

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: P970503

Luminaire Tested: **NAV-SB6B-830-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970503
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-SB6B-830-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 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: 32955.8 lumens
Efficiency: N/A
Efficacy: 149.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

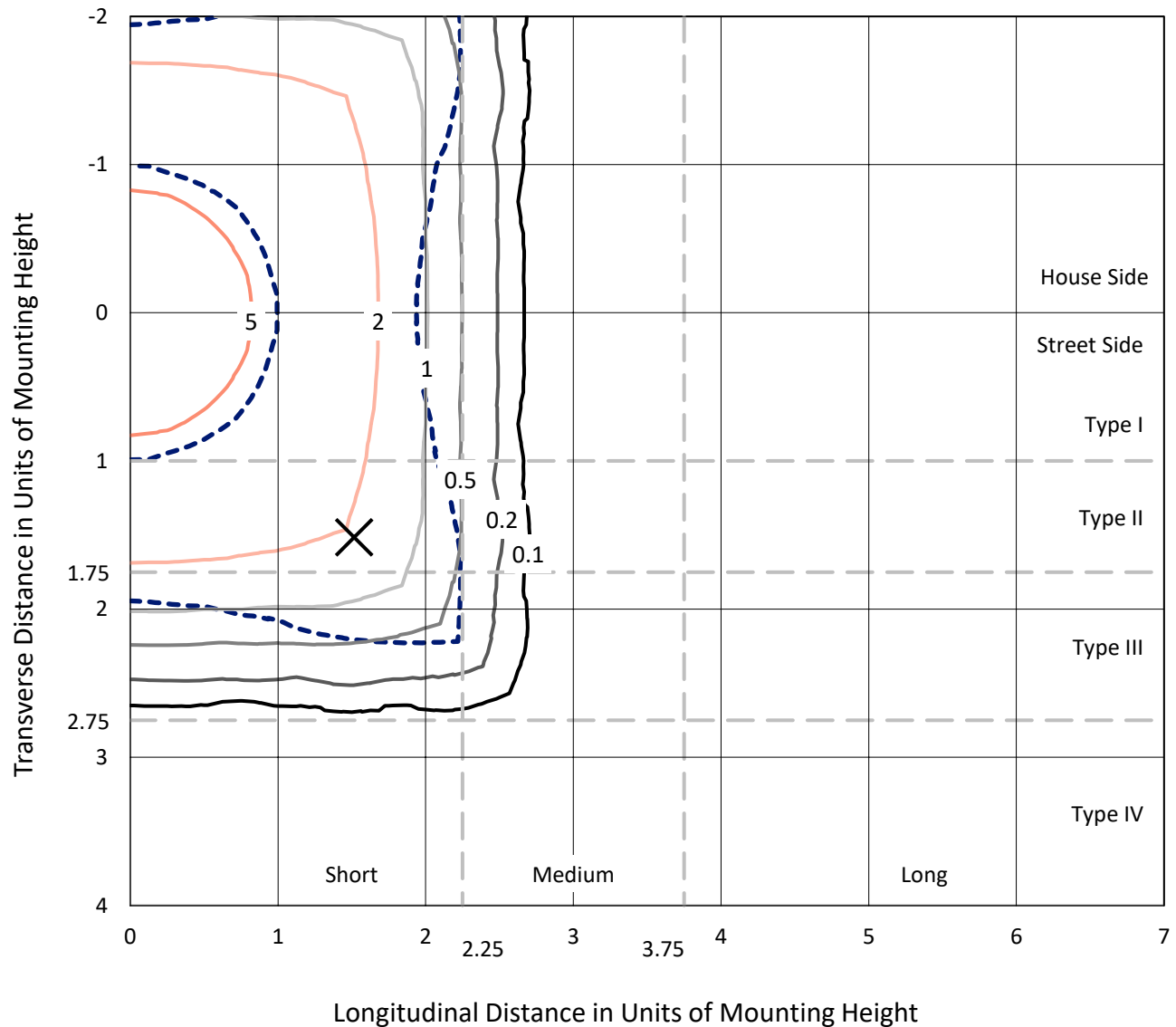
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

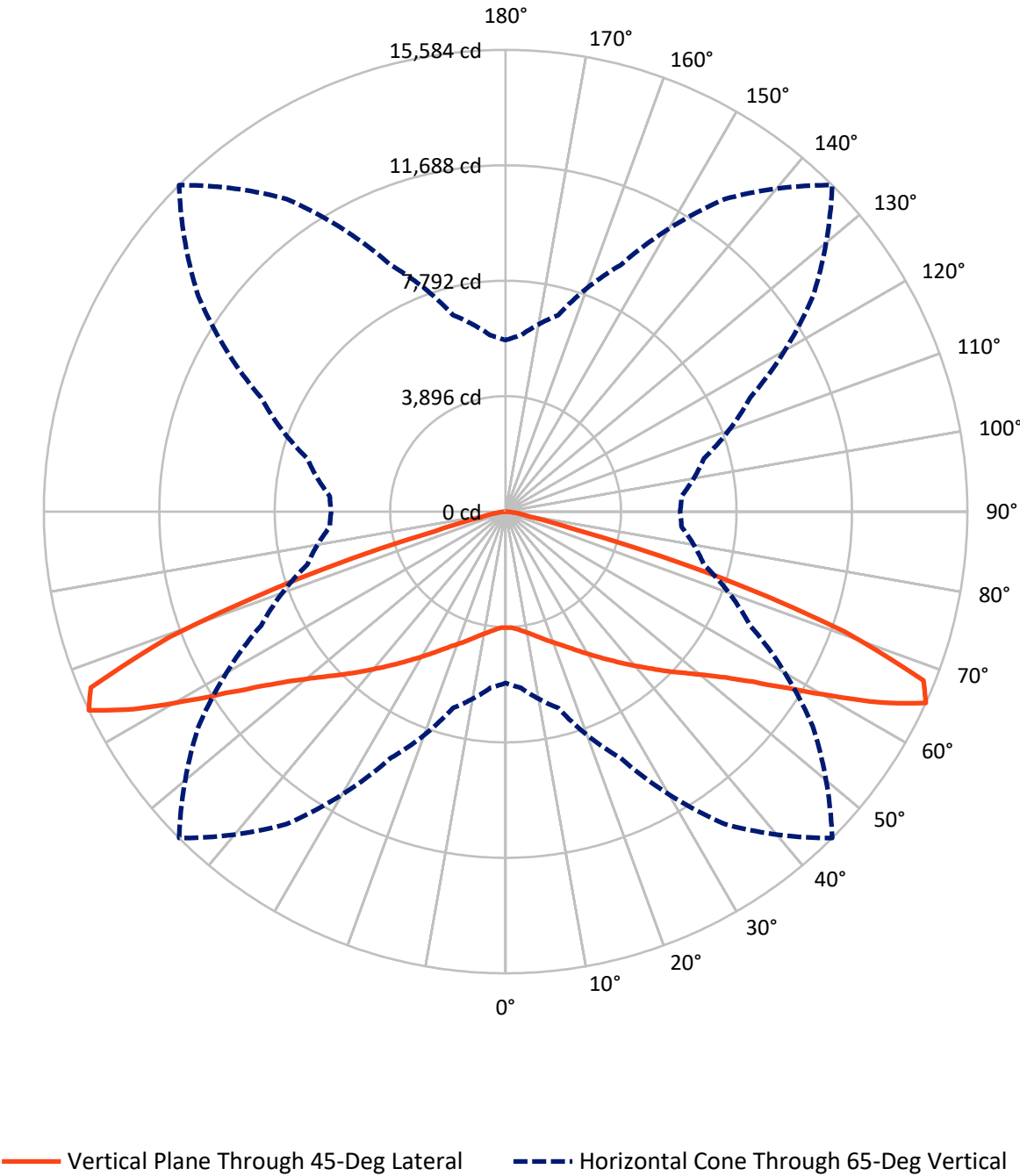
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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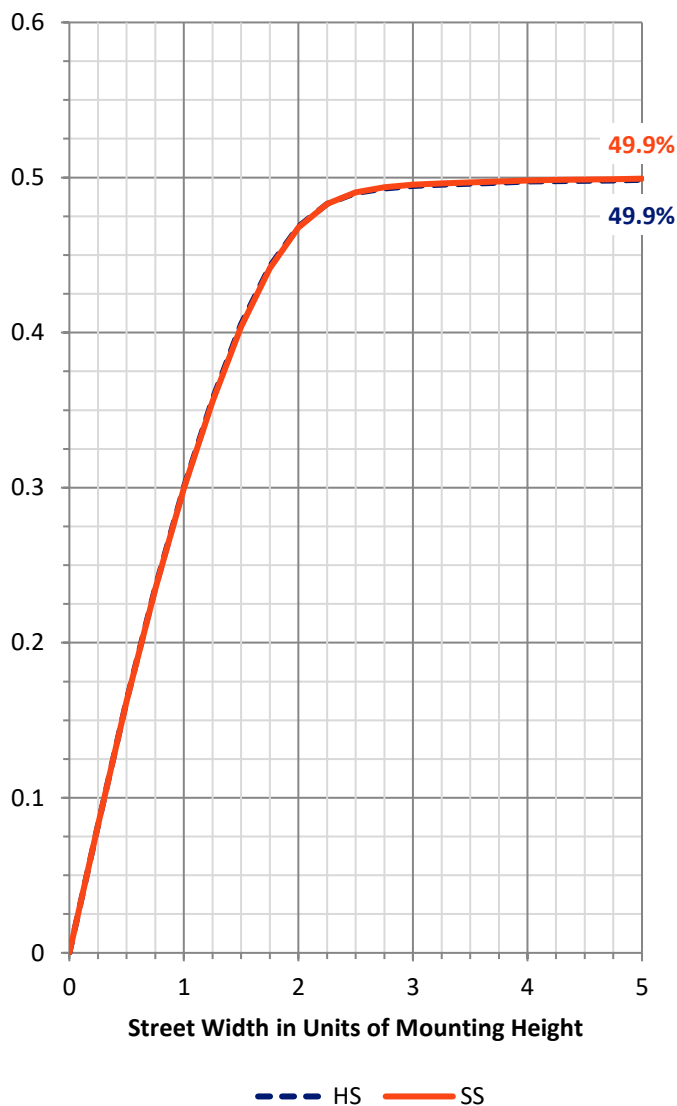
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16477.9	0.0	16477.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16477.9	0.0	16477.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	32955.8	0.0	32955.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.1	1.2
