

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: STREETWORKS

Report Number: P451438

Luminaire Tested: **GLAN-SA2B-750-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451438
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2B-750-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11942 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

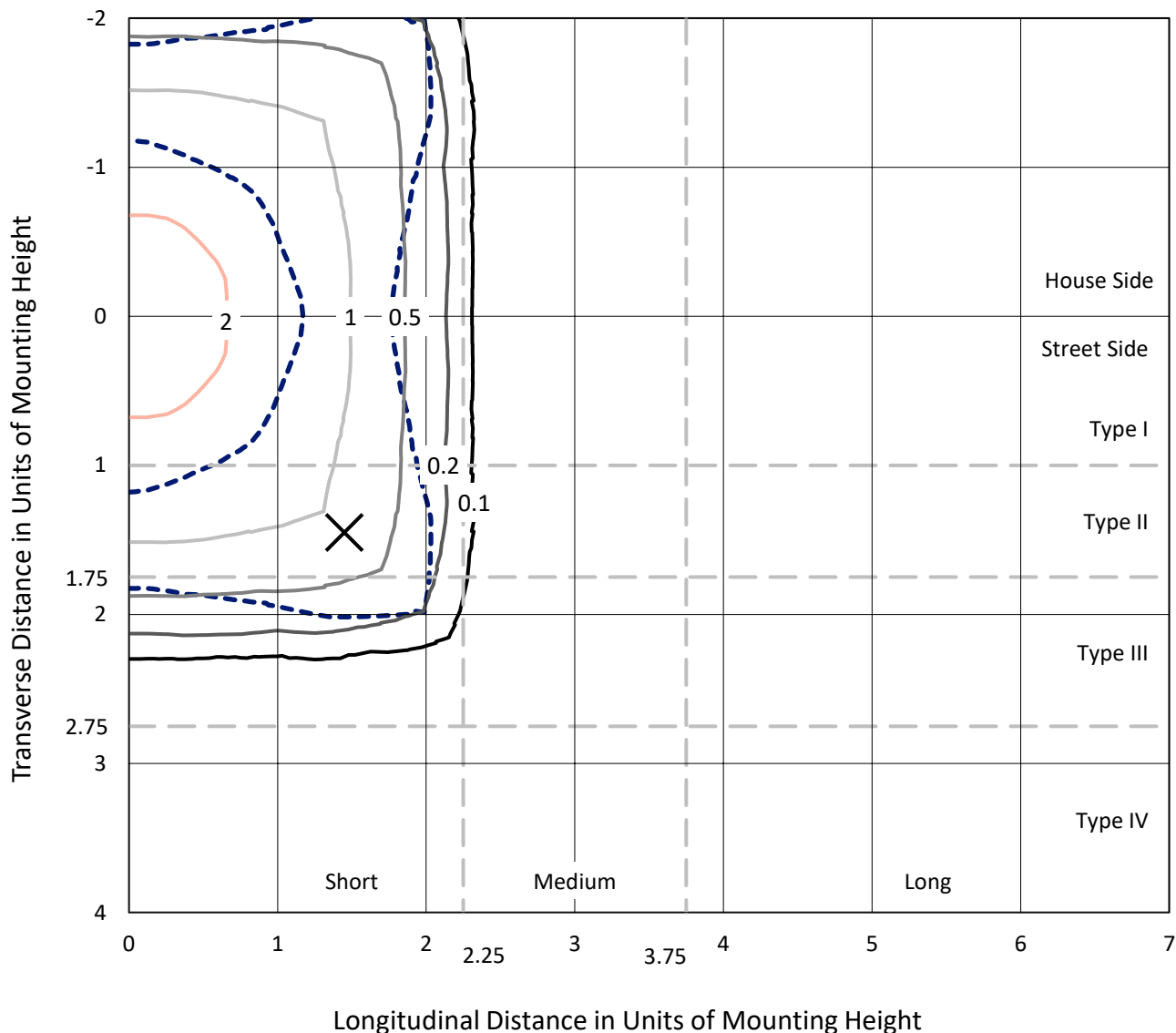
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

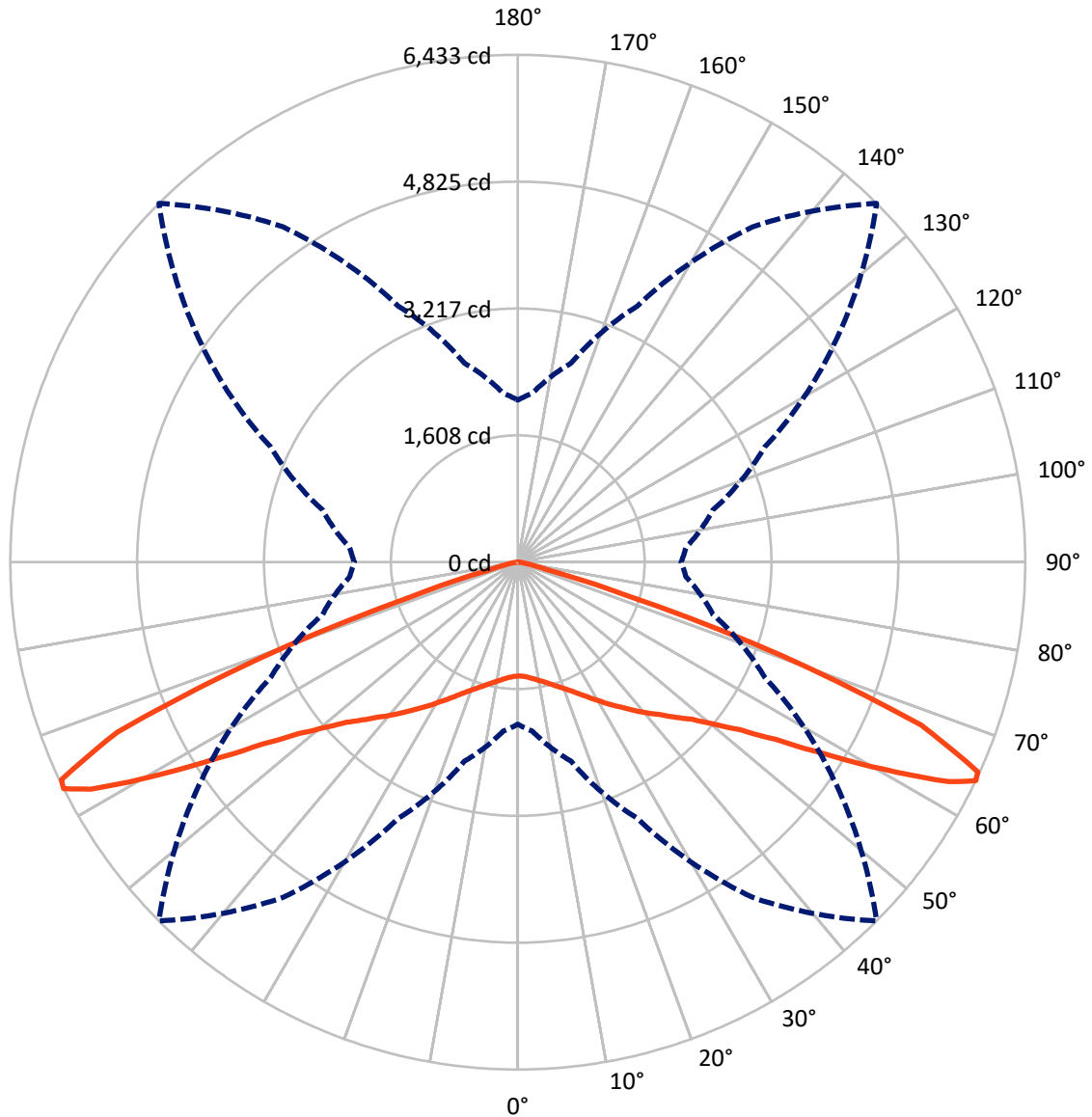
× Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5971.0 | 0.0 | 5971.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5971.0 | 0.0 | 5971.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 11942.0 | 0.0 | 11942.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 141.8 | 1.2 |
| 10°-20° | 457.4 | 3.8 |
| 20°-30° | 864.4 | 7.2 |
| 30°-40° | 1431.5 | 12.0 |
| 40°-50° | 2234.8 | 18.7 |
| 50°-60° | 3454.9 | 28.9 |
| 60°-70° | 2979.1 | 24.9 |
| 70°-80° | 337.6 | 2.8 |
| 80°-90° | 40.5 | 0.3 |
| 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° | 11942.0 | 100.0 |
| 0°-180° | 11942.0 | 100.0 |

