

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: P968272

Luminaire Tested: **NAV-SB5B-740-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968272
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-SB5B-740-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31201 lumens
Efficiency: N/A
Efficacy: 170.8 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): 182.7
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

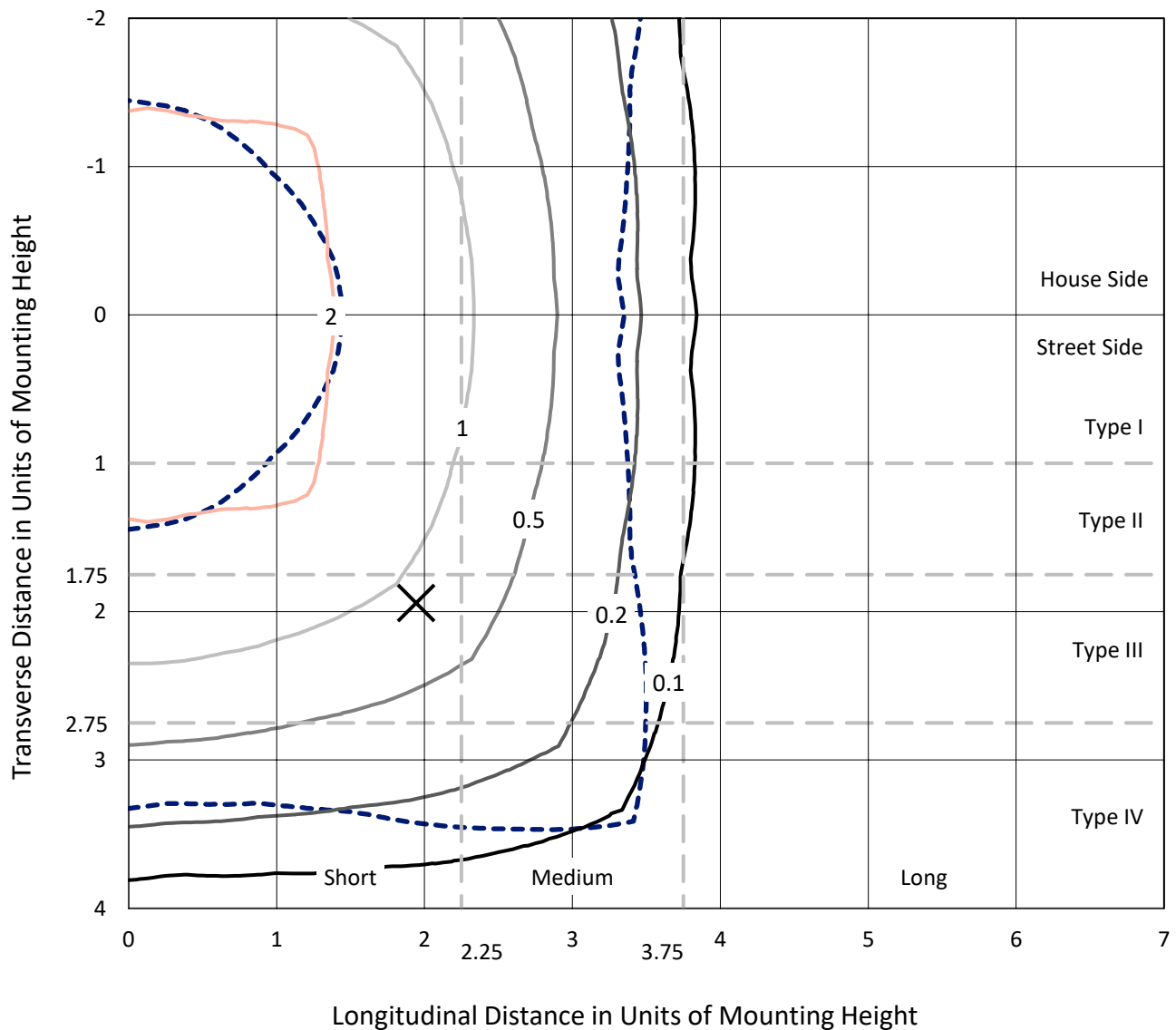


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Iso-Footcandle Lines of Horizontal Illumination

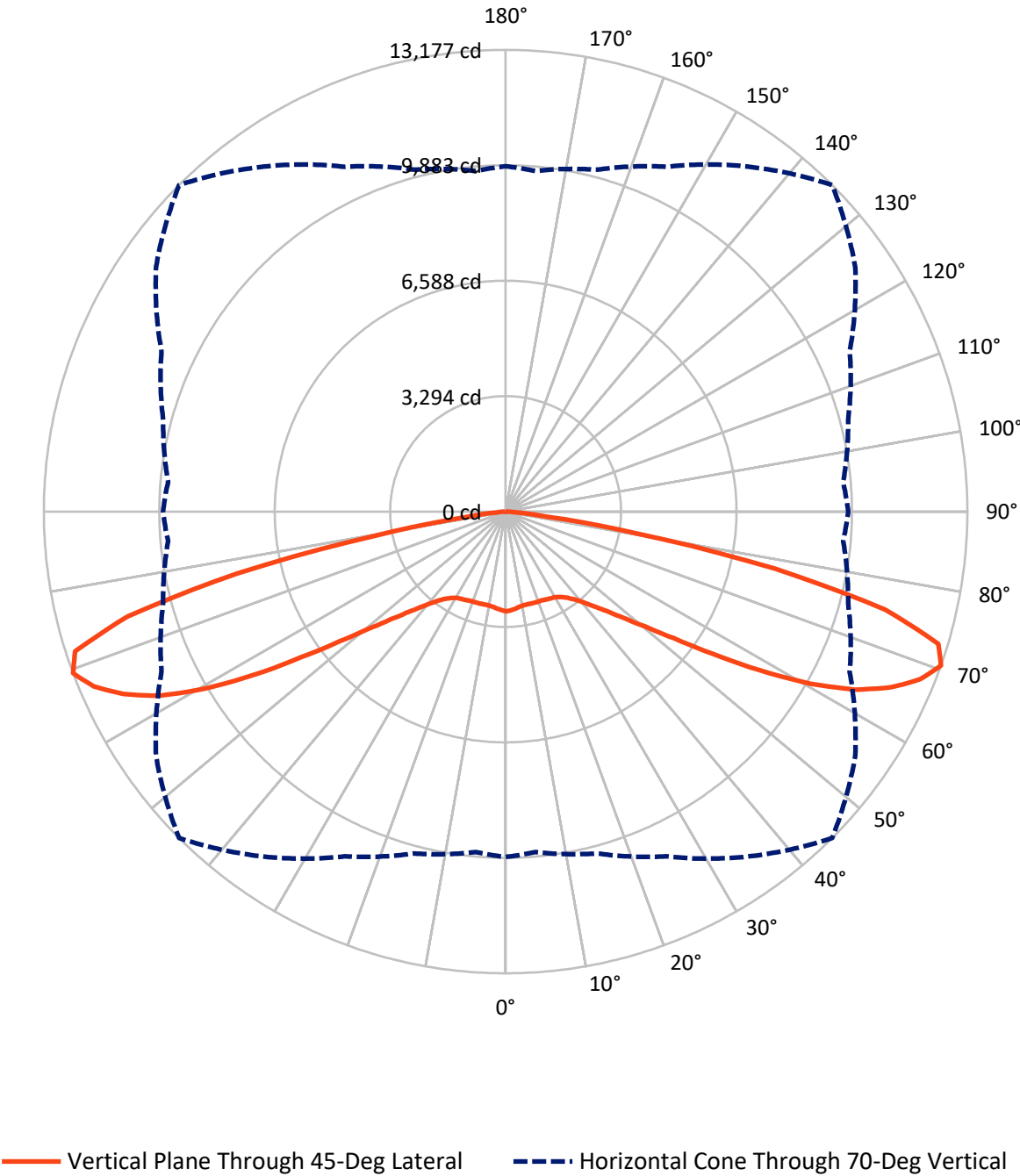
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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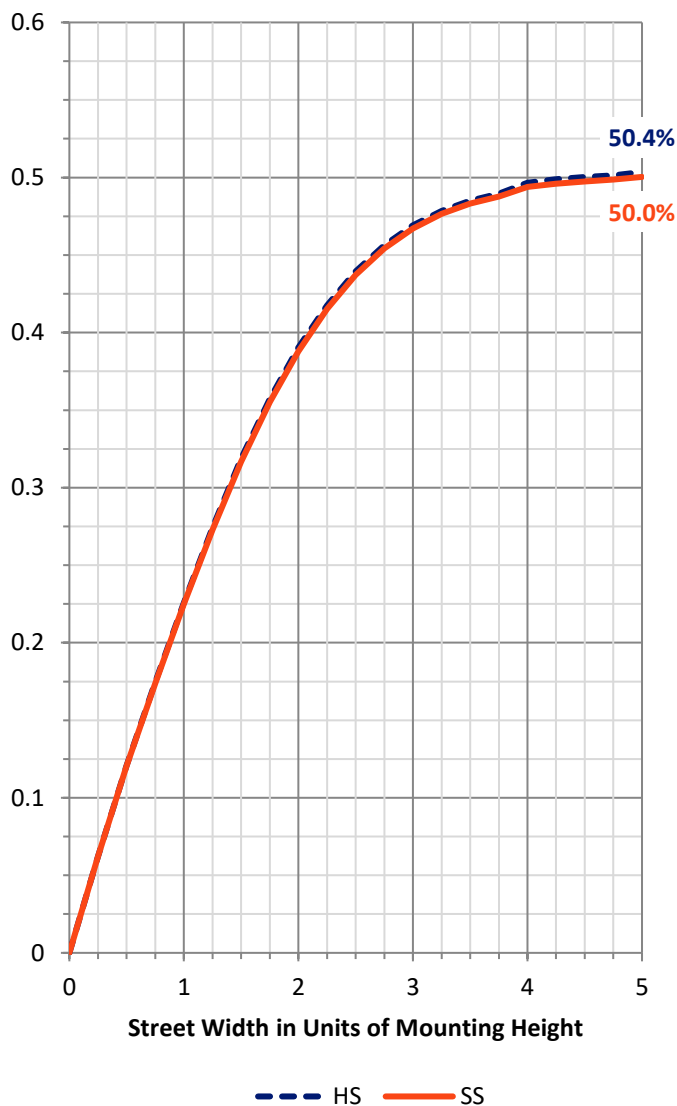
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15600.5	0.0	15600.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15600.5	0.0	15600.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	31201.0	0.0	31201.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.8	0.8
