

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: P316626

Luminaire Tested: **GAN-SA2A-830-U-5MQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316626  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2A-830-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7958 lumens  
Efficiency: N/A  
Efficacy: 120.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

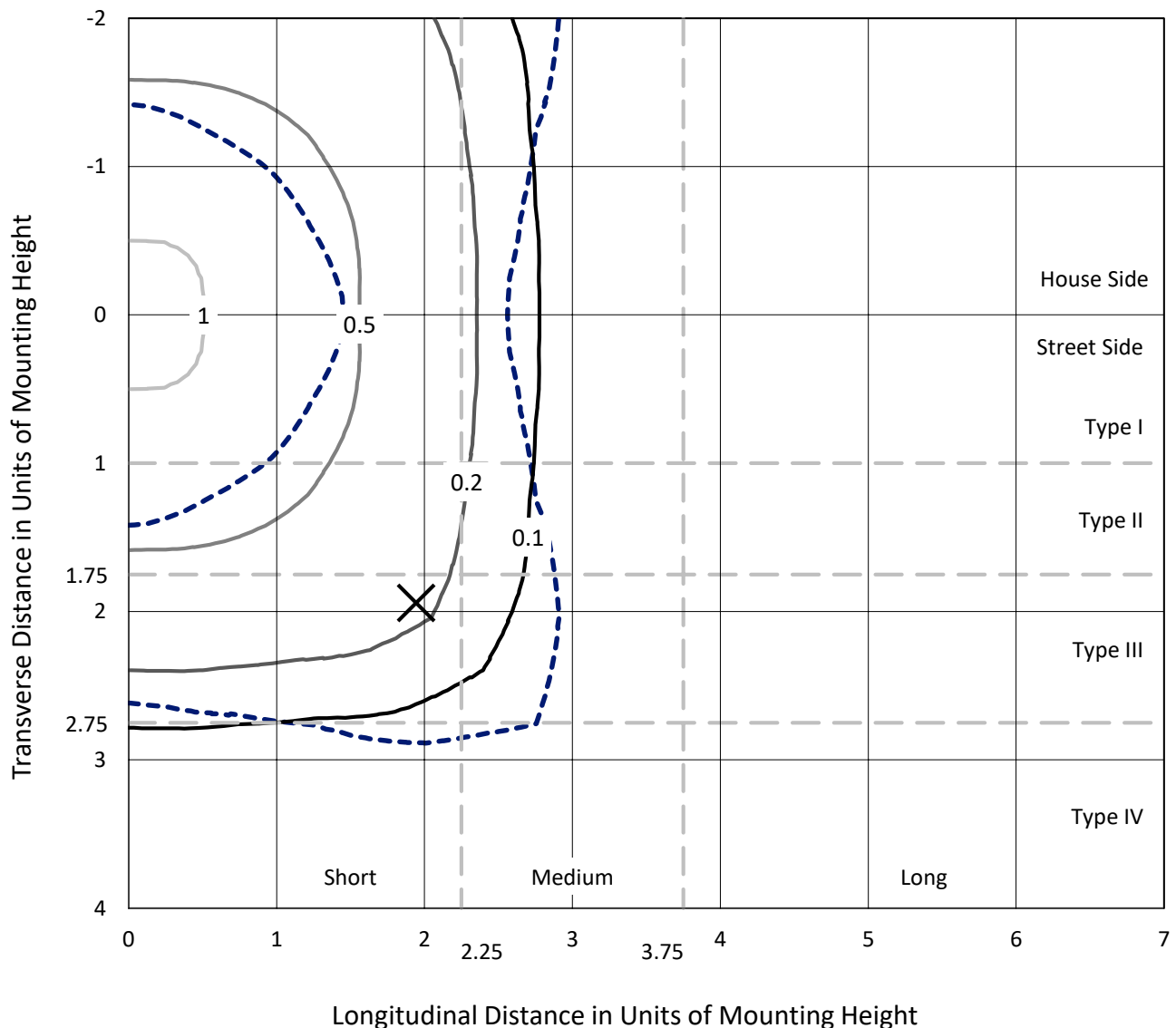
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

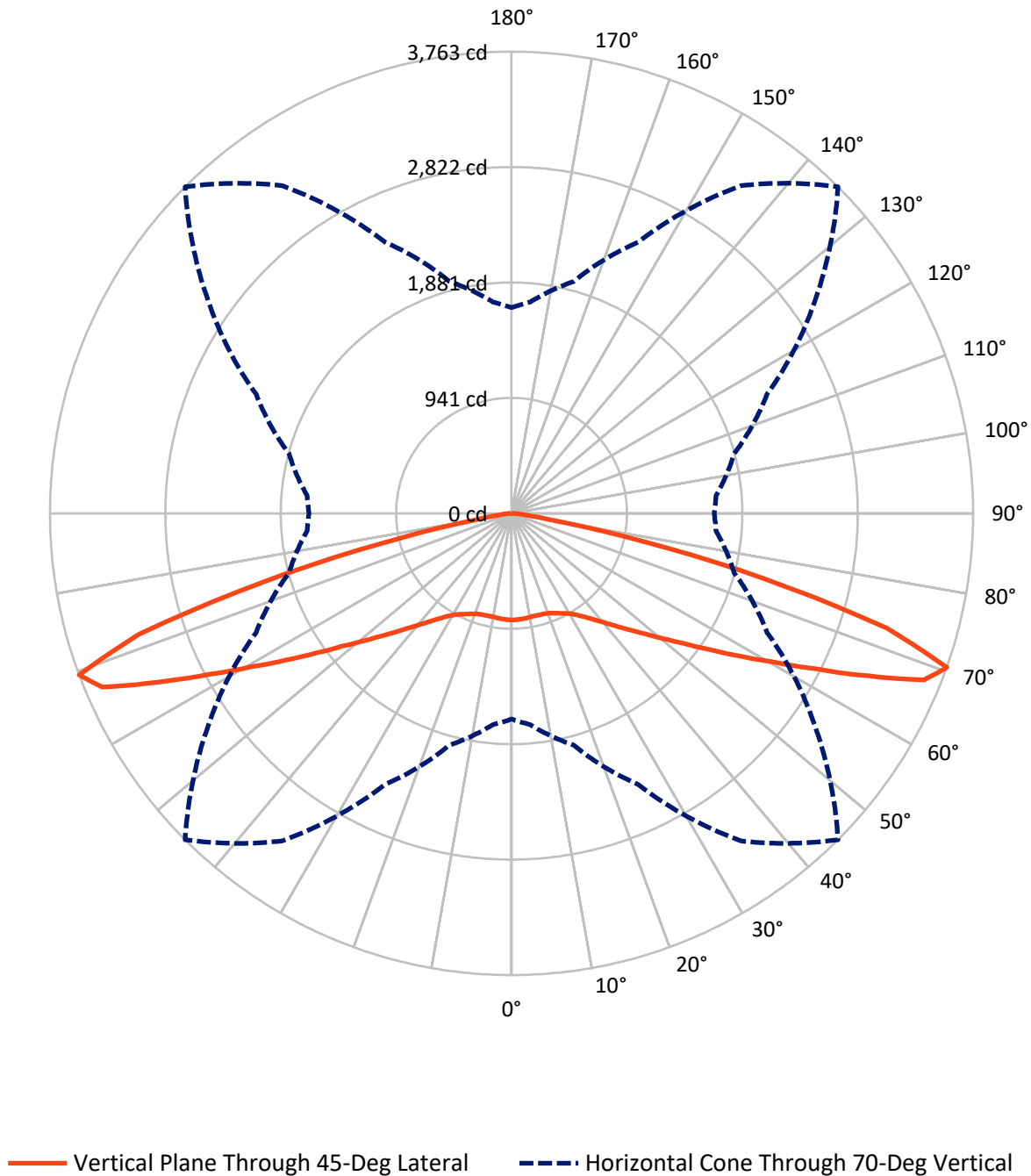
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3979.0   | 0.0    | 3979.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3979.0   | 0.0    | 3979.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 7958.0   | 0.0    | 7958.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 82.3   | 1.0       |
| 10°-20°   | 241.7  | 3.0       |
| 20°-30°   | 411.4  | 5.2       |
| 30°-40°   | 652.5  | 8.2       |
| 40°-50°   | 1061.7 | 13.3      |
| 50°-60°   | 1750.6 | 22.0      |
| 60°-70°   | 2569.9 | 32.3      |
| 70°-80°   | 1136.4 | 14.3      |
| 80°-90°   | 51.5   | 0.6       |
| 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°    | 7958.0 | 100.0     |
| 0°-180°   | 7958.0 | 100.0     |

