

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: P970380

Luminaire Tested: **NAV-SB6B-740-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970380
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-SB6B-740-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 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: 37455.6 lumens
Efficiency: N/A
Efficacy: 169.9 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): 220.4
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

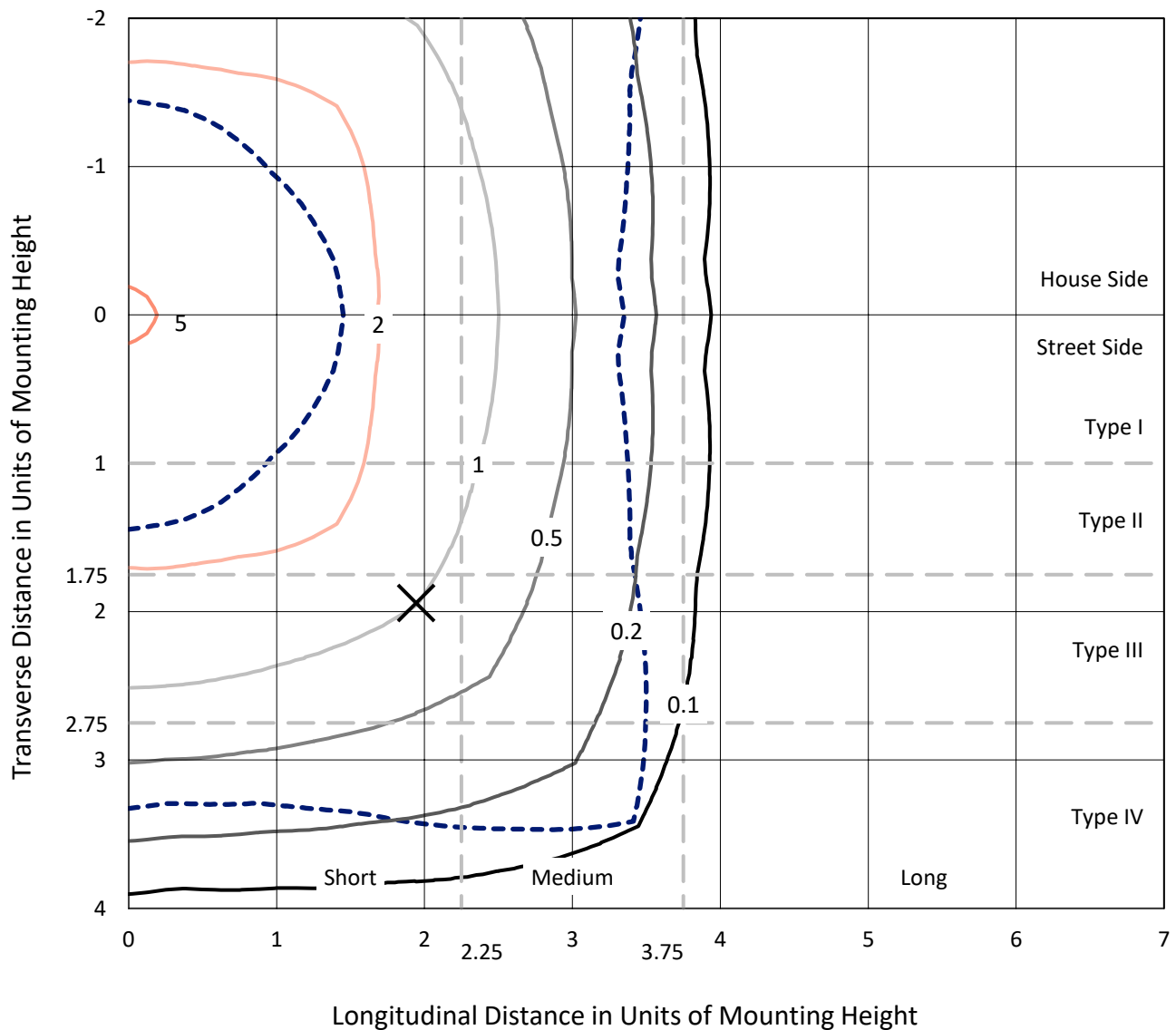


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Iso-Footcandle Lines of Horizontal Illumination

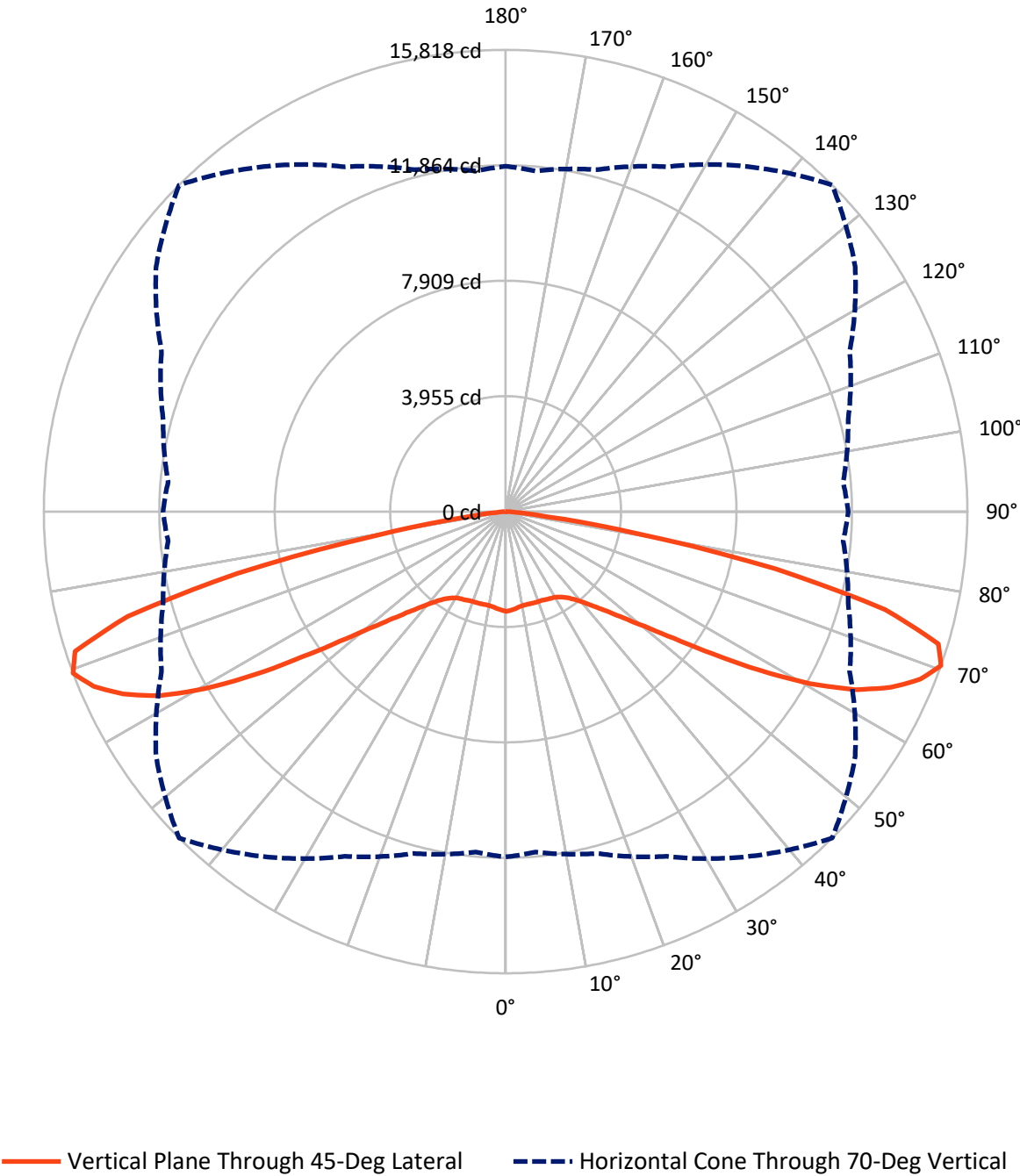
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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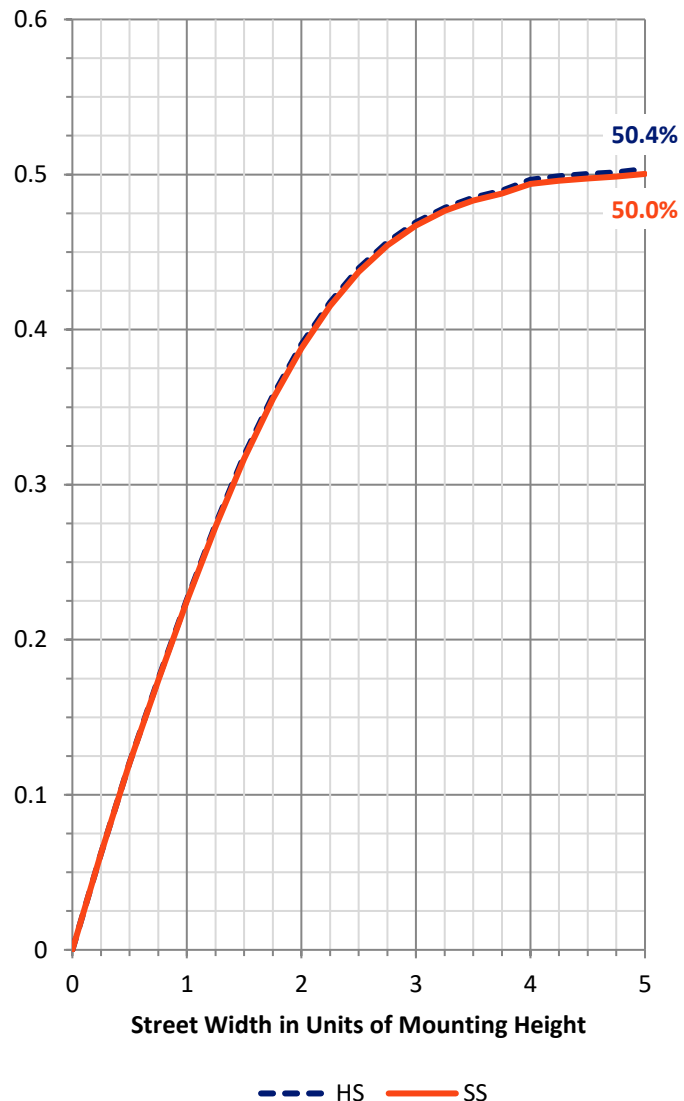
