

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: P966658

Luminaire Tested: **NAV-SB4C-735-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966658
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-SB4C-735-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32218.8 lumens
Efficiency: N/A
Efficacy: 160.5 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): 200.7
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

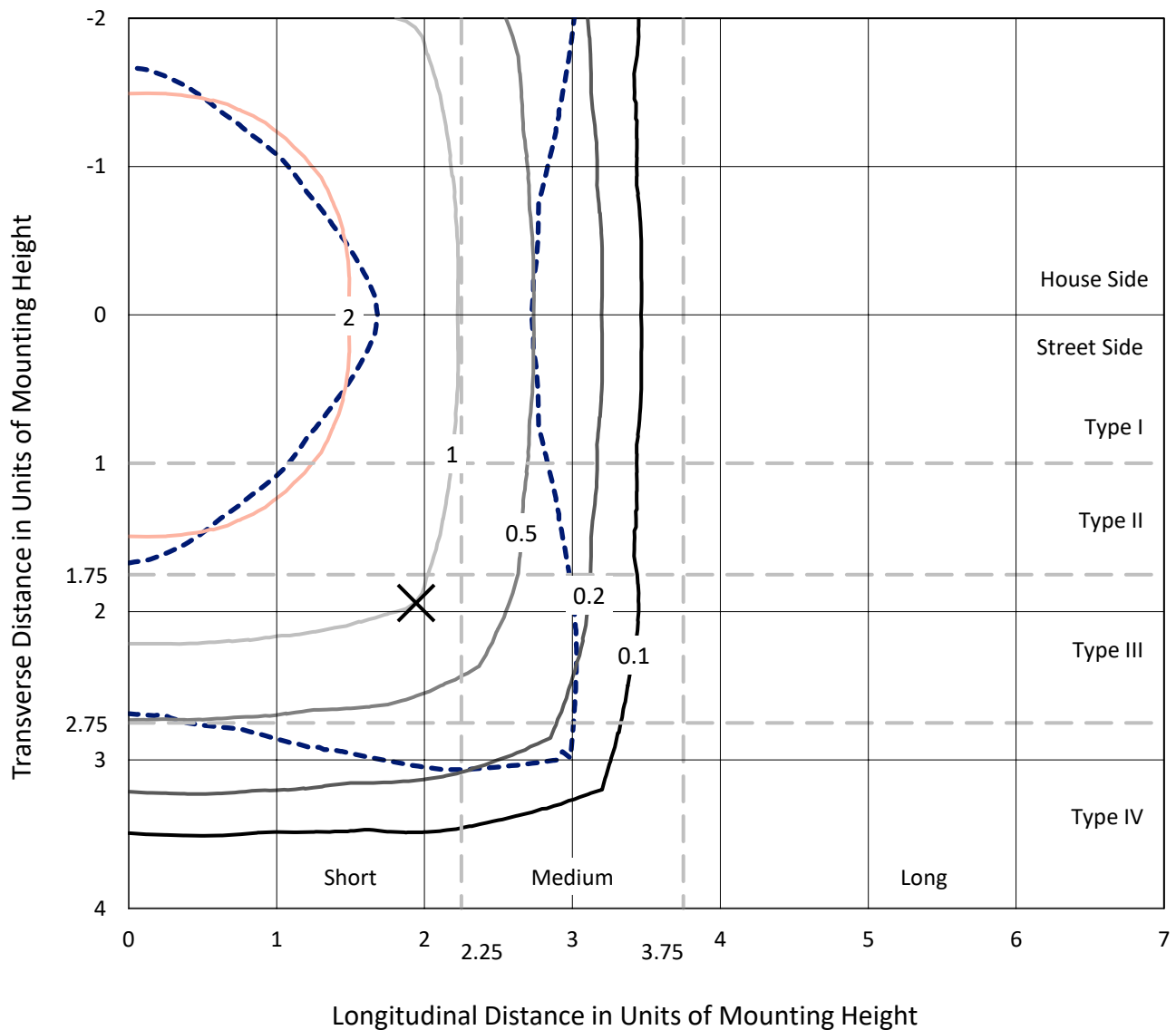


REPORT NUMBER: P966658

CATALOG NUMBER: NAV-SB4C-735-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