**Coefficient of Utilization**



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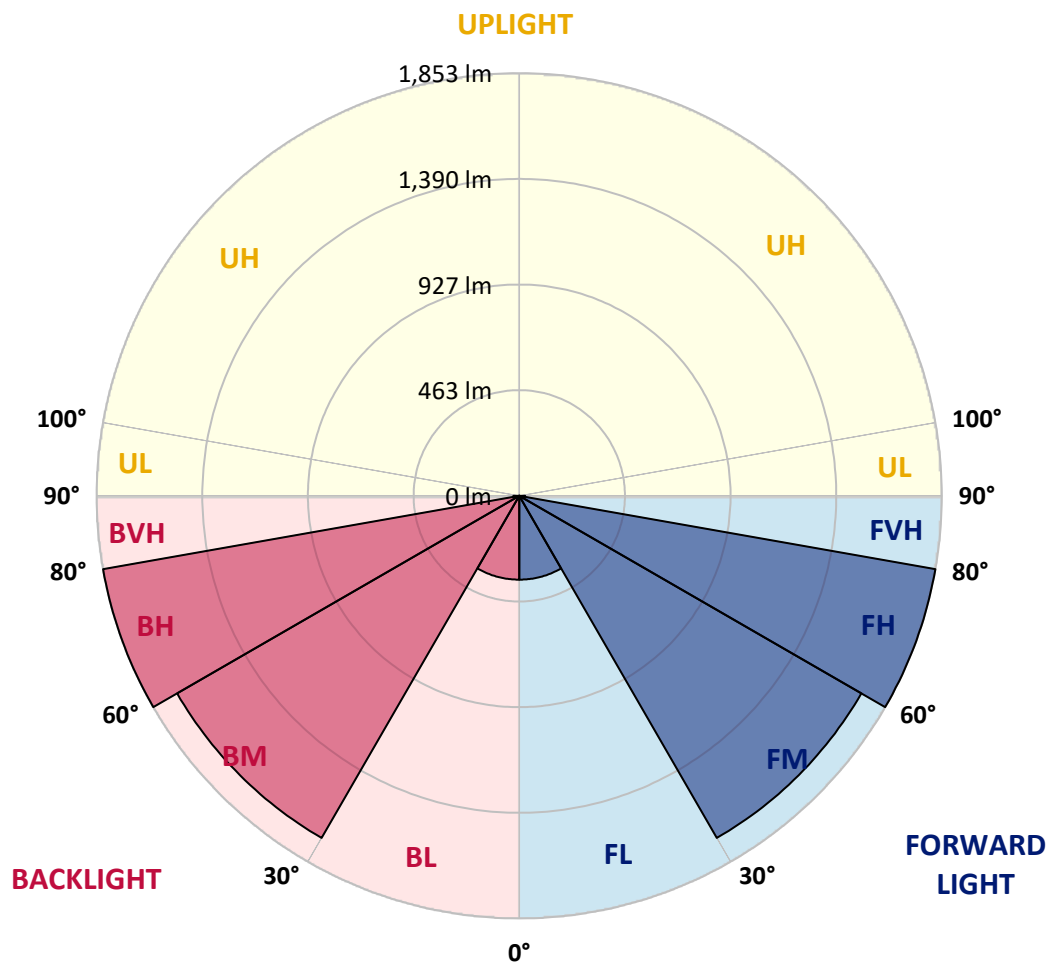
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 367.7  | 4.6       |                         |      |         |
| FM   | (30°-60°)   | 1732.4 | 21.8      |                         |      |         |
| FH   | (60°-80°)   | 1853.2 | 23.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 25.7   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 367.7  | 4.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1732.4 | 21.8      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1853.2 | 23.3      | B3/2500                 |      | G2/5000 |
| BVH  | (80°-90°)   | 25.7   | 0.3       |                         |      | 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





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 869.1  | 869.1  | 869.1  | 869.1  | 869.1  | 869.1  | 869.1  | 869.1  | 869.1  | 869.1  | 869.1  |
| 2.5°  | 867.8  | 867.0  | 868.9  | 868.6  | 867.0  | 867.3  | 867.3  | 868.1  | 868.1  | 867.6  | 867.6  |
| 5°    | 864.7  | 864.1  | 866.2  | 866.2  | 864.7  | 865.2  | 865.7  | 866.5  | 866.2  | 865.7  | 865.5  |
