

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: McGRAW-EDISON

Report Number: P595909

Luminaire Tested: **ISW-PA1F-830-U-5WQ**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595909  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISW-PA1F-830-U-5WQ  
Description: IMPACT ELITE LED WEDGE LUMINAIRE  
(1) 80 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9122 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type V - Medium  
BUG Rating: B4 - U0 - G2

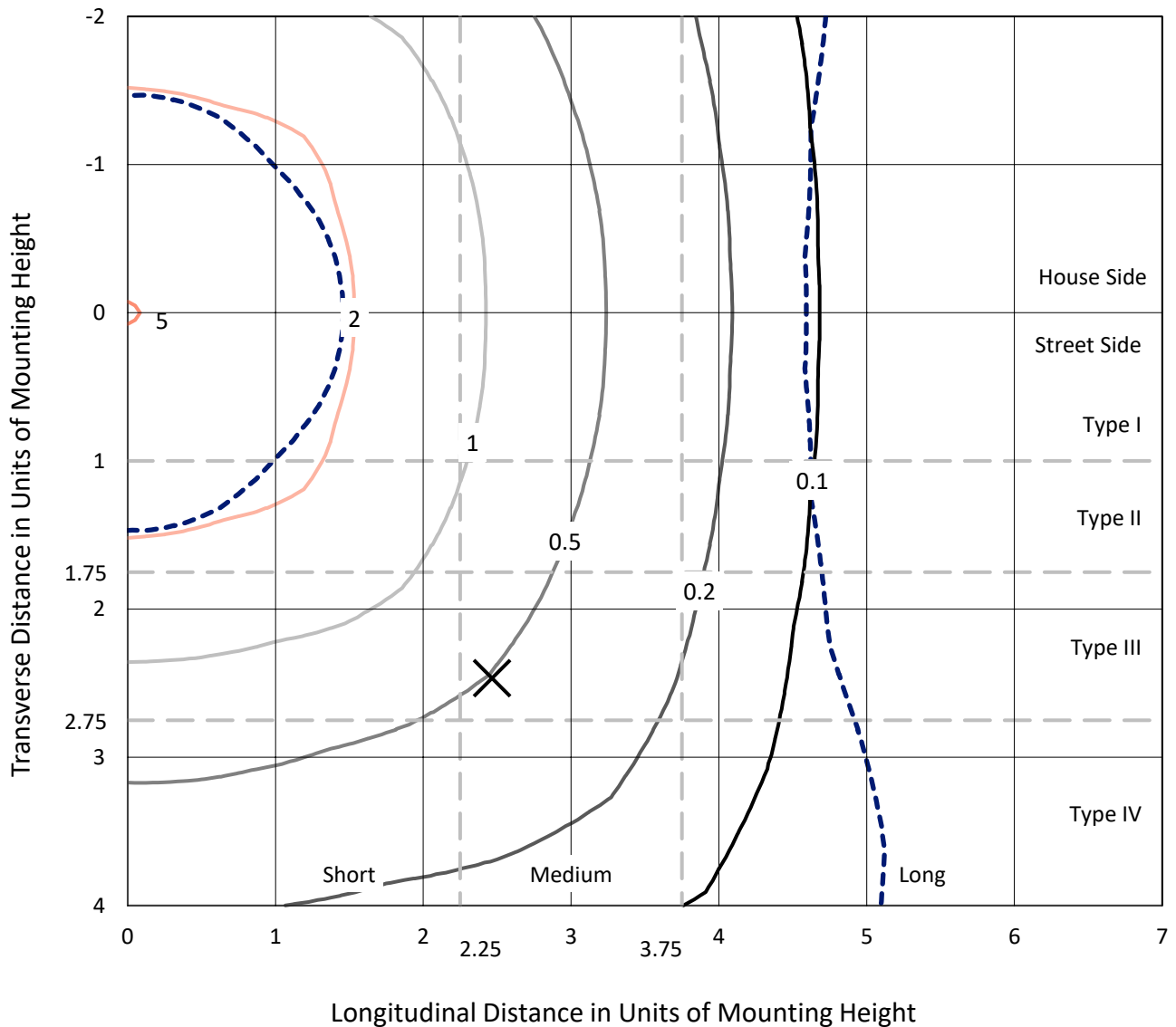
Input Watts (W): 93.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

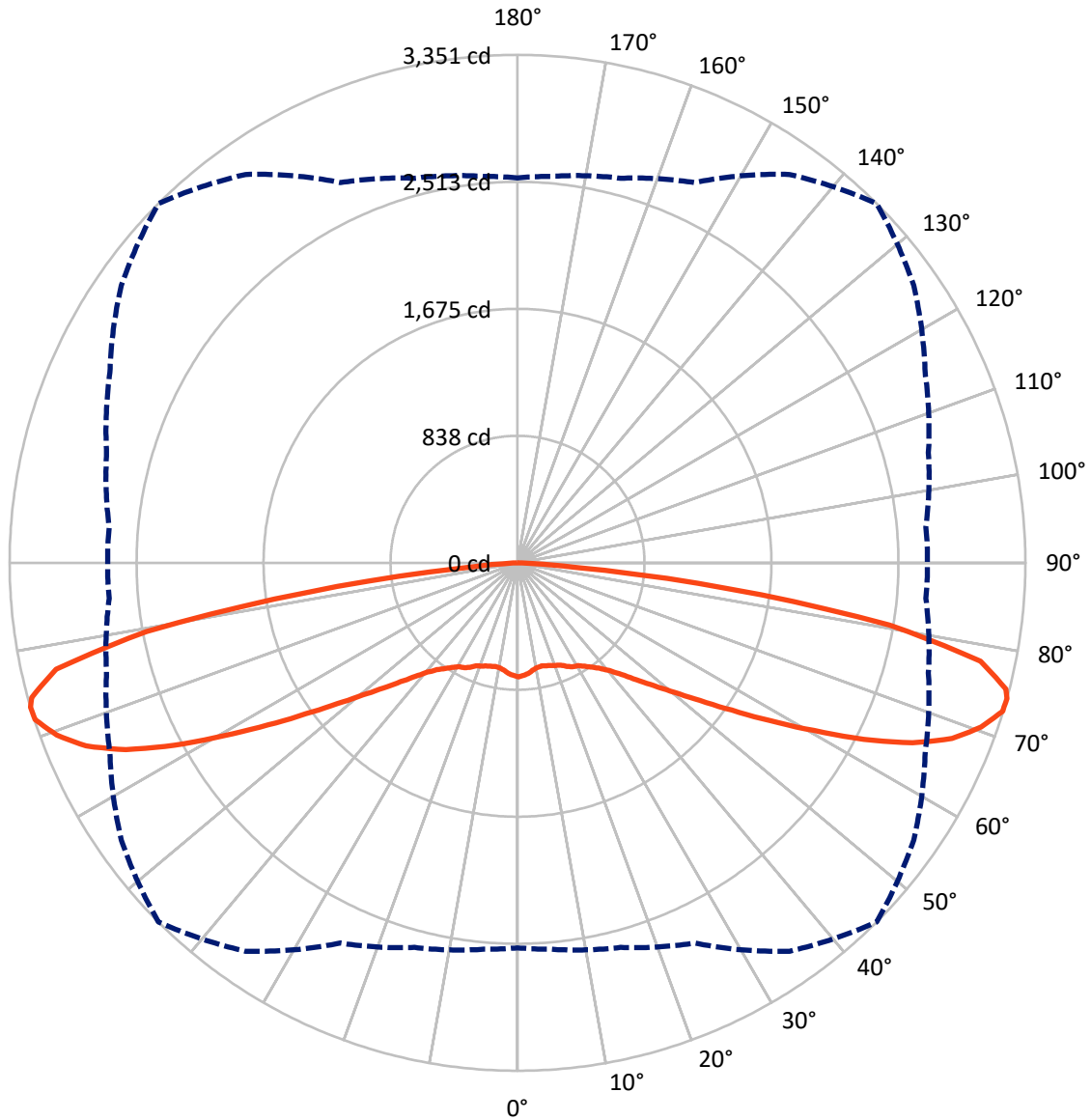
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.2 fc  
 Type V - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4561.0   | 0.0    | 4561.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4561.0   | 0.0    | 4561.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 9122.0   | 0.0    | 9122.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 69.0   | 0.8       |
| 10°-20°   | 202.1  | 2.2       |
| 20°-30°   | 349.0  | 3.8       |
| 30°-40°   | 534.6  | 5.9       |
| 40°-50°   | 869.6  | 9.5       |
| 50°-60°   | 1508.1 | 16.5      |
| 60°-70°   | 2497.7 | 27.4      |
| 70°-80°   | 2702.4 | 29.6      |
