

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: P968395

Luminaire Tested: **NAV-SB5B-830-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968395
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5B-830-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27452.6 lumens
Efficiency: N/A
Efficacy: 150.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

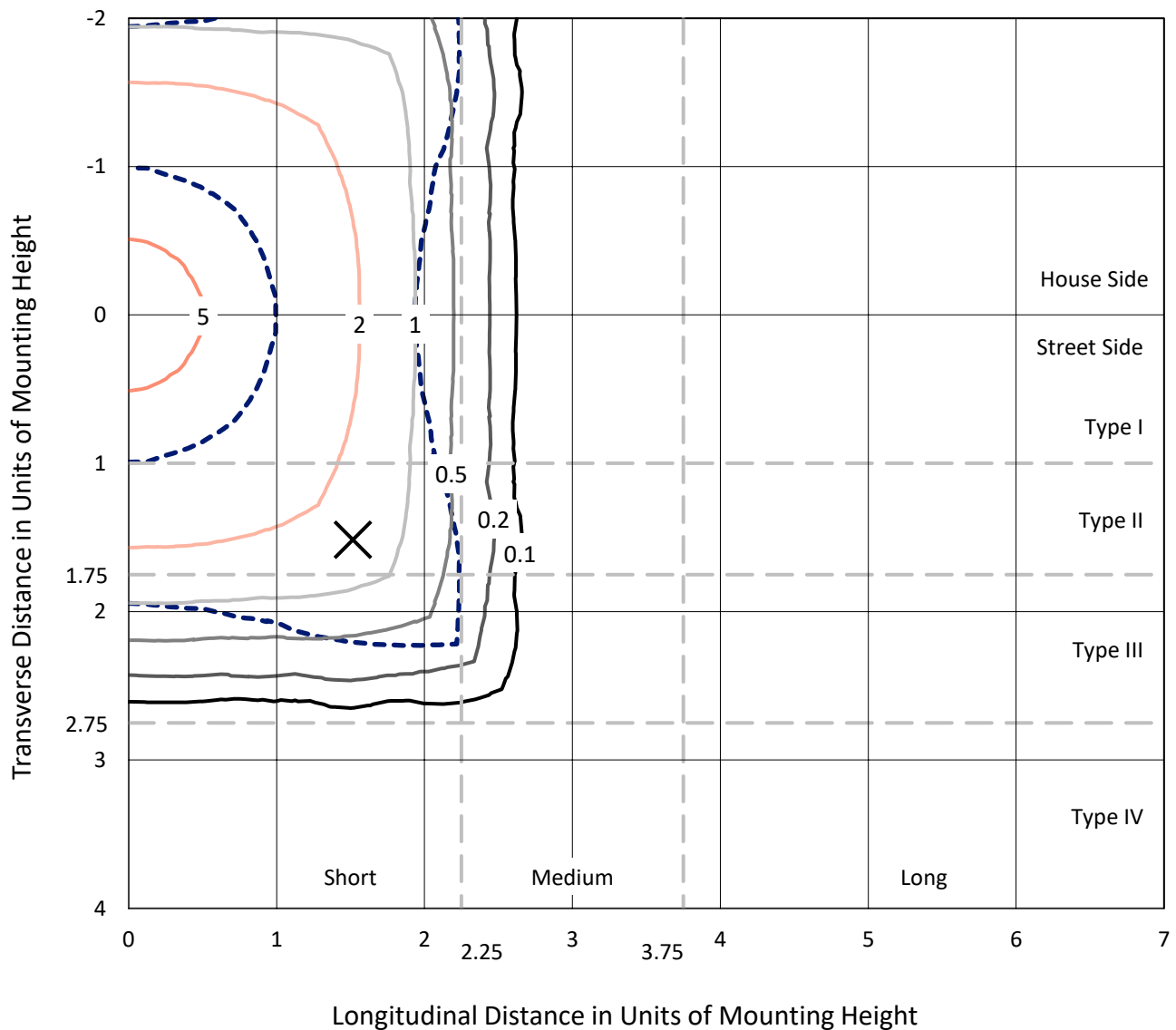
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

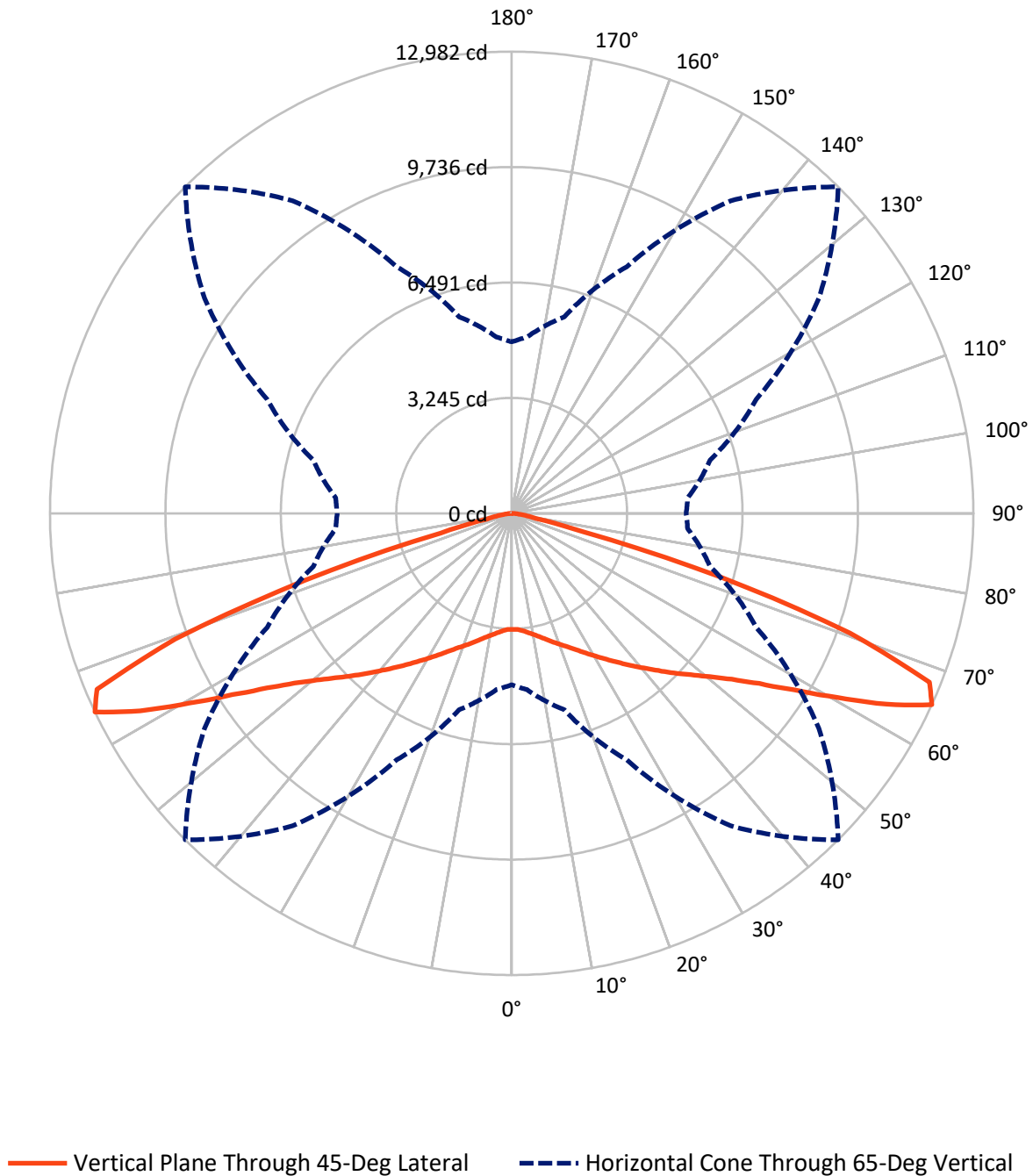
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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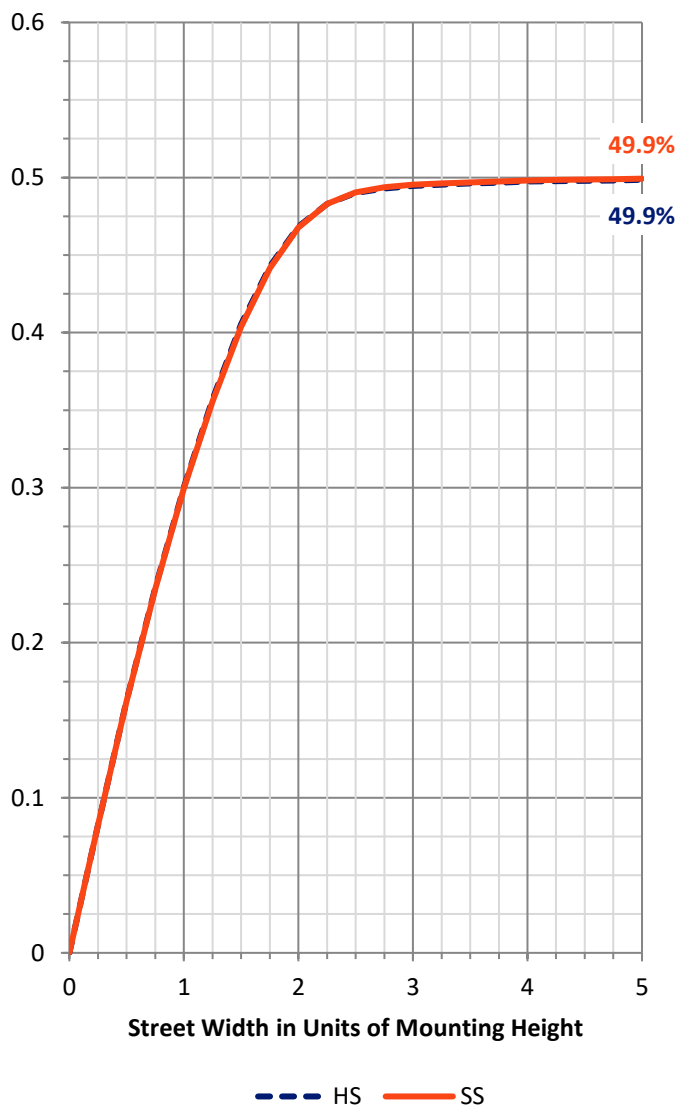
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13726.3	0.0	13726.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13726.3	0.0	13726.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	27452.6	0.0	27452.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.4	1.2
