

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: P965170

Luminaire Tested: **NAV-SB3D-760-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3D-760-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34673.7 lumens
Efficiency: N/A
Efficacy: 159.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 218.1
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

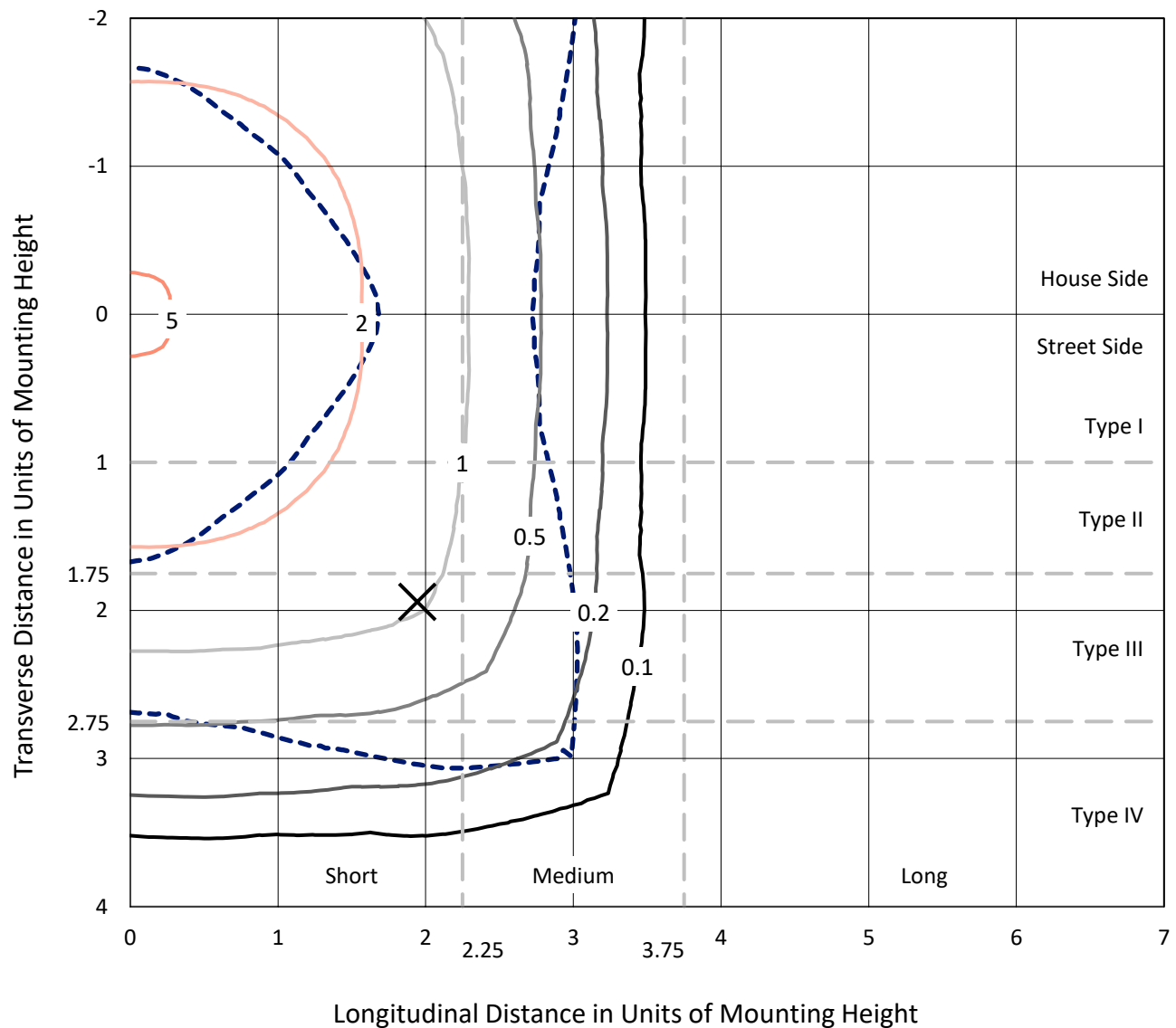


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Iso-Footcandle Lines of Horizontal Illumination

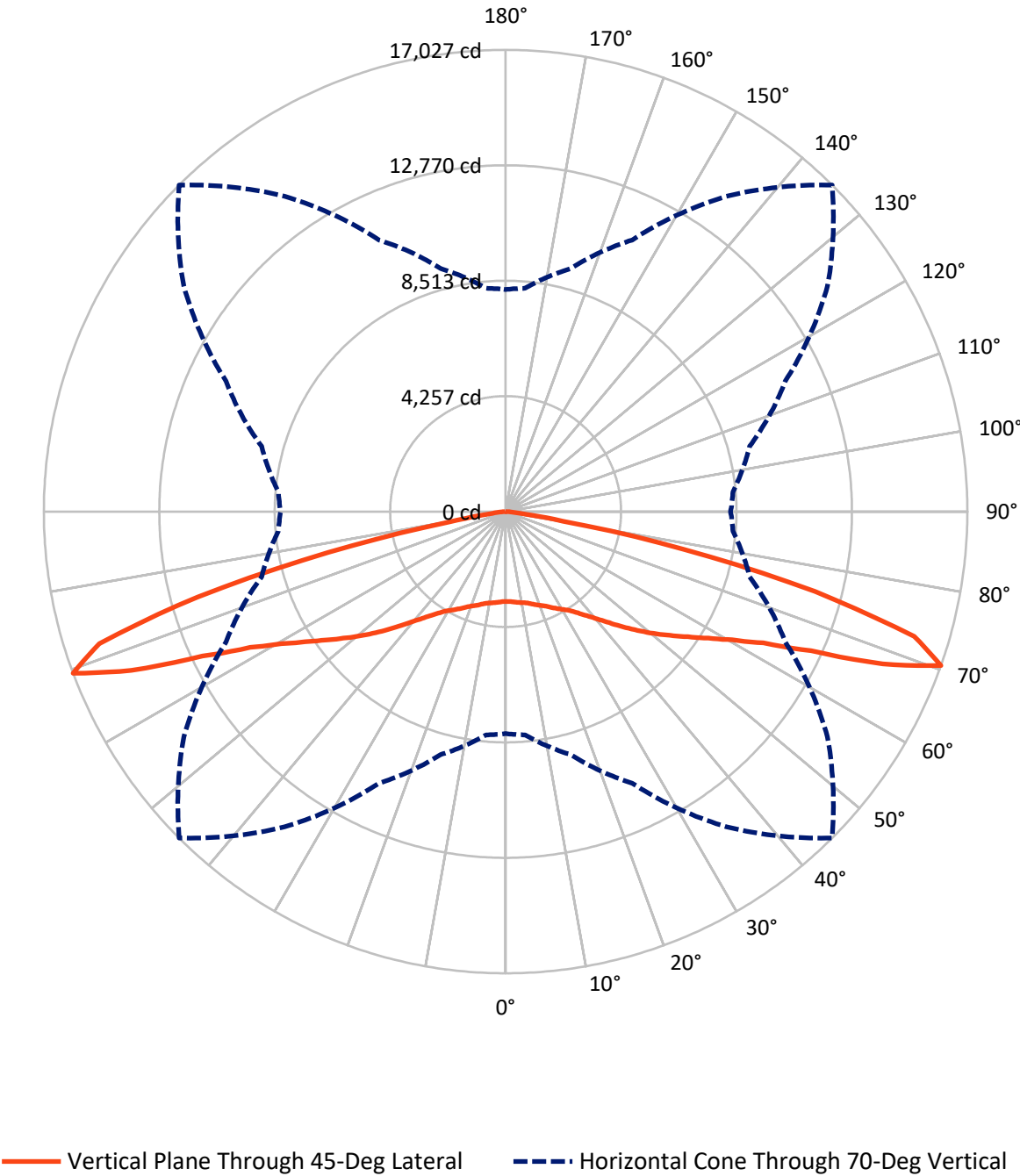
× Max cd
- - - 1/2 Max cd



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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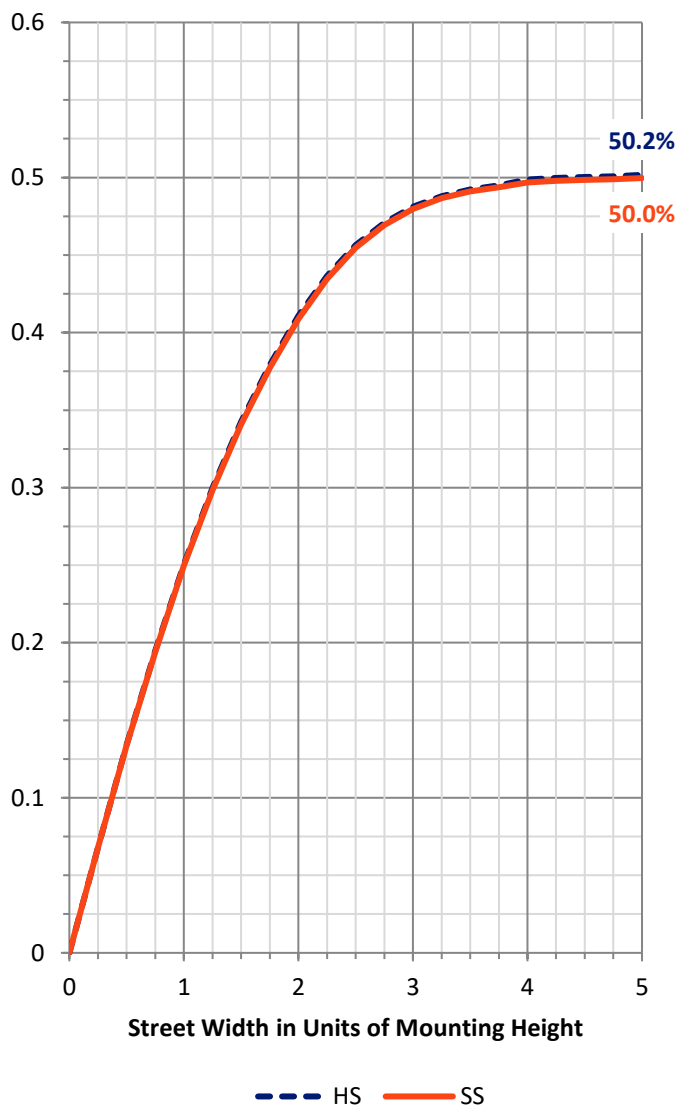
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17336.8	0.0	17336.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17336.8	0.0	17336.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	34673.7	0.0	34673.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.7	0.9
