

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: P450525

Luminaire Tested: **GALN-SA1B-750-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450525  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1B-750-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5748 lumens  
Efficiency: N/A  
Efficacy: 130.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G2

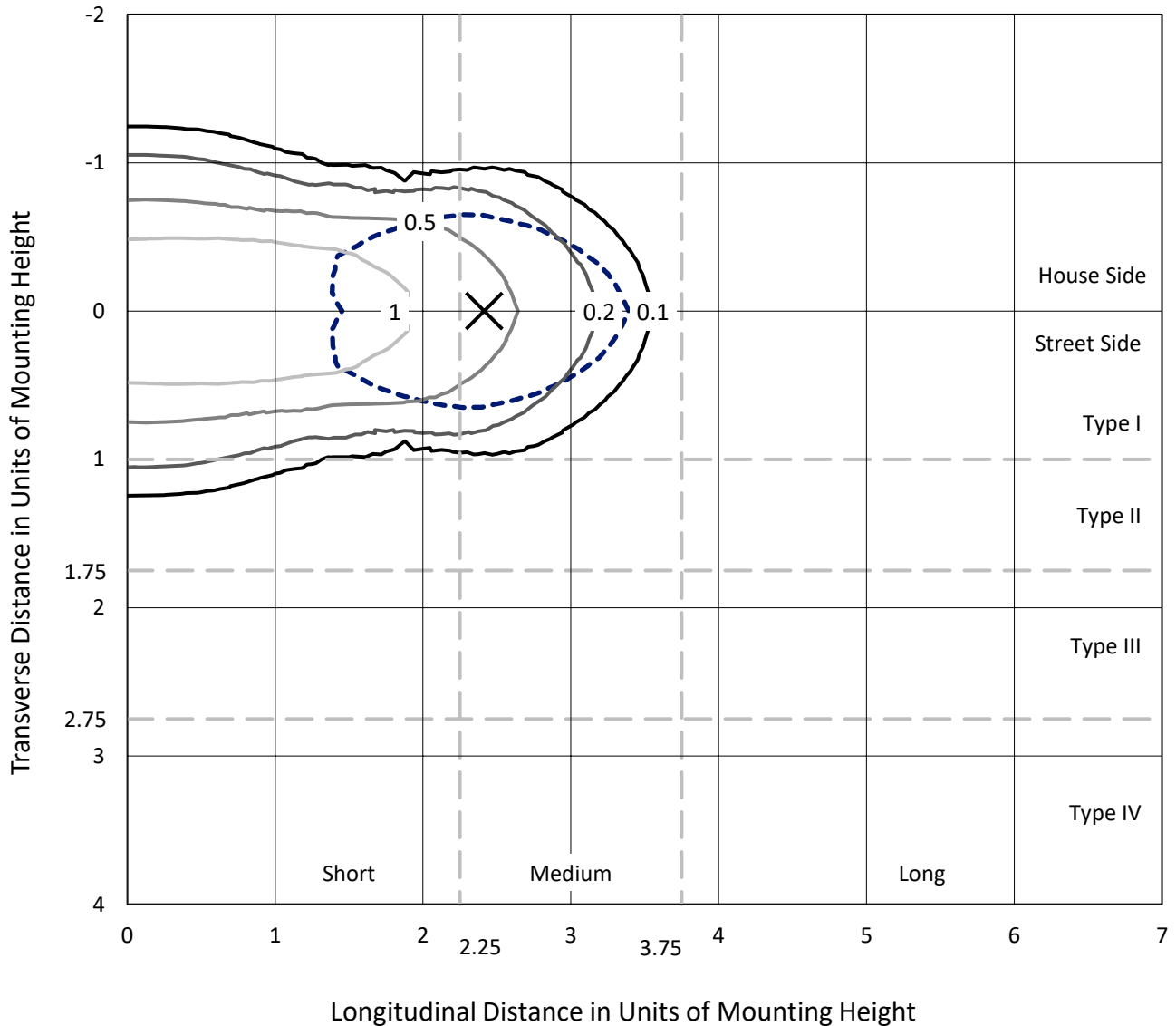
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

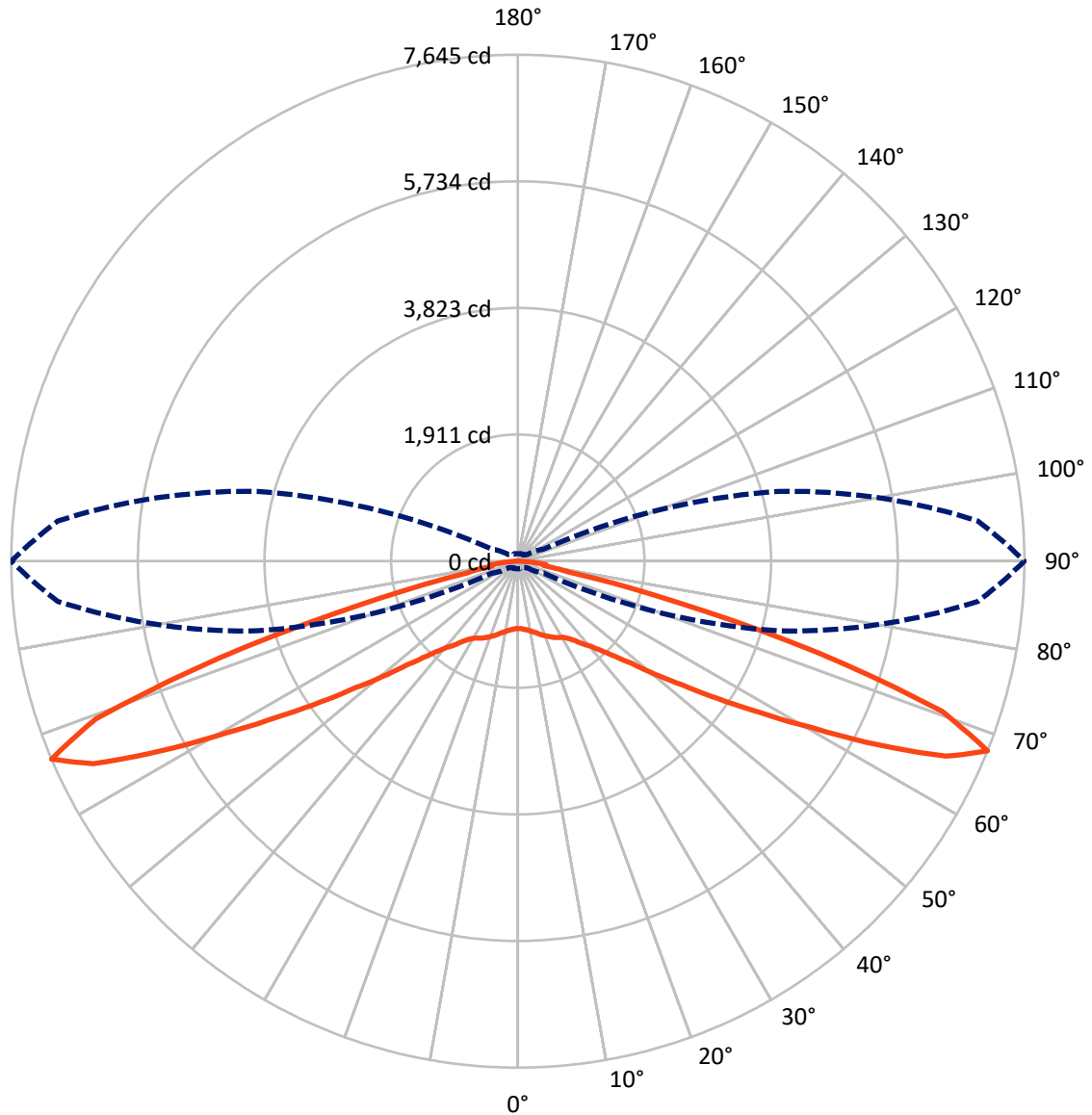
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2874.0   | 0.0    | 2874.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2874.0   | 0.0    | 2874.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5748.0   | 0.0    | 5748.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 101.5  | 1.8       |
| 10°-20°   | 324.6  | 5.6       |
| 20°-30°   | 543.3  | 9.5       |
| 30°-40°   | 736.0  | 12.8      |
| 40°-50°   | 932.3  | 16.2      |
| 50°-60°   | 1164.7 | 20.3      |
| 60°-70°   | 1369.0 | 23.8      |
| 70°-80°   | 523.7  | 9.1       |
| 80°-90°   | 53.1   | 0.9       |
| 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°    | 5748.0 | 100.0     |
| 0°-180°   | 5748.0 | 100.0     |