10°-20°	777.4	2.5
20°-30°	1293.7	4.1
30°-40°	1956.5	6.3
40°-50°	3251.2	10.4
50°-60°	6134.9	19.7
60°-70°	10359.0	33.2
70°-80°	6807.0	21.8
80°-90°	356.6	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°	31201.0	100.0
0°-180°	31201.0	100.0

Coefficient of Utilization



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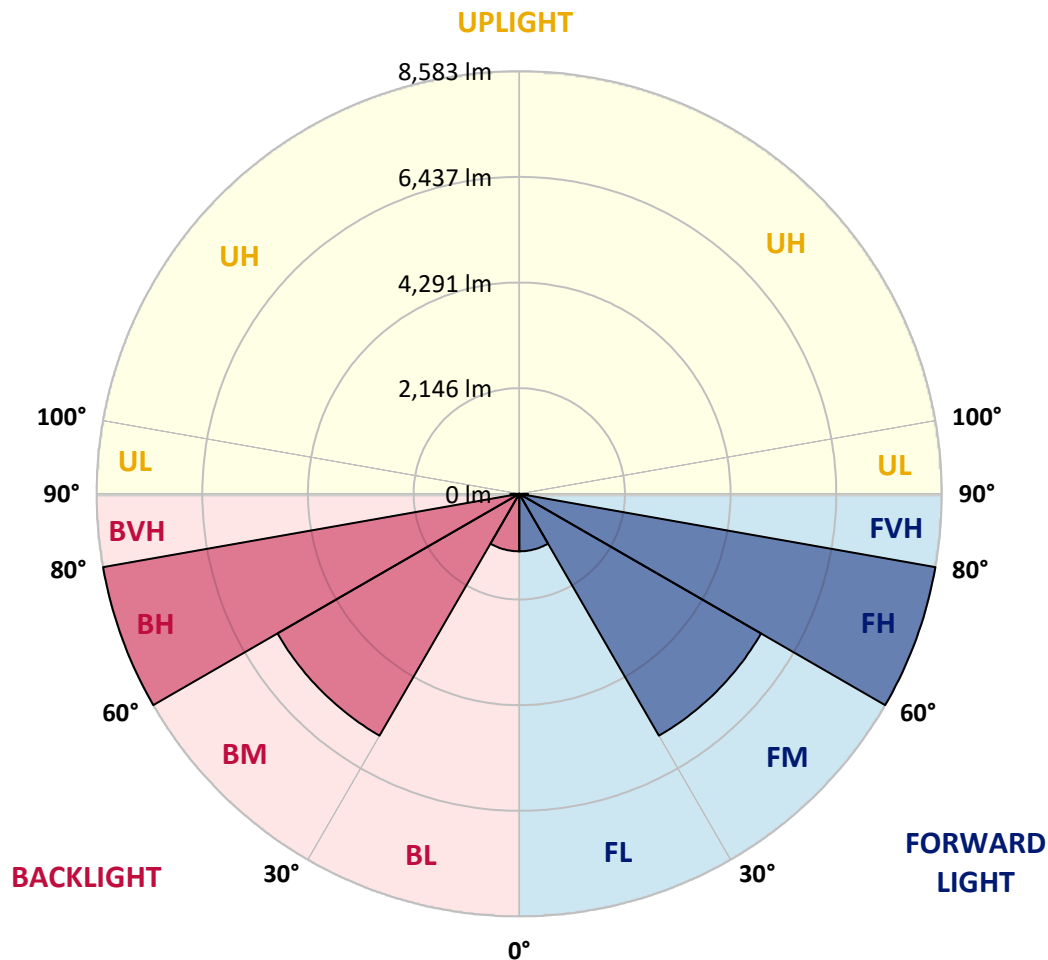
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1167.9	3.7			
FM	(30°-60°)	5671.3	18.2			
FH	(60°-80°)	8583.0	27.5			G4/12000
FVH	(80°-90°)	178.3	0.6			G2/225
BL	(0°-30°)	1167.9	3.7	B3/2500		
BM	(30°-60°)	5671.3	18.2	B4/8500		
BH	(60°-80°)	8583.0	27.5	B5		G4/12000
BVH	(80°-90°)	178.3	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°	2846.1	2846.1	2846.1	2846.1	2846.1	2846.1	2846.1	2846.1	2846.1	2846.1	2846.1
2.5°	2828.3	2836.4	2833.2	2826.7	2826.7	2821.8	2826.7	2829.9	2834.8	2838.0	2836.4
