

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: P969945

Luminaire Tested: **NAV-SB6A-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969945
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-SB6A-827-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25406.7 lumens
Efficiency: N/A
Efficacy: 148.7 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): 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

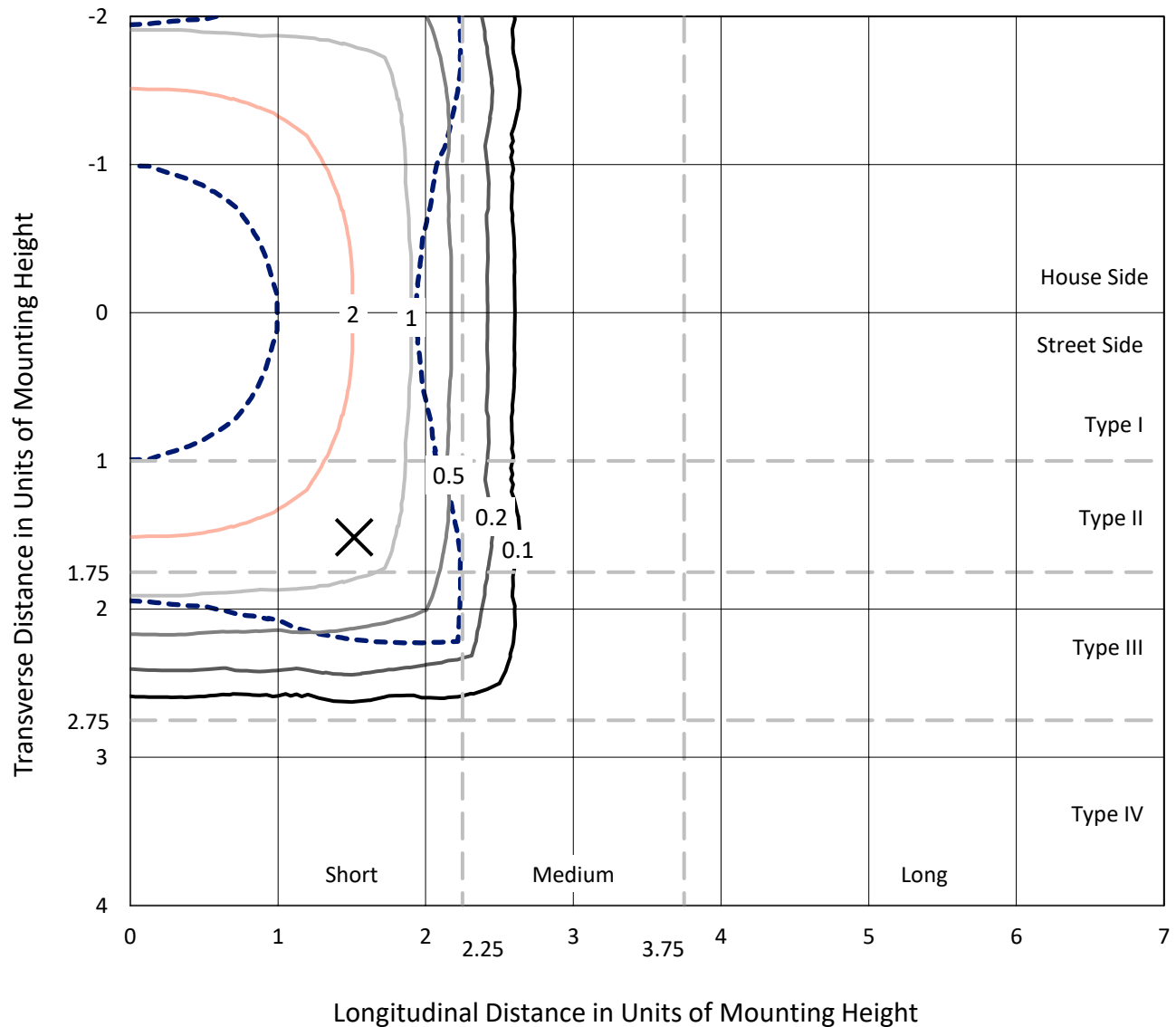


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Iso-Footcandle Lines of Horizontal Illumination

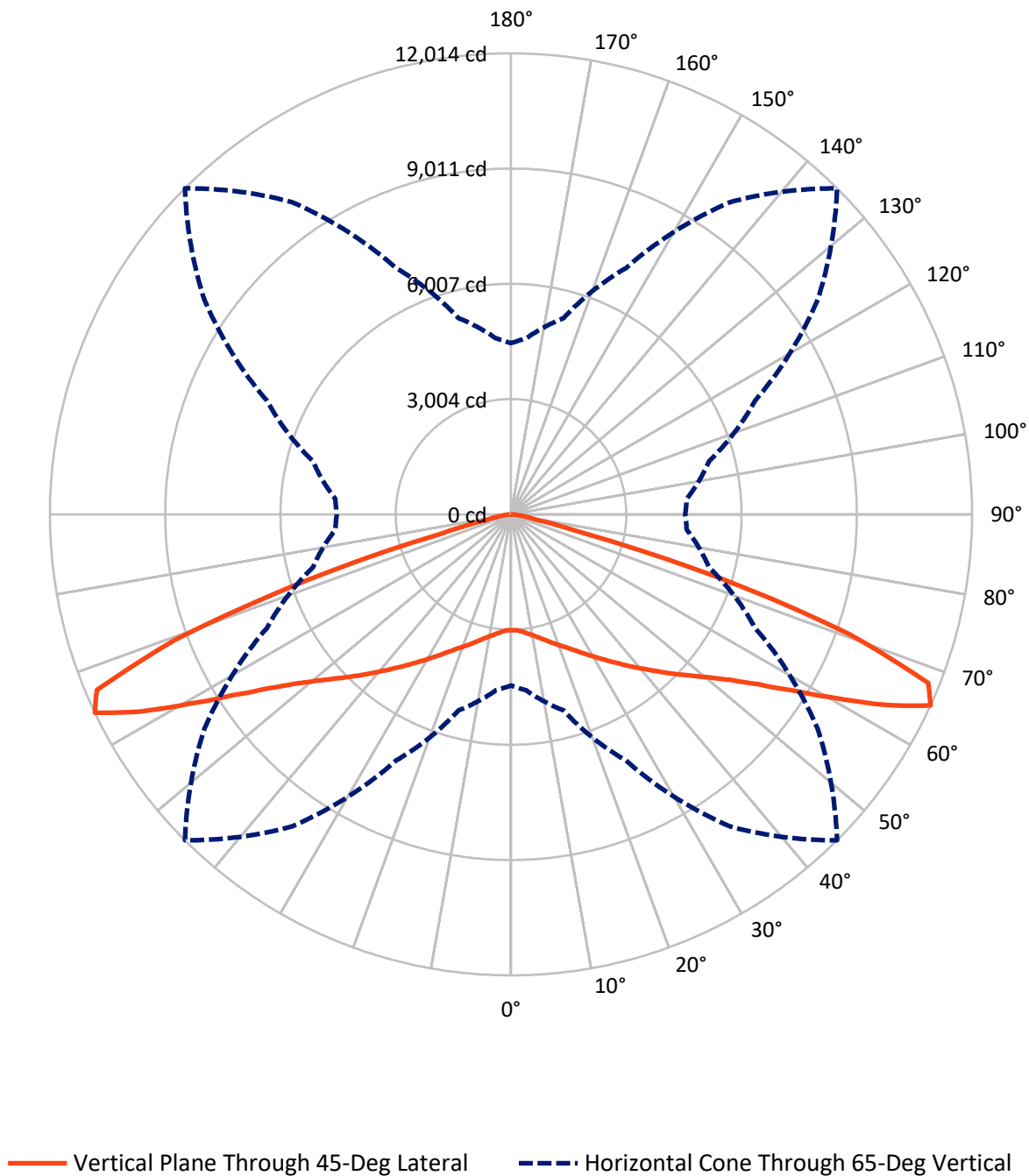
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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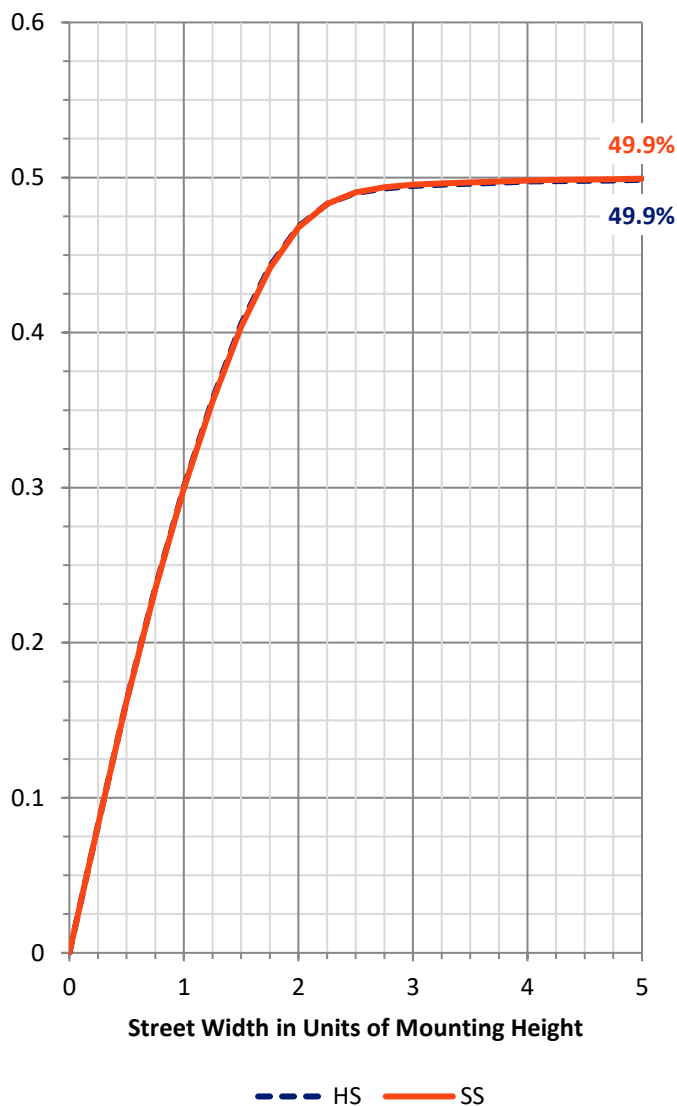
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12703.3	0.0	12703.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12703.3	0.0	12703.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	25406.7	0.0	25406.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.4	1.2