**Coefficient of Utilization**



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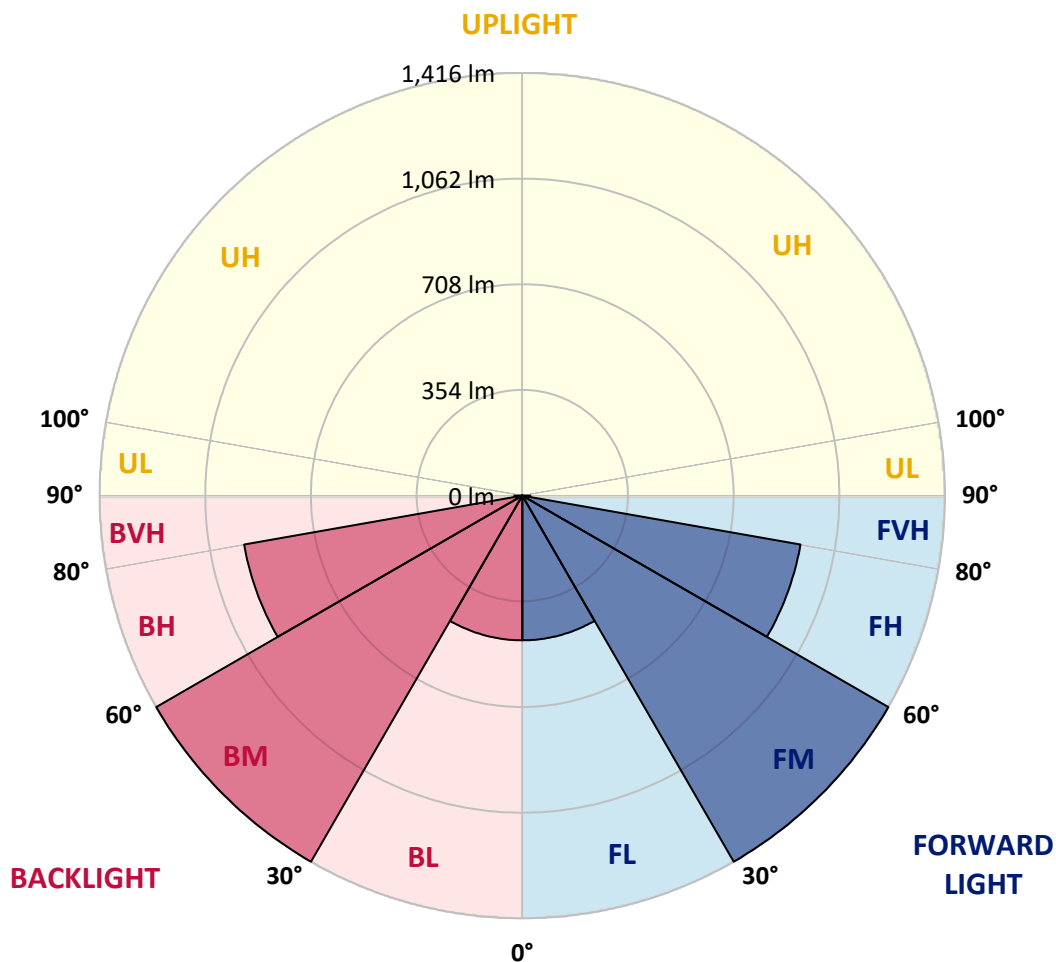
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 484.7  | 8.4       |                         |      |         |
| FM   | (30°-60°)   | 1416.5 | 24.6      |                         |      |         |
| FH   | (60°-80°)   | 946.3  | 16.5      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 26.5   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 484.7  | 8.4       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1416.5 | 24.6      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 946.3  | 16.5      | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 26.5   | 0.5       |                         |      | 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 I Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1017.6 | 1017.6 | 1017.6 | 1017.6 | 1017.6 | 1017.6 | 1017.6 | 1017.6 | 1017.6 | 1017.6 | 1017.6 |
| 2.5°  | 1030.6 | 1030.0 | 1030.3 | 1030.0 | 1030.9 | 1030.3 | 1026.5 | 1023.3 | 1020.8 | 1021.1 | 1020.1 |
| 5°    | 1052.6 | 1052.9 | 1053.2 | 1051.6 | 1053.9 | 1052.6 | 1046.5 | 1041.4 | 1036.4 | 1034.4 | 1033.8 |
