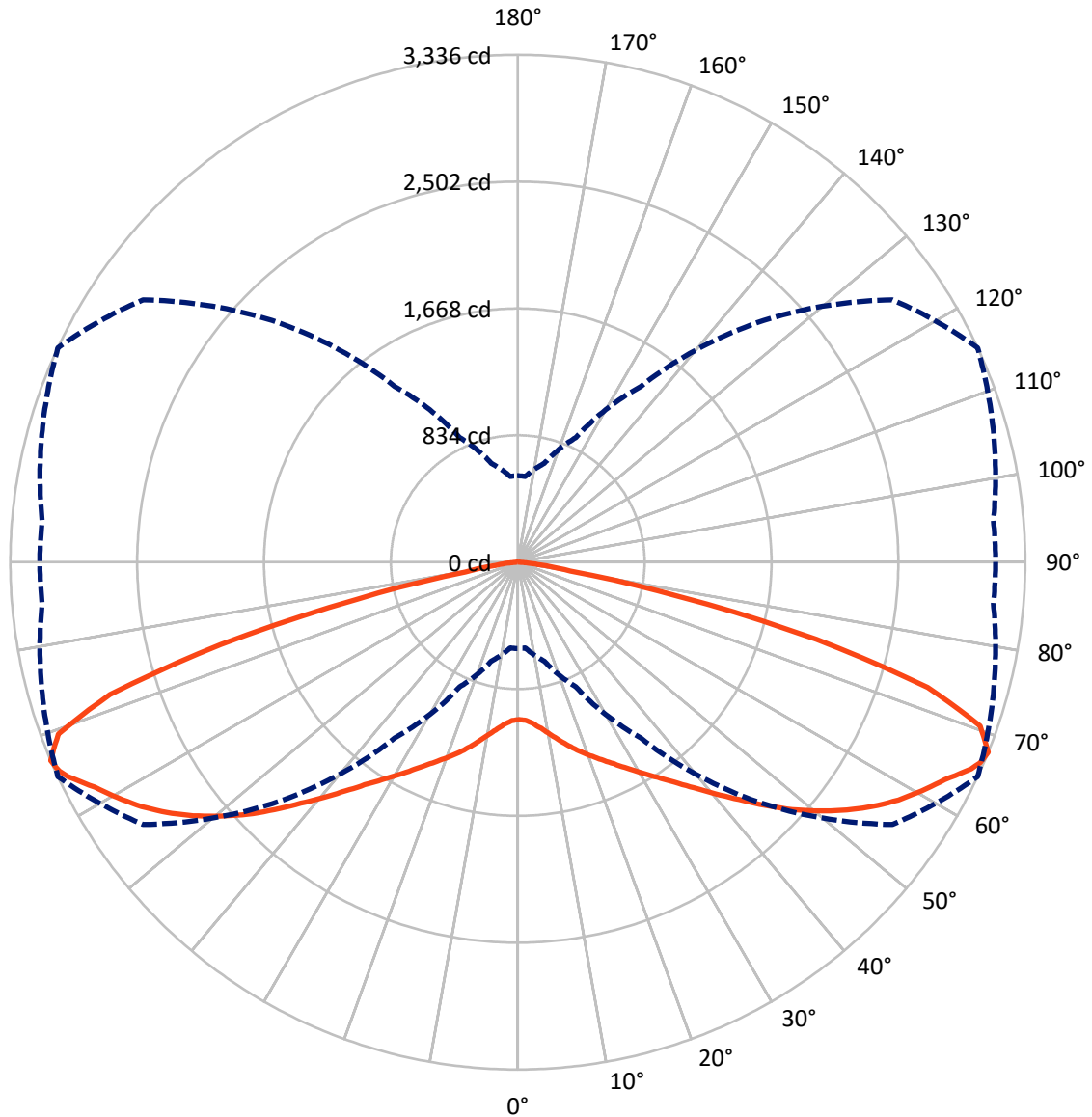
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4936.5   | 0.0    | 4936.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4936.5   | 0.0    | 4936.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 9873.0   | 0.0    | 9873.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 102.0  | 1.0       |
| 10°-20°   | 341.4  | 3.5       |
| 20°-30°   | 667.7  | 6.8       |
| 30°-40°   | 1135.7 | 11.5      |
| 40°-50°   | 1797.5 | 18.2      |
| 50°-60°   | 2383.4 | 24.1      |
| 60°-70°   | 2248.3 | 22.8      |
| 70°-80°   | 1111.4 | 11.3      |
| 80°-90°   | 85.6   | 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°    | 9873.0 | 100.0     |
| 0°-180°   | 9873.0 | 100.0     |

**Coefficient of Utilization**



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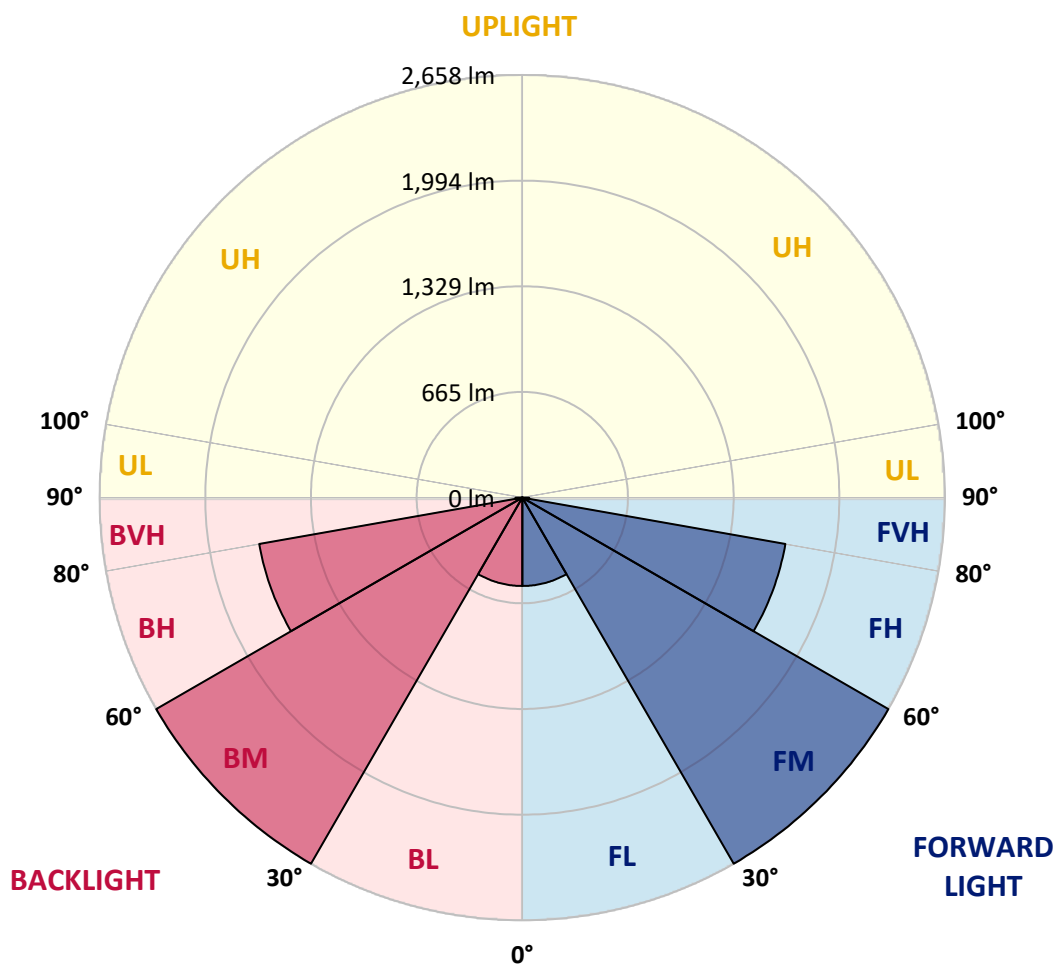
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 555.5  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 2658.3 | 26.9      |                         |      |         |
| FH   | (60°-80°)   | 1679.9 | 17.0      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 42.8   | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 555.5  | 5.6       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2658.3 | 26.9      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1679.9 | 17.0      | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 