10°-20°	973.7	3.8
20°-30°	1838.5	7.2
30°-40°	3010.5	11.8
40°-50°	4667.8	18.4
50°-60°	6895.2	27.1
60°-70°	6563.6	25.8
70°-80°	1059.1	4.2
80°-90°	99.8	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°	25406.7	100.0
0°-180°	25406.7	100.0

Coefficient of Utilization



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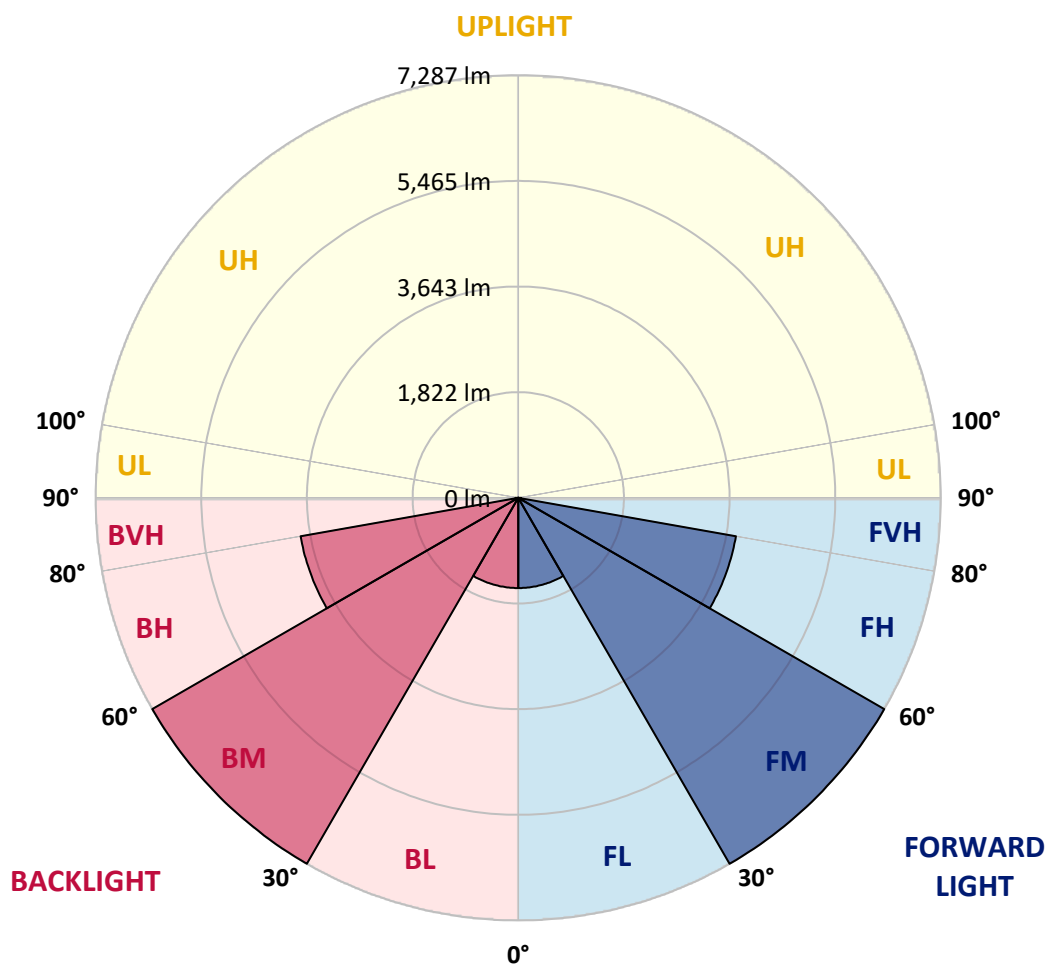
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1555.3	6.1			
FM	(30°-60°)	7286.7	28.7			
FH	(60°-80°)	3811.4	15.0			G2/5000
FVH	(80°-90°)	49.9	0.2			G1/100
BL	(0°-30°)	1555.3	6.1	B3/2500		
BM	(30°-60°)	7286.7	28.7	B4/8500		
BH	(60°-80°)	3811.4	15.0	B4/5000		G2/5000
BVH	(80°-90°)	49.9	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°	3023.6	3023.6	3023.6	3023.6	3023.6	3023.6	3023.6	3023.6	3023.6	3023.6	3023.6