| 7.5°  | 1070.7 | 1072.3 | 1073.3 | 1074.9 | 1078.7 | 1078.7 | 1075.5 | 1068.2 | 1057.0 | 1050.7 | 1050.4 |
| 10°   | 1088.9 | 1090.1 | 1093.0 | 1098.1 | 1104.5 | 1110.5 | 1109.2 | 1099.4 | 1085.1 | 1074.2 | 1071.7 |
| 12.5° | 1095.2 | 1096.8 | 1106.4 | 1121.0 | 1135.3 | 1147.1 | 1147.1 | 1139.2 | 1120.7 | 1104.1 | 1099.4 |
| 15°   | 1073.0 | 1075.8 | 1093.0 | 1124.2 | 1161.8 | 1187.5 | 1193.3 | 1182.1 | 1162.4 | 1136.9 | 1131.2 |
| 17.5° | 1028.7 | 1035.7 | 1060.9 | 1107.0 | 1169.4 | 1222.9 | 1239.4 | 1234.0 | 1208.5 | 1176.1 | 1169.4 |
| 20°   | 981.3  | 988.9  | 1015.7 | 1076.8 | 1163.0 | 1243.6 | 1291.6 | 1292.9 | 1261.4 | 1214.3 | 1204.4 |
| 22.5° | 929.1  | 934.8  | 969.2  | 1040.8 | 1143.9 | 1248.3 | 1336.5 | 1358.5 | 1315.8 | 1252.5 | 1238.5 |
| 25°   | 870.5  | 876.9  | 912.9  | 990.2  | 1108.0 | 1242.9 | 1377.6 | 1425.9 | 1372.8 | 1293.2 | 1275.4 |
| 27.5° | 814.5  | 817.1  | 855.6  | 934.2  | 1060.5 | 1228.9 | 1407.8 | 1488.0 | 1435.8 | 1327.0 | 1304.4 |
| 30°   | 760.7  | 766.8  | 800.8  | 878.5  | 1006.1 | 1201.5 | 1433.9 | 1558.7 | 1503.6 | 1362.3 | 1333.3 |
| 32.5° | 703.7  | 711.1  | 748.0  | 826.6  | 951.7  | 1160.5 | 1449.8 | 1636.0 | 1598.1 | 1419.6 | 1388.7 |
