

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: LUMARK

Report Number: P969853

Luminaire Tested: **NAV-SB6A-740-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-740-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29837.7 lumens
Efficiency: N/A
Efficacy: 174.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

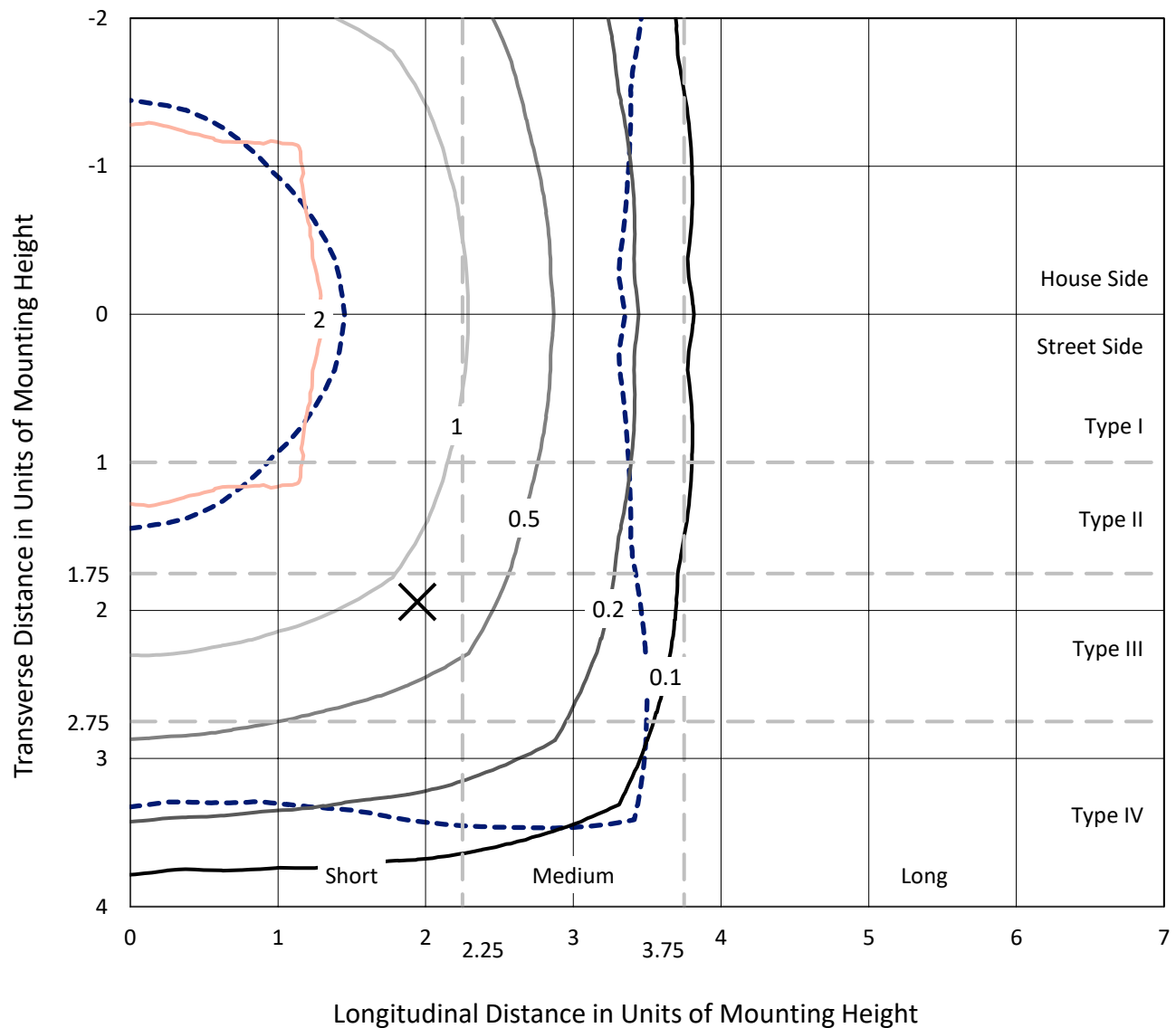
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

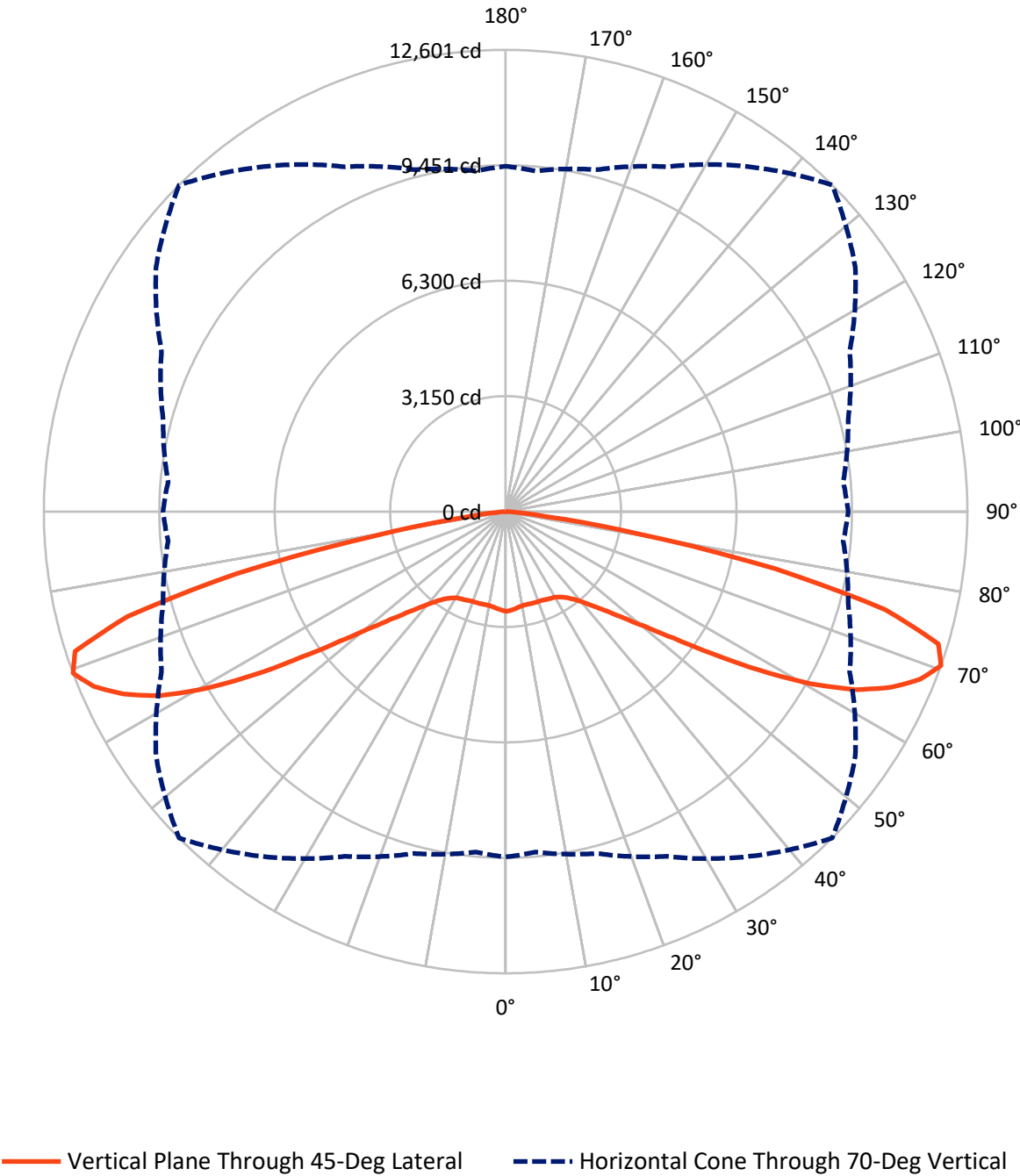
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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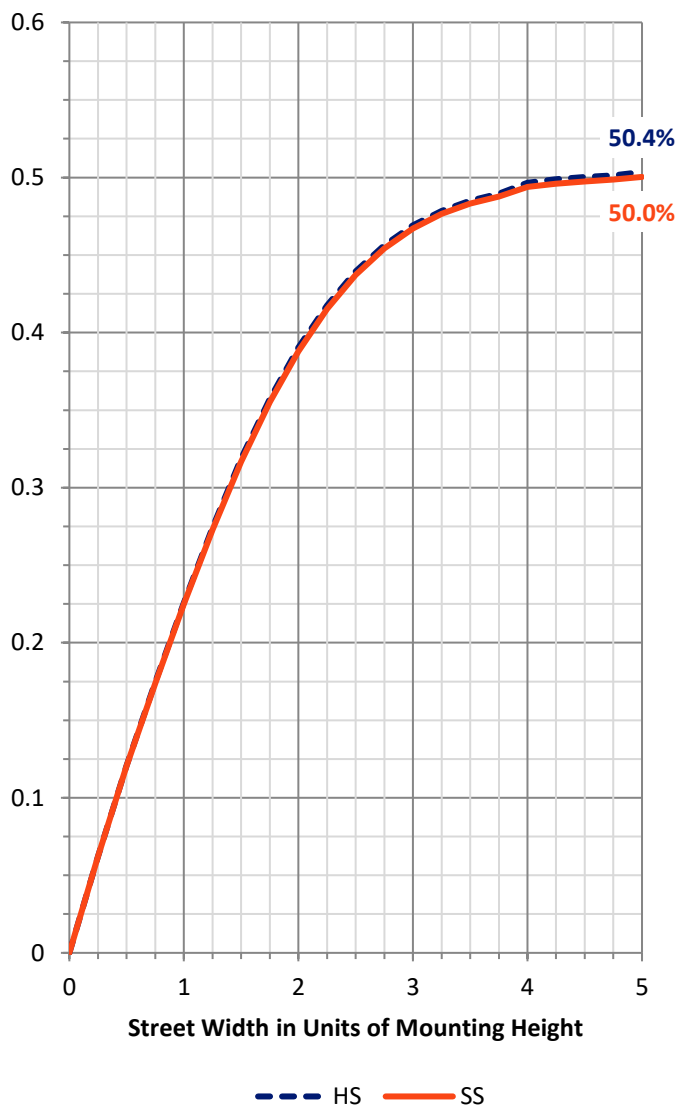
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14918.9	0.0	14918.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14918.9	0.0	14918.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	29837.7	0.0	29837.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.2	0.8
10°-20°	743.4	2.5
