

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: P317245

Luminaire Tested: **GAN-SA1C-827-U-RW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317245  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1C-827-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5565 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

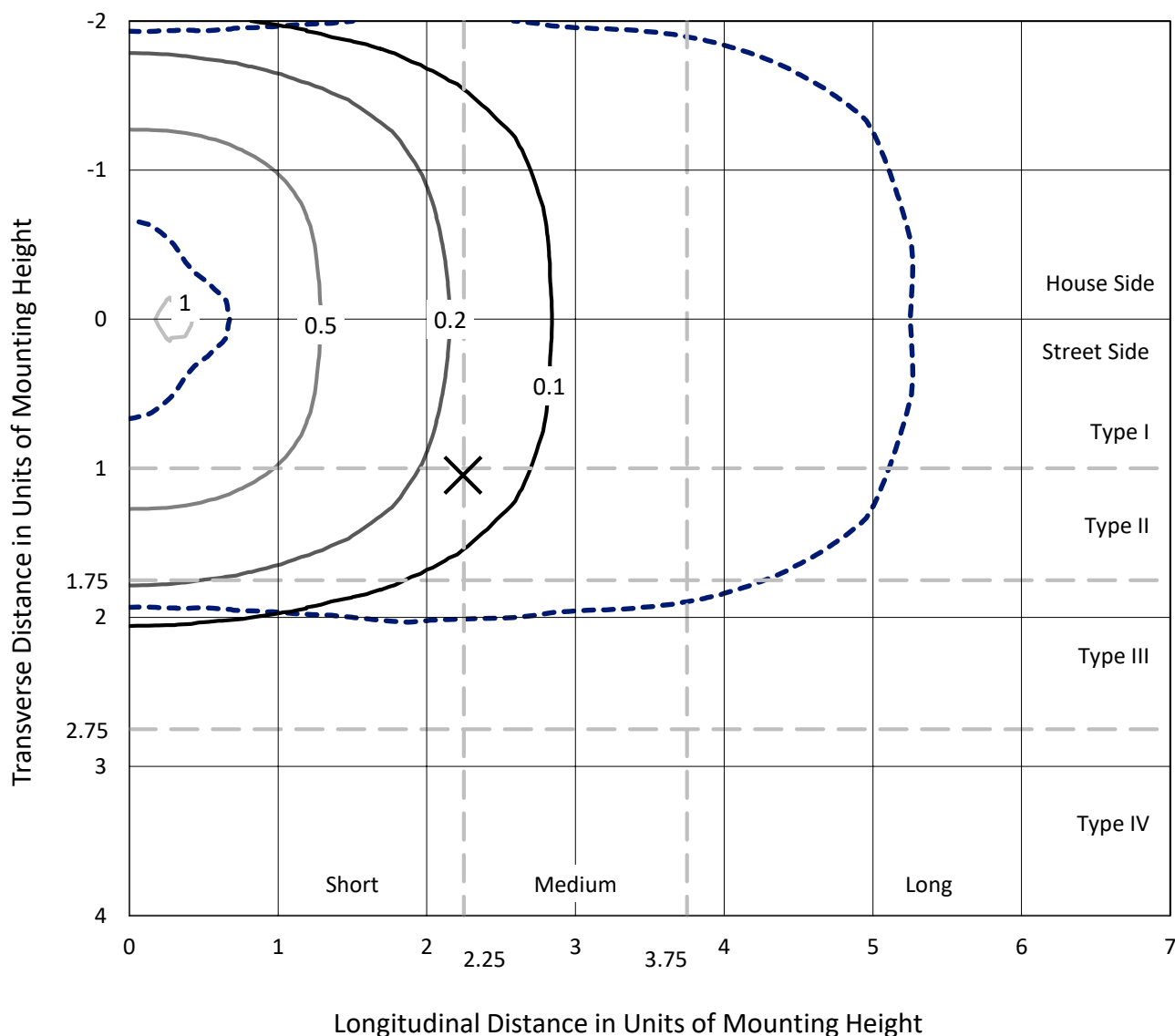
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

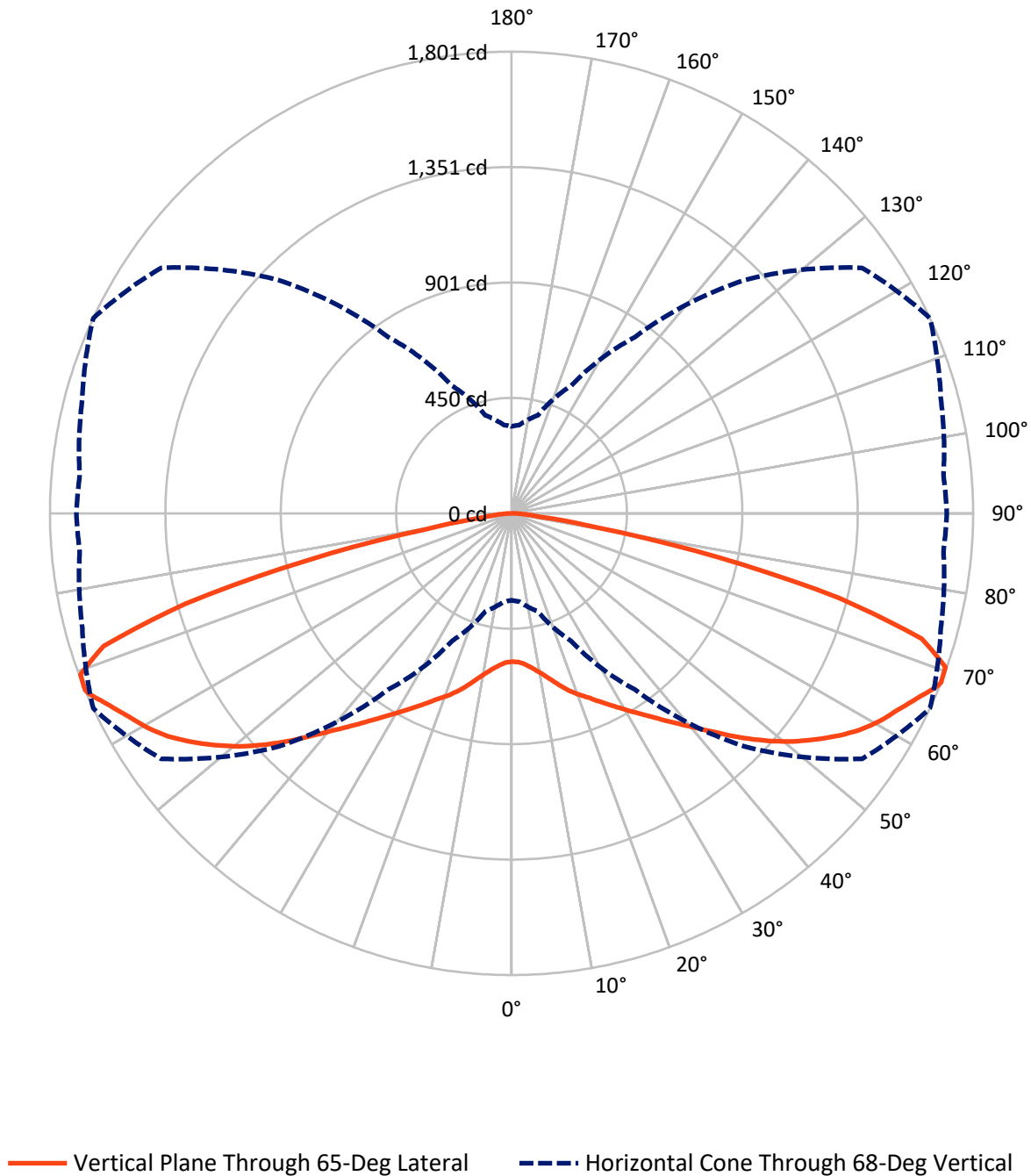
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type III - 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    | 2782.5   | 0.0    | 2782.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2782.5   | 0.0    | 2782.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5565.0   | 0.0    | 5565.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 56.7   | 1.0       |
| 10°-20°   | 189.7  | 3.4       |
| 20°-30°   | 369.9  | 6.6       |
| 30°-40°   | 621.3  | 11.2      |
| 40°-50°   | 979.0  | 17.6      |
| 50°-60°   | 1309.2 | 23.5      |
| 60°-70°   | 1272.7 | 22.9      |
| 70°-80°   | 695.7  | 12.5      |
| 80°-90°   | 70.8   | 1.3       |
| 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°    | 5565.0 | 100.0     |