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18727.8	0.0	18727.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18727.8	0.0	18727.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	37455.6	0.0	37455.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.8	0.8
10°-20°	933.2	2.5
20°-30°	1553.0	4.1
30°-40°	2348.7	6.3
40°-50°	3902.9	10.4
50°-60°	7364.7	19.7
60°-70°	12435.6	33.2
70°-80°	8171.5	21.8
80°-90°	428.1	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°	37455.6	100.0
0°-180°	37455.6	100.0

Coefficient of Utilization



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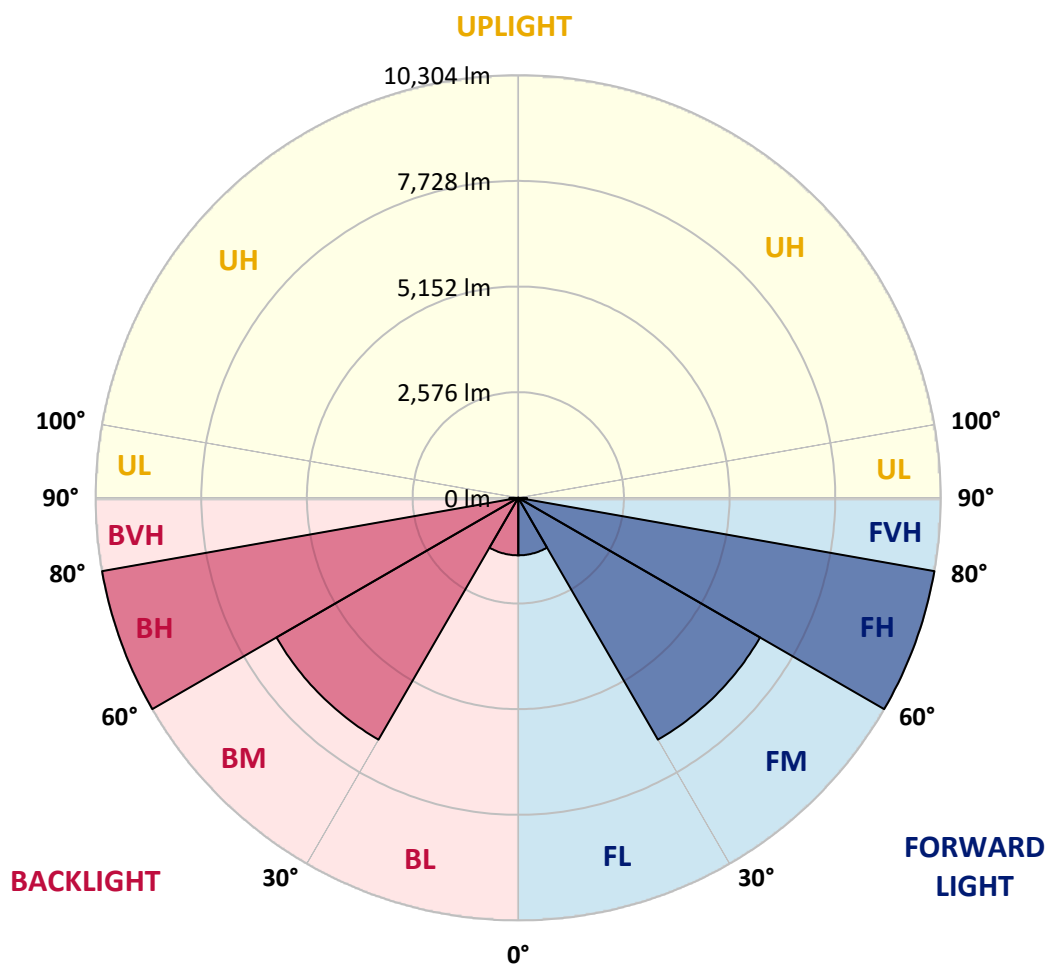
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1402.1	3.7			
FM	(30°-60°)	6808.1	18.2			
FH	(60°-80°)	10303.5	27.5			G4/12000
FVH	(80°-90°)	214.1	0.6			G2/225
BL	(0°-30°)	1402.1	3.7	B3/2500		
BM	(30°-60°)	6808.1	18.2	B4/8500		
BH	(60°-80°)	10303.5	27.5	B5		G4/12000
BVH	(80°-90°)	214.1	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°	3416.7	3416.7	3416.7	3416.7	3416.7	3416.7	3416.7	3416.7	3416.7	3416.7	3416.7