10°-20°	1000.6	2.9
20°-30°	1788.1	5.2
30°-40°	2898.5	8.4
40°-50°	4721.2	13.6
50°-60°	7198.3	20.8
60°-70°	10708.8	30.9
70°-80°	5836.7	16.8
80°-90°	198.8	0.6
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°	34673.7	100.0
0°-180°	34673.7	100.0

Coefficient of Utilization



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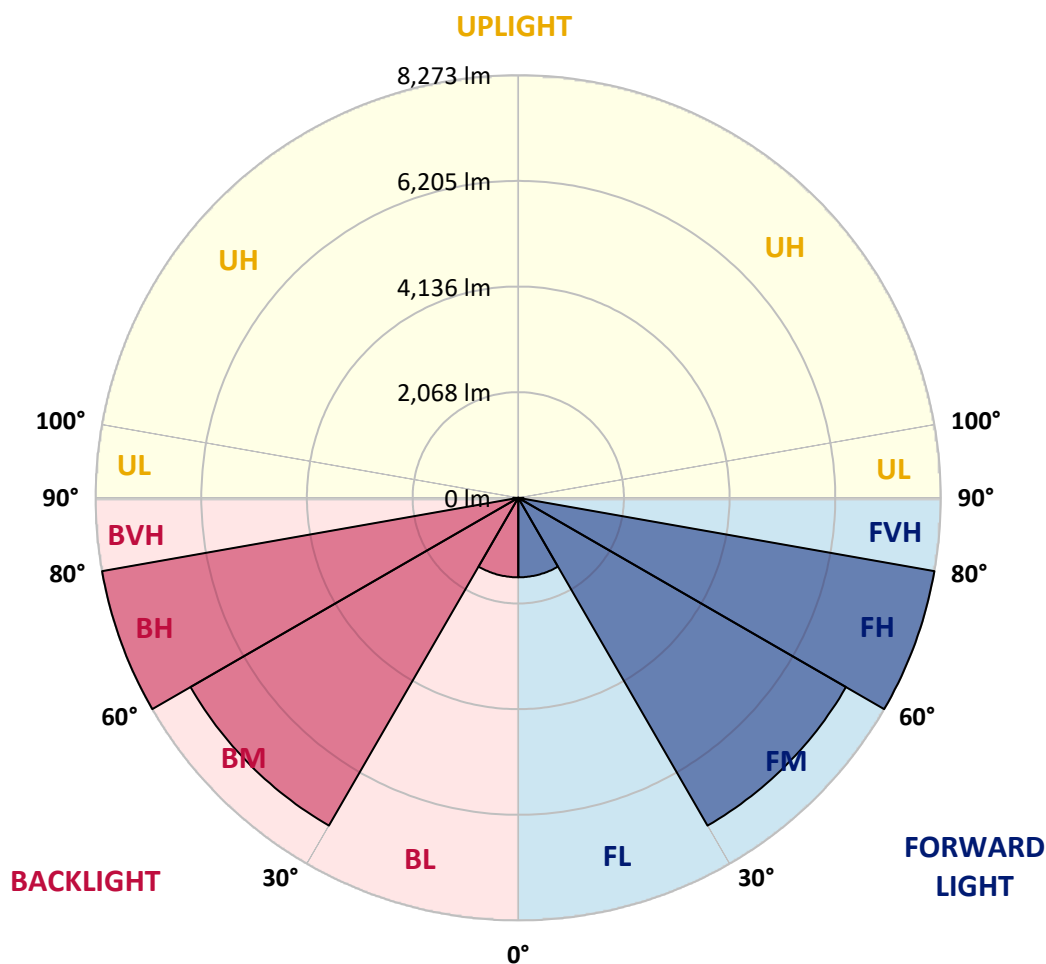
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1555.7	4.5			
FM	(30°-60°)	7409.1	21.4			
FH	(60°-80°)	8272.7	23.9			G4/12000
FVH	(80°-90°)	99.4	0.3			G1/100
BL	(0°-30°)	1555.7	4.5	B3/2500		
BM	(30°-60°)	7409.1	21.4	B4/8500		
BH	(60°-80°)	8272.7	23.9	B5		G4/12000
BVH	(80°-90°)	99.4	0.3			G1/100
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°	3321.4	3321.4	3321.4	3321.4	3321.4	3321.4	3321.4	3321.4	3321.4	3321.4	3321.4
2.5°	3337.1	3340.6	3333.6	3330.1	3326.6	3321.4	3323.2	3331.9	3338.8	3337.1	3338.8
