

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: P594730

Luminaire Tested: **ISS-PA1D-750-U-5WQ**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594730  
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: ISS-PA1D-750-U-5WQ  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 5000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8650 lumens  
Efficiency: N/A  
Efficacy: 137.3 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type V - Medium  
BUG Rating: B3 - U0 - G2

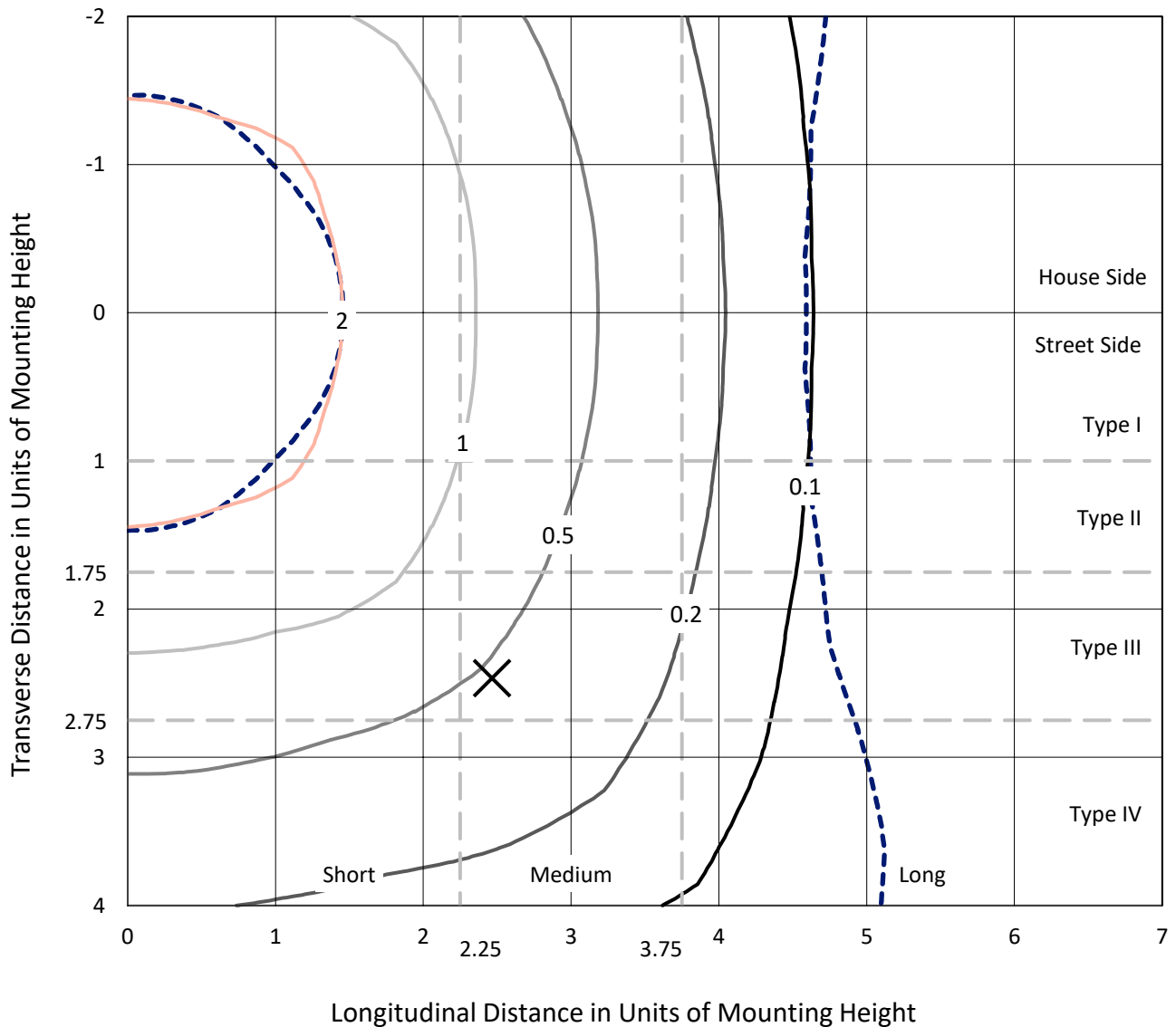
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

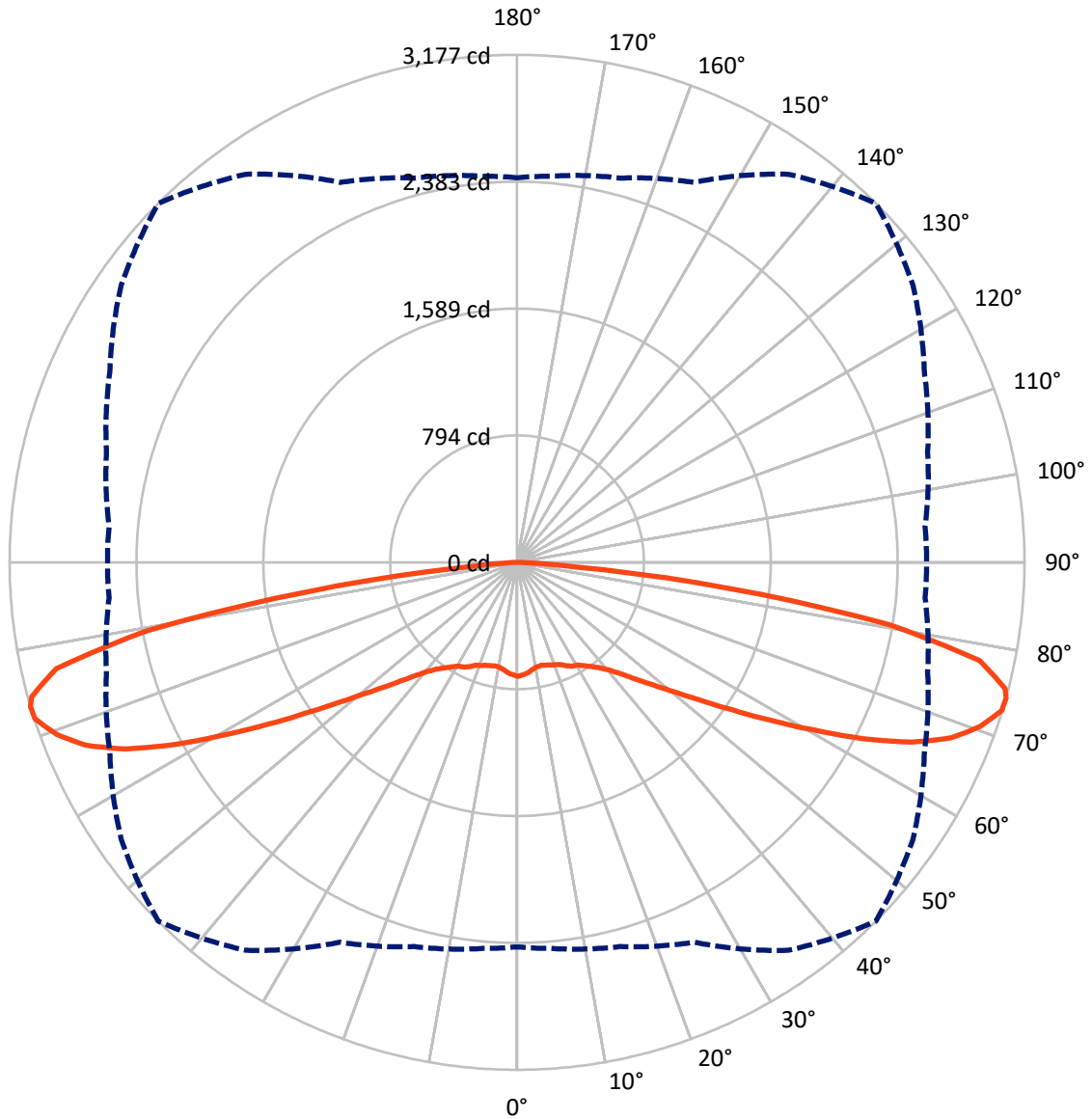
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5 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    | 4325.0   | 0.0    | 4325.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4325.0   | 0.0    | 4325.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 8650.0   | 0.0    | 8650.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 65.4   | 0.8       |
| 10°-20°   | 191.6  | 2.2       |
| 20°-30°   | 331.0  | 3.8       |
| 30°-40°   | 506.9  | 5.9       |
| 40°-50°   | 824.6  | 9.5       |
| 50°-60°   | 1430.1 | 16.5      |
| 60°-70°   | 2368.4 | 27.4      |
| 70°-80°   | 2562.6 | 29.6      |