20°-30°	1237.2	4.1
30°-40°	1871.0	6.3
40°-50°	3109.1	10.4
50°-60°	5866.8	19.7
60°-70°	9906.4	33.2
70°-80°	6509.5	21.8
80°-90°	341.0	1.1
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°	29837.7	100.0
0°-180°	29837.7	100.0

Coefficient of Utilization



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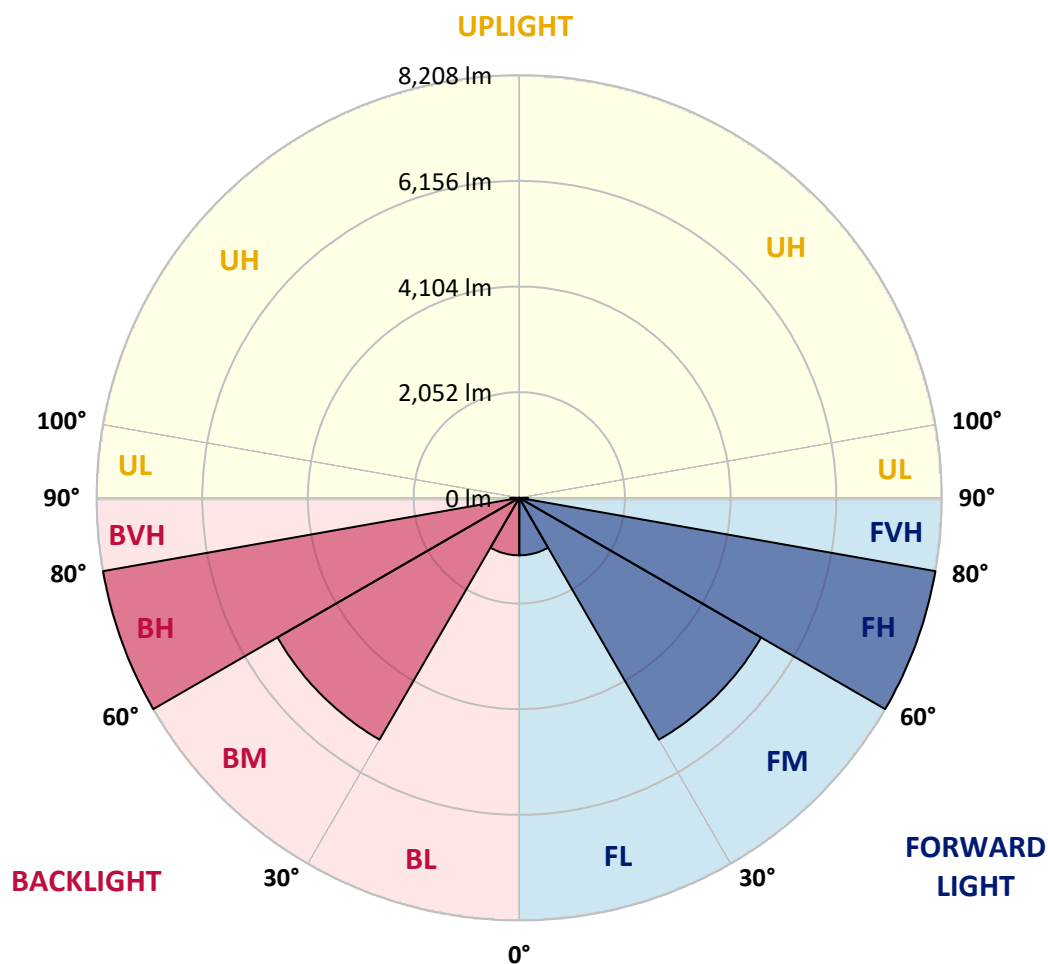
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1116.9	3.7			
FM	(30°-60°)	5423.5	18.2			
FH	(60°-80°)	8208.0	27.5			G4/12000
FVH	(80°-90°)	170.5	0.6			G2/225
BL	(0°-30°)	1116.9	3.7	B3/2500		
BM	(30°-60°)	5423.5	18.2	B4/8500		
BH	(60°-80°)	8208.0	27.5	B5		G4/12000
BVH	(80°-90°)	170.5	0.6			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°	2721.8	2721.8	2721.8	2721.8	2721.8	2721.8	2721.8	2721.8	2721.8	2721.8	2721.8
2.5°	2704.8	2712.5	2709.4	2703.2	2703.2	2698.5	2703.2	2706.3	2710.9	2714.1	2712.5
5°	2669.1	2675.2	2673.7	2669.1	2670.6	2665.9	2669.1	2673.7	2676.8	2678.4	2678.4
