

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: P453091

Luminaire Tested: **GLAN-SA4A-760-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453091
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-SA4A-760-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18880 lumens
Efficiency: N/A
Efficacy: 156.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

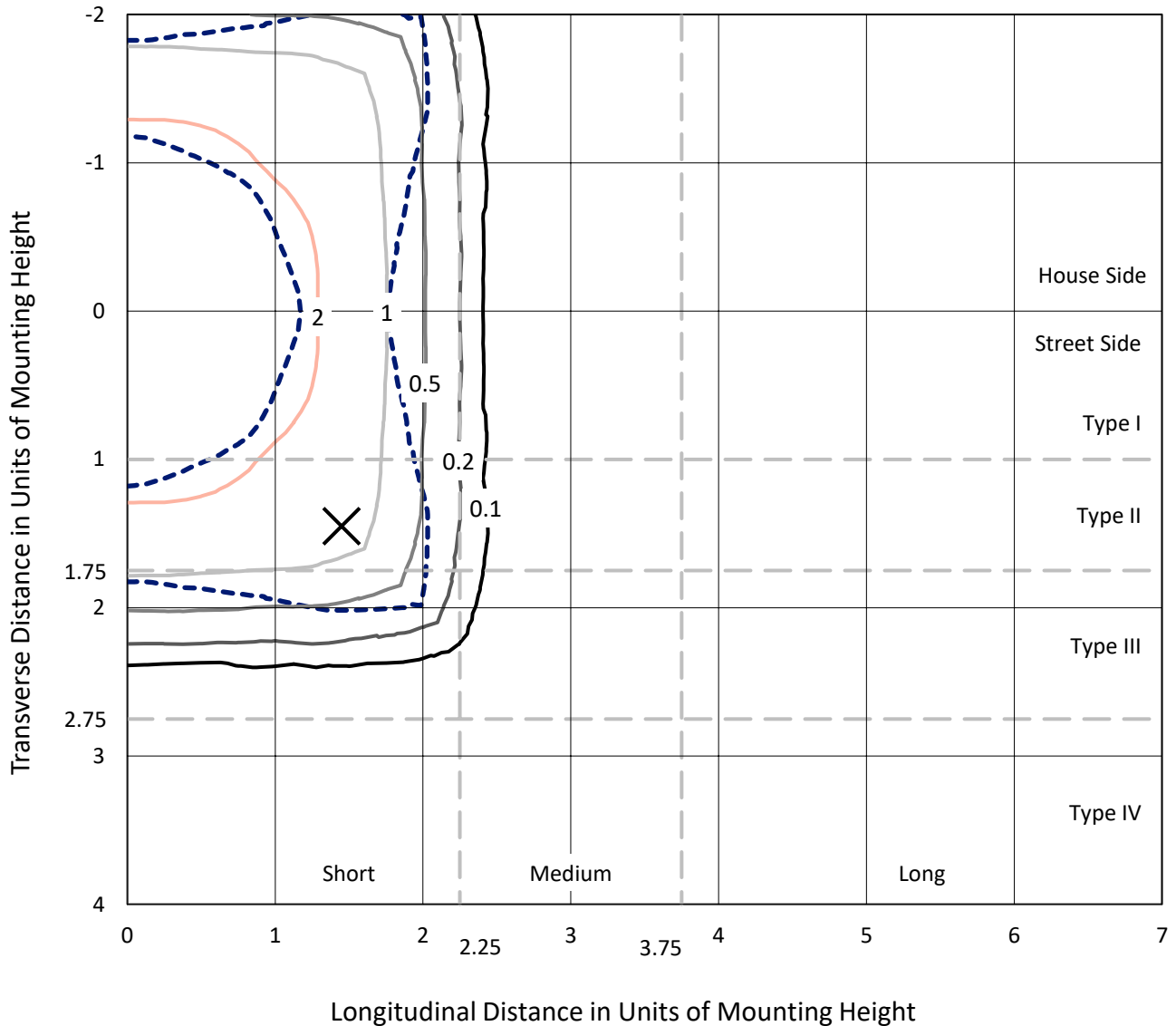
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

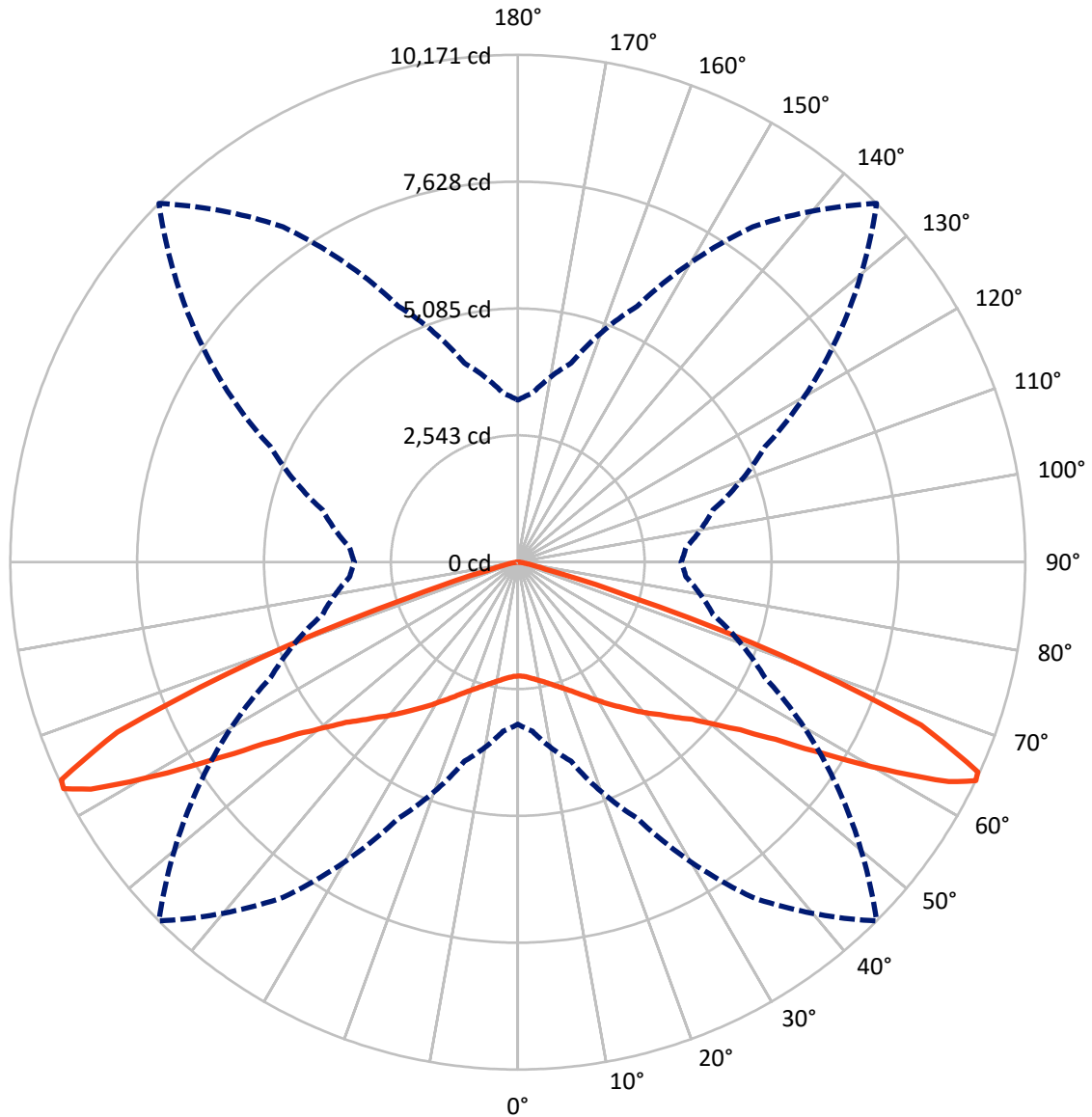
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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 | 9440.0 | 0.0 | 9440.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9440.0 | 0.0 | 9440.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 18880.0 | 0.0 | 18880.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 224.2 | 1.2 |
| 10°-20° | 723.2 | 3.8 |
| 20°-30° | 1366.6 | 7.2 |
| 30°-40° | 2263.1 | 12.0 |
| 40°-50° | 3533.1 | 18.7 |
| 50°-60° | 5462.2 | 28.9 |
| 60°-70° | 4710.0 | 24.9 |
| 70°-80° | 533.8 | 2.8 |
| 80°-90° | 63.9 | 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° | 18880.0 | 100.0 |