| 35°   | 649.0  | 653.8  | 691.0  | 767.4  | 898.5  | 1112.7 | 1452.7 | 1723.2 | 1720.0 | 1506.5 | 1465.4 |
| 37.5° | 593.0  | 600.0  | 637.5  | 710.7  | 842.2  | 1062.1 | 1438.4 | 1815.8 | 1867.1 | 1627.1 | 1582.9 |
| 40°   | 539.2  | 545.2  | 582.2  | 656.0  | 778.2  | 1000.4 | 1404.3 | 1900.5 | 2038.7 | 1751.2 | 1688.5 |
| 42.5° | 480.6  | 482.2  | 522.6  | 597.7  | 715.5  | 928.8  | 1355.3 | 1975.9 | 2229.9 | 1917.7 | 1839.7 |
| 45°   | 414.1  | 418.2  | 455.8  | 529.6  | 643.6  | 848.6  | 1288.8 | 2038.3 | 2472.5 | 2148.5 | 2042.2 |
| 47.5° | 347.6  | 351.1  | 385.4  | 458.3  | 565.0  | 756.6  | 1186.3 | 2093.1 | 2721.4 | 2441.6 | 2302.2 |
| 50°   | 282.6  | 284.6  | 312.6  | 377.2  | 476.5  | 659.8  | 1059.3 | 2110.6 | 3002.8 | 2856.7 | 2678.7 |
| 52.5° | 223.4  | 226.3  | 247.6  | 298.2  | 381.9  | 545.6  | 922.1  | 2067.3 | 3331.2 | 3348.7 | 3097.9 |
| 55°   | 181.1  | 182.1  | 198.0  | 235.2  | 298.6  | 425.9  | 756.6  | 1946.7 | 3684.5 | 3979.3 | 3659.4 |
| 57.5° | 156.0  | 156.6  | 165.5  | 186.2  | 229.8  | 321.2  | 586.9  | 1718.5 | 4001.9 | 4718.0 | 4306.8 |
| 60°   | 141.6  | 142.0  | 147.1  | 159.1  | 182.1  | 246.4  | 420.5  | 1396.3 | 4315.1 | 5540.2 | 5111.4 |