10°-20°	1263.0	3.8
20°-30°	2384.8	7.2
30°-40°	3905.0	11.8
40°-50°	6054.7	18.4
50°-60°	8944.0	27.1
60°-70°	8513.9	25.8
70°-80°	1373.8	4.2
80°-90°	129.5	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°	32955.8	100.0
0°-180°	32955.8	100.0

Coefficient of Utilization



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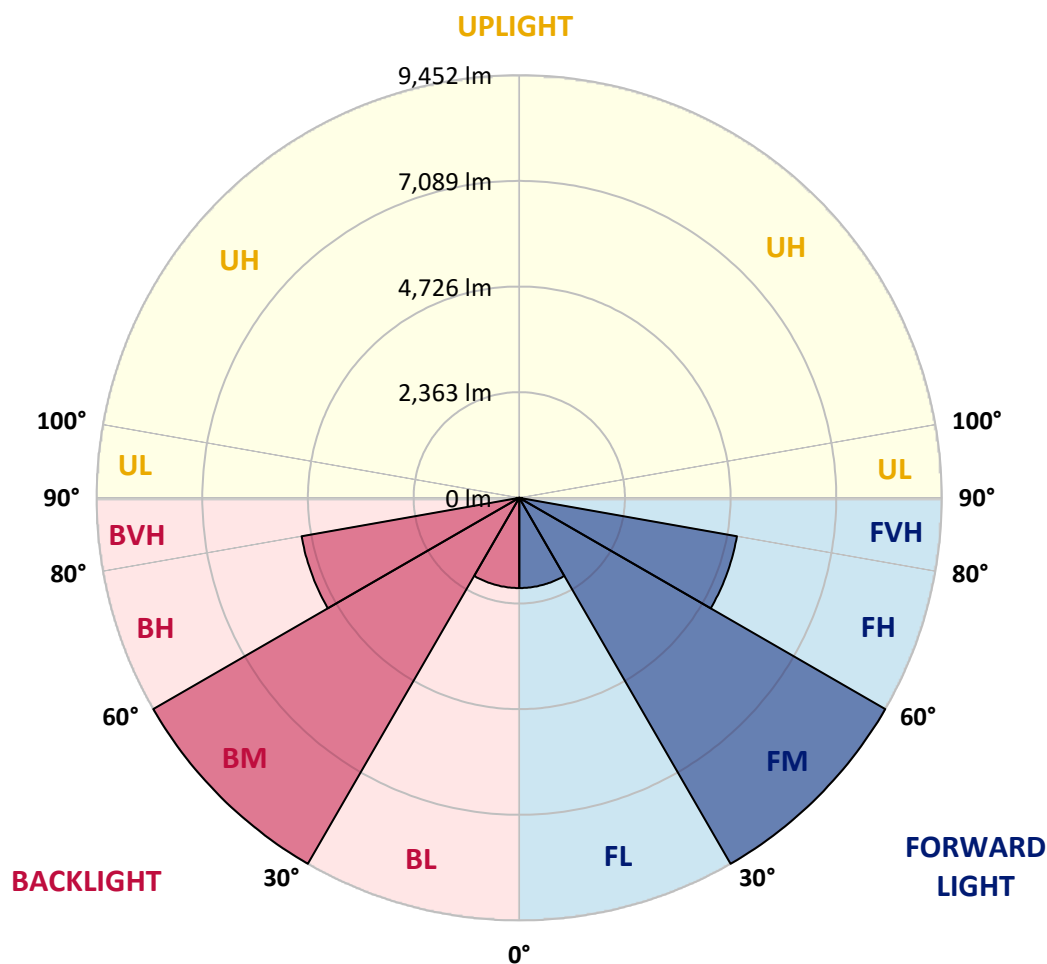
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2017.4	6.1			
FM	(30°-60°)	9451.9	28.7			
FH	(60°-80°)	4943.9	15.0			G2/5000
FVH	(80°-90°)	64.8	0.2			G1/100
BL	(0°-30°)	2017.4	6.1	B3/2500		
BM	(30°-60°)	9451.9	28.7	B5		
BH	(60°-80°)	4943.9	15.0	B4/5000		G2/5000
BVH	(80°-90°)	64.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3922.1	3922.1	3922.1	3922.1	3922.1	3922.1	3922.1	3922.1	3922.1	3922.1	3922.1
2.5°	3948.5	3935.3	3945.2	3936.9	3930.4	3923.7	3927.0	3938.6	3943.6	3945.2	3945.2
