

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: P528325

Luminaire Tested: **GALN-SA3B-830-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528325  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3B-830-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8101 lumens  
Efficiency: N/A  
Efficacy: 67.0 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): 121  
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

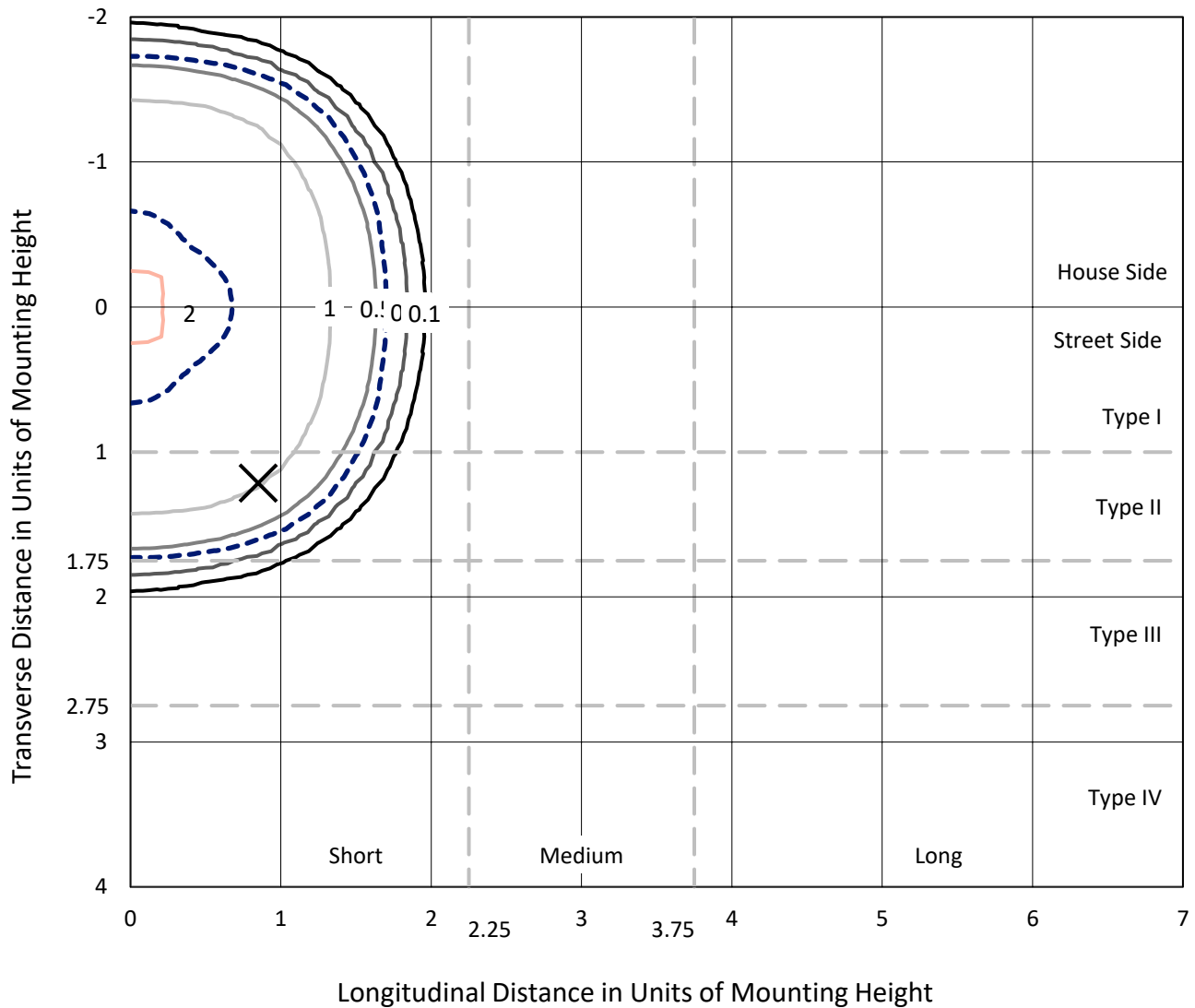


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## Iso-Footcandle Lines of Horizontal Illumination

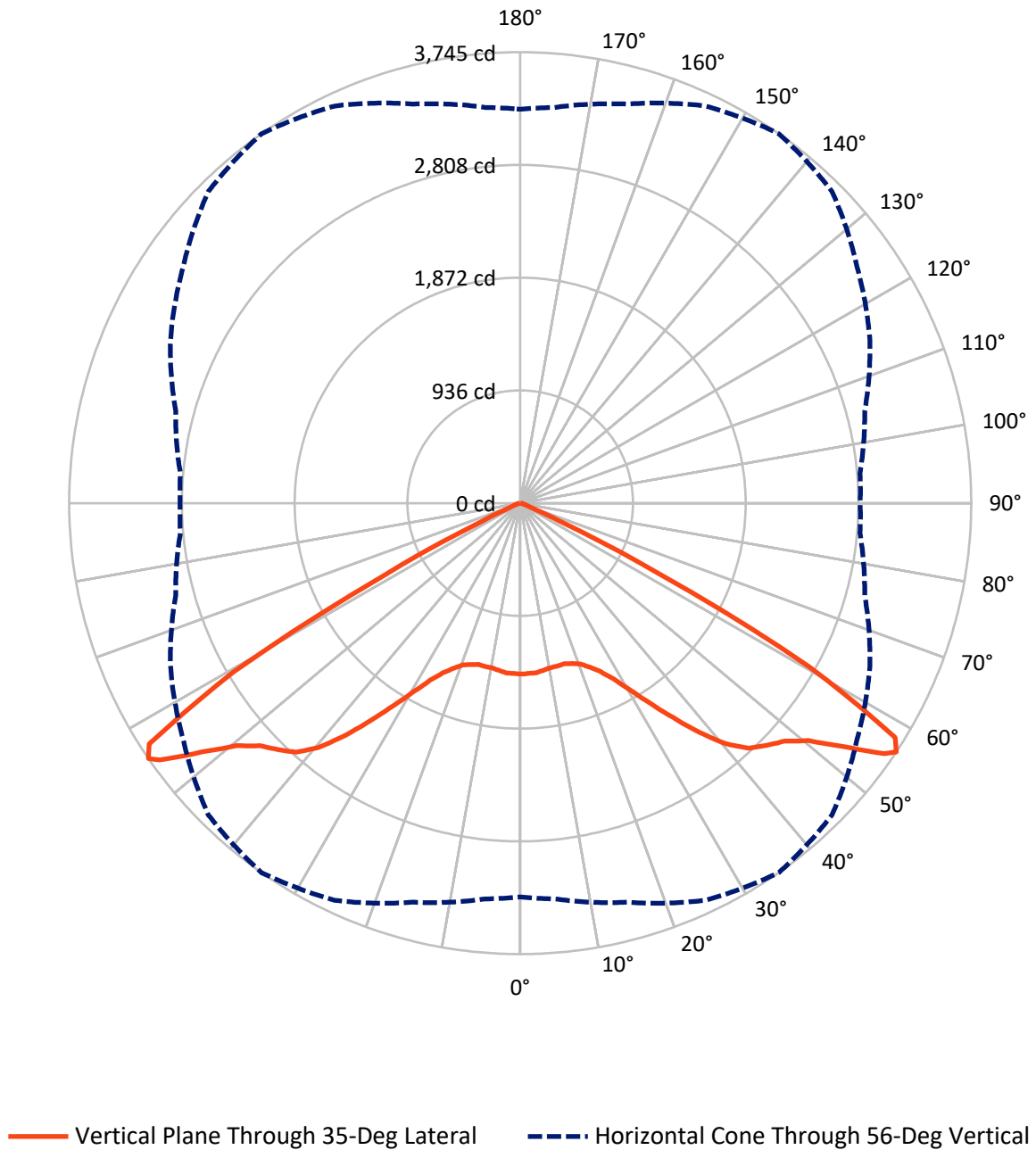
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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    | 4050.5   | 0.0    | 4050.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4050.5   | 0.0    | 4050.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 8101.0   | 0.0    | 8101.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 133.4  | 1.6       |
| 10°-20°   | 389.5  | 4.8       |
| 20°-30°   | 705.3  | 8.7       |
| 30°-40°   | 1307.9 | 16.1      |
| 40°-50°   | 2146.8 | 26.5      |
| 50°-60°   | 2765.7 | 34.1      |
| 60°-70°   | 609.5  | 7.5       |
| 70°-80°   | 35.4   | 0.4       |
