

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: P528093

Luminaire Tested: **GALN-SA3A-830-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528093  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-830-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7452 lumens  
Efficiency: N/A  
Efficacy: 80.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

Input Watts (W): 93  
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



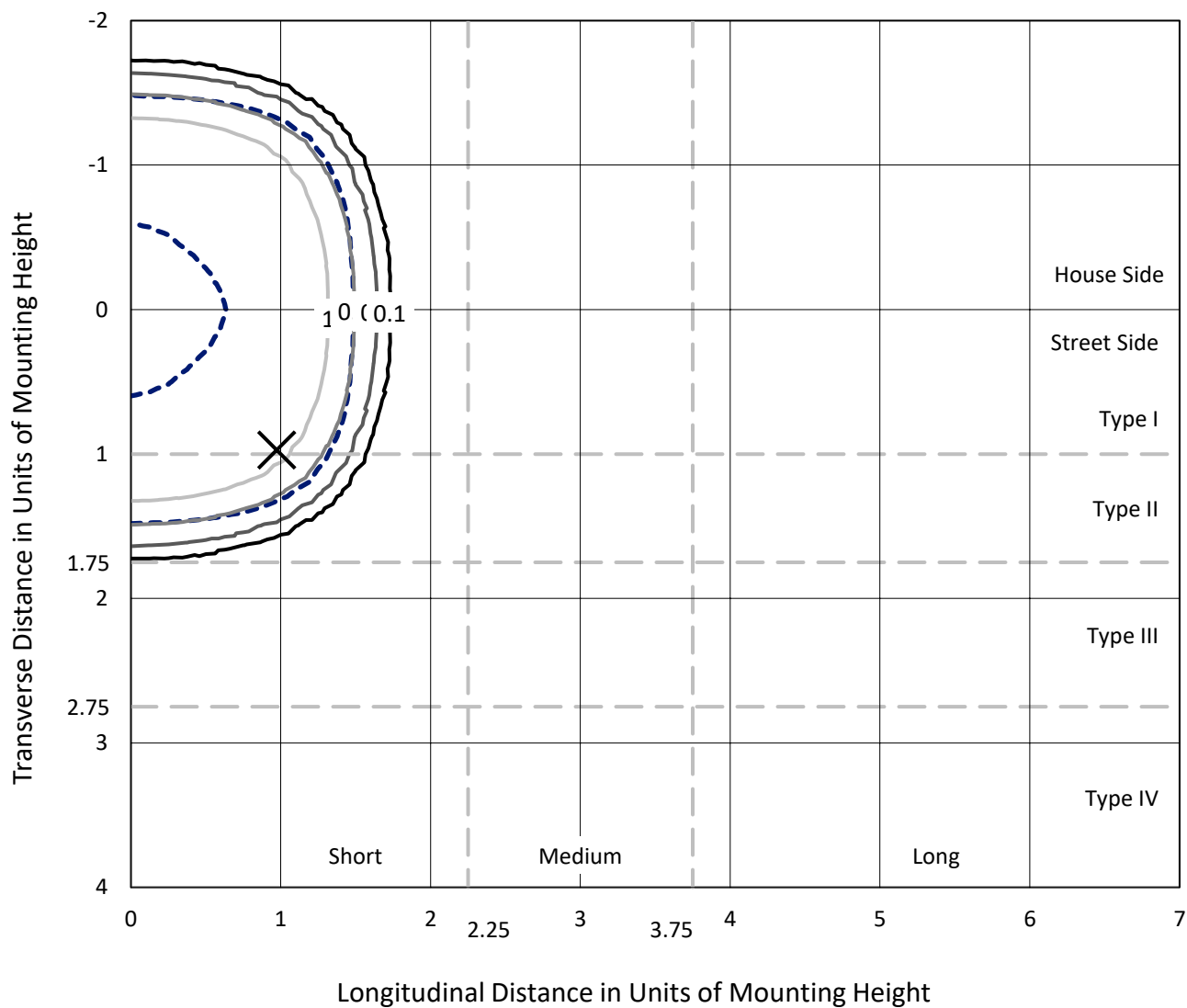
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



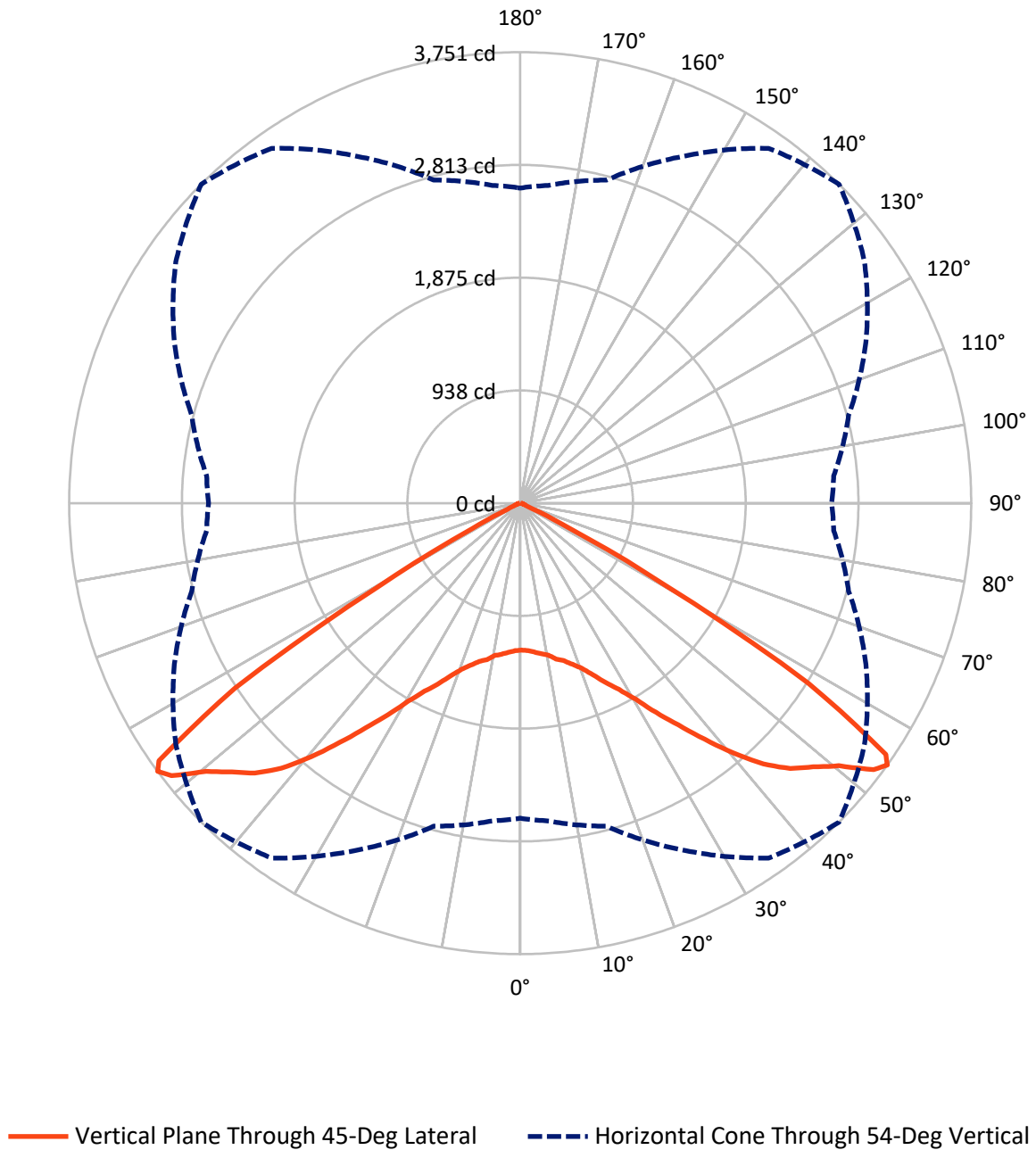
Based on 25 foot mounting height. Maximum calculated value = 2 fc

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    | 3726.0   | 0.0    | 3726.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3726.0   | 0.0    | 3726.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 7452.0   | 0.0    | 7452.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 119.6  | 1.6       |
| 10°-20°   | 387.3  | 5.2       |
| 20°-30°   | 759.1  | 10.2      |
| 30°-40°   | 1365.0 | 18.3      |
| 40°-50°   | 2336.6 | 31.4      |
| 50°-60°   | 2260.8 | 30.3      |
| 60°-70°   | 193.5  | 2.6       |
| 70°-80°   | 22.9   | 0.3       |
| 80°-90°   | 7.2    | 0.1       |
