

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: P316075

Luminaire Tested: **GAN-SA1B-727-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316075  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1B-727-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5271 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

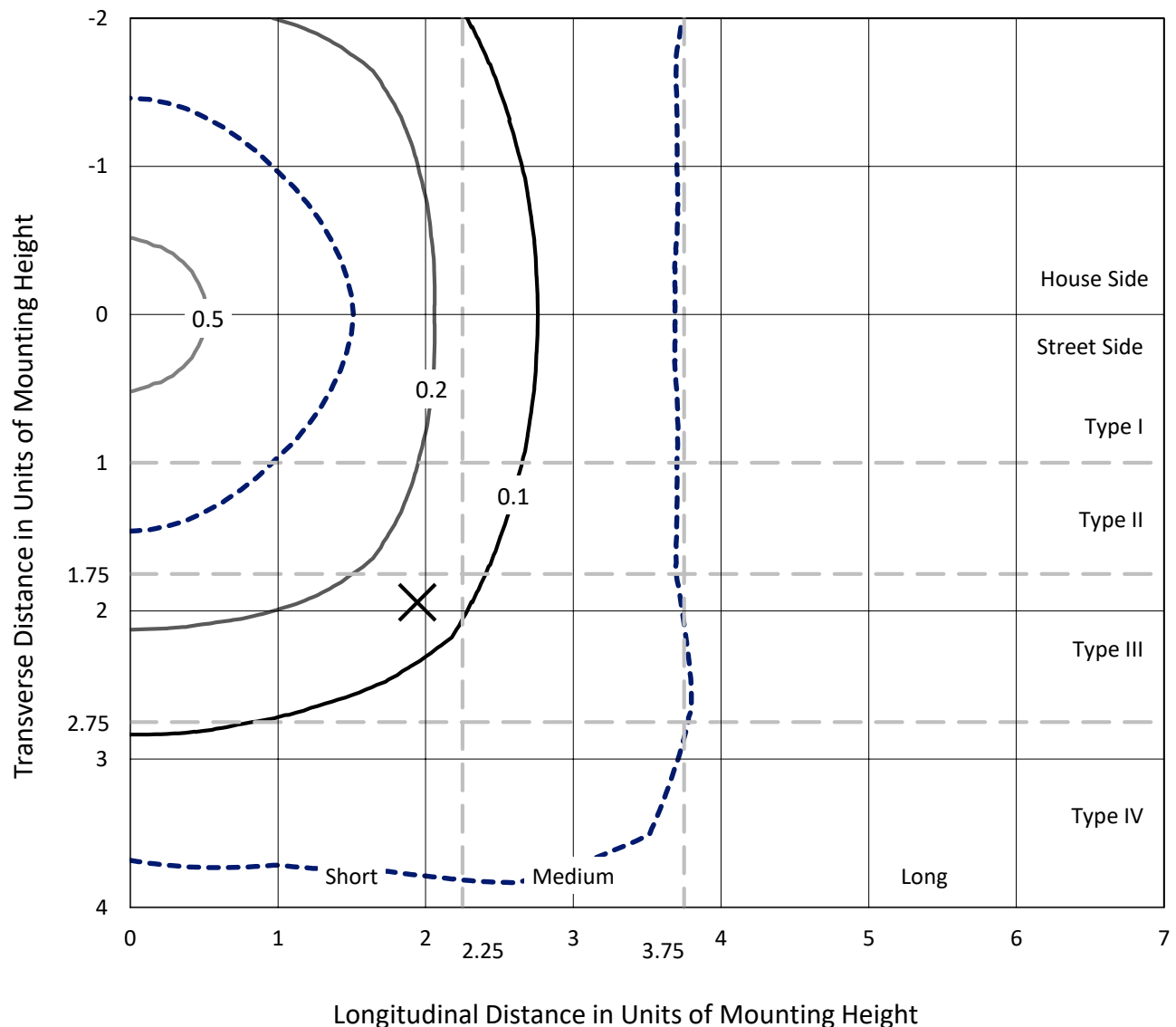
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

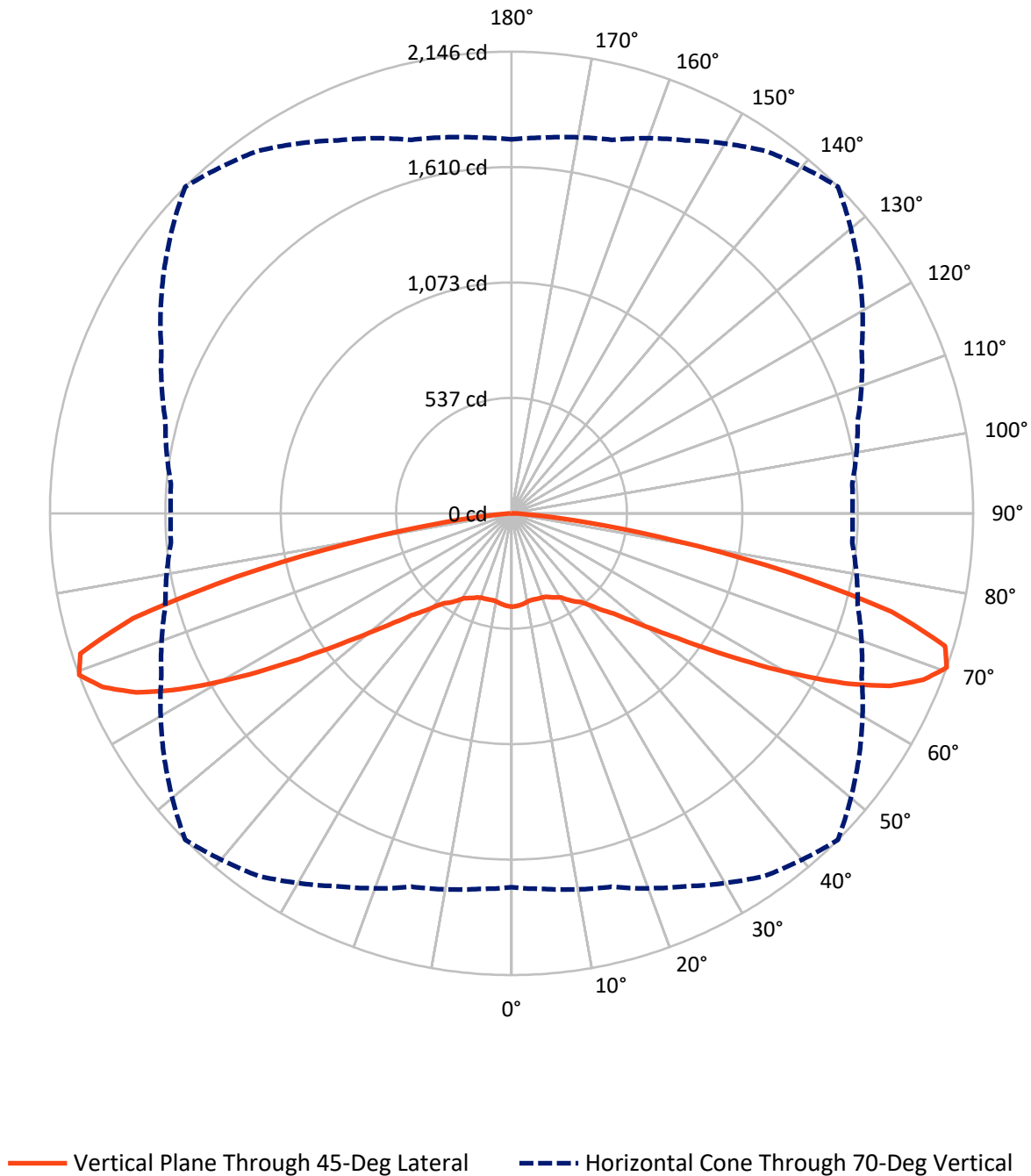
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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    | 2635.5   | 0.0    | 2635.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2635.5   | 0.0    | 2635.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5271.0   | 0.0    | 5271.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 40.5   | 0.8       |
| 10°-20°   | 118.3  | 2.2       |
| 20°-30°   | 201.6  | 3.8       |
| 30°-40°   | 315.1  | 6.0       |
| 40°-50°   | 534.0  | 10.1      |
| 50°-60°   | 973.7  | 18.5      |
| 60°-70°   | 1676.4 | 31.8      |
| 70°-80°   | 1314.0 | 24.9      |
| 80°-90°   | 97.4   | 1.8       |
| 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°    | 5271.0 | 100.0     |