10°-20°	1052.1	3.8
20°-30°	1986.5	7.2
30°-40°	3252.9	11.8
40°-50°	5043.6	18.4
50°-60°	7450.5	27.1
60°-70°	7092.2	25.8
70°-80°	1144.4	4.2
80°-90°	107.9	0.4
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°	27452.6	100.0
0°-180°	27452.6	100.0

Coefficient of Utilization



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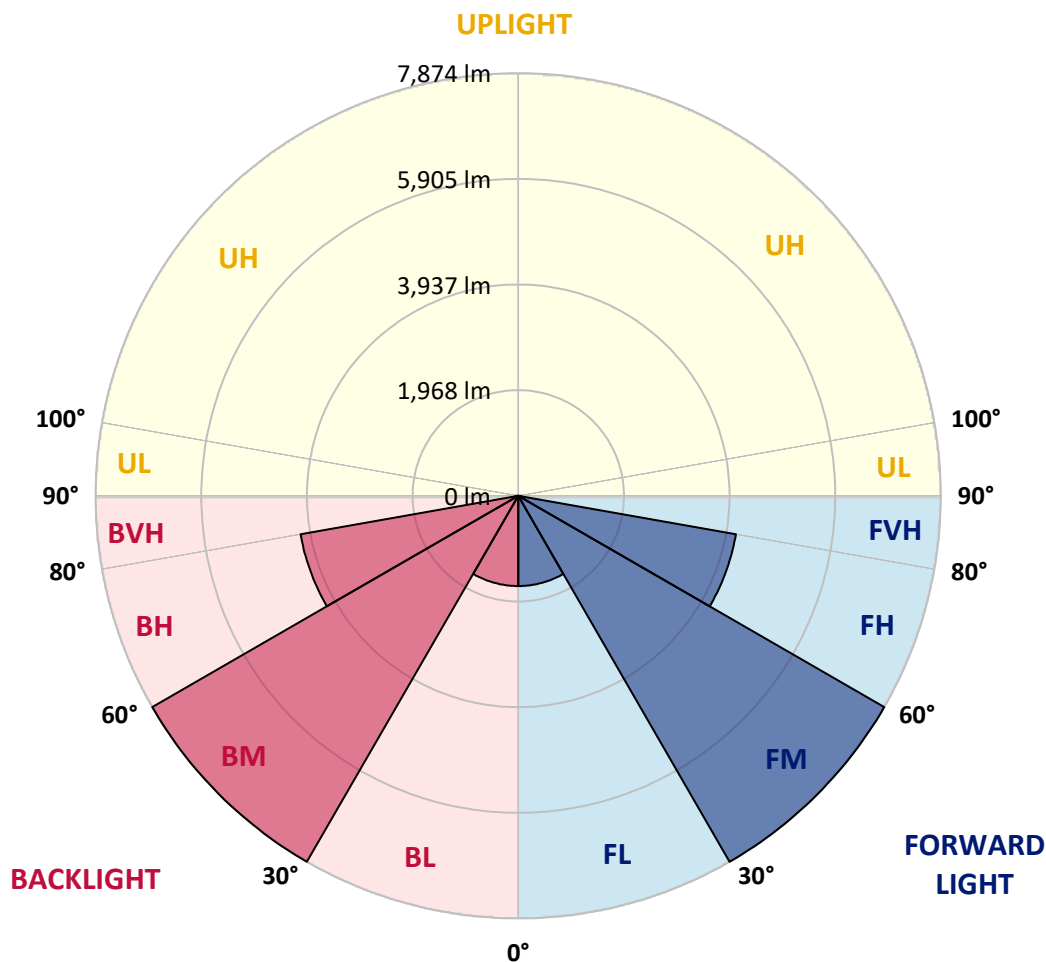
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1680.5	6.1			
FM	(30°-60°)	7873.5	28.7			
FH	(60°-80°)	4118.3	15.0			G2/5000
FVH	(80°-90°)	53.9	0.2			G1/100
BL	(0°-30°)	1680.5	6.1	B3/2500		
BM	(30°-60°)	7873.5	28.7	B4/8500		
BH	(60°-80°)	4118.3	15.0	B4/5000		G2/5000
BVH	(80°-90°)	53.9	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°	3267.1	3267.1	3267.1	3267.1	3267.1	3267.1	3267.1	3267.1	3267.1	3267.1	3267.1
2.5°	3289.1	3278.2	3286.5	3279.5	3274.1	3268.5	3271.3	3280.9	3285.0	3286.5	3286.5