5°	2791.0	2797.5	2795.9	2791.0	2792.6	2787.8	2791.0	2795.9	2799.2	2800.7	2800.7
7.5°	2758.6	2765.0	2761.9	2753.8	2753.8	2748.8	2750.5	2755.3	2760.2	2761.9	2761.9
10°	2750.5	2756.9	2747.2	2734.3	2729.4	2722.9	2724.6	2729.4	2739.1	2744.0	2744.0
12.5°	2753.8	2758.6	2748.8	2729.4	2724.6	2718.0	2718.0	2722.9	2735.9	2742.4	2744.0
15°	2763.4	2768.3	2753.8	2732.6	2727.7	2722.9	2721.3	2727.7	2742.4	2753.8	2755.3
17.5°	2781.3	2786.2	2763.4	2734.3	2727.7	2729.4	2727.7	2732.6	2755.3	2776.4	2776.4
20°	2797.5	2800.7	2770.0	2734.3	2727.7	2729.4	2727.7	2737.5	2766.7	2795.9	2797.5
22.5°	2802.4	2805.6	2776.4	2745.6	2740.7	2742.4	2740.7	2750.5	2778.1	2807.3	2807.3
25°	2804.0	2808.9	2786.2	2761.9	2770.0	2773.1	2770.0	2771.6	2792.6	2818.5	2817.0
27.5°	2828.3	2834.8	2813.7	2792.6	2797.5	2795.9	2800.7	2805.6	2821.8	2847.8	2841.3
30°	2878.6	2883.4	2865.6	2844.6	2841.3	2829.9	2844.6	2860.8	2878.6	2901.3	2896.4