| 80°-90°   | 7.4    | 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°    | 8101.0 | 100.0     |
| 0°-180°   | 8101.0 | 100.0     |

**Coefficient of Utilization**



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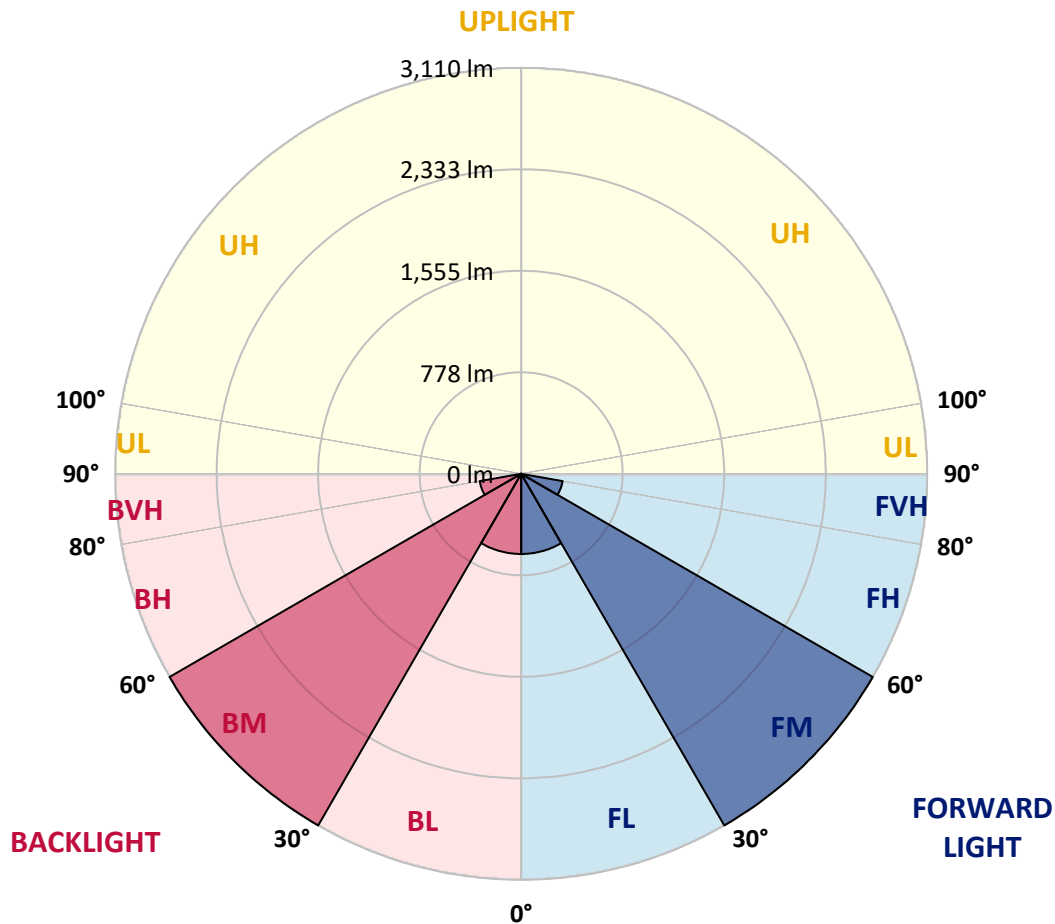
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 614.1  | 7.6       |                         |      |        |
| FM   | (30°-60°)   | 3110.2 | 38.4      |                         |      |        |
| FH   | (60°-80°)   | 322.4  | 4.0       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 3.7    | 0.0       |                         |      | G0/10  |
| BL   | (0°-30°)    | 614.1  | 7.6       | B2/1000                 |      |        |
| BM   | (30°-60°)   | 3110.2 | 38.4      | B3/5000                 |      |        |
| BH   | (60°-80°)   | 322.4  | 4.0       | B1/500                  |      | G0/660 |
| BVH  | (80°-90°)   | 3.7    | 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°    | 1419.5 | 1419.5 | 1419.5 | 1419.5 | 1419.5 | 1419.5 | 1419.5 | 1419.5 | 1419.5 | 1419.5 | 1419.5 |
| 2.5°  | 1422.4 | 1422.4 | 1423.9 | 1425.3 | 1415.1 | 1410.7 | 1412.1 | 1409.2 | 1407.7 | 1412.1 | 1412.1 |
| 5°    | 1418.0 | 1418.0 | 1413.6 | 1415.1 | 1415.1 | 1401.9 | 1401.9 | 1404.8 | 1404.8 | 1396.0 | 1393.0 |