5°	4001.4	3989.8	3994.8	3994.8	3983.3	3980.0	3981.6	3989.8	3999.8	3999.8	3999.8
7.5°	4087.4	4075.8	4087.4	4080.8	4070.9	4067.6	4066.0	4072.5	4087.4	4087.4	4082.5
10°	4191.6	4178.3	4185.0	4181.7	4170.1	4165.1	4163.4	4173.4	4186.6	4185.0	4181.7
12.5°	4305.7	4290.8	4299.1	4289.1	4285.8	4280.9	4280.9	4279.3	4287.5	4280.9	4284.2
15°	4433.0	4423.1	4426.4	4419.8	4424.7	4421.4	4408.2	4401.6	4404.9	4395.0	4396.6
17.5°	4583.5	4560.3	4571.9	4568.6	4568.6	4575.2	4553.7	4545.5	4552.0	4542.1	4550.4
20°	4757.1	4734.0	4738.9	4732.3	4724.0	4730.6	4704.1	4710.8	4715.7	4709.2	4724.0
22.5°	4947.3	4917.4	4915.8	4919.1	4900.9	4902.6	4884.4	4900.9	4910.9	4892.6	4910.9
25°	5142.3	5111.0	5132.4	5124.2	5101.0	5105.9	5092.7	5109.3	5117.5	5094.4	5120.8
27.5°	5349.1	5327.5	5347.4	5352.3	5324.3	5344.0	5324.3	5339.1	5347.4	5312.7	5339.1
30°	5590.5	5568.9	5587.2	5600.4	5567.3	5598.8	5582.2	5592.1	5593.7	5552.4	5577.2