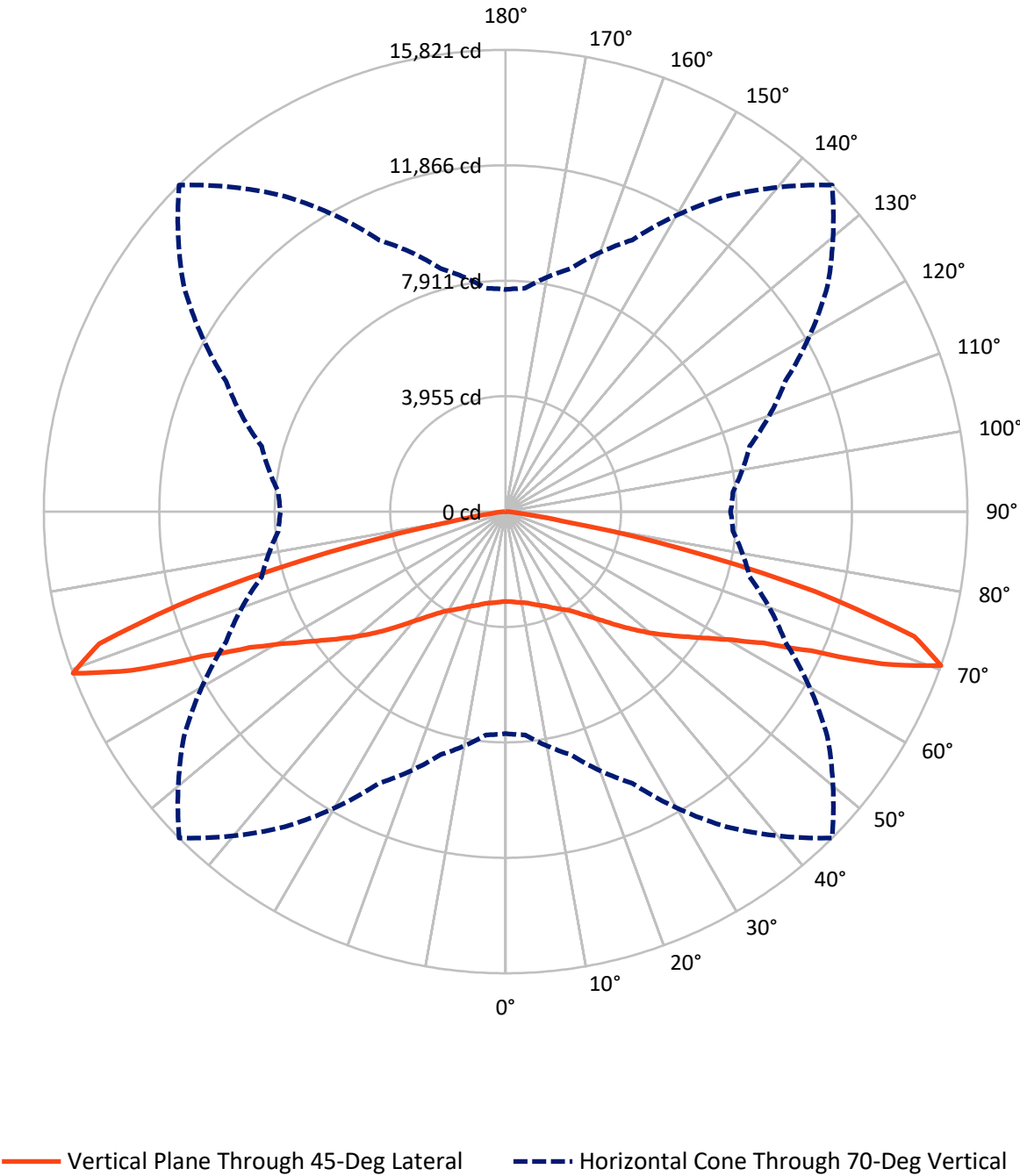
× Max cd
- - - 1/2 Max cd



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

REPORT NUMBER: P966658
CATALOG NUMBER: NAV-SB4C-735-U-5MQ

Luminous Intensity Polar Plot



REPORT NUMBER: P966658

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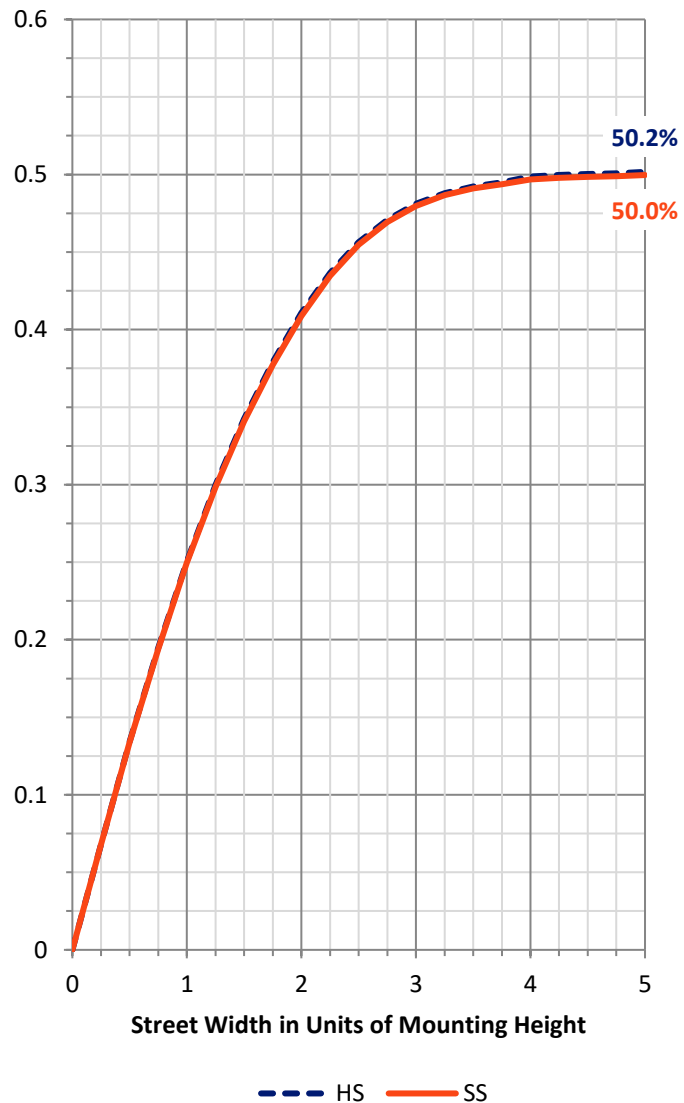
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16109.4	0.0	16109.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16109.4	0.0	16109.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	32218.8	0.0	32218.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.8	0.9
10°-20°	929.7	2.9
20°-30°	1661.5	5.2
30°-40°	2693.3	8.4
40°-50°	4387.0	13.6
50°-60°	6688.7	20.8
60°-70°	9950.6	30.9
70°-80°	5423.4	16.8
80°-90°	184.7	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°	32218.8	100.0
0°-180°	32218.8	100.0