7.5°	2638.0	2644.3	2641.1	2633.4	2633.4	2628.7	2630.3	2635.0	2639.6	2641.1	2641.1
10°	2630.3	2636.5	2627.2	2614.8	2610.2	2603.9	2605.4	2610.2	2619.5	2624.1	2624.1
12.5°	2633.4	2638.0	2628.7	2610.2	2605.4	2599.3	2599.3	2603.9	2616.3	2622.6	2624.1
15°	2642.8	2647.4	2633.4	2613.2	2608.6	2603.9	2602.4	2608.6	2622.6	2633.4	2635.0
17.5°	2659.8	2664.4	2642.8	2614.8	2608.6	2610.2	2608.6	2613.2	2635.0	2655.2	2655.2
20°	2675.2	2678.4	2648.9	2614.8	2608.6	2610.2	2608.6	2617.8	2645.8	2673.7	2675.2
22.5°	2680.0	2683.0	2655.2	2625.6	2621.0	2622.6	2621.0	2630.3	2656.7	2684.6	2684.6
25°	2681.5	2686.1	2664.4	2641.1	2648.9	2652.0	2648.9	2650.4	2670.6	2695.4	2693.9
27.5°	2704.8	2710.9	2690.8	2670.6	2675.2	2673.7	2678.4	2683.0	2698.5	2723.3	2717.2
30°	2752.8	2757.5	2740.4	2720.2	2717.2	2706.3	2720.2	2735.7	2752.8	2774.6	2769.9
32.5°	2831.9	2841.2	2819.5	2797.8	2783.8	2777.6	2788.5	2814.9	2838.1	2861.4	2852.1