| 0°-180°   | 5271.0 | 100.0     |

**Coefficient of Utilization**



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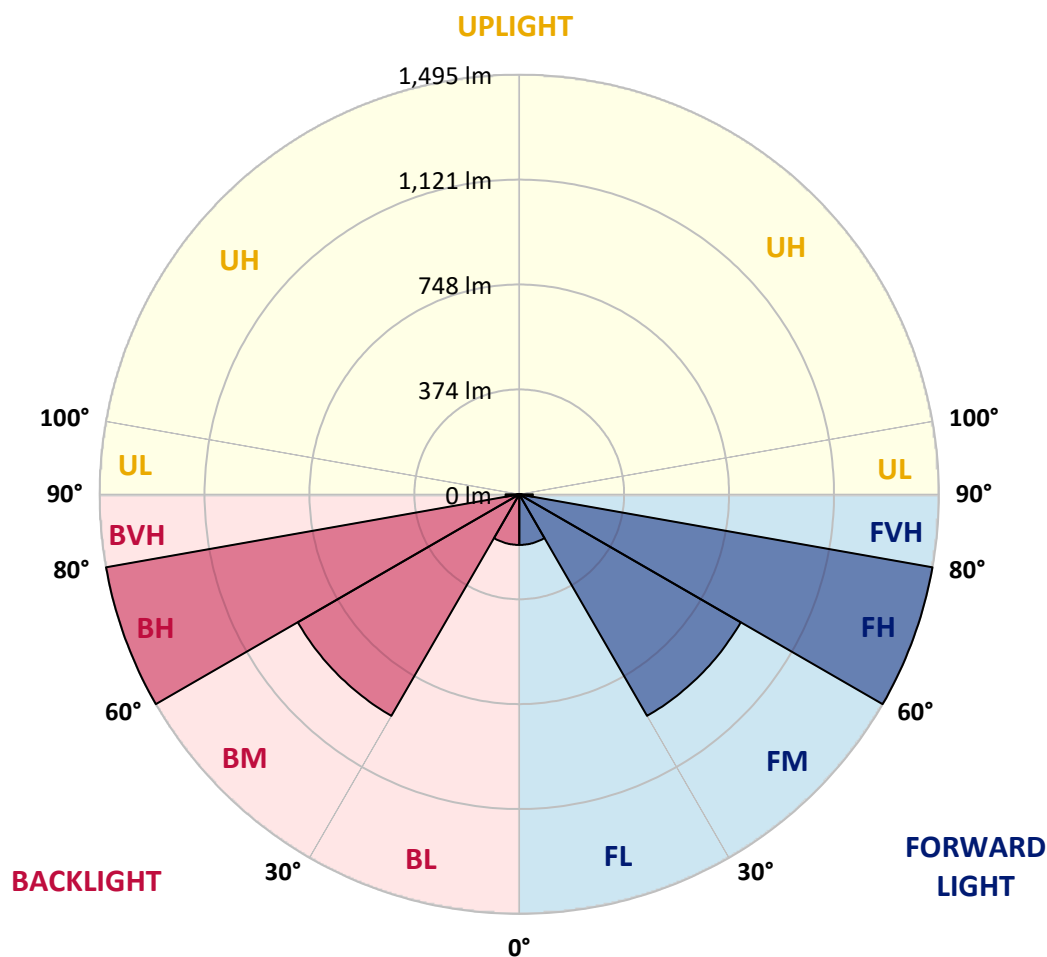
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 180.2  | 3.4       |                         |      |         |
| FM   | (30°-60°)   | 911.4  | 17.3      |                         |      |         |
| FH   | (60°-80°)   | 1495.2 | 28.4      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 48.7   | 0.9       |                         |      | G1/100  |
| BL   | (0°-30°)    | 180.2  | 3.4       | B1/500                  |      |         |
| BM   | (30°-60°)   | 911.4  | 17.3      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 1495.2 | 28.4      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 48.7   | 0.9       |                         |      | 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°    | 433.8  | 433.8  | 433.8  | 433.8  | 433.8  | 433.8  | 433.8  | 433.8  | 433.8  | 433.8  | 433.8  |
| 2.5°  | 431.9  | 432.4  | 431.9  | 432.2  | 431.4  | 431.7  | 431.7  | 431.7  | 431.5  | 431.7  | 431.4  |
| 5°    | 428.1  | 428.4  | 427.7  | 428.1  | 427.5  | 428.1  | 428.2  | 428.1  | 427.7  | 427.9  | 427.2  |