2.5°	3395.3	3405.0	3401.2	3393.4	3393.4	3387.5	3393.4	3397.3	3403.1	3407.0	3405.0
5°	3350.5	3358.3	3356.4	3350.5	3352.5	3346.6	3350.5	3356.4	3360.3	3362.2	3362.2
7.5°	3311.6	3319.4	3315.5	3305.7	3305.7	3299.9	3301.8	3307.7	3313.5	3315.5	3315.5
10°	3301.8	3309.6	3297.9	3282.4	3276.5	3268.7	3270.7	3276.5	3288.2	3294.0	3294.0
12.5°	3305.7	3311.6	3299.9	3276.5	3270.7	3262.9	3262.9	3268.7	3284.3	3292.1	3294.0
15°	3317.4	3323.3	3305.7	3280.4	3274.6	3268.7	3266.8	3274.6	3292.1	3305.7	3307.7
17.5°	3338.8	3344.7	3317.4	3282.4	3274.6	3276.5	3274.6	3280.4	3307.7	3333.0	3333.0
20°	3358.3	3362.2	3325.2	3282.4	3274.6	3276.5	3274.6	3286.3	3321.3	3356.4	3358.3
22.5°	3364.2	3368.0	3333.0	3296.0	3290.1	3292.1	3290.1	3301.8	3334.9	3370.0	3370.0
25°	3366.1	3371.9	3344.7	3315.5	3325.2	3329.1	3325.2	3327.2	3352.5	3383.6	3381.7
27.5°	3395.3	3403.1	3377.8	3352.5	3358.3	3356.4	3362.2	3368.0	3387.5	3418.7	3410.9
30°	3455.7	3461.5	3440.1	3414.8	3410.9	3397.3	3414.8	3434.3	3455.7	3482.8	3477.0
