

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: P454223

Luminaire Tested: **GLAN-SA5B-750-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454223
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5B-750-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29824 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

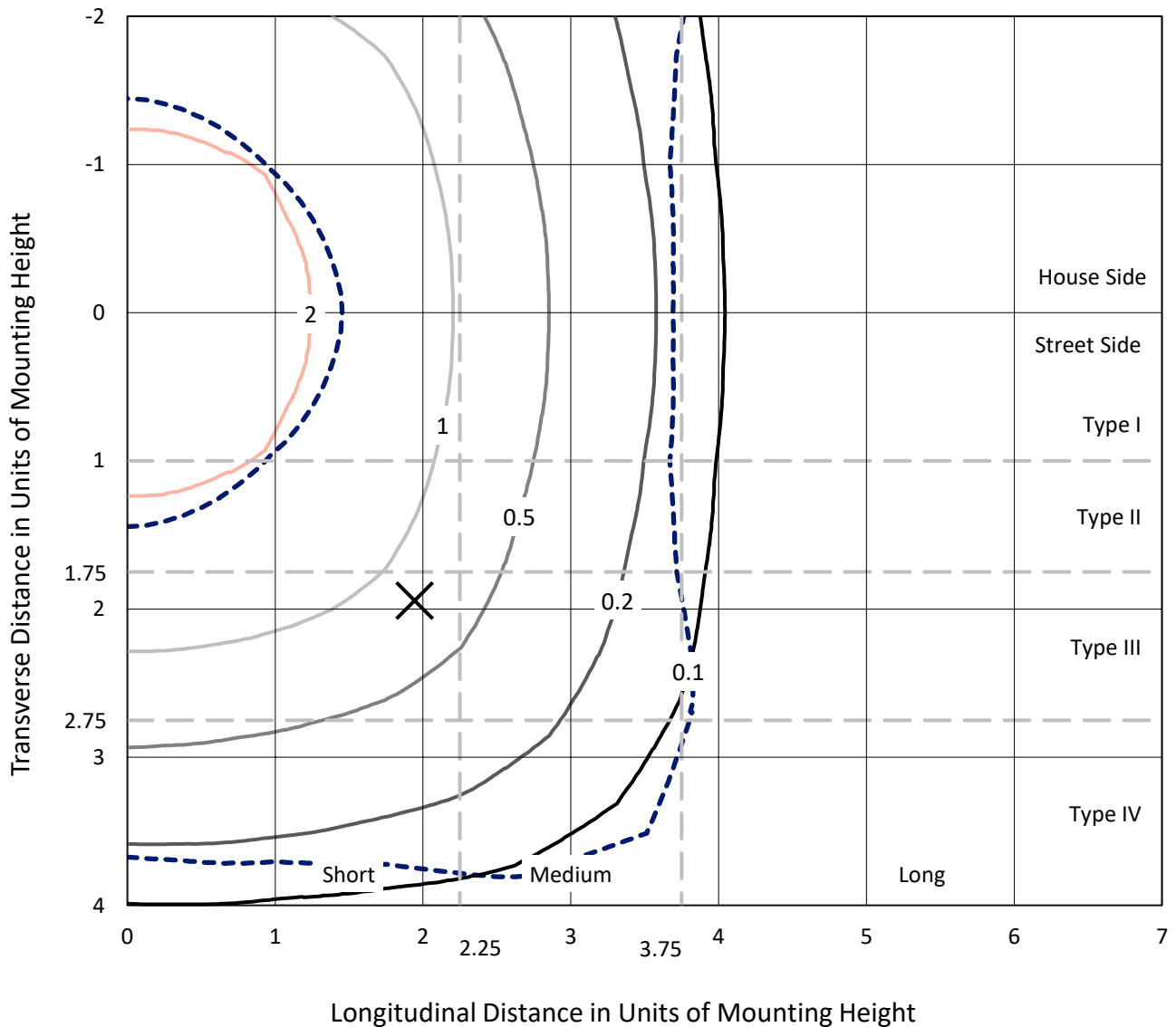
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

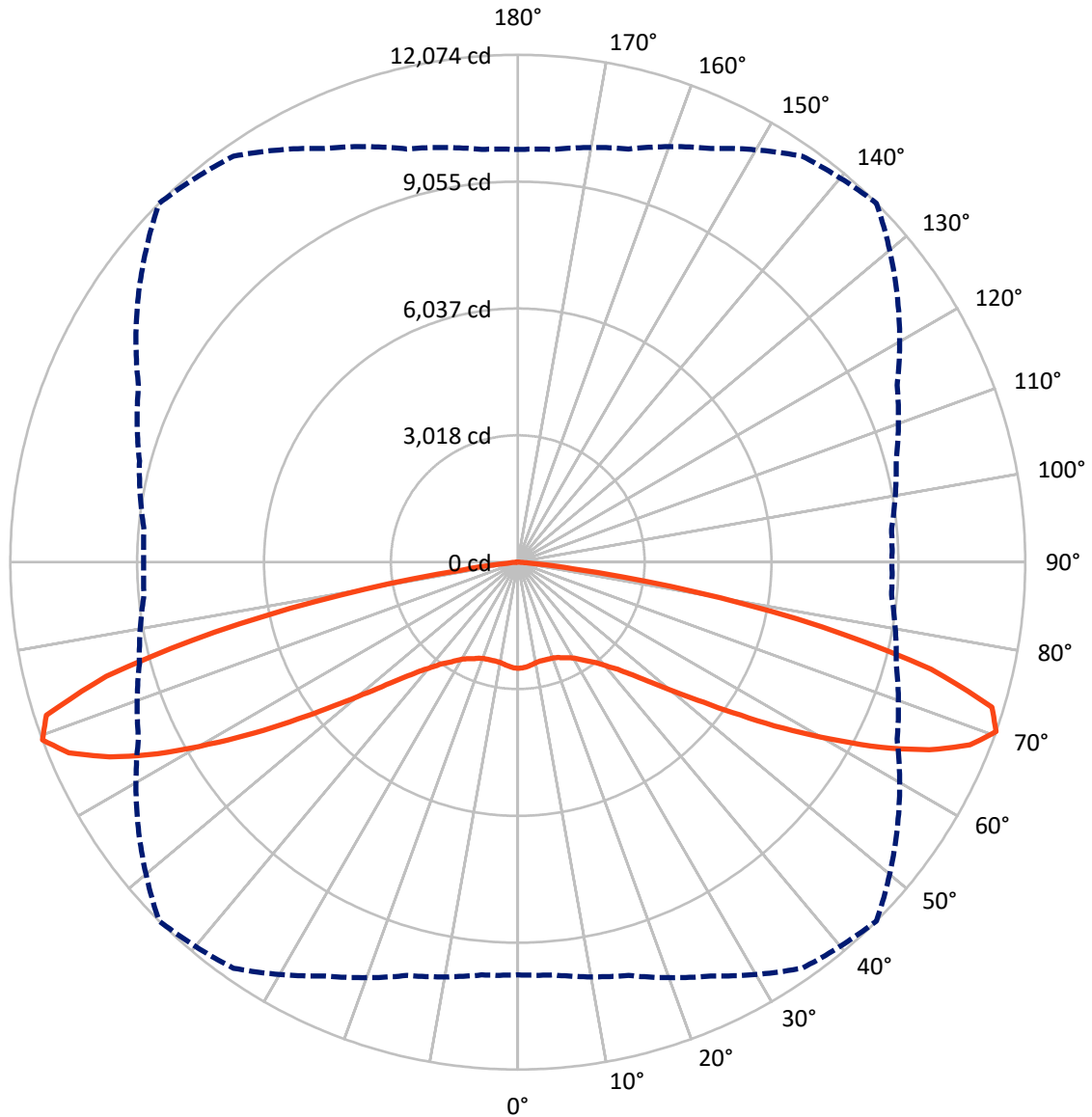
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 14912.0 | 0.0 | 14912.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 14912.0 | 0.0 | 14912.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 29824.0 | 0.0 | 29824.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 236.1 | 0.8 |
| 10°-20° | 691.3 | 2.3 |
| 20°-30° | 1177.8 | 3.9 |
| 30°-40° | 1825.6 | 6.1 |
| 40°-50° | 3072.7 | 10.3 |
| 50°-60° | 5590.6 | 18.7 |
| 60°-70° | 9464.8 | 31.7 |
| 70°-80° | 7326.1 | 24.6 |
| 80°-90° | 439.0 | 1.5 |
| 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° | 29824.0 | 100.0 |
| 0°-180° | 29824.0 | 100.0 |