| 80°-90°   | 369.3  | 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°    | 8650.0 | 100.0     |
| 0°-180°   | 8650.0 | 100.0     |

**Coefficient of Utilization**

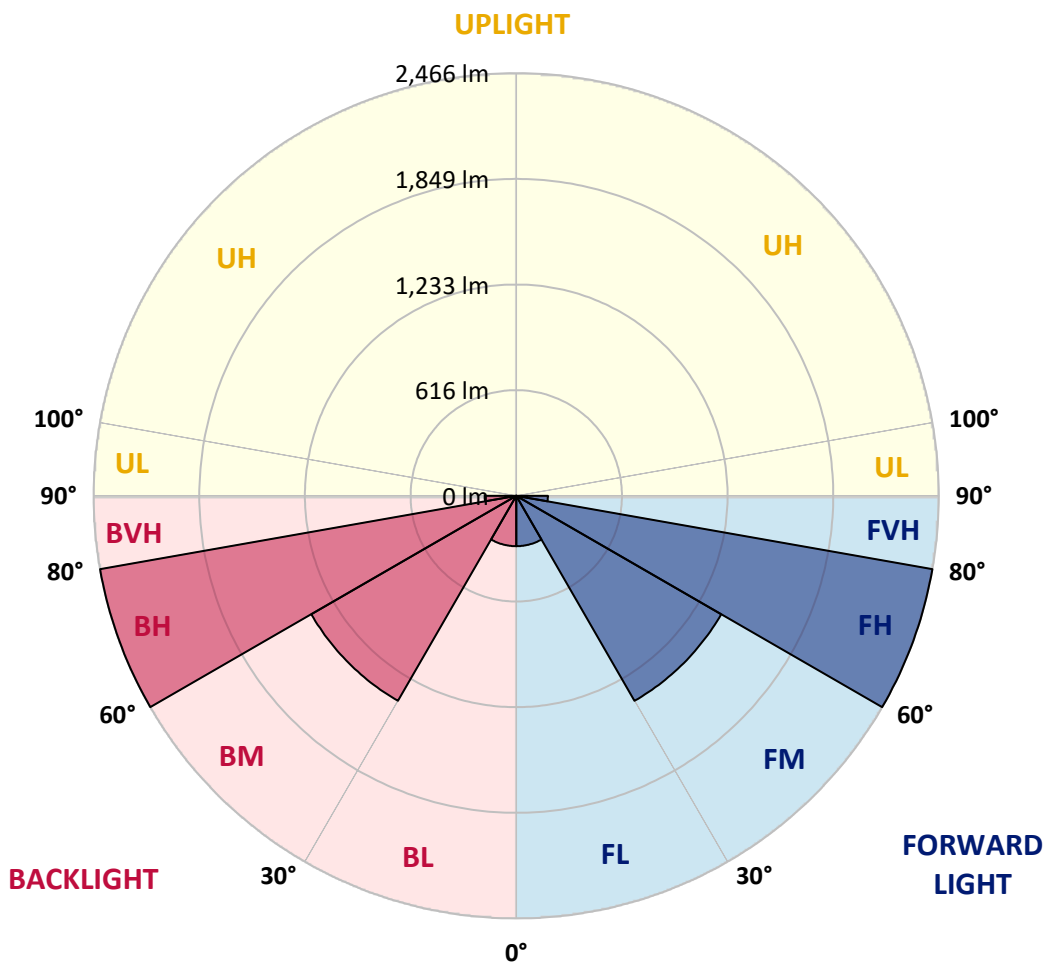


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 294.0  | 3.4       |                         |      |         |
| FM (30°-60°)   | 1380.8 | 16.0      |                         |      |         |
| FH (60°-80°)   | 2465.5 | 28.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 184.7  | 2.1       |                         |      | G2/225  |
| BL (0°-30°)    | 294.0  | 3.4       | B1/500                  |      |         |
| BM (30°-60°)   | 1380.8 | 16.0      | B2/2500                 |      |         |
| BH (60°-80°)   | 2465.5 | 28.5      | B3/2500                 |      | G2/5000 |
| BVH (80°-90°)  | 184.7  | 2.1       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**  
 Type V Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 713.6  | 713.6  | 713.6  | 713.6  | 713.6  | 713.6  | 713.6  | 713.6  | 713.6  | 713.6  | 713.6  |
| 2.5°  | 703.3  | 705.4  | 705.4  | 703.3  | 705.4  | 705.4  | 705.4  | 707.4  | 705.4  | 709.5  | 707.4  |
| 5°    | 693.0  | 693.0  | 695.1  | 693.0  | 693.0  | 695.1  | 693.0  | 697.1  | 695.1  | 699.2  | 695.1  |