| 0°-180°   | 5565.0 | 100.0     |

**Coefficient of Utilization**



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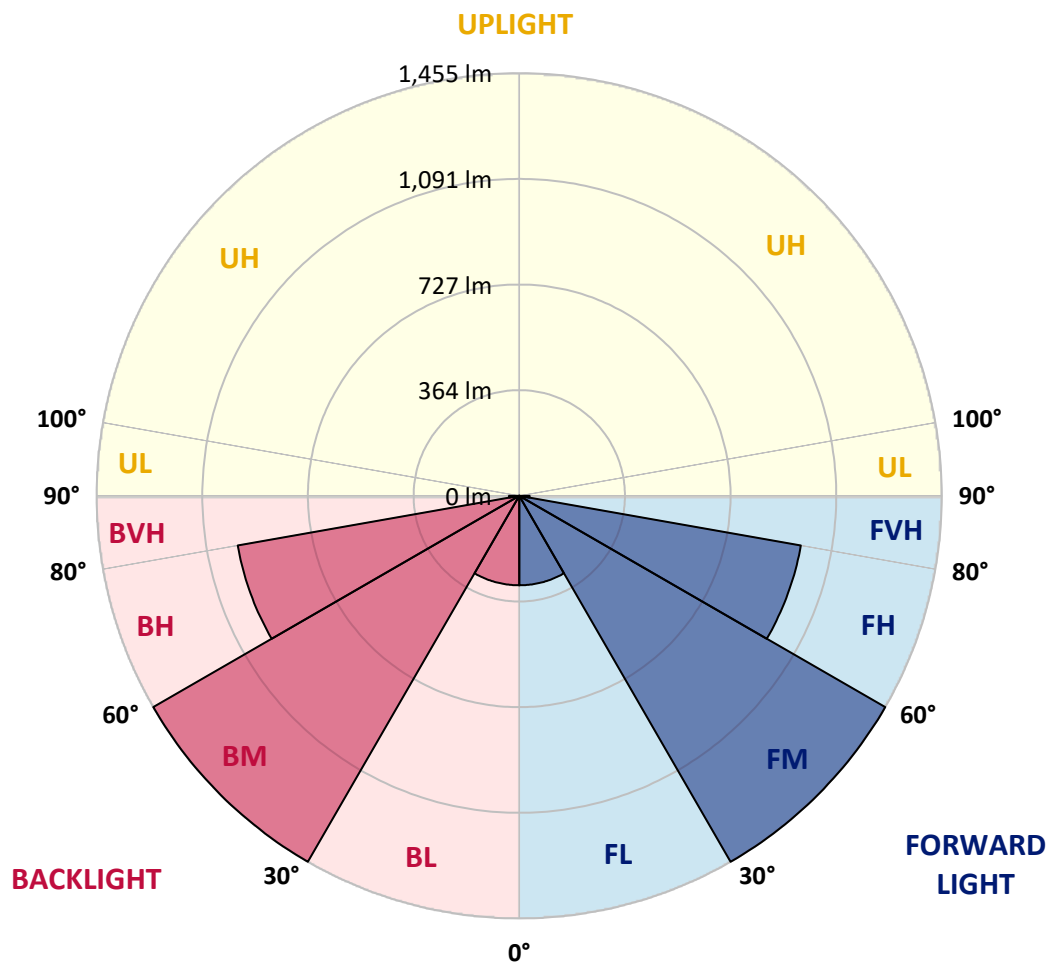
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 308.1  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 1454.8 | 26.1      |                         |      |         |
| FH   | (60°-80°)   | 984.2  | 17.7      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 35.4   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 308.1  | 5.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1454.8 | 26.1      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 984.2  | 17.7      | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 35.4   | 0.6       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 578.6  | 578.6  | 578.6  | 578.6  | 578.6  | 578.6  | 578.6  | 578.6  | 578.6  | 578.6  | 578.6  |
| 2.5°  | 574.5  | 574.7  | 575.6  | 576.8  | 577.7  | 580.1  | 580.7  | 581.6  | 582.0  | 582.9  | 582.9  |
| 5°    | 569.5  | 569.9  | 572.1  | 575.1  | 578.4  | 584.4  | 588.7  | 593.6  | 596.0  | 598.6  | 598.4  |
| 7.5°  | 568.9  | 569.9  | 573.0  | 577.9  | 583.5  | 593.4  | 602.3  | 612.0  | 618.6  | 624.5  | 624.2  |