| 7.5°  | 1406.3 | 1403.3 | 1397.5 | 1404.8 | 1400.4 | 1400.4 | 1390.1 | 1382.8 | 1379.8 | 1385.7 | 1379.8 |
| 10°   | 1381.3 | 1382.8 | 1388.6 | 1391.6 | 1388.6 | 1397.5 | 1379.8 | 1369.6 | 1359.3 | 1354.9 | 1354.9 |
| 12.5° | 1369.6 | 1378.4 | 1369.6 | 1376.9 | 1387.2 | 1379.8 | 1369.6 | 1362.2 | 1347.5 | 1341.7 | 1341.7 |
| 15°   | 1368.1 | 1374.0 | 1376.9 | 1387.2 | 1382.8 | 1385.7 | 1365.2 | 1356.3 | 1334.3 | 1324.1 | 1319.7 |
| 17.5° | 1366.6 | 1374.0 | 1378.4 | 1397.5 | 1400.4 | 1401.9 | 1385.7 | 1359.3 | 1340.2 | 1329.9 | 1319.7 |
| 20°   | 1382.8 | 1385.7 | 1394.5 | 1413.6 | 1425.3 | 1445.9 | 1416.5 | 1388.6 | 1347.5 | 1335.8 | 1331.4 |
| 22.5° | 1403.3 | 1418.0 | 1426.8 | 1447.4 | 1478.2 | 1495.8 | 1457.6 | 1422.4 | 1379.8 | 1365.2 | 1347.5 |
| 25°   | 1469.4 | 1466.4 | 1481.1 | 1523.7 | 1548.6 | 1561.9 | 1531.0 | 1479.7 | 1423.9 | 1406.3 | 1409.2 |
| 27.5° | 1551.6 | 1554.5 | 1567.7 | 1614.7 | 1651.4 | 1672.0 | 1635.3 | 1567.7 | 1513.4 | 1484.1 | 1481.1 |
| 30°   | 1658.7 | 1655.8 | 1670.5 | 1733.6 | 1799.7 | 1830.5 | 1765.9 | 1686.6 | 1633.8 | 1595.6 | 1604.4 |
| 32.5° | 1771.8 | 1773.2 | 1814.3 | 1871.6 | 1978.7 | 2038.9 | 1934.7 | 1837.8 | 1758.6 | 1732.1 | 1718.9 |