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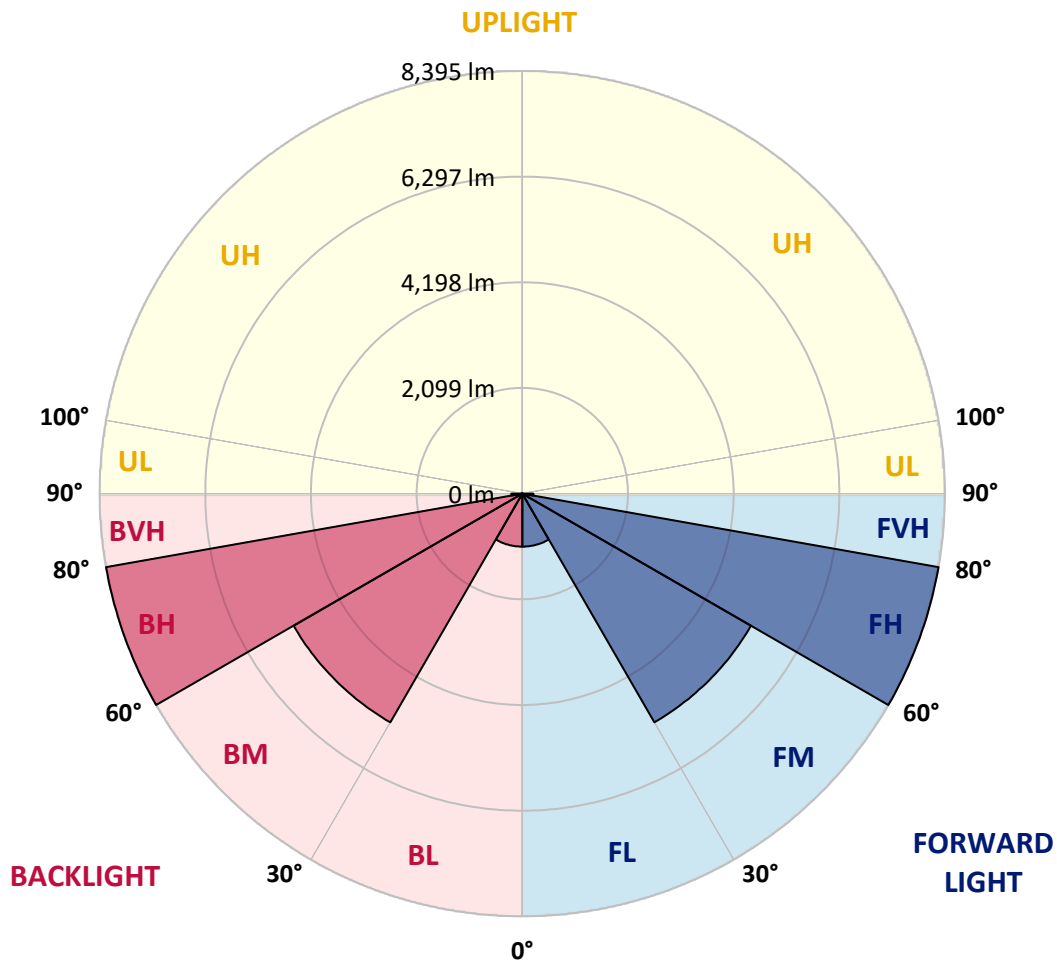
CATALOG NUMBER: GLAN-SA5B-750-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1052.6 | 3.5 | | | |
| FM (30°-60°) | 5244.4 | 17.6 | | | |
| FH (60°-80°) | 8395.5 | 28.1 | | | G4/12000 |
| FVH (80°-90°) | 219.5 | 0.7 | | | G2/225 |
| BL (0°-30°) | 1052.6 | 3.5 | B3/2500 | | |
| BM (30°-60°) | 5244.4 | 17.6 | B4/8500 | | |
| BH (60°-80°) | 8395.5 | 28.1 | B5 | | G4/12000 |
| BVH (80°-90°) | 219.5 | 0.7 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 2525.0 | 2525.0 | 2525.0 | 2525.0 | 2525.0 | 2525.0 | 2525.0 | 2525.0 | 2525.0 | 2525.0 | 2525.0 |
| 2.5° | 2518.7 | 2520.2 | 2520.2 | 2517.1 | 2515.5 | 2515.5 | 2513.9 | 2513.9 | 2518.7 | 2520.2 | 2521.8 |
| 5° | 2496.6 | 2496.6 | 2496.6 | 2495.0 | 2491.9 | 2491.9 | 2488.7 | 2488.7 | 2490.3 | 2495.0 | 2491.9 |
| 7.5° | 2466.7 | 2469.8 | 2469.8 | 2463.5 | 2458.8 | 2458.8 | 2457.2 | 2458.8 | 2460.4 | 2465.1 | 2463.5 |
| 10° | 2457.2 | 2458.8 | 2450.9 | 2439.9 | 2432.0 | 2427.3 | 2428.9 | 2432.0 | 2439.9 | 2443.1 | 2444.6 |