| 80°-90°   | 389.4  | 4.3       |
| 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°    | 9122.0 | 100.0     |
| 0°-180°   | 9122.0 | 100.0     |

**Coefficient of Utilization**

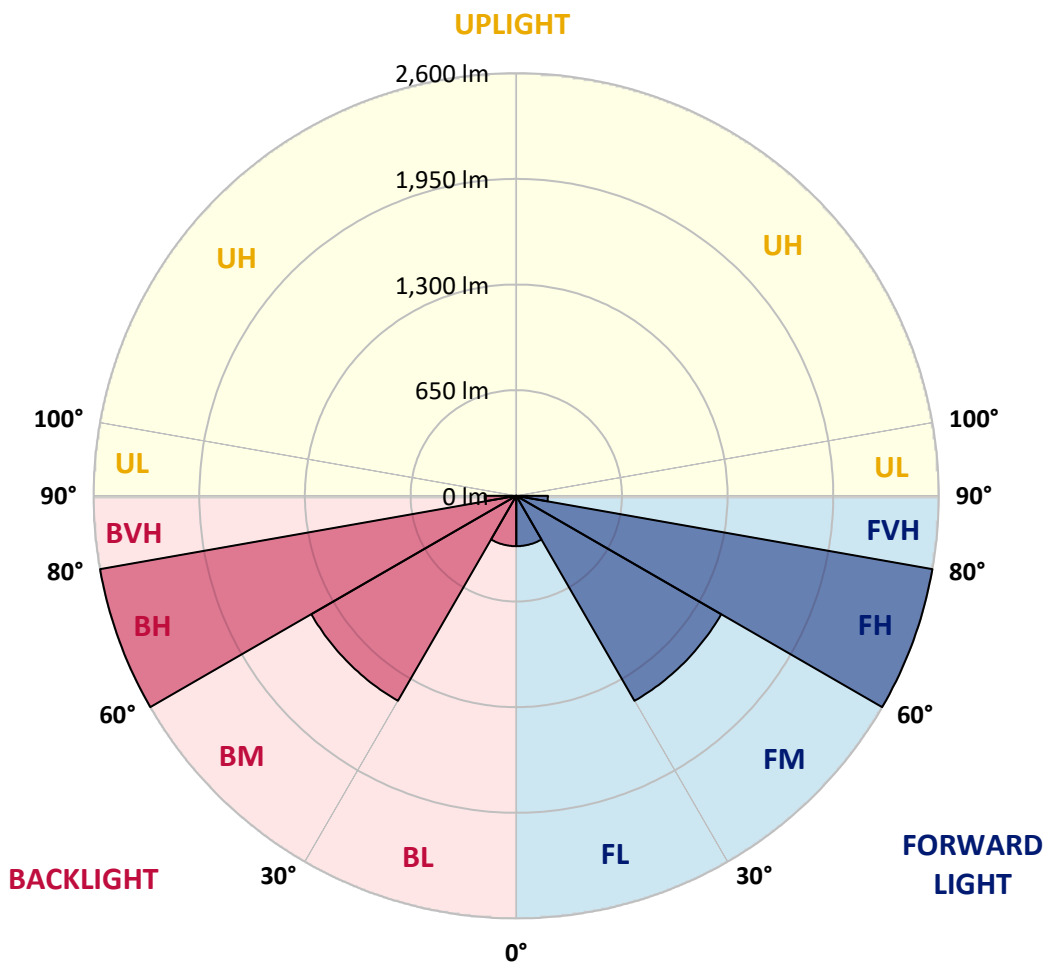


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 310.0  | 3.4       |                         |      |         |
| FM (30°-60°)   | 1456.2 | 16.0      |                         |      |         |
| FH (60°-80°)   | 2600.0 | 28.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 194.7  | 2.1       |                         |      | G2/225  |
| BL (0°-30°)    | 310.0  | 3.4       | B1/500                  |      |         |
| BM (30°-60°)   | 1456.2 | 16.0      | B2/2500                 |      |         |
| BH (60°-80°)   | 2600.0 | 28.5      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 194.7  | 2.1       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**  
 Type V Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 752.5  | 752.5  | 752.5  | 752.5  | 752.5  | 752.5  | 752.5  | 752.5  | 752.5  | 752.5  | 752.5  |
| 2.5°  | 741.7  | 743.9  | 743.9  | 741.7  | 743.9  | 743.9  | 743.9  | 746.0  | 743.9  | 748.2  | 746.0  |
| 5°    | 730.8  | 730.8  | 733.0  | 730.8  | 730.8  | 733.0  | 730.8  | 735.2  | 733.0  | 737.4  | 733.0  |