| 10°   | 574.7  | 576.2  | 580.7  | 588.0  | 596.4  | 608.7  | 621.9  | 635.0  | 646.4  | 655.5  | 655.9  |
| 12.5° | 583.5  | 585.3  | 592.4  | 603.4  | 616.1  | 632.0  | 647.7  | 662.4  | 678.1  | 691.7  | 692.8  |
| 15°   | 595.0  | 597.5  | 608.1  | 624.5  | 643.9  | 662.8  | 679.6  | 694.7  | 712.8  | 731.6  | 733.5  |
| 17.5° | 612.2  | 615.6  | 629.6  | 651.8  | 677.3  | 698.0  | 715.6  | 727.0  | 742.1  | 761.5  | 765.0  |
| 20°   | 638.3  | 642.6  | 660.4  | 686.9  | 718.0  | 739.7  | 753.1  | 755.5  | 763.0  | 780.3  | 784.4  |
| 22.5° | 672.3  | 676.0  | 695.8  | 727.3  | 762.2  | 785.7  | 792.8  | 783.1  | 782.4  | 796.4  | 800.3  |
| 25°   | 710.2  | 713.5  | 736.5  | 771.9  | 809.4  | 835.4  | 835.2  | 816.4  | 803.3  | 814.1  | 818.2  |
| 27.5° | 752.7  | 757.9  | 780.0  | 817.3  | 857.4  | 883.0  | 881.5  | 852.4  | 827.5  | 830.3  | 833.9  |
| 30°   | 801.6  | 807.4  | 828.9  | 866.7  | 906.8  | 931.9  | 930.0  | 891.5  | 854.2  | 846.8  | 849.4  |
| 32.5° | 862.3  | 869.2  | 889.5  | 926.8  | 962.3  | 984.8  | 979.4  | 934.1  | 886.3  | 870.1  | 872.5  |
| 35°   | 935.2  | 939.3  | 960.8  | 997.5  | 1026.3 | 1041.8 | 1030.4 | 983.4  | 927.0  | 907.4  | 907.4  |