32.5°	5853.4	5820.3	5866.6	5873.1	5836.8	5874.8	5853.4	5866.6	5874.8	5818.6	5856.6
35°	6174.1	6132.8	6185.7	6177.5	6146.0	6177.5	6157.6	6177.5	6197.3	6129.5	6170.8
37.5°	6519.7	6476.7	6532.9	6518.1	6488.2	6509.8	6498.2	6511.4	6542.9	6470.1	6514.7
40°	6900.0	6847.1	6923.2	6896.7	6868.6	6865.2	6871.9	6880.1	6921.5	6840.4	6866.9
42.5°	7306.7	7250.5	7364.6	7323.3	7283.6	7257.1	7278.6	7295.2	7334.9	7243.9	7291.8
45°	7771.3	7706.9	7855.7	7806.1	7743.3	7688.7	7723.5	7748.3	7806.1	7696.9	7753.2
47.5°	8283.9	8211.2	8369.9	8355.1	8252.6	8133.5	8212.9	8283.9	8327.0	8194.7	8239.4
50°	8785.0	8728.8	8937.1	8955.3	8829.7	8662.6	8773.4	8880.9	8892.5	8718.9	8740.4
52.5°	9254.5	9198.3	9500.9	9615.0	9502.6	9304.1	9421.6	9530.7	9443.0	9218.2	9224.8
55°	9629.9	9583.6	9968.8	10263.2	10301.2	10137.6	10206.9	10203.7	9916.0	9570.4	9581.9
57.5°	9720.9	9714.2	10200.4	10823.7	11220.6	11240.4	11103.2	10752.7	10132.5	9667.9	9638.2