| 0°-180° | 18880.0 | 100.0 |

Coefficient of Utilization



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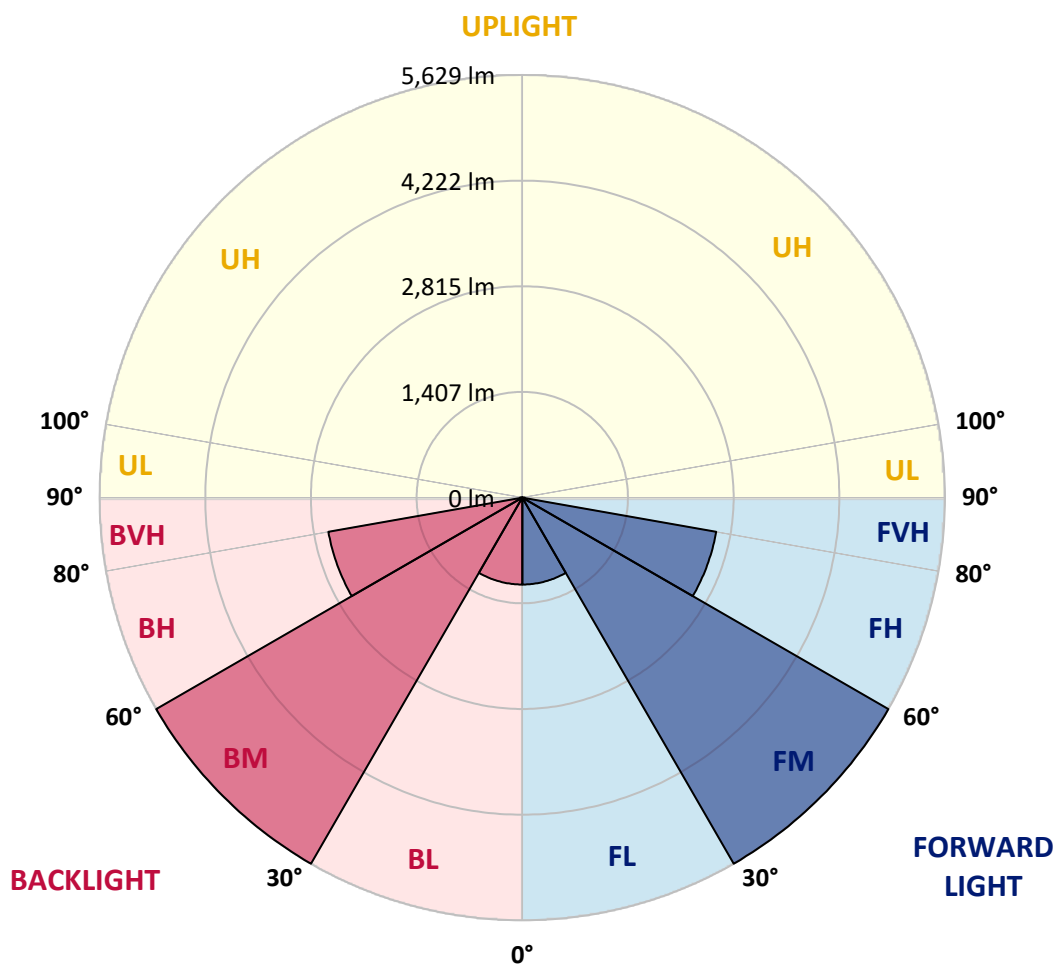
CATALOG NUMBER: GLAN-SA4A-760-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1157.0 | 6.1 | | | |
| FM | (30°-60°) | 5629.2 | 29.8 | | | |
| FH | (60°-80°) | 2621.9 | 13.9 | | | G2/5000 |
| FVH | (80°-90°) | 32.0 | 0.2 | | | G1/100 |
| BL | (0°-30°) | 1157.0 | 6.1 | B3/2500 | | |
| BM | (30°-60°) | 5629.2 | 29.8 | B4/8500 | | |
| BH | (60°-80°) | 2621.9 | 13.9 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 32.0 | 0.2 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| 0° | 2282.0 | 2282.0 | 2282.0 | 2282.0 | 2282.0 | 2282.0 | 2282.0 | 2282.0 | 2282.0 | 2282.0 | 2282.0 |
| 2.5° | 2291.0 | 2296.0 | 2292.0 | 2291.0 | 2290.0 | 2290.0 | 2290.0 | 2291.0 | 2295.0 | 2298.0 | 2296.0 |
| 5° | 2320.0 | 2324.0 | 2322.0 | 2321.0 | 2320.0 | 2321.0 | 2319.0 | 2318.0 | 2321.0 | 2321.0 | 2320.0 |
| 7.5° | 2356.0 | 2361.0 | 2359.0 | 2361.0 | 2362.0 | 2363.0 | 2358.0 | 2354.0 | 2353.0 | 2356.0 | 2354.0 |
| 10° | 2405.0 | 2409.0 | 2410.0 | 2411.0 | 2413.0 | 2412.0 | 2406.0 | 2399.0 | 2398.0 | 2397.0 | 2396.0 |