| 7.5°  | 713.5  | 713.5  | 713.5  | 713.5  | 715.7  | 715.7  | 715.7  | 720.0  | 720.0  | 720.0  | 717.8  |
| 10°   | 709.2  | 707.0  | 707.0  | 702.7  | 702.7  | 702.7  | 700.5  | 707.0  | 709.2  | 713.5  | 711.3  |
| 12.5° | 711.3  | 711.3  | 707.0  | 702.7  | 700.5  | 698.3  | 698.3  | 704.8  | 711.3  | 713.5  | 713.5  |
| 15°   | 720.0  | 720.0  | 713.5  | 704.8  | 704.8  | 704.8  | 702.7  | 704.8  | 715.7  | 720.0  | 715.7  |
| 17.5° | 726.5  | 724.3  | 717.8  | 713.5  | 713.5  | 711.3  | 711.3  | 711.3  | 717.8  | 724.3  | 724.3  |
| 20°   | 737.4  | 737.4  | 728.7  | 724.3  | 724.3  | 722.2  | 720.0  | 717.8  | 724.3  | 733.0  | 730.8  |
| 22.5° | 752.5  | 748.2  | 741.7  | 737.4  | 735.2  | 733.0  | 728.7  | 730.8  | 735.2  | 741.7  | 741.7  |
| 25°   | 763.4  | 763.4  | 756.9  | 754.7  | 756.9  | 756.9  | 750.4  | 746.0  | 748.2  | 754.7  | 754.7  |
| 27.5° | 767.7  | 767.7  | 763.4  | 763.4  | 772.1  | 776.4  | 767.7  | 759.0  | 754.7  | 761.2  | 759.0  |
| 30°   | 785.1  | 785.1  | 780.7  | 778.6  | 785.1  | 787.2  | 782.9  | 776.4  | 774.2  | 780.7  | 778.6  |
| 32.5° | 815.4  | 813.3  | 806.8  | 800.2  | 802.4  | 813.3  | 804.6  | 802.4  | 802.4  | 808.9  | 811.1  |