2.5°	3044.0	3033.8	3041.5	3035.1	3030.0	3024.9	3027.4	3036.4	3040.3	3041.5	3041.5
5°	3084.8	3075.9	3079.7	3079.7	3070.8	3068.2	3069.6	3075.9	3083.6	3083.6	3083.6
7.5°	3151.2	3142.2	3151.2	3146.0	3138.3	3135.8	3134.6	3139.7	3151.2	3151.2	3147.3
10°	3231.4	3221.3	3226.3	3223.8	3214.8	3211.0	3209.8	3217.4	3227.6	3226.3	3223.8
12.5°	3319.4	3307.9	3314.2	3306.6	3304.1	3300.3	3300.3	3299.0	3305.3	3300.3	3302.9
15°	3417.6	3409.9	3412.4	3407.3	3411.2	3408.6	3398.4	3393.4	3395.8	3388.2	3389.5
17.5°	3533.6	3515.6	3524.6	3522.1	3522.1	3527.1	3510.6	3504.3	3509.3	3501.7	3508.1
20°	3667.3	3649.5	3653.4	3648.3	3641.9	3647.0	3626.6	3631.7	3635.5	3630.4	3641.9
22.5°	3814.0	3791.1	3789.7	3792.3	3778.3	3779.6	3765.5	3778.3	3785.9	3771.9	3785.9
25°	3964.4	3940.2	3956.7	3950.3	3932.5	3936.3	3926.2	3938.9	3945.2	3927.4	3947.8
27.5°	4123.8	4107.2	4122.4	4126.2	4104.6	4119.9	4104.6	4116.1	4122.4	4095.7	4116.1
30°	4309.8	4293.3	4307.3	4317.5	4292.0	4316.2	4303.5	4311.2	4312.4	4280.5	4299.7