| 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°    | 7452.0 | 100.0     |
| 0°-180°   | 7452.0 | 100.0     |

**Coefficient of Utilization**



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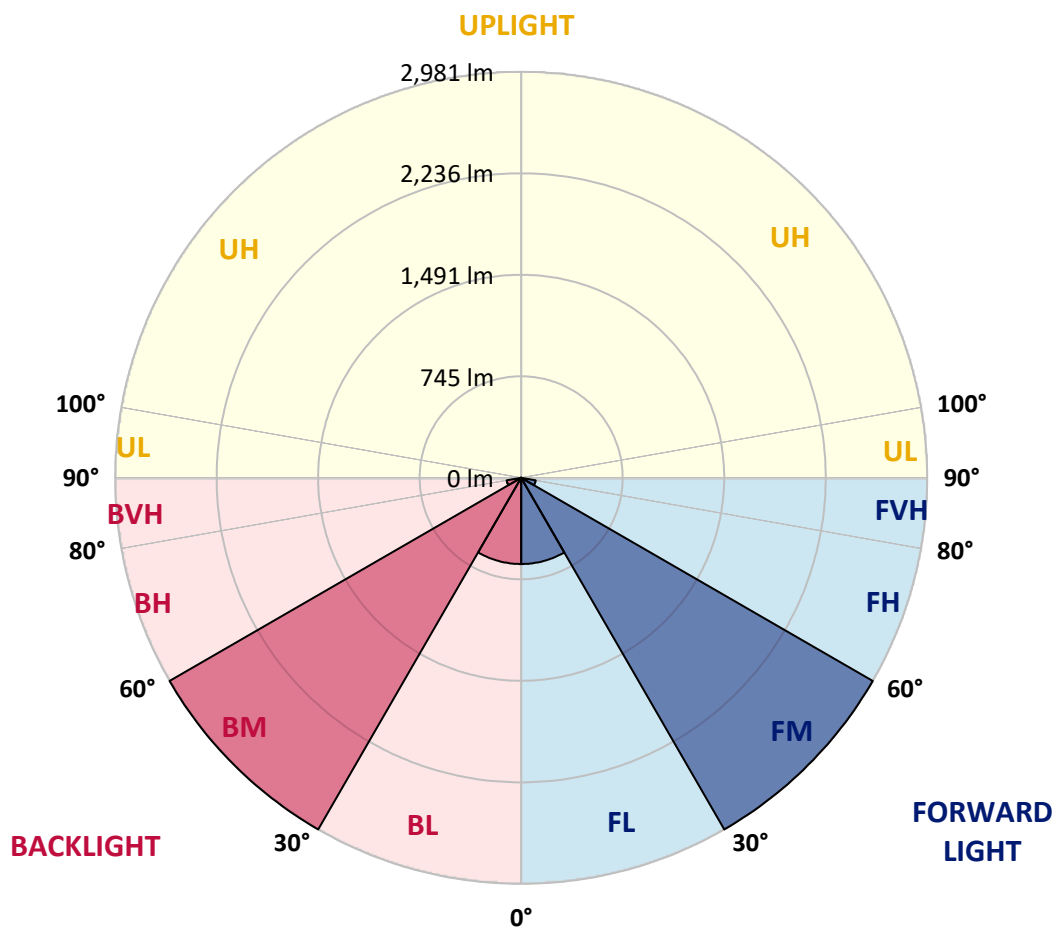
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 633.0  | 8.5       |                         |      |        |
| FM   | (30°-60°)   | 2981.2 | 40.0      |                         |      |        |
| FH   | (60°-80°)   | 108.2  | 1.5       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 3.6    | 0.0       |                         |      | G0/10  |
| BL   | (0°-30°)    | 633.0  | 8.5       | B2/1000                 |      |        |
| BM   | (30°-60°)   | 2981.2 | 40.0      | B3/5000                 |      |        |
| BH   | (60°-80°)   | 108.2  | 1.5       | B0/110                  |      | G0/660 |
| BVH  | (80°-90°)   | 3.6    | 0.0       |                         |      | G0/10  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B3-U0-G0**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1221.9 | 1221.9 | 1221.9 | 1221.9 | 1221.9 | 1221.9 | 1221.9 | 1221.9 | 1221.9 | 1221.9 | 1221.9 |
| 2.5°  | 1227.8 | 1234.9 | 1230.2 | 1233.7 | 1233.7 | 1227.8 | 1231.3 | 1217.2 | 1226.6 | 1219.5 | 1220.7 |