Coefficient of Utilization



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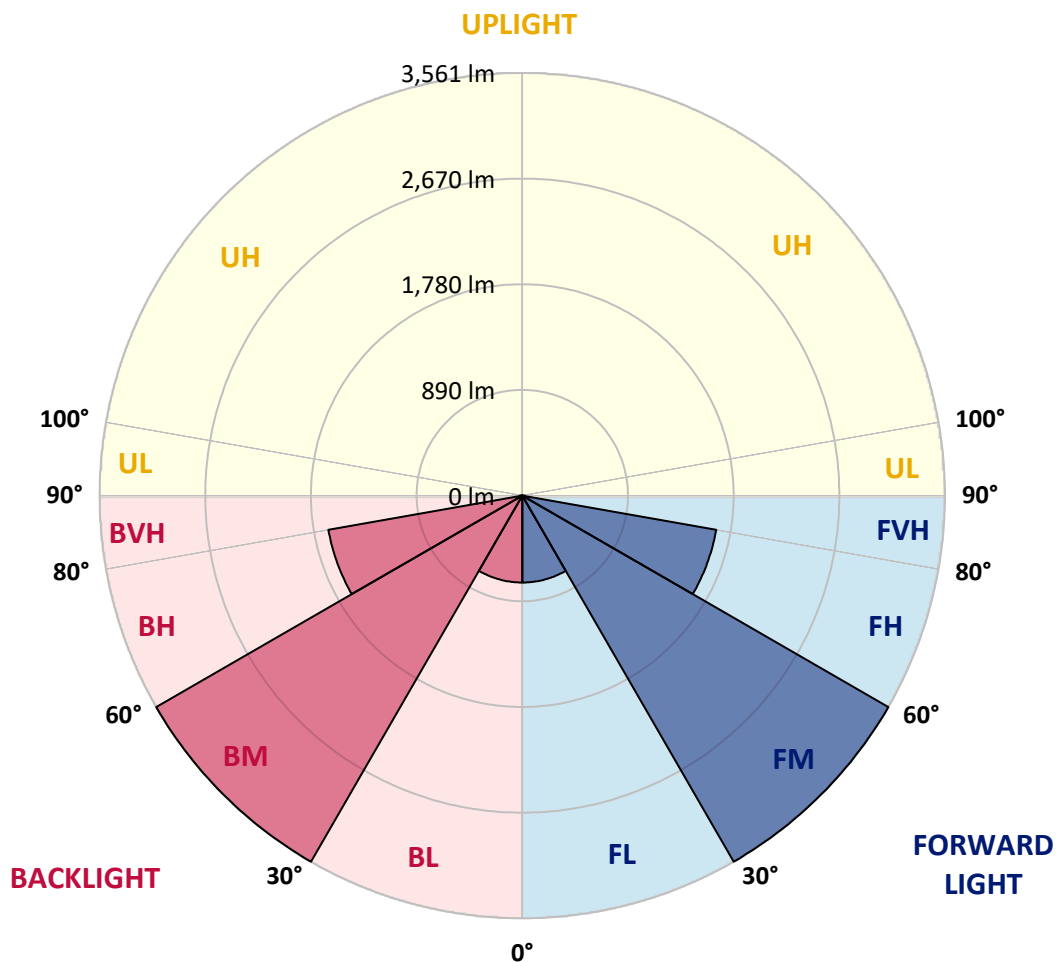
CATALOG NUMBER: GLAN-SA2B-750-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 731.8 | 6.1 | | | |
| FM | (30°-60°) | 3560.6 | 29.8 | | | |
| FH | (60°-80°) | 1658.4 | 13.9 | | | G1/1800 |
| FVH | (80°-90°) | 20.2 | 0.2 | | | G1/100 |
| BL | (0°-30°) | 731.8 | 6.1 | B2/1000 | | |
| BM | (30°-60°) | 3560.6 | 29.8 | B3/5000 | | |
| BH | (60°-80°) | 1658.4 | 13.9 | B3/2500 | | G1/1800 |
| BVH | (80°-90°) | 20.2 | 0.2 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1443.4 | 1443.4 | 1443.4 | 1443.4 | 1443.4 | 1443.4 | 1443.4 | 1443.4 | 1443.4 | 1443.4 | 1443.4 |
| 2.5° | 1449.1 | 1452.2 | 1449.7 | 1449.1 | 1448.5 | 1448.5 | 1448.5 | 1449.1 | 1451.6 | 1453.5 | 1452.2 |
| 5° | 1467.4 | 1470.0 | 1468.7 | 1468.1 | 1467.4 | 1468.1 | 1466.8 | 1466.2 | 1468.1 | 1468.1 | 1467.4 |
| 7.5° | 1490.2 | 1493.4 | 1492.1 | 1493.4 | 1494.0 | 1494.6 | 1491.5 | 1488.9 | 1488.3 | 1490.2 | 1488.9 |
| 10° | 1521.2 | 1523.7 | 1524.4 | 1525.0 | 1526.3 | 1525.6 | 1521.8 | 1517.4 | 1516.8 | 1516.1 | 1515.5 |