| 7.5°  | 860.7  | 860.4  | 862.6  | 862.6  | 861.5  | 862.0  | 861.5  | 861.8  | 861.2  | 860.7  | 859.9  |
| 10°   | 854.1  | 854.7  | 856.5  | 857.0  | 857.0  | 857.3  | 856.8  | 855.4  | 854.7  | 853.9  | 853.1  |
| 12.5° | 848.1  | 847.8  | 850.4  | 851.8  | 853.9  | 856.2  | 854.7  | 851.0  | 849.4  | 847.8  | 847.3  |
| 15°   | 844.1  | 844.4  | 847.0  | 849.4  | 853.1  | 858.1  | 856.2  | 850.4  | 847.3  | 845.4  | 844.9  |
| 17.5° | 843.3  | 843.9  | 847.3  | 851.5  | 855.4  | 861.0  | 859.9  | 854.1  | 848.9  | 845.4  | 844.6  |
| 20°   | 845.2  | 845.4  | 850.7  | 856.8  | 863.6  | 868.9  | 866.5  | 860.2  | 853.1  | 847.8  | 846.5  |
| 22.5° | 848.6  | 849.6  | 856.2  | 865.7  | 876.2  | 883.4  | 880.5  | 869.7  | 858.6  | 852.0  | 850.2  |
| 25°   | 859.4  | 859.7  | 868.6  | 881.5  | 894.2  | 902.3  | 898.9  | 883.6  | 869.4  | 862.0  | 859.7  |
| 27.5° | 881.8  | 882.6  | 891.5  | 906.5  | 917.3  | 922.6  | 920.5  | 908.1  | 896.0  | 888.1  | 888.9  |
| 30°   | 914.2  | 915.2  | 925.2  | 941.8  | 948.4  | 949.7  | 949.2  | 943.4  | 932.3  | 921.8  | 922.6  |
| 32.5° | 953.7  | 954.2  | 967.6  | 982.7  | 987.9  | 989.0  | 987.9  | 982.7  | 969.5  | 955.3  | 956.1  |