42.8   | 0.4       |                         |      | 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 III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1034.1 | 1034.1 | 1034.1 | 1034.1 | 1034.1 | 1034.1 | 1034.1 | 1034.1 | 1034.1 | 1034.1 | 1034.1 |
| 2.5°  | 1028.8 | 1029.9 | 1030.9 | 1032.5 | 1034.6 | 1037.8 | 1039.9 | 1041.5 | 1045.7 | 1046.3 | 1045.7 |
| 5°    | 1025.1 | 1026.2 | 1028.8 | 1033.6 | 1040.5 | 1050.0 | 1057.4 | 1066.4 | 1073.3 | 1078.0 | 1077.0 |
| 7.5°  | 1024.6 | 1026.7 | 1030.9 | 1041.0 | 1054.2 | 1070.6 | 1087.5 | 1102.9 | 1116.1 | 1126.7 | 1125.1 |
| 10°   | 1033.1 | 1035.7 | 1042.6 | 1057.4 | 1078.0 | 1101.8 | 1125.6 | 1148.4 | 1167.4 | 1181.2 | 1185.9 |
| 12.5° | 1047.3 | 1049.4 | 1062.1 | 1084.4 | 1114.0 | 1143.6 | 1170.6 | 1198.6 | 1225.1 | 1248.3 | 1248.3 |
| 15°   | 1072.2 | 1075.9 | 1091.8 | 1124.0 | 1160.5 | 1194.9 | 1222.4 | 1252.0 | 1280.6 | 1307.1 | 1315.0 |
| 17.5° | 1106.6 | 1111.9 | 1135.7 | 1176.9 | 1223.5 | 1255.2 | 1281.1 | 1305.5 | 1330.3 | 1355.7 | 1359.4 |
| 20°   | 1153.7 | 1158.9 | 1190.7 | 1240.4 | 1295.4 | 1333.5 | 1351.0 | 1356.8 | 1368.9 | 1393.3 | 1396.4 |
| 22.5° | 1217.7 | 1222.9 | 1258.4 | 1314.5 | 1375.8 | 1417.1 | 1424.5 | 1410.7 | 1407.6 | 1426.6 | 1428.7 |
| 25°   | 1290.1 | 1294.9 | 1335.6 | 1395.9 | 1459.4 | 1504.4 | 1502.2 | 1468.4 | 1449.3 | 1461.0 | 1464.2 |
| 27.5° | 1371.6 | 1378.5 | 1419.7 | 1482.1 | 1550.9 | 1590.6 | 1584.2 | 1535.0 | 1494.3 | 1492.2 | 1493.2 |