35°	2963.8	2969.9	2949.7	2909.5	2884.7	2884.7	2894.0	2928.1	2965.3	2994.7	2983.9
37.5°	3149.8	3157.6	3121.9	3073.9	3036.7	3036.7	3049.1	3084.7	3140.5	3182.4	3166.9
40°	3376.2	3387.1	3342.1	3292.5	3256.8	3250.7	3266.2	3306.4	3359.2	3411.9	3394.9
42.5°	3649.2	3661.6	3602.7	3559.3	3531.3	3531.3	3539.1	3576.3	3624.4	3689.6	3684.9
45°	3998.2	4019.8	3939.3	3895.8	3869.5	3875.6	3880.3	3912.8	3956.3	4030.7	4027.6
47.5°	4413.9	4435.5	4350.2	4305.3	4300.6	4330.1	4311.5	4334.7	4358.0	4443.3	4418.5
50°	4885.3	4922.5	4863.6	4860.4	4869.8	4924.1	4880.6	4893.0	4866.7	4920.9	4888.4
52.5°	5462.2	5516.4	5505.7	5524.2	5628.2	5739.8	5640.6	5597.1	5497.9	5514.9	5457.6
55°	6161.7	6243.9	6259.4	6371.0	6606.7	6834.7	6623.9	6448.6	6237.6	6198.9	6138.4
57.5°	6957.3	7022.4	7096.9	7324.9	7765.3	8170.1	7765.3	7377.5	7045.6	6966.6	6910.8
60°	7813.4	7894.0	7965.4	8301.9	8956.3	9525.5	8943.9	8328.2	7889.3	7782.3	7689.2