32.5°	4512.6	4487.0	4522.7	4527.8	4499.8	4529.1	4512.6	4522.7	4529.1	4485.7	4515.1
35°	4759.8	4727.9	4768.7	4762.4	4738.2	4762.4	4747.1	4762.4	4777.6	4725.5	4757.2
37.5°	5026.3	4993.1	5036.4	5025.0	5002.0	5018.6	5009.7	5019.8	5044.1	4988.0	5022.4
40°	5319.4	5278.6	5337.3	5316.9	5295.3	5292.7	5297.7	5304.2	5336.0	5273.5	5293.9
42.5°	5633.0	5589.6	5677.6	5645.8	5615.2	5594.8	5611.4	5624.1	5654.7	5584.6	5621.5
45°	5991.2	5941.5	6056.2	6018.0	5969.5	5927.5	5954.2	5973.4	6018.0	5933.8	5977.2
47.5°	6386.4	6330.3	6452.7	6441.2	6362.2	6270.3	6331.5	6386.4	6419.5	6317.6	6351.9
50°	6772.6	6729.2	6889.8	6903.9	6807.0	6678.3	6763.7	6846.6	6855.5	6721.6	6738.2
52.5°	7134.6	7091.3	7324.5	7412.5	7325.9	7172.8	7263.4	7347.5	7280.0	7106.6	7111.7
55°	7424.0	7388.3	7685.3	7912.2	7941.5	7815.3	7868.9	7866.4	7644.6	7378.2	7387.1
57.5°	7494.1	7489.1	7863.8	8344.3	8650.3	8665.6	8559.8	8289.6	7811.5	7453.3	7430.3