| 12.5° | 1556.0 | 1557.9 | 1558.5 | 1561.0 | 1562.9 | 1563.6 | 1559.1 | 1555.3 | 1549.0 | 1550.3 | 1547.8 |
| 15° | 1595.2 | 1599.0 | 1598.4 | 1602.2 | 1607.2 | 1608.5 | 1604.0 | 1597.7 | 1592.0 | 1588.9 | 1587.0 |
| 17.5° | 1643.3 | 1645.8 | 1644.5 | 1648.3 | 1654.7 | 1657.8 | 1654.0 | 1645.8 | 1640.1 | 1633.1 | 1629.3 |
| 20° | 1700.2 | 1704.6 | 1705.9 | 1705.9 | 1711.6 | 1714.7 | 1709.0 | 1706.5 | 1697.7 | 1692.6 | 1689.4 |
| 22.5° | 1764.7 | 1766.6 | 1770.4 | 1774.2 | 1779.9 | 1778.6 | 1776.7 | 1772.9 | 1764.7 | 1760.3 | 1755.2 |
| 25° | 1837.4 | 1839.3 | 1848.8 | 1857.1 | 1859.0 | 1857.7 | 1855.2 | 1853.3 | 1845.7 | 1835.5 | 1831.8 |
| 27.5° | 1922.2 | 1926.0 | 1938.6 | 1946.2 | 1946.2 | 1946.9 | 1941.8 | 1948.1 | 1931.7 | 1919.7 | 1918.4 |
| 30° | 2028.5 | 2031.0 | 2041.7 | 2049.3 | 2045.5 | 2042.4 | 2041.1 | 2047.4 | 2029.7 | 2008.2 | 2003.2 |
| 32.5° | 2133.5 | 2142.3 | 2151.8 | 2168.2 | 2155.0 | 2149.3 | 2148.0 | 2152.4 | 2132.2 | 2108.2 | 2101.2 |
| 35° | 2246.0 | 2252.4 | 2270.1 | 2284.0 | 2272.0 | 2258.7 | 2264.4 | 2278.3 | 2254.3 | 2222.0 | 2220.7 |