| 7.5°  | 422.3  | 422.6  | 422.1  | 422.6  | 421.9  | 422.8  | 422.6  | 422.1  | 421.6  | 421.6  | 420.9  |
| 10°   | 419.2  | 419.3  | 417.9  | 417.4  | 415.8  | 416.2  | 416.7  | 417.2  | 417.8  | 418.8  | 418.6  |
| 12.5° | 419.3  | 419.3  | 417.2  | 415.0  | 412.7  | 413.2  | 414.1  | 416.0  | 418.1  | 420.0  | 420.2  |
| 15°   | 421.1  | 420.9  | 417.8  | 414.1  | 412.5  | 414.1  | 414.6  | 415.8  | 419.2  | 422.5  | 422.6  |
| 17.5° | 422.3  | 422.3  | 417.4  | 413.2  | 413.1  | 415.5  | 415.3  | 415.8  | 419.5  | 424.4  | 424.6  |
| 20°   | 424.6  | 424.6  | 418.3  | 413.8  | 413.8  | 416.4  | 416.5  | 417.4  | 421.1  | 426.5  | 427.4  |
| 22.5° | 429.6  | 429.8  | 423.2  | 419.5  | 419.9  | 421.4  | 421.9  | 423.3  | 426.7  | 432.6  | 433.6  |
| 25°   | 436.8  | 437.1  | 430.3  | 428.2  | 429.4  | 432.4  | 432.1  | 433.1  | 436.8  | 442.5  | 443.6  |
| 27.5° | 446.7  | 445.8  | 439.6  | 438.7  | 439.9  | 442.0  | 441.8  | 442.0  | 445.0  | 450.2  | 451.4  |
| 30°   | 459.6  | 459.3  | 454.7  | 455.3  | 454.7  | 454.0  | 454.2  | 455.6  | 457.2  | 461.4  | 462.6  |
| 32.5° | 472.2  | 472.5  | 469.7  | 472.3  | 476.2  | 478.8  | 474.8  | 470.9  | 469.2  | 471.5  | 472.5  |