60°	7175.4	7207.3	7722.2	8570.0	9385.8	9724.9	9267.2	8496.0	7621.6	7124.5	7065.8
62.5°	6222.0	6306.1	6926.8	8294.6	9979.8	10943.5	9834.5	8182.5	6841.5	6192.6	6154.4
65°	4459.0	4605.6	5291.4	7078.5	9926.3	12014.3	9752.9	7021.1	5342.4	4594.2	4539.3
67.5°	2022.9	2172.2	2754.7	4846.5	8628.7	11723.6	8608.3	4897.4	2892.3	2179.8	2147.9
70°	733.0	758.5	945.9	1940.1	5514.5	9341.2	5750.2	1954.2	1005.7	808.2	798.0
72.5°	443.6	447.4	487.0	694.7	1915.9	5671.2	1997.5	717.7	497.1	441.1	448.7
75°	281.7	279.2	346.8	424.5	679.5	1913.4	712.6	424.5	345.4	314.9	317.4
77.5°	202.6	209.1	248.6	317.4	428.3	648.8	420.7	303.4	248.6	204.0	207.8
80°	151.7	155.5	181.0	247.3	300.8	404.1	267.7	224.4	187.4	127.5	131.3
82.5°	109.7	109.7	118.6	179.8	183.6	218.0	145.3	158.1	123.6	90.5	90.5
85°	65.0	63.8	73.9	107.1	95.6	80.3	66.3	96.9	77.8	56.1	54.8
87.5°	23.0	24.2	23.0	30.5	25.5	21.6	20.4	26.8	21.6	19.2	17.8
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)