| 62.5° | 132.7  | 132.7  | 136.2  | 142.9  | 154.1  | 189.1  | 304.6  | 1007.4 | 4529.6 | 6374.4 | 6103.2 |
| 65°   | 124.1  | 124.1  | 126.7  | 131.5  | 137.5  | 154.7  | 225.0  | 657.0  | 4524.2 | 6982.0 | 7100.7 |
| 67.5° | 114.3  | 114.3  | 116.2  | 121.0  | 124.5  | 133.0  | 173.8  | 430.3  | 4063.9 | 6968.7 | 7645.0 |
| 70°   | 102.5  | 102.5  | 105.0  | 109.2  | 112.0  | 117.4  | 137.2  | 294.4  | 2985.6 | 5950.1 | 6799.0 |
| 72.5° | 90.7   | 91.0   | 92.6   | 96.8   | 99.0   | 102.2  | 113.9  | 206.3  | 1831.4 | 4051.5 | 4754.0 |
| 75°   | 77.7   | 78.3   | 79.9   | 84.0   | 85.9   | 87.2   | 96.1   | 147.1  | 926.5  | 2184.4 | 2487.1 |
| 77.5° | 62.7   | 64.0   | 64.9   | 69.4   | 70.7   | 72.6   | 79.3   | 106.3  | 406.8  | 784.9  | 791.9  |
| 80°   | 45.8   | 47.4   | 50.3   | 54.4   | 55.4   | 56.7   | 60.5   | 75.4   | 184.3  | 358.4  | 389.3  |
| 82.5° | 33.7   | 36.0   | 32.5   | 37.9   | 37.9   | 36.3   | 42.7   | 50.6   | 84.7   | 354.9  | 424.6  |
| 85°   | 18.5   | 18.8   | 16.9   | 19.4   | 20.7   | 20.4   | 22.6   | 24.8   | 41.1   | 236.8  | 244.1  |
| 87.5° | 4.5    | 4.8    | 5.1    | 6.0    | 7.3    | 7.3    | 8.0    | 7.0    | 13.4   | 76.7   | 43.9   |
| 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)