| 35°   | 494.8  | 495.7  | 491.3  | 489.6  | 494.8  | 502.5  | 491.2  | 484.9  | 488.4  | 491.3  | 492.2  |
| 37.5° | 533.4  | 533.9  | 526.6  | 519.6  | 515.8  | 523.1  | 511.7  | 512.3  | 524.5  | 530.0  | 529.9  |
| 40°   | 577.3  | 577.5  | 572.6  | 566.5  | 559.9  | 561.6  | 557.1  | 558.5  | 566.5  | 571.5  | 572.9  |
| 42.5° | 629.6  | 629.1  | 621.4  | 612.7  | 610.8  | 612.5  | 604.8  | 603.8  | 613.0  | 622.1  | 622.3  |
| 45°   | 697.4  | 696.2  | 686.3  | 676.7  | 667.4  | 663.6  | 661.7  | 666.7  | 679.5  | 687.8  | 688.0  |
| 47.5° | 770.5  | 767.2  | 761.9  | 754.3  | 746.3  | 742.4  | 739.3  | 741.7  | 751.0  | 754.3  | 754.6  |
| 50°   | 845.6  | 846.3  | 847.4  | 844.4  | 841.5  | 840.2  | 832.0  | 827.3  | 830.1  | 824.0  | 823.1  |
| 52.5° | 934.7  | 936.1  | 946.2  | 954.8  | 959.8  | 962.5  | 946.9  | 930.7  | 921.7  | 909.8  | 906.3  |
| 55°   | 1039.9 | 1042.1 | 1057.0 | 1080.7 | 1105.1 | 1118.0 | 1089.9 | 1059.6 | 1031.5 | 1009.4 | 1002.2 |
| 57.5° | 1157.0 | 1161.1 | 1181.5 | 1227.0 | 1277.0 | 1307.5 | 1260.1 | 1205.0 | 1150.8 | 1118.9 | 1113.3 |
| 60°   | 1294.4 | 1298.3 | 1326.5 | 1391.7 | 1472.8 | 1518.7 | 1446.8 | 1356.7 | 1289.2 | 1258.7 | 1248.4 |