| 5°    | 1246.7 | 1245.5 | 1245.5 | 1246.7 | 1242.0 | 1244.3 | 1239.6 | 1234.9 | 1231.3 | 1226.6 | 1240.8 |
| 7.5°  | 1270.3 | 1270.3 | 1262.0 | 1264.4 | 1262.0 | 1265.6 | 1256.1 | 1246.7 | 1243.1 | 1239.6 | 1237.2 |
| 10°   | 1292.7 | 1290.4 | 1286.8 | 1297.5 | 1289.2 | 1284.5 | 1279.7 | 1273.8 | 1260.9 | 1256.1 | 1251.4 |
| 12.5° | 1325.8 | 1324.6 | 1319.9 | 1330.5 | 1325.8 | 1330.5 | 1312.8 | 1297.5 | 1295.1 | 1279.7 | 1288.0 |
| 15°   | 1364.7 | 1375.4 | 1367.1 | 1367.1 | 1364.7 | 1358.8 | 1351.8 | 1344.7 | 1323.4 | 1317.5 | 1318.7 |
| 17.5° | 1415.5 | 1412.0 | 1413.1 | 1413.1 | 1425.0 | 1409.6 | 1395.4 | 1377.7 | 1367.1 | 1363.6 | 1351.8 |
| 20°   | 1463.9 | 1468.6 | 1467.5 | 1475.7 | 1482.8 | 1466.3 | 1450.9 | 1448.6 | 1419.1 | 1423.8 | 1407.2 |
| 22.5° | 1548.9 | 1545.4 | 1551.3 | 1557.2 | 1552.5 | 1550.1 | 1535.9 | 1518.2 | 1492.2 | 1480.4 | 1478.1 |
| 25°   | 1638.6 | 1632.7 | 1622.1 | 1636.3 | 1643.4 | 1654.0 | 1626.8 | 1617.4 | 1577.2 | 1559.5 | 1560.7 |
| 27.5° | 1715.4 | 1723.6 | 1735.4 | 1741.3 | 1759.1 | 1755.5 | 1736.6 | 1705.9 | 1675.2 | 1655.2 | 1642.2 |
| 30°   | 1820.4 | 1825.2 | 1845.2 | 1853.5 | 1884.2 | 1892.5 | 1862.9 | 1827.5 | 1773.2 | 1747.3 | 1731.9 |
| 32.5° | 1917.3 | 1950.3 | 1949.1 | 1990.5 | 2040.0 | 2074.3 | 2021.1 | 1966.8 | 1912.5 | 1881.8 | 1854.7 |