| 35°   | 1004.5 | 1006.1 | 1019.0 | 1033.5 | 1037.7 | 1039.8 | 1038.0 | 1031.1 | 1017.4 | 1003.5 | 1002.9 |
| 37.5° | 1067.2 | 1067.5 | 1080.9 | 1095.9 | 1101.2 | 1101.7 | 1099.6 | 1095.1 | 1078.0 | 1065.4 | 1064.6 |
| 40°   | 1139.9 | 1140.9 | 1156.7 | 1172.8 | 1174.9 | 1172.5 | 1175.4 | 1172.8 | 1155.2 | 1140.7 | 1143.0 |
| 42.5° | 1228.4 | 1230.8 | 1249.7 | 1265.5 | 1259.5 | 1258.1 | 1260.0 | 1260.8 | 1246.6 | 1228.9 | 1227.3 |
| 45°   | 1331.4 | 1333.5 | 1357.2 | 1369.8 | 1365.9 | 1357.2 | 1360.9 | 1367.2 | 1347.4 | 1325.6 | 1327.7 |
| 47.5° | 1448.8 | 1454.1 | 1479.4 | 1491.2 | 1481.5 | 1469.6 | 1476.7 | 1486.2 | 1463.0 | 1435.9 | 1434.6 |
| 50°   | 1579.5 | 1586.0 | 1619.8 | 1636.3 | 1626.6 | 1604.7 | 1616.6 | 1622.9 | 1589.5 | 1554.4 | 1551.5 |
| 52.5° | 1718.8 | 1725.4 | 1767.8 | 1802.0 | 1795.7 | 1761.7 | 1778.3 | 1771.7 | 1733.3 | 1686.1 | 1682.4 |
| 55°   | 1876.5 | 1879.2 | 1925.0 | 1980.3 | 1986.6 | 1961.6 | 1960.6 | 1949.8 | 1892.9 | 1838.4 | 1835.7 |
| 57.5° | 2038.8 | 2040.6 | 2099.9 | 2165.2 | 2195.0 | 2195.0 | 2165.5 | 2142.6 | 2067.0 | 2003.8 | 1997.2 |
| 60°   | 2213.9 | 2220.5 | 2286.1 | 2374.9 | 2444.4 | 2464.9 | 2412.8 | 2350.4 | 2268.2 | 2191.0 | 2183.4 |