| 35°   | 1939.1 | 1946.4 | 1978.7 | 2066.8 | 2185.7 | 2263.5 | 2149.0 | 2033.1 | 1942.0 | 1893.6 | 1899.5 |
| 37.5° | 2146.1 | 2138.7 | 2193.1 | 2288.5 | 2413.2 | 2470.5 | 2373.6 | 2241.5 | 2149.0 | 2116.7 | 2137.3 |
| 40°   | 2366.3 | 2373.6 | 2401.5 | 2488.1 | 2627.6 | 2665.7 | 2521.9 | 2449.9 | 2369.2 | 2353.1 | 2378.0 |
| 42.5° | 2586.5 | 2582.1 | 2602.6 | 2680.4 | 2781.7 | 2755.3 | 2670.1 | 2627.6 | 2570.3 | 2538.0 | 2571.8 |
| 45°   | 2747.9 | 2740.6 | 2778.8 | 2831.6 | 2868.3 | 2818.4 | 2780.2 | 2765.5 | 2736.2 | 2701.0 | 2731.8 |
| 47.5° | 2905.0 | 2899.1 | 2935.8 | 2950.5 | 2953.4 | 2887.4 | 2894.7 | 2921.1 | 2847.7 | 2774.4 | 2809.6 |
| 50°   | 3038.6 | 3028.3 | 3073.8 | 3106.1 | 3098.8 | 2993.1 | 3019.5 | 2993.1 | 2878.6 | 2792.0 | 2778.8 |
| 52.5° | 3261.7 | 3266.1 | 3314.5 | 3373.3 | 3355.6 | 3267.6 | 3229.4 | 3109.0 | 2962.2 | 2884.4 | 2838.9 |
| 55°   | 3402.6 | 3380.6 | 3464.3 | 3650.7 | 3671.2 | 3580.2 | 3411.4 | 3233.8 | 3013.6 | 2918.2 | 2906.5 |
| 56°   | 3270.5 | 3298.4 | 3430.5 | 3639.0 | 3744.6 | 3661.0 | 3415.8 | 3203.0 | 2960.8 | 2831.6 | 2822.8 |
| 57.5° | 2934.4 | 2919.7 | 3098.8 | 3383.5 | 3671.2 | 3636.0 | 3295.5 | 2982.8 | 2701.0 | 2555.6 | 2538.0 |