| 7.5°  | 676.6  | 676.6  | 676.6  | 676.6  | 678.6  | 678.6  | 678.6  | 682.7  | 682.7  | 682.7  | 680.7  |
| 10°   | 672.5  | 670.4  | 670.4  | 666.3  | 666.3  | 666.3  | 664.2  | 670.4  | 672.5  | 676.6  | 674.5  |
| 12.5° | 674.5  | 674.5  | 670.4  | 666.3  | 664.2  | 662.2  | 662.2  | 668.4  | 674.5  | 676.6  | 676.6  |
| 15°   | 682.7  | 682.7  | 676.6  | 668.4  | 668.4  | 668.4  | 666.3  | 668.4  | 678.6  | 682.7  | 678.6  |
| 17.5° | 688.9  | 686.9  | 680.7  | 676.6  | 676.6  | 674.5  | 674.5  | 674.5  | 680.7  | 686.9  | 686.9  |
| 20°   | 699.2  | 699.2  | 691.0  | 686.9  | 686.9  | 684.8  | 682.7  | 680.7  | 686.9  | 695.1  | 693.0  |
| 22.5° | 713.6  | 709.5  | 703.3  | 699.2  | 697.1  | 695.1  | 691.0  | 693.0  | 697.1  | 703.3  | 703.3  |
| 25°   | 723.9  | 723.9  | 717.7  | 715.7  | 717.7  | 717.7  | 711.5  | 707.4  | 709.5  | 715.7  | 715.7  |
| 27.5° | 728.0  | 728.0  | 723.9  | 723.9  | 732.1  | 736.2  | 728.0  | 719.8  | 715.7  | 721.8  | 719.8  |
| 30°   | 744.4  | 744.4  | 740.3  | 738.3  | 744.4  | 746.5  | 742.4  | 736.2  | 734.2  | 740.3  | 738.3  |
| 32.5° | 773.2  | 771.2  | 765.0  | 758.8  | 760.9  | 771.2  | 763.0  | 760.9  | 760.9  | 767.1  | 769.1  |