| 37.5° | 1009.1 | 1012.3 | 1036.3 | 1072.0 | 1099.8 | 1108.0 | 1085.8 | 1037.3 | 980.2  | 952.4  | 952.9  |
| 40°   | 1080.0 | 1088.6 | 1115.6 | 1152.2 | 1179.6 | 1181.9 | 1152.4 | 1098.9 | 1039.3 | 1010.6 | 1014.0 |
| 42.5° | 1154.1 | 1162.5 | 1194.8 | 1236.2 | 1260.4 | 1264.2 | 1229.7 | 1167.9 | 1106.1 | 1082.8 | 1086.5 |
| 45°   | 1220.1 | 1226.9 | 1264.2 | 1312.3 | 1342.5 | 1352.2 | 1311.4 | 1247.0 | 1178.3 | 1155.6 | 1156.5 |
| 47.5° | 1266.2 | 1275.0 | 1316.0 | 1372.8 | 1416.8 | 1431.7 | 1391.6 | 1324.1 | 1249.4 | 1221.8 | 1224.2 |
| 50°   | 1308.0 | 1312.7 | 1354.3 | 1416.3 | 1472.2 | 1503.0 | 1468.7 | 1400.2 | 1321.3 | 1292.0 | 1294.6 |
| 52.5° | 1331.4 | 1337.3 | 1377.6 | 1442.2 | 1508.4 | 1558.1 | 1537.2 | 1468.7 | 1390.7 | 1362.1 | 1365.3 |
| 55°   | 1315.1 | 1319.6 | 1367.9 | 1448.0 | 1530.8 | 1592.0 | 1595.2 | 1535.7 | 1458.8 | 1433.8 | 1442.7 |
| 57.5° | 1241.2 | 1246.8 | 1305.8 | 1410.7 | 1533.6 | 1615.0 | 1638.9 | 1597.8 | 1522.4 | 1502.1 | 1507.3 |
| 60°   | 1125.7 | 1129.3 | 1192.2 | 1310.1 | 1479.1 | 1624.5 | 1666.7 | 1648.6 | 1584.7 | 1564.4 | 1571.5 |
| 62.5° | 919.9  | 925.1  | 1000.3 | 1158.4 | 1364.0 | 1596.3 | 1693.5 | 1690.5 | 1642.8 | 1624.1 | 1630.5 |