| 35°   | 850.1  | 845.8  | 839.3  | 832.8  | 834.9  | 845.8  | 837.1  | 837.1  | 839.3  | 848.0  | 848.0  |
| 37.5° | 900.0  | 895.7  | 887.0  | 871.8  | 869.6  | 882.7  | 880.5  | 882.7  | 891.3  | 895.7  | 900.0  |
| 40°   | 954.2  | 952.1  | 941.2  | 928.2  | 926.0  | 934.7  | 936.9  | 941.2  | 949.9  | 954.2  | 956.4  |
| 42.5° | 1032.3 | 1028.0 | 1010.6 | 997.6  | 995.4  | 1006.3 | 1010.6 | 1014.9 | 1025.8 | 1030.1 | 1034.5 |
| 45°   | 1127.7 | 1125.6 | 1106.0 | 1090.9 | 1084.3 | 1099.5 | 1099.5 | 1103.9 | 1114.7 | 1123.4 | 1123.4 |
| 47.5° | 1231.8 | 1229.6 | 1214.5 | 1197.1 | 1199.3 | 1210.1 | 1208.0 | 1210.1 | 1218.8 | 1227.5 | 1234.0 |
| 50°   | 1348.9 | 1342.4 | 1325.1 | 1320.7 | 1331.6 | 1342.4 | 1333.7 | 1331.6 | 1344.6 | 1348.9 | 1346.8 |
| 52.5° | 1476.9 | 1470.4 | 1461.7 | 1461.7 | 1487.7 | 1507.2 | 1500.7 | 1481.2 | 1481.2 | 1479.0 | 1476.9 |
| 55°   | 1628.7 | 1624.3 | 1622.2 | 1633.0 | 1676.4 | 1715.4 | 1691.6 | 1654.7 | 1639.5 | 1630.9 | 1635.2 |
| 57.5° | 1787.0 | 1776.2 | 1795.7 | 1819.5 | 1906.3 | 1962.7 | 1925.8 | 1856.4 | 1834.7 | 1817.4 | 1808.7 |
| 60°   | 1947.5 | 1943.1 | 1971.3 | 2027.7 | 2151.3 | 2246.8 | 2196.9 | 2081.9 | 2042.9 | 2003.9 | 2003.9 |
| 62.5° | 2103.6 | 2099.3 | 2140.5 | 2227.2 | 2422.4 | 2563.4 | 2472.3 | 2327.0 | 2251.1 | 2192.5 | 2183.9 |