5°	3333.2	3323.6	3327.8	3327.8	3318.1	3315.4	3316.7	3323.6	3331.9	3331.9	3331.9
7.5°	3404.8	3395.2	3404.8	3399.3	3391.1	3388.3	3387.0	3392.4	3404.8	3404.8	3400.7
10°	3491.7	3480.6	3486.1	3483.4	3473.7	3469.6	3468.2	3476.5	3487.5	3486.1	3483.4
12.5°	3586.7	3574.3	3581.1	3572.9	3570.2	3566.0	3566.0	3564.6	3571.5	3566.0	3568.7
15°	3692.8	3684.5	3687.2	3681.7	3685.9	3683.1	3672.1	3666.5	3669.3	3661.1	3662.4
17.5°	3818.1	3798.8	3808.5	3805.7	3805.7	3811.2	3793.3	3786.3	3791.9	3783.7	3790.6
20°	3962.8	3943.4	3947.6	3942.0	3935.2	3940.7	3918.7	3924.1	3928.3	3922.8	3935.2
22.5°	4121.1	4096.3	4095.0	4097.6	4082.6	4083.9	4068.7	4082.6	4090.8	4075.6	4090.8
25°	4283.7	4257.4	4275.4	4268.5	4249.2	4253.3	4242.3	4256.1	4263.0	4243.7	4265.7
27.5°	4455.8	4437.9	4454.4	4458.5	4435.2	4451.7	4435.2	4447.6	4454.4	4425.5	4447.6
30°	4656.9	4638.9	4654.1	4665.2	4637.6	4663.8	4650.0	4658.3	4659.6	4625.2	4645.9