| 60°   | 1826.1 | 1868.7 | 2025.7 | 2378.0 | 2762.6 | 2780.2 | 2442.6 | 2174.0 | 1845.2 | 1716.0 | 1746.8 |
| 62.5° | 714.9  | 678.2  | 776.5  | 1039.3 | 1303.5 | 1362.2 | 1234.5 | 1026.1 | 842.6  | 714.9  | 706.1  |
| 65°   | 165.9  | 161.5  | 182.0  | 251.0  | 350.8  | 406.6  | 386.1  | 277.4  | 204.0  | 193.8  | 179.1  |
| 67.5° | 93.9   | 93.9   | 89.5   | 89.5   | 98.4   | 104.2  | 99.8   | 98.4   | 102.8  | 107.2  | 105.7  |
| 70°   | 66.1   | 64.6   | 61.7   | 63.1   | 60.2   | 60.2   | 64.6   | 71.9   | 77.8   | 77.8   | 79.3   |
| 72.5° | 39.6   | 39.6   | 39.6   | 44.0   | 44.0   | 44.0   | 48.4   | 54.3   | 55.8   | 54.3   | 52.8   |
| 75°   | 17.6   | 17.6   | 20.6   | 25.0   | 27.9   | 29.4   | 33.8   | 36.7   | 39.6   | 36.7   | 33.8   |
| 77.5° | 4.4    | 4.4    | 7.3    | 10.3   | 13.2   | 16.1   | 22.0   | 26.4   | 27.9   | 26.4   | 22.0   |
| 80°   | 1.5    | 1.5    | 2.9    | 7.3    | 13.2   | 16.1   | 22.0   | 23.5   | 25.0   | 22.0   | 17.6   |
| 82.5° | 1.5    | 1.5    | 2.9    | 7.3    | 10.3   | 13.2   | 17.6   | 20.6   | 22.0   | 19.1   | 17.6   |
| 85°   | 0.0    | 1.5    | 2.9    | 5.9    | 8.8    | 11.7   | 11.7   | 8.8    | 7.3    | 4.4    | 5.9    |
| 87.5° | 0.0    | 0.0    | 1.5    | 1.5    | 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)