| 35°   | 806.1  | 802.0  | 795.9  | 789.7  | 791.7  | 802.0  | 793.8  | 793.8  | 795.9  | 804.1  | 804.1  |
| 37.5° | 853.4  | 849.3  | 841.1  | 826.7  | 824.6  | 837.0  | 834.9  | 837.0  | 845.2  | 849.3  | 853.4  |
| 40°   | 904.8  | 902.8  | 892.5  | 880.2  | 878.1  | 886.3  | 888.4  | 892.5  | 900.7  | 904.8  | 906.9  |
| 42.5° | 978.9  | 974.8  | 958.3  | 946.0  | 943.9  | 954.2  | 958.3  | 962.4  | 972.7  | 976.8  | 980.9  |
| 45°   | 1069.4 | 1067.3 | 1048.8 | 1034.4 | 1028.2 | 1042.6 | 1042.6 | 1046.7 | 1057.0 | 1065.3 | 1065.3 |
| 47.5° | 1168.1 | 1166.0 | 1151.6 | 1135.2 | 1137.2 | 1147.5 | 1145.5 | 1147.5 | 1155.7 | 1164.0 | 1170.1 |
| 50°   | 1279.1 | 1273.0 | 1256.5 | 1252.4 | 1262.7 | 1273.0 | 1264.7 | 1262.7 | 1275.0 | 1279.1 | 1277.1 |
| 52.5° | 1400.5 | 1394.3 | 1386.1 | 1386.1 | 1410.7 | 1429.3 | 1423.1 | 1404.6 | 1404.6 | 1402.5 | 1400.5 |
| 55°   | 1544.4 | 1540.3 | 1538.2 | 1548.5 | 1589.7 | 1626.7 | 1604.1 | 1569.1 | 1554.7 | 1546.5 | 1550.6 |
| 57.5° | 1694.5 | 1684.3 | 1702.8 | 1725.4 | 1807.6 | 1861.1 | 1826.2 | 1760.3 | 1739.8 | 1723.3 | 1715.1 |
| 60°   | 1846.7 | 1842.6 | 1869.3 | 1922.8 | 2040.0 | 2130.5 | 2083.2 | 1974.2 | 1937.2 | 1900.2 | 1900.2 |
| 62.5° | 1994.8 | 1990.7 | 2029.7 | 2112.0 | 2297.1 | 2430.8 | 2344.4 | 2206.6 | 2134.6 | 2079.1 | 2070.9 |