| 62.5° | 2369.8 | 2377.5 | 2477.8 | 2610.0 | 2721.7 | 2796.5 | 2669.0 | 2567.4 | 2417.8 | 2294.0 | 2279.5 |
| 65°   | 2389.6 | 2410.1 | 2556.3 | 2795.7 | 3045.7 | 3195.0 | 2950.6 | 2700.1 | 2427.5 | 2255.5 | 2240.8 |
| 67.5° | 2182.3 | 2217.1 | 2414.6 | 2787.3 | 3303.8 | 3624.3 | 3130.5 | 2624.3 | 2252.6 | 2062.5 | 2046.2 |
| 70°   | 1676.9 | 1727.5 | 1955.3 | 2438.1 | 3259.3 | 3762.6 | 3017.8 | 2297.4 | 1878.1 | 1673.5 | 1650.6 |
| 72.5° | 920.0  | 940.8  | 1145.7 | 1669.5 | 2612.9 | 3197.4 | 2517.1 | 1698.8 | 1245.5 | 1013.5 | 975.0  |
| 75°   | 291.8  | 299.2  | 403.5  | 683.2  | 1478.1 | 2117.8 | 1598.9 | 833.8  | 459.1  | 338.4  | 334.5  |
| 77.5° | 129.6  | 130.4  | 145.9  | 199.4  | 509.1  | 1073.0 | 611.6  | 227.0  | 156.4  | 136.7  | 141.2  |
| 80°   | 81.9   | 81.9   | 90.3   | 98.8   | 138.5  | 311.6  | 165.4  | 108.0  | 92.2   | 85.6   | 87.4   |
| 82.5° | 39.2   | 43.5   | 58.7   | 63.2   | 76.1   | 104.8  | 84.8   | 70.6   | 61.6   | 45.8   | 42.7   |
| 85°   | 25.8   | 21.6   | 37.1   | 41.9   | 44.2   | 50.3   | 49.3   | 46.6   | 40.3   | 22.9   | 25.5   |
| 87.5° | 11.6   | 11.1   | 19.2   | 17.6   | 16.6   | 12.6   | 19.0   | 23.4   | 22.7   | 11.3   | 11.3   |
| 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)