32.5°	4875.9	4848.4	4886.9	4892.4	4862.1	4893.8	4875.9	4886.9	4893.8	4847.0	4878.7
35°	5143.1	5108.7	5152.8	5145.9	5119.7	5145.9	5129.3	5145.9	5162.4	5105.9	5140.4
37.5°	5431.0	5395.2	5442.0	5429.6	5404.8	5422.8	5413.1	5424.1	5450.2	5389.7	5426.9
40°	5747.8	5703.7	5767.1	5745.0	5721.7	5718.9	5724.3	5731.3	5765.7	5698.2	5720.2
42.5°	6086.7	6039.8	6134.8	6100.4	6067.3	6045.2	6063.2	6077.0	6110.0	6034.3	6074.3
45°	6473.7	6420.0	6543.9	6502.6	6450.2	6404.8	6433.7	6454.4	6502.6	6411.7	6458.5
47.5°	6900.6	6840.0	6972.3	6959.9	6874.5	6775.4	6841.5	6900.6	6936.5	6826.3	6863.5
50°	7318.0	7271.1	7444.7	7459.8	7355.2	7216.1	7308.4	7397.8	7407.5	7262.8	7280.8
52.5°	7709.1	7662.3	7914.4	8009.5	7915.8	7750.4	7848.3	7939.1	7866.2	7678.9	7684.3
55°	8021.9	7983.2	8304.1	8549.3	8581.0	8444.7	8502.6	8499.8	8260.1	7972.2	7981.9
57.5°	8097.6	8092.1	8497.0	9016.3	9346.9	9363.4	9249.1	8957.1	8440.6	8053.5	8028.7