32.5°	3554.9	3566.6	3539.3	3512.1	3494.5	3486.7	3500.4	3533.5	3562.7	3591.9	3580.2
35°	3720.4	3728.2	3702.9	3652.3	3621.1	3621.1	3632.8	3675.6	3722.4	3759.4	3745.8
37.5°	3954.0	3963.8	3919.0	3858.6	3811.9	3811.9	3827.5	3872.2	3942.4	3994.9	3975.5
40°	4238.3	4251.9	4195.4	4133.1	4088.3	4080.5	4100.0	4150.6	4216.8	4283.1	4261.6
42.5°	4580.9	4596.5	4522.5	4468.0	4432.9	4432.9	4442.7	4489.4	4549.8	4631.6	4625.7
45°	5018.9	5046.2	4945.0	4890.5	4857.4	4865.2	4871.0	4911.9	4966.4	5059.8	5055.9
47.5°	5540.7	5568.0	5460.9	5404.4	5398.6	5435.6	5412.2	5441.4	5470.6	5577.6	5546.6
50°	6132.6	6179.2	6105.3	6101.4	6113.1	6181.2	6126.7	6142.3	6109.2	6177.3	6136.5
52.5°	6856.7	6924.9	6911.3	6934.6	7065.1	7205.2	7080.7	7026.2	6901.5	6923.0	6850.9
55°	7734.8	7838.0	7857.4	7997.6	8293.5	8579.8	8314.9	8094.9	7830.2	7781.5	7705.5
57.5°	8733.5	8815.3	8908.7	9194.9	9747.9	10255.9	9747.9	9261.1	8844.5	8745.2	8675.1
60°	9808.1	9909.4	9999.0	10421.4	11243.0	11957.4	11227.4	10454.5	9903.6	9769.3	9652.4