| 37.5° | 2370.7 | 2376.3 | 2399.1 | 2413.7 | 2404.8 | 2382.0 | 2391.5 | 2408.0 | 2383.9 | 2344.1 | 2335.9 |
| 40° | 2500.3 | 2512.3 | 2540.8 | 2556.0 | 2541.4 | 2511.1 | 2528.8 | 2546.5 | 2525.0 | 2478.8 | 2460.5 |
| 42.5° | 2645.8 | 2664.8 | 2705.9 | 2713.5 | 2685.6 | 2644.5 | 2675.5 | 2704.0 | 2688.8 | 2635.7 | 2628.7 |
| 45° | 2815.9 | 2827.3 | 2877.9 | 2894.4 | 2855.8 | 2804.6 | 2843.1 | 2895.0 | 2883.6 | 2822.3 | 2809.0 |
| 47.5° | 3006.3 | 3017.1 | 3069.6 | 3094.2 | 3045.5 | 2976.6 | 3046.2 | 3113.9 | 3106.9 | 3041.1 | 3034.8 |
| 50° | 3231.5 | 3234.0 | 3306.8 | 3334.6 | 3285.9 | 3226.4 | 3288.4 | 3372.6 | 3344.7 | 3260.6 | 3259.3 |
| 52.5° | 3478.2 | 3481.3 | 3573.1 | 3626.8 | 3599.6 | 3532.6 | 3605.9 | 3657.2 | 3586.3 | 3476.3 | 3468.1 |
| 55° | 3692.0 | 3707.8 | 3833.0 | 3976.0 | 4013.3 | 3964.6 | 3986.7 | 3962.7 | 3788.1 | 3633.8 | 3609.7 |
| 57.5° | 3779.3 | 3810.2 | 4000.6 | 4267.6 | 4510.4 | 4582.5 | 4411.8 | 4182.8 | 3868.4 | 3650.2 | 3626.8 |
| 60° | 3566.1 | 3599.6 | 3895.0 | 4401.6 | 5021.5 | 5334.6 | 4854.5 | 4220.1 | 3685.6 | 3378.9 | 3342.2 |
| 62.5° | 2855.8 | 2865.3 | 3299.8 | 4086.0 | 5319.4 | 6130.3 | 5041.1 | 3902.0 | 3153.7 | 2736.9 | 2722.3 |