| 12.5° | 2463.5 | 2463.5 | 2449.4 | 2433.6 | 2419.4 | 2413.1 | 2411.6 | 2422.6 | 2436.8 | 2446.2 | 2449.4 |
| 15° | 2471.4 | 2468.3 | 2450.9 | 2430.5 | 2416.3 | 2414.7 | 2413.1 | 2421.0 | 2441.5 | 2460.4 | 2462.0 |
| 17.5° | 2476.1 | 2474.6 | 2452.5 | 2427.3 | 2419.4 | 2419.4 | 2417.9 | 2424.2 | 2446.2 | 2469.8 | 2471.4 |
| 20° | 2491.9 | 2487.2 | 2462.0 | 2435.2 | 2428.9 | 2432.0 | 2427.3 | 2435.2 | 2458.8 | 2487.2 | 2493.5 |
| 22.5° | 2523.4 | 2518.7 | 2493.5 | 2466.7 | 2463.5 | 2463.5 | 2462.0 | 2469.8 | 2495.0 | 2525.0 | 2529.7 |
| 25° | 2561.2 | 2556.5 | 2532.8 | 2513.9 | 2517.1 | 2523.4 | 2520.2 | 2521.8 | 2542.3 | 2567.5 | 2575.4 |
| 27.5° | 2611.6 | 2603.7 | 2583.2 | 2567.5 | 2576.9 | 2576.9 | 2576.9 | 2575.4 | 2588.0 | 2611.6 | 2619.5 |
| 30° | 2673.0 | 2669.9 | 2647.8 | 2646.3 | 2654.1 | 2646.3 | 2646.3 | 2647.8 | 2649.4 | 2671.5 | 2679.3 |
| 32.5° | 2753.4 | 2747.1 | 2736.0 | 2732.9 | 2754.9 | 2761.2 | 2739.2 | 2718.7 | 2729.7 | 2751.8 | 2756.5 |
| 35° | 2885.7 | 2876.2 | 2860.5 | 2843.1 | 2860.5 | 2890.4 | 2843.1 | 2827.4 | 2855.7 | 2885.7 | 2888.8 |
| 37.5° | 3065.2 | 3060.5 | 3035.3 | 3003.8 | 3002.2 | 3033.7 | 2984.9 | 2983.3 | 3036.9 | 3073.1 | 3077.8 |