62.5°	10962.7	11093.1	11155.4	11624.5	12582.4	13435.1	12596.0	11659.6	11048.3	10904.3	10787.4
65°	12070.4	12177.5	12247.5	12747.9	13662.9	14517.6	13725.2	12802.5	12173.6	11984.7	11891.3
67.5°	12586.3	12644.7	12816.0	13382.6	14348.2	15323.5	14511.7	13442.9	12740.1	12409.2	12413.1
70°	11831.0	11712.2	12124.9	13032.2	14430.0	15818.1	14616.8	13004.9	12144.4	11607.0	11735.5
72.5°	9142.4	8937.9	9654.4	11206.0	13495.5	15502.7	13588.9	11293.7	10100.1	9010.0	9280.6
75°	4974.1	4742.5	5731.5	7693.9	10762.1	13437.0	11009.3	7913.9	6381.8	4937.2	5258.5
77.5°	1403.6	1316.1	2114.3	3722.4	6473.3	9434.4	6722.5	3804.1	2507.6	1487.4	1652.9
80°	430.3	416.7	564.6	1121.4	2748.9	4518.6	2641.8	1135.0	718.4	453.6	478.9
82.5°	255.0	233.6	280.3	408.9	700.9	1419.2	681.4	426.4	342.7	229.7	249.2
85°	146.1	136.3	165.4	198.5	235.5	301.8	196.6	202.4	183.0	122.7	128.5
87.5°	60.4	54.5	64.3	62.3	54.5	70.1	52.6	62.3	74.0	48.7	44.8
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)