| 30°   | 1475.8 | 1483.2 | 1522.3 | 1582.1 | 1649.8 | 1686.3 | 1673.1 | 1607.0 | 1544.0 | 1522.9 | 1522.9 |
| 32.5° | 1585.8 | 1604.3 | 1644.0 | 1706.4 | 1759.3 | 1785.8 | 1765.7 | 1686.3 | 1602.7 | 1573.1 | 1571.5 |
| 35°   | 1729.2 | 1739.2 | 1778.4 | 1839.2 | 1878.9 | 1899.5 | 1860.9 | 1775.7 | 1679.4 | 1644.5 | 1639.8 |
| 37.5° | 1869.3 | 1877.8 | 1923.3 | 1981.5 | 2029.6 | 2028.5 | 1976.2 | 1882.0 | 1774.6 | 1735.5 | 1732.3 |
| 40°   | 2012.7 | 2021.7 | 2073.5 | 2126.9 | 2175.1 | 2170.8 | 2107.4 | 2002.1 | 1887.8 | 1843.9 | 1852.4 |
| 42.5° | 2137.0 | 2147.0 | 2205.7 | 2281.9 | 2325.3 | 2324.2 | 2250.7 | 2132.2 | 2013.2 | 1974.1 | 1981.5 |
| 45°   | 2250.2 | 2259.2 | 2327.4 | 2414.7 | 2478.2 | 2486.1 | 2405.7 | 2280.3 | 2158.1 | 2107.9 | 2110.0 |
| 47.5° | 2330.1 | 2347.0 | 2418.4 | 2518.4 | 2604.6 | 2632.6 | 2553.8 | 2431.1 | 2290.4 | 2238.0 | 2241.2 |
| 50°   | 2390.9 | 2401.5 | 2479.2 | 2592.9 | 2701.9 | 2760.1 | 2696.6 | 2570.7 | 2422.6 | 2367.1 | 2374.5 |
| 52.5° | 2398.3 | 2411.0 | 2495.6 | 2626.8 | 2766.4 | 2854.8 | 2823.6 | 2707.2 | 2557.5 | 2500.4 | 2516.2 |
| 55°   | 2338.0 | 2345.4 | 2446.4 | 2605.6 | 2791.8 | 2925.1 | 2933.1 | 2834.1 | 2686.0 | 2642.7 | 2653.2 |
| 57.5° | 2166.1 | 2185.1 | 2313.1 | 2506.7 | 2756.9 | 2962.7 | 3015.1 | 2949.5 | 2816.2 | 2773.3 | 2790.2 |
| 60°   | 1884.1 | 1903.2 | 2031.7 | 2277.2 | 2625.2 | 2945.2 | 3082.8 | 3051.5 | 2934.1 | 2899.7 | 2908.7 |