| 12.5° | 2460.0 | 2463.0 | 2464.0 | 2468.0 | 2471.0 | 2472.0 | 2465.0 | 2459.0 | 2449.0 | 2451.0 | 2447.0 |
| 15° | 2522.0 | 2528.0 | 2527.0 | 2533.0 | 2541.0 | 2543.0 | 2536.0 | 2526.0 | 2517.0 | 2512.0 | 2509.0 |
| 17.5° | 2598.0 | 2602.0 | 2600.0 | 2606.0 | 2616.0 | 2621.0 | 2615.0 | 2602.0 | 2593.0 | 2582.0 | 2576.0 |
| 20° | 2688.0 | 2695.0 | 2697.0 | 2697.0 | 2706.0 | 2711.0 | 2702.0 | 2698.0 | 2684.0 | 2676.0 | 2671.0 |
| 22.5° | 2790.0 | 2793.0 | 2799.0 | 2805.0 | 2814.0 | 2812.0 | 2809.0 | 2803.0 | 2790.0 | 2783.0 | 2775.0 |
| 25° | 2905.0 | 2908.0 | 2923.0 | 2936.0 | 2939.0 | 2937.0 | 2933.0 | 2930.0 | 2918.0 | 2902.0 | 2896.0 |
| 27.5° | 3039.0 | 3045.0 | 3065.0 | 3077.0 | 3077.0 | 3078.0 | 3070.0 | 3080.0 | 3054.0 | 3035.0 | 3033.0 |
| 30° | 3207.0 | 3211.0 | 3228.0 | 3240.0 | 3234.0 | 3229.0 | 3227.0 | 3237.0 | 3209.0 | 3175.0 | 3167.0 |
| 32.5° | 3372.9 | 3386.9 | 3401.9 | 3427.9 | 3406.9 | 3397.9 | 3395.9 | 3402.9 | 3370.9 | 3332.9 | 3321.9 |
| 35° | 3550.9 | 3560.9 | 3588.9 | 3610.9 | 3591.9 | 3570.9 | 3579.9 | 3601.9 | 3563.9 | 3512.9 | 3510.9 |