| 65°   | 2173.7 | 2167.5 | 2210.7 | 2299.1 | 2545.9 | 2714.5 | 2605.6 | 2424.6 | 2338.2 | 2262.1 | 2251.8 |
| 67.5° | 2319.7 | 2319.7 | 2377.3 | 2486.3 | 2755.7 | 2932.5 | 2796.8 | 2640.5 | 2539.7 | 2461.6 | 2453.4 |
| 70°   | 2459.5 | 2471.9 | 2515.1 | 2622.0 | 2916.1 | 3076.5 | 2953.1 | 2813.3 | 2722.8 | 2644.6 | 2636.4 |
| 72.5° | 2519.2 | 2535.6 | 2578.8 | 2683.7 | 2986.0 | 3173.1 | 3029.2 | 2868.8 | 2772.1 | 2694.0 | 2683.7 |
| 74°   | 2408.1 | 2426.6 | 2490.4 | 2624.1 | 2965.4 | 3177.3 | 3025.1 | 2813.3 | 2661.1 | 2564.4 | 2564.4 |
| 75°   | 2282.7 | 2307.4 | 2383.5 | 2527.4 | 2922.3 | 3154.6 | 2981.9 | 2724.8 | 2513.0 | 2399.9 | 2406.1 |
| 77.5° | 1760.3 | 1813.8 | 1896.1 | 2122.3 | 2622.0 | 2961.3 | 2650.8 | 2186.0 | 1846.7 | 1678.1 | 1674.0 |
| 80°   | 501.8  | 575.8  | 763.0  | 1266.8 | 1992.7 | 2358.8 | 1947.5 | 1293.5 | 913.1  | 695.1  | 668.4  |
| 82.5° | 121.3  | 141.9  | 195.4  | 357.8  | 851.4  | 1332.6 | 964.5  | 423.6  | 255.0  | 166.6  | 133.7  |
| 85°   | 51.4   | 55.5   | 88.4   | 123.4  | 234.4  | 353.7  | 224.2  | 144.0  | 104.9  | 47.3   | 45.2   |
| 87.5° | 18.5   | 20.6   | 32.9   | 32.9   | 49.4   | 28.8   | 51.4   | 35.0   | 37.0   | 12.3   | 12.3   |
| 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)