5°	3364.9	3368.4	3363.1	3361.4	3354.4	3352.7	3352.7	3361.4	3366.6	3363.1	3364.9
7.5°	3396.2	3401.5	3392.7	3391.0	3387.5	3384.0	3382.3	3391.0	3396.2	3396.2	3396.2
10°	3425.9	3431.1	3424.1	3418.9	3415.4	3415.4	3411.9	3418.9	3427.6	3425.9	3425.9
12.5°	3457.1	3460.6	3453.6	3450.2	3450.2	3455.4	3450.2	3453.6	3460.6	3457.1	3455.4
15°	3495.5	3497.2	3495.5	3500.7	3509.4	3526.8	3511.1	3507.7	3511.1	3502.4	3502.4
17.5°	3547.7	3551.1	3558.1	3570.3	3582.5	3613.8	3586.0	3577.2	3577.2	3559.8	3559.8
20°	3612.1	3617.3	3627.8	3648.7	3664.3	3693.9	3666.0	3653.8	3648.7	3626.0	3626.0
22.5°	3680.0	3688.7	3704.3	3732.2	3760.0	3787.9	3760.0	3739.2	3723.5	3693.9	3692.2
25°	3758.3	3768.7	3793.1	3838.4	3876.7	3916.7	3883.6	3841.9	3810.5	3768.7	3767.0
27.5°	3869.7	3881.9	3911.5	3967.2	4016.0	4050.8	4019.4	3965.4	3922.0	3871.4	3869.7
30°	4026.4	4038.6	4073.3	4132.6	4165.7	4188.3	4167.4	4125.6	4073.3	4016.0	4016.0