| 40° | 3290.5 | 3295.2 | 3263.7 | 3233.8 | 3218.0 | 3243.2 | 3205.4 | 3219.6 | 3271.6 | 3312.5 | 3309.4 |
| 42.5° | 3607.1 | 3589.8 | 3540.9 | 3512.6 | 3495.3 | 3485.8 | 3476.4 | 3498.4 | 3556.7 | 3600.8 | 3635.4 |
| 45° | 3977.3 | 3971.0 | 3909.5 | 3874.9 | 3837.1 | 3822.9 | 3819.7 | 3859.1 | 3930.0 | 3983.6 | 3988.3 |
| 47.5° | 4396.2 | 4382.1 | 4342.7 | 4306.5 | 4292.3 | 4275.0 | 4259.2 | 4289.1 | 4360.0 | 4397.8 | 4408.8 |
| 50° | 4827.8 | 4831.0 | 4831.0 | 4824.7 | 4838.9 | 4842.0 | 4799.5 | 4810.5 | 4849.9 | 4846.7 | 4843.6 |
| 52.5° | 5320.9 | 5338.2 | 5420.1 | 5428.0 | 5495.7 | 5541.4 | 5464.2 | 5418.5 | 5404.3 | 5319.3 | 5325.6 |
| 55° | 5900.5 | 5916.3 | 6039.1 | 6162.0 | 6344.7 | 6421.9 | 6259.6 | 6117.9 | 6017.1 | 5887.9 | 5894.2 |
| 57.5° | 6623.5 | 6631.4 | 6747.9 | 6984.2 | 7274.0 | 7455.2 | 7170.1 | 6889.7 | 6684.9 | 6562.1 | 6513.2 |
| 60° | 7401.6 | 7409.5 | 7579.6 | 7867.9 | 8318.4 | 8538.9 | 8186.1 | 7727.7 | 7469.4 | 7281.9 | 7294.5 |
| 62.5° | 8335.7 | 8367.2 | 8520.0 | 8916.9 | 9463.5 | 9710.8 | 9243.0 | 8630.3 | 8280.6 | 8047.4 | 8056.9 |