| 65°   | 628.8  | 638.0  | 721.2  | 921.0  | 1186.6 | 1510.1 | 1718.0 | 1739.4 | 1694.1 | 1670.6 | 1679.0 |
| 67.5° | 379.7  | 386.4  | 446.7  | 608.1  | 908.0  | 1336.2 | 1692.8 | 1795.0 | 1730.3 | 1692.4 | 1699.3 |
| 68°   | 339.4  | 345.6  | 396.0  | 548.8  | 839.9  | 1287.1 | 1669.8 | 1801.4 | 1734.2 | 1692.0 | 1698.2 |
| 70°   | 205.1  | 209.2  | 242.9  | 339.2  | 560.0  | 1021.0 | 1513.3 | 1796.2 | 1759.2 | 1697.3 | 1700.8 |
| 72.5° | 133.6  | 134.9  | 140.5  | 174.1  | 286.0  | 571.0  | 1135.8 | 1673.8 | 1796.7 | 1727.7 | 1727.1 |
| 75°   | 111.0  | 110.3  | 110.8  | 114.8  | 141.1  | 250.4  | 663.7  | 1322.2 | 1712.7 | 1679.7 | 1668.0 |
| 77.5° | 93.9   | 93.3   | 93.1   | 93.3   | 94.4   | 120.9  | 288.1  | 823.6  | 1310.6 | 1485.9 | 1496.3 |
| 80°   | 75.9   | 75.2   | 77.6   | 76.5   | 73.1   | 75.2   | 120.7  | 342.6  | 617.8  | 664.6  | 622.9  |
| 82.5° | 55.2   | 52.4   | 62.9   | 59.9   | 57.1   | 53.0   | 66.6   | 110.7  | 147.4  | 101.1  | 71.1   |
| 85°   | 42.5   | 39.6   | 47.8   | 45.9   | 39.2   | 27.1   | 39.6   | 54.1   | 59.7   | 34.1   | 26.9   |
| 87.5° | 17.4   | 18.3   | 34.5   | 27.2   | 23.0   | 13.1   | 16.2   | 21.6   | 29.1   | 14.6   | 11.2   |
| 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)