| 65°   | 2292.3 | 2285.8 | 2331.3 | 2424.6 | 2684.8 | 2862.7 | 2747.7 | 2556.9 | 2465.8 | 2385.6 | 2374.7 |
| 67.5° | 2446.3 | 2446.3 | 2507.0 | 2621.9 | 2906.0 | 3092.6 | 2949.4 | 2784.6 | 2678.3 | 2595.9 | 2587.2 |
| 70°   | 2593.8 | 2606.8 | 2652.3 | 2765.1 | 3075.2 | 3244.4 | 3114.2 | 2966.8 | 2871.3 | 2788.9 | 2780.3 |
| 72.5° | 2656.6 | 2674.0 | 2719.5 | 2830.1 | 3148.9 | 3346.3 | 3194.5 | 3025.3 | 2923.4 | 2841.0 | 2830.1 |
| 74°   | 2539.5 | 2559.1 | 2626.3 | 2767.2 | 3127.3 | 3350.6 | 3190.1 | 2966.8 | 2806.3 | 2704.4 | 2704.4 |
| 75°   | 2407.2 | 2433.3 | 2513.5 | 2665.3 | 3081.7 | 3326.8 | 3144.6 | 2873.5 | 2650.1 | 2530.9 | 2537.4 |
| 77.5° | 1856.4 | 1912.8 | 1999.5 | 2238.1 | 2765.1 | 3122.9 | 2795.4 | 2305.3 | 1947.5 | 1769.7 | 1765.3 |
| 80°   | 529.2  | 607.2  | 804.6  | 1335.9 | 2101.5 | 2487.5 | 2053.7 | 1364.1 | 962.9  | 733.0  | 704.8  |
| 82.5° | 128.0  | 149.6  | 206.0  | 377.4  | 897.8  | 1405.3 | 1017.1 | 446.8  | 268.9  | 175.7  | 141.0  |
| 85°   | 54.2   | 58.6   | 93.3   | 130.1  | 247.2  | 373.0  | 236.4  | 151.8  | 110.6  | 49.9   | 47.7   |
| 87.5° | 19.5   | 21.7   | 34.7   | 34.7   | 52.0   | 30.4   | 54.2   | 36.9   | 39.0   | 13.0   | 13.0   |
| 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)