| 64° | 2055.0 | 2152.4 | 2612.9 | 3582.5 | 5189.1 | 6433.3 | 4933.6 | 3456.0 | 2561.7 | 2139.8 | 2071.5 |
| 65° | 1537.0 | 1563.6 | 2106.3 | 3059.5 | 4959.5 | 6410.5 | 4724.9 | 3029.7 | 2121.4 | 1637.6 | 1561.7 |
| 67.5° | 580.6 | 583.8 | 777.4 | 1525.0 | 3530.7 | 5515.5 | 3605.9 | 1648.3 | 893.7 | 646.4 | 623.0 |
| 70° | 241.0 | 245.4 | 285.3 | 513.0 | 1517.4 | 3541.4 | 1738.8 | 594.6 | 327.0 | 265.0 | 261.2 |
| 72.5° | 176.5 | 179.0 | 191.0 | 227.7 | 466.8 | 1454.1 | 571.8 | 252.4 | 191.7 | 171.4 | 169.5 |
| 75° | 138.5 | 139.8 | 148.6 | 167.6 | 217.6 | 402.9 | 237.8 | 173.3 | 146.1 | 131.6 | 130.3 |
| 77.5° | 105.6 | 108.8 | 115.1 | 127.8 | 146.1 | 191.0 | 157.5 | 129.7 | 112.6 | 100.6 | 98.7 |
| 80° | 72.7 | 76.5 | 88.6 | 93.6 | 98.0 | 124.0 | 107.5 | 98.0 | 87.9 | 73.4 | 68.9 |
| 82.5° | 44.9 | 47.4 | 59.5 | 63.9 | 62.0 | 69.6 | 68.9 | 70.2 | 62.6 | 45.5 | 42.4 |
| 85° | 23.4 | 24.7 | 32.3 | 33.5 | 31.0 | 28.5 | 35.4 | 41.1 | 38.6 | 25.9 | 25.3 |
| 87.5° | 5.1 | 5.7 | 7.0 | 6.3 | 7.0 | 7.0 | 8.9 | 13.3 | 13.9 | 8.9 | 8.2 |
| 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)