32.5°	2961.3	2971.1	2948.3	2925.7	2911.0	2904.5	2915.9	2943.5	2967.8	2992.1	2982.3
35°	3099.2	3105.6	3084.5	3042.4	3016.5	3016.5	3026.2	3061.9	3100.7	3131.6	3120.2
37.5°	3293.7	3301.8	3264.5	3214.3	3175.3	3175.3	3188.4	3225.7	3284.0	3327.9	3311.6
40°	3530.5	3541.9	3494.8	3443.0	3405.7	3399.2	3415.4	3457.5	3512.7	3567.8	3550.0
42.5°	3816.0	3828.9	3767.3	3721.9	3692.7	3692.7	3700.9	3739.7	3790.0	3858.1	3853.3
45°	4180.9	4203.5	4119.3	4073.9	4046.3	4052.7	4057.6	4091.7	4137.1	4214.9	4211.6
47.5°	4615.5	4638.2	4549.0	4502.0	4497.1	4527.9	4508.5	4532.8	4557.0	4646.3	4620.4
50°	5108.5	5147.4	5085.7	5082.6	5092.3	5149.0	5103.6	5116.6	5089.0	5145.8	5111.8
52.5°	5711.8	5768.5	5757.2	5776.7	5885.3	6002.1	5898.3	5852.9	5749.1	5767.0	5706.9
55°	6443.2	6529.1	6545.3	6662.1	6908.6	7147.0	6926.4	6743.2	6522.7	6482.1	6418.9
57.5°	7275.1	7343.2	7421.1	7659.5	8120.0	8543.4	8120.0	7714.7	7367.6	7284.9	7226.5
60°	8170.4	8254.6	8329.3	8681.2	9365.5	9960.7	9352.6	8708.8	8249.8	8137.9	8040.6