32.5°	4228.3	4244.0	4282.2	4338.0	4345.0	4348.5	4341.5	4320.6	4282.2	4212.6	4214.4
35°	4484.2	4501.6	4545.2	4590.4	4583.4	4590.4	4579.9	4573.0	4545.2	4465.1	4465.1
37.5°	4797.5	4818.4	4863.7	4898.5	4881.2	4872.4	4874.2	4875.9	4860.2	4771.5	4771.5
40°	5161.4	5189.3	5222.3	5258.9	5229.2	5203.1	5220.5	5234.5	5220.5	5130.0	5130.0
42.5°	5535.6	5575.7	5610.4	5662.7	5638.3	5605.3	5629.6	5645.3	5615.7	5518.2	5525.2
45°	5951.7	5990.0	6035.2	6113.6	6096.2	6061.3	6096.2	6099.7	6049.1	5934.2	5946.4
47.5°	6381.6	6421.7	6489.6	6594.0	6587.1	6548.7	6594.0	6569.6	6505.3	6367.7	6359.0
50°	6789.0	6844.6	6949.1	7095.4	7109.3	7062.2	7123.2	7076.2	6968.3	6796.0	6792.5
52.5°	7171.9	7231.2	7396.5	7594.9	7645.5	7584.5	7666.3	7584.5	7422.6	7201.5	7180.6
55°	7574.0	7640.2	7836.9	8096.3	8197.2	8152.0	8228.6	8105.0	7875.2	7607.1	7570.5
57.5°	8047.6	8087.6	8322.6	8630.7	8801.3	8811.7	8846.6	8637.7	8359.2	8054.6	8012.7
60°	8561.1	8616.8	8872.7	9241.7	9511.6	9598.6	9562.0	9252.2	8928.4	8578.5	8522.8