| 35°   | 2074.3 | 2068.4 | 2102.6 | 2146.3 | 2226.6 | 2265.5 | 2207.7 | 2145.1 | 2062.5 | 2012.9 | 1991.6 |
| 37.5° | 2220.7 | 2223.0 | 2269.1 | 2338.7 | 2430.8 | 2491.0 | 2440.2 | 2337.5 | 2252.5 | 2188.8 | 2159.3 |
| 40°   | 2433.2 | 2437.9 | 2485.1 | 2564.2 | 2668.1 | 2733.0 | 2674.0 | 2570.1 | 2456.8 | 2407.2 | 2407.2 |
| 42.5° | 2682.3 | 2702.3 | 2733.0 | 2801.5 | 2894.8 | 2966.8 | 2913.7 | 2832.2 | 2717.7 | 2653.9 | 2663.4 |
| 45°   | 2938.5 | 2947.9 | 2968.0 | 3069.5 | 3113.2 | 3148.6 | 3099.0 | 3061.2 | 2984.5 | 2906.6 | 2893.6 |
| 47.5° | 3178.1 | 3181.7 | 3240.7 | 3272.6 | 3306.8 | 3277.3 | 3309.2 | 3259.6 | 3173.4 | 3097.8 | 3082.5 |
| 50°   | 3284.4 | 3278.5 | 3362.3 | 3459.1 | 3485.1 | 3433.1 | 3406.0 | 3372.9 | 3241.9 | 3151.0 | 3110.8 |
| 52.5° | 2975.1 | 3009.3 | 3165.1 | 3434.3 | 3637.4 | 3681.0 | 3522.8 | 3370.5 | 3126.2 | 2949.1 | 2921.9 |
| 54°   | 2620.9 | 2652.8 | 2781.4 | 3180.5 | 3603.1 | 3750.7 | 3495.7 | 3172.2 | 2827.5 | 2617.3 | 2590.2 |
| 55°   | 2270.2 | 2234.8 | 2468.6 | 2875.9 | 3442.6 | 3689.3 | 3388.3 | 2916.0 | 2521.7 | 2329.3 | 2291.5 |
| 57.5° | 1229.0 | 1234.9 | 1432.0 | 1816.9 | 2419.0 | 2828.7 | 2498.1 | 1972.7 | 1489.9 | 1273.8 | 1255.0 |