| 37.5° | 3747.9 | 3756.9 | 3792.9 | 3815.9 | 3801.9 | 3765.9 | 3780.9 | 3806.9 | 3768.9 | 3705.9 | 3692.9 |
| 40° | 3952.9 | 3971.9 | 4016.9 | 4040.9 | 4017.9 | 3969.9 | 3997.9 | 4025.9 | 3991.9 | 3918.9 | 3889.9 |
| 42.5° | 4182.9 | 4212.9 | 4277.9 | 4289.9 | 4245.9 | 4180.9 | 4229.9 | 4274.9 | 4250.9 | 4166.9 | 4155.9 |
| 45° | 4451.9 | 4469.9 | 4549.9 | 4575.9 | 4514.9 | 4433.9 | 4494.9 | 4576.9 | 4558.9 | 4461.9 | 4440.9 |
| 47.5° | 4752.9 | 4769.9 | 4852.9 | 4891.9 | 4814.9 | 4705.9 | 4815.9 | 4922.9 | 4911.9 | 4807.9 | 4797.9 |
| 50° | 5108.9 | 5112.9 | 5227.9 | 5271.9 | 5194.9 | 5100.9 | 5198.9 | 5331.9 | 5287.9 | 5154.9 | 5152.9 |
| 52.5° | 5498.9 | 5503.9 | 5648.9 | 5733.9 | 5690.9 | 5584.9 | 5700.9 | 5781.9 | 5669.9 | 5495.9 | 5482.9 |
| 55° | 5836.9 | 5861.9 | 6059.9 | 6285.9 | 6344.9 | 6267.9 | 6302.9 | 6264.9 | 5988.9 | 5744.9 | 5706.9 |
| 57.5° | 5974.9 | 6023.9 | 6324.9 | 6746.9 | 7130.9 | 7244.9 | 6974.9 | 6612.9 | 6115.9 | 5770.9 | 5733.9 |
| 60° | 5637.9 | 5690.9 | 6157.9 | 6958.9 | 7938.9 | 8433.9 | 7674.9 | 6671.9 | 5826.9 | 5341.9 | 5283.9 |
| 62.5° | 4514.9 | 4529.9 | 5216.9 | 6459.9 | 8409.9 | 9691.9 | 7969.9 | 6168.9 | 4985.9 | 4326.9 | 4303.9 |