62.5°	9219.1	9280.0	9586.4	10028.6	10455.0	10670.9	10528.2	10079.0	9678.7	9259.1	9186.0
65°	9763.9	9831.8	10385.4	11173.9	11950.4	12383.8	12025.2	11198.3	10477.7	9885.8	9788.3
67.5°	9368.8	9452.3	10321.0	11769.4	13699.8	14993.2	13766.0	11946.9	10535.2	9732.6	9612.6
70°	8188.5	8266.9	9280.0	11050.4	14192.5	17026.5	14488.4	11375.9	9313.0	8414.8	8294.7
72.5°	5436.4	5688.9	6714.2	8837.9	12672.8	15755.7	12798.2	8658.6	6228.4	5424.2	5248.4
75°	1803.4	2005.4	2705.2	4581.6	8488.0	11783.2	8080.6	4054.3	2142.9	1542.3	1458.8
77.5°	454.4	524.0	722.4	1310.8	3385.8	6708.9	3048.0	1070.6	583.1	407.3	363.8
80°	221.1	243.7	348.2	437.0	847.8	2132.4	795.5	410.8	275.0	212.4	195.0
82.5°	121.9	123.6	196.7	247.2	315.1	551.9	327.3	240.3	158.4	128.8	128.8
85°	74.8	73.1	104.4	132.3	132.3	196.7	156.6	132.3	90.5	80.1	83.5
87.5°	29.6	29.6	38.3	41.8	36.6	50.5	40.1	43.6	34.8	33.1	34.8
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)