60°	7753.2	7787.6	8344.1	9260.1	10141.6	10508.0	10013.5	9180.2	8235.4	7698.2	7634.8
62.5°	6723.0	6813.9	7484.7	8962.6	10783.4	11824.7	10626.5	8841.3	7392.4	6691.3	6650.0
65°	4818.0	4976.5	5717.4	7648.6	10725.6	12981.7	10538.3	7586.5	5772.6	4964.1	4904.8
67.5°	2185.9	2347.0	2976.5	5236.7	9323.4	12667.7	9301.4	5291.9	3125.2	2355.3	2320.9
70°	792.0	819.5	1022.0	2096.3	5958.5	10093.4	6213.3	2111.5	1086.7	873.3	862.2
72.5°	479.3	483.5	526.1	750.7	2070.2	6128.0	2158.3	775.4	537.2	476.5	484.8
75°	304.4	301.7	374.6	458.7	734.1	2067.4	770.0	458.7	373.3	340.2	343.0
77.5°	219.0	225.9	268.5	343.0	462.8	701.1	454.5	327.8	268.5	220.4	224.5
80°	163.9	168.0	195.6	267.2	325.0	436.6	289.3	242.4	202.4	137.8	141.9
82.5°	118.5	118.5	128.1	194.2	198.3	235.5	157.0	170.8	133.6	97.8	97.8
85°	70.2	68.9	79.8	115.7	103.3	86.8	71.6	104.7	84.0	60.6	59.2
87.5°	24.8	26.1	24.8	33.1	27.6	23.4	22.0	28.9	23.4	20.7	19.3
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)