| 65° | 9335.9 | 9389.5 | 9556.4 | 9992.8 | 10496.8 | 10763.0 | 10189.7 | 9482.4 | 9047.7 | 8762.6 | 8792.5 |
| 67.5° | 9984.9 | 10032.1 | 10273.1 | 10755.1 | 11383.6 | 11604.1 | 10863.8 | 10040.0 | 9496.6 | 9156.4 | 9093.3 |
| 70° | 9819.5 | 9858.9 | 10180.2 | 10863.8 | 11794.7 | 12073.5 | 11024.5 | 9958.1 | 9318.6 | 8926.4 | 8901.2 |
| 72.5° | 8668.1 | 8586.1 | 9055.5 | 10036.9 | 11325.3 | 11793.2 | 10518.9 | 9094.9 | 8290.0 | 7886.8 | 7839.5 |
| 75° | 5744.6 | 5922.6 | 6615.6 | 7771.8 | 9581.6 | 10161.3 | 8978.4 | 7302.4 | 6289.6 | 5954.1 | 5902.1 |
| 77.5° | 1920.1 | 2057.1 | 2673.0 | 4405.7 | 6532.2 | 7403.2 | 6541.6 | 4775.9 | 3378.7 | 2721.9 | 2734.5 |
| 80° | 508.8 | 502.5 | 650.5 | 1211.3 | 2822.7 | 4287.6 | 3285.8 | 1617.7 | 885.2 | 641.1 | 608.0 |
| 82.5° | 182.7 | 204.8 | 263.1 | 335.5 | 748.2 | 1332.6 | 940.4 | 453.6 | 332.4 | 245.7 | 237.8 |
| 85° | 80.3 | 78.8 | 113.4 | 133.9 | 187.4 | 248.9 | 220.5 | 192.2 | 168.5 | 111.8 | 104.0 |
| 87.5° | 17.3 | 17.3 | 26.8 | 20.5 | 33.1 | 33.1 | 41.0 | 48.8 | 50.4 | 33.1 | 26.8 |
| 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)