| 64° | 3249.0 | 3402.9 | 4130.9 | 5663.9 | 8203.9 | 10170.8 | 7799.9 | 5463.9 | 4049.9 | 3382.9 | 3275.0 |
| 65° | 2430.0 | 2472.0 | 3329.9 | 4836.9 | 7840.9 | 10134.8 | 7469.9 | 4789.9 | 3353.9 | 2589.0 | 2469.0 |
| 67.5° | 918.0 | 923.0 | 1229.0 | 2411.0 | 5581.9 | 8719.9 | 5700.9 | 2606.0 | 1413.0 | 1022.0 | 985.0 |
| 70° | 381.0 | 388.0 | 451.0 | 811.0 | 2399.0 | 5598.9 | 2749.0 | 940.0 | 517.0 | 419.0 | 413.0 |
| 72.5° | 279.0 | 283.0 | 302.0 | 360.0 | 738.0 | 2299.0 | 904.0 | 399.0 | 303.0 | 271.0 | 268.0 |
| 75° | 219.0 | 221.0 | 235.0 | 265.0 | 344.0 | 637.0 | 376.0 | 274.0 | 231.0 | 208.0 | 206.0 |
| 77.5° | 167.0 | 172.0 | 182.0 | 202.0 | 231.0 | 302.0 | 249.0 | 205.0 | 178.0 | 159.0 | 156.0 |
| 80° | 115.0 | 121.0 | 140.0 | 148.0 | 155.0 | 196.0 | 170.0 | 155.0 | 139.0 | 116.0 | 109.0 |
| 82.5° | 71.0 | 75.0 | 94.0 | 101.0 | 98.0 | 110.0 | 109.0 | 111.0 | 99.0 | 72.0 | 67.0 |
| 85° | 37.0 | 39.0 | 51.0 | 53.0 | 49.0 | 45.0 | 56.0 | 65.0 | 61.0 | 41.0 | 40.0 |
| 87.5° | 8.0 | 9.0 | 11.0 | 10.0 | 11.0 | 11.0 | 14.0 | 21.0 | 22.0 | 14.0 | 13.0 |
| 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)