| 62.5° | 1458.0 | 1458.3 | 1493.0 | 1569.2 | 1676.3 | 1740.1 | 1642.8 | 1522.3 | 1452.8 | 1416.0 | 1406.0 |
| 65°   | 1633.9 | 1634.8 | 1670.7 | 1753.0 | 1863.7 | 1933.1 | 1823.3 | 1697.7 | 1612.6 | 1558.4 | 1550.7 |
| 67.5° | 1758.2 | 1761.9 | 1799.7 | 1898.8 | 2002.3 | 2064.9 | 1951.2 | 1809.3 | 1711.0 | 1646.3 | 1639.8 |
| 70°   | 1738.4 | 1752.7 | 1797.1 | 1912.7 | 2056.7 | 2146.0 | 1972.0 | 1796.1 | 1666.3 | 1590.0 | 1584.6 |
| 72.5° | 1516.0 | 1543.4 | 1602.7 | 1754.4 | 1984.7 | 2107.6 | 1858.8 | 1608.6 | 1461.8 | 1396.8 | 1387.0 |
| 75°   | 1032.4 | 1076.8 | 1166.3 | 1385.1 | 1695.6 | 1824.8 | 1564.9 | 1282.6 | 1144.5 | 1054.5 | 1047.9 |
| 77.5° | 460.3  | 470.4  | 583.8  | 835.7  | 1170.1 | 1310.5 | 1137.0 | 839.0  | 629.8  | 502.3  | 475.5  |
| 80°   | 128.3  | 129.9  | 173.3  | 311.2  | 585.7  | 770.0  | 628.7  | 326.9  | 183.8  | 129.5  | 122.1  |
| 82.5° | 40.8   | 44.3   | 54.1   | 80.7   | 196.9  | 351.3  | 202.1  | 87.2   | 62.1   | 49.5   | 44.6   |
| 85°   | 19.9   | 19.7   | 27.4   | 32.8   | 50.2   | 77.8   | 53.5   | 40.5   | 35.4   | 23.5   | 21.3   |
| 87.5° | 8.4    | 8.5    | 12.7   | 11.5   | 14.6   | 12.6   | 17.3   | 18.1   | 19.0   | 10.5   | 9.1    |
| 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)