| 60°   | 389.6  | 399.0  | 485.2  | 734.3  | 1155.8 | 1380.1 | 1182.9 | 792.2  | 547.8  | 439.2  | 421.5  |
| 62.5° | 121.6  | 126.3  | 138.1  | 205.4  | 316.4  | 452.2  | 354.2  | 212.5  | 158.2  | 145.2  | 147.6  |
| 65°   | 74.4   | 74.4   | 75.6   | 80.3   | 94.4   | 109.8  | 106.3  | 93.3   | 89.7   | 87.4   | 86.2   |
| 67.5° | 48.4   | 47.2   | 49.6   | 53.1   | 55.5   | 56.7   | 60.2   | 63.8   | 62.6   | 60.2   | 60.2   |
| 70°   | 29.5   | 28.3   | 30.7   | 35.4   | 36.6   | 39.0   | 42.5   | 47.2   | 46.0   | 43.7   | 44.9   |
| 72.5° | 16.5   | 16.5   | 17.7   | 21.3   | 24.8   | 27.2   | 30.7   | 34.2   | 35.4   | 34.2   | 34.2   |
| 75°   | 5.9    | 7.1    | 9.4    | 13.0   | 15.3   | 18.9   | 22.4   | 26.0   | 29.5   | 27.2   | 26.0   |
| 77.5° | 2.4    | 2.4    | 4.7    | 8.3    | 11.8   | 15.3   | 21.3   | 24.8   | 27.2   | 24.8   | 22.4   |
| 80°   | 1.2    | 1.2    | 3.5    | 7.1    | 10.6   | 14.2   | 17.7   | 21.3   | 22.4   | 20.1   | 17.7   |
| 82.5° | 1.2    | 1.2    | 3.5    | 7.1    | 10.6   | 13.0   | 18.9   | 21.3   | 23.6   | 21.3   | 17.7   |
| 85°   | 0.0    | 1.2    | 3.5    | 7.1    | 9.4    | 10.6   | 10.6   | 7.1    | 5.9    | 3.5    | 3.5    |
| 87.5° | 0.0    | 0.0    | 1.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)