| 62.5° | 1476.3 | 1474.7 | 1633.9 | 1934.9 | 2363.4 | 2859.5 | 3133.0 | 3149.9 | 3050.5 | 3007.1 | 3020.9 |
| 65°   | 956.9  | 961.6  | 1115.6 | 1439.8 | 1968.2 | 2641.6 | 3144.1 | 3275.3 | 3164.7 | 3099.2 | 3109.2 |
| 66°   | 769.6  | 783.9  | 914.6  | 1213.4 | 1766.7 | 2498.8 | 3110.8 | 3312.3 | 3199.7 | 3120.3 | 3125.1 |
| 67.5° | 568.1  | 565.5  | 672.8  | 903.5  | 1410.7 | 2227.4 | 3006.6 | 3335.6 | 3239.3 | 3139.4 | 3141.5 |
| 70°   | 324.3  | 323.7  | 361.8  | 496.2  | 829.4  | 1568.4 | 2534.2 | 3224.0 | 3319.7 | 3208.1 | 3202.3 |
| 72.5° | 237.0  | 235.4  | 240.7  | 274.0  | 404.7  | 791.8  | 1748.2 | 2817.8 | 3278.5 | 3197.0 | 3180.6 |
| 75°   | 198.9  | 197.8  | 196.8  | 201.0  | 226.9  | 358.6  | 927.8  | 2027.0 | 2844.7 | 3000.8 | 2983.8 |
| 77.5° | 162.4  | 162.4  | 162.9  | 161.9  | 162.9  | 188.8  | 384.6  | 1086.5 | 1732.3 | 1933.9 | 1980.9 |
| 80°   | 126.9  | 126.4  | 135.4  | 131.7  | 123.2  | 121.1  | 170.3  | 349.6  | 575.0  | 571.8  | 471.8  |
| 82.5° | 93.6   | 87.3   | 103.1  | 100.5  | 91.0   | 77.2   | 99.4   | 149.2  | 192.0  | 124.8  | 92.6   |
| 85°   | 59.2   | 58.7   | 73.0   | 66.6   | 55.5   | 36.5   | 47.6   | 64.0   | 79.3   | 48.1   | 39.1   |
| 87.5° | 10.6   | 10.1   | 23.3   | 16.9   | 16.9   | 10.6   | 13.2   | 17.5   | 25.9   | 18.0   | 13.2   |
| 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)