Coefficient of Utilization



REPORT NUMBER: P966658

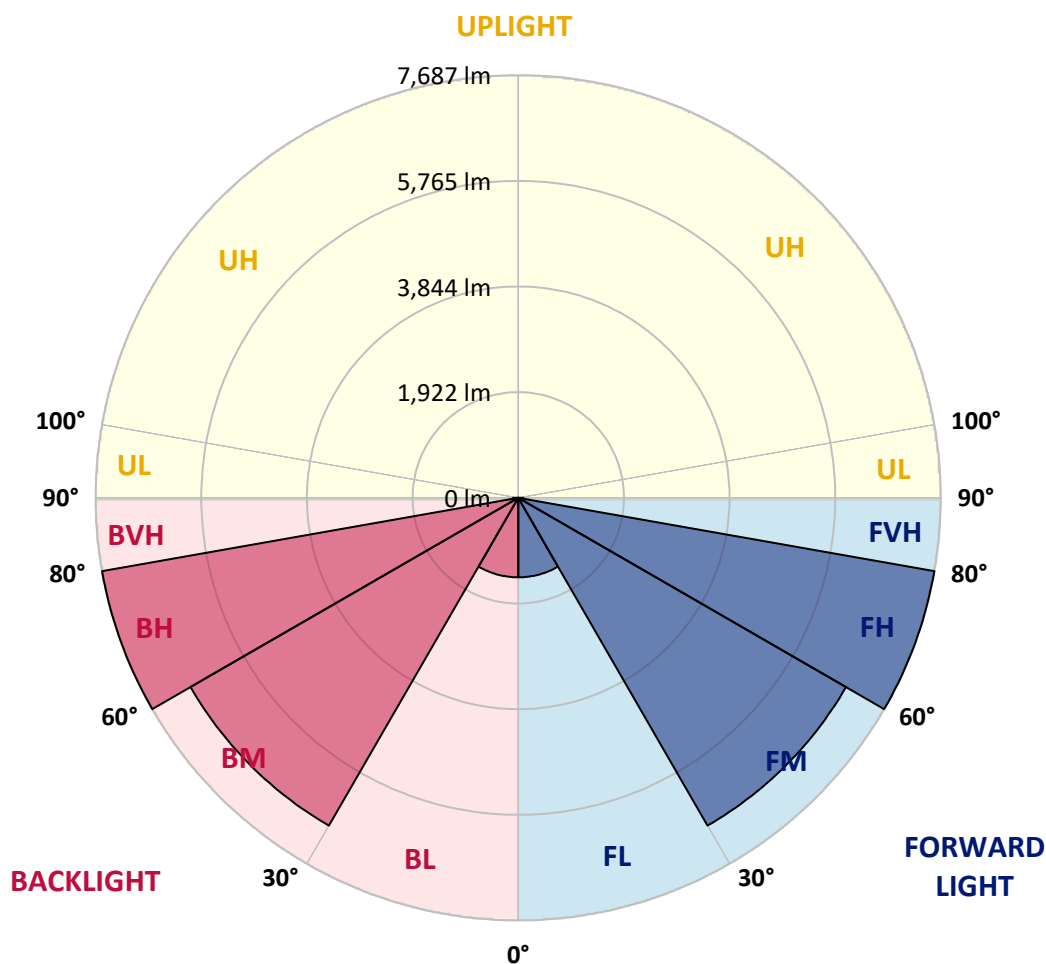
CATALOG NUMBER: NAV-SB4C-735-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1445.5	4.5			
FM	(30°-60°)	6884.5	21.4			
FH	(60°-80°)	7687.0	23.9			G4/12000
FVH	(80°-90°)	92.3	0.3			G1/100
BL	(0°-30°)	1445.5	4.5	B3/2500		
BM	(30°-60°)	6884.5	21.4	B4/8500		
BH	(60°-80°)	7687.0	23.9	B5		G4/12000
BVH	(80°-90°)	92.3	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