60°	9307.5	9348.8	10016.8	11116.4	12174.6	12614.5	12020.9	11020.5	9886.2	9241.3	9165.2
62.5°	8070.6	8179.8	8985.0	10759.2	12945.1	14195.2	12756.6	10613.8	8874.2	8032.6	7983.0
65°	5783.9	5974.0	6863.6	9181.8	12875.7	15584.1	12650.9	9107.4	6929.7	5959.1	5888.1
67.5°	2624.1	2817.5	3573.2	6286.5	11192.5	15207.1	11166.0	6352.7	3751.8	2827.5	2786.2
70°	950.8	983.8	1226.9	2516.6	7153.0	12116.7	7458.9	2534.8	1304.6	1048.3	1035.0
72.5°	575.4	580.4	631.6	901.2	2485.2	7356.3	2591.0	930.9	644.8	572.2	582.0
75°	365.4	362.1	449.8	550.6	881.3	2481.8	924.3	550.6	448.1	408.4	411.7
77.5°	262.9	271.2	322.5	411.7	555.6	841.6	545.6	393.5	322.5	264.6	269.5
80°	196.8	201.7	234.8	320.8	390.2	524.2	347.3	291.0	243.0	165.3	170.4
82.5°	142.2	142.2	153.8	233.2	238.1	282.7	188.5	205.0	160.4	117.4	117.4
85°	84.4	82.7	95.9	138.9	124.0	104.1	86.0	125.7	100.9	72.8	71.1
87.5°	29.7	31.4	29.7	39.7	33.1	28.1	26.4	34.7	28.1	24.8	23.2
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)