62.5°	9132.0	9240.7	9292.5	9683.4	10481.3	11191.7	10492.7	9712.6	9203.4	9083.3	8986.1
65°	10054.8	10144.0	10202.3	10619.2	11381.4	12093.4	11433.3	10664.6	10140.7	9983.5	9905.6
67.5°	10484.5	10533.2	10675.9	11147.9	11952.2	12764.7	12088.4	11198.1	10612.6	10337.0	10340.2
70°	9855.4	9756.4	10100.2	10856.0	12020.4	13176.7	12176.1	10833.2	10116.4	9668.8	9775.8
72.5°	7615.7	7445.4	8042.3	9334.8	11241.9	12914.0	11319.8	9407.8	8413.6	7505.5	7730.9
75°	4143.6	3950.6	4774.4	6409.1	8965.0	11193.3	9171.0	6592.4	5316.1	4112.7	4380.3
77.5°	1169.3	1096.3	1761.3	3100.7	5392.3	7859.0	5599.9	3168.9	2088.8	1239.0	1376.9
80°	358.4	347.1	470.3	934.1	2290.0	3764.1	2200.7	945.5	598.4	377.8	398.9
82.5°	212.5	194.6	233.5	340.6	583.8	1182.2	567.6	355.2	285.5	191.4	207.6
85°	121.7	113.6	137.9	165.4	196.2	251.3	163.8	168.6	152.4	102.2	107.0
87.5°	50.2	45.4	53.5	51.9	45.4	58.4	43.8	51.9	61.6	40.6	37.3
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)