62.5°	8733.0	8836.9	8886.5	9260.4	10023.4	10702.6	10034.2	9288.2	8801.3	8686.5	8593.5
65°	9615.5	9700.8	9756.7	10155.2	10884.1	11565.0	10933.8	10198.6	9697.7	9547.3	9472.8
67.5°	10026.4	10073.0	10209.5	10660.8	11430.0	12207.0	11560.3	10708.9	10149.0	9885.3	9888.5
70°	9424.8	9330.2	9658.9	10381.6	11495.2	12600.9	11644.0	10359.9	9674.5	9246.4	9348.7
72.5°	7282.9	7120.2	7690.9	8926.9	10750.7	12349.7	10825.2	8996.7	8045.9	7177.5	7393.1
75°	3962.5	3777.9	4565.8	6129.1	8573.3	10704.2	8770.2	6304.4	5083.8	3933.0	4189.0
77.5°	1118.2	1048.4	1684.3	2965.3	5156.7	7515.6	5355.2	3030.4	1997.5	1184.9	1316.7
80°	342.8	331.9	449.8	893.3	2189.8	3599.6	2104.5	904.2	572.3	361.3	381.5
82.5°	203.2	186.1	223.3	325.6	558.3	1130.6	542.8	339.7	273.0	183.0	198.5
85°	116.3	108.5	131.8	158.2	187.7	240.4	156.6	161.3	145.8	97.7	102.4
87.5°	48.1	43.5	51.1	49.6	43.5	55.9	41.9	49.6	58.9	38.7	35.7
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)