REPORT NUMBER: P966658

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3086.3	3086.3	3086.3	3086.3	3086.3	3086.3	3086.3	3086.3	3086.3	3086.3	3086.3
2.5°	3100.8	3104.0	3097.5	3094.3	3091.1	3086.3	3087.8	3095.9	3102.4	3100.8	3102.4
5°	3126.7	3129.9	3125.0	3123.5	3116.9	3115.4	3115.4	3123.5	3128.3	3125.0	3126.7
7.5°	3155.8	3160.6	3152.6	3151.0	3147.7	3144.5	3142.9	3151.0	3155.8	3155.8	3155.8
10°	3183.2	3188.2	3181.7	3176.8	3173.6	3173.6	3170.3	3176.8	3184.9	3183.2	3183.2
12.5°	3212.4	3215.6	3209.2	3205.9	3205.9	3210.8	3205.9	3209.2	3215.6	3212.4	3210.8
15°	3248.0	3249.6	3248.0	3252.8	3260.9	3277.1	3262.6	3259.3	3262.6	3254.5	3254.5
17.5°	3296.5	3299.8	3306.2	3317.5	3328.9	3358.0	3332.1	3324.0	3324.0	3307.9	3307.9
20°	3356.4	3361.2	3370.9	3390.3	3404.8	3432.4	3406.5	3395.2	3390.3	3369.3	3369.3
22.5°	3419.4	3427.5	3442.1	3468.0	3493.8	3519.7	3493.8	3474.4	3459.9	3432.4	3430.8
25°	3492.3	3501.9	3524.6	3566.6	3602.3	3639.5	3608.7	3569.9	3540.8	3501.9	3500.3
27.5°	3595.7	3607.1	3634.5	3686.3	3731.6	3764.0	3734.9	3684.7	3644.3	3597.3	3595.7
30°	3741.4	3752.6	3785.0	3840.0	3870.7	3891.7	3872.3	3833.5	3785.0	3731.6	3731.6
32.5°	3928.9	3943.5	3979.2	4030.8	4037.4	4040.6	4034.1	4014.7	3979.2	3914.4	3916.0
35°	4166.7	4182.9	4223.3	4265.4	4259.0	4265.4	4255.7	4249.2	4223.3	4148.9	4148.9
37.5°	4457.9	4477.3	4519.3	4551.7	4535.5	4527.4	4529.1	4530.7	4516.2	4433.6	4433.6
40°	4796.0	4821.8	4852.6	4886.5	4859.0	4834.7	4850.9	4863.9	4850.9	4766.9	4766.9
42.5°	5143.8	5181.0	5213.3	5261.8	5239.2	5208.4	5231.1	5245.6	5218.2	5127.6	5134.0
45°	5530.3	5565.9	5608.0	5680.8	5664.6	5632.2	5664.6	5667.8	5620.9	5514.1	5525.5
47.5°	5929.8	5967.0	6030.1	6127.1	6120.7	6085.1	6127.1	6104.5	6044.6	5916.9	5908.8
50°	6308.4	6360.1	6457.2	6593.0	6605.9	6562.3	6618.9	6575.3	6474.9	6314.8	6311.5
52.5°	6664.1	6719.2	6872.8	7057.2	7104.2	7047.5	7123.5	7047.5	6897.1	6691.7	6672.2
55°	7037.9	7099.3	7282.1	7523.1	7616.9	7574.9	7646.0	7531.2	7317.7	7068.6	7034.6
57.5°	7477.8	7515.0	7733.3	8019.7	8178.2	8187.9	8220.2	8026.2	7767.3	7484.2	7445.5
60°	7954.9	8006.7	8244.5	8587.4	8838.2	8919.0	8885.0	8597.1	8296.2	7971.1	7919.4
62.5°	8566.4	8623.0	8907.7	9318.6	9714.8	9915.4	9782.8	9365.4	8993.5	8603.6	8535.7
65°	9072.7	9135.7	9650.2	10382.8	11104.2	11507.1	11173.8	10405.5	9735.9	9185.9	9095.3
67.5°	8705.5	8783.1	9590.3	10936.0	12729.9	13931.7	12791.4	11101.1	9789.3	9043.6	8932.0
70°	7608.8	7681.7	8623.0	10268.0	13187.6	15821.0	13462.7	10570.5	8653.8	7819.1	7707.5
72.5°	5051.5	5286.0	6238.8	8212.2	11775.5	14640.2	11892.0	8045.5	5787.5	5040.2	4876.8
75°	1675.8	1863.3	2513.6	4257.3	7887.1	10949.0	7508.5	3767.2	1991.2	1433.2	1355.5
77.5°	422.2	486.9	671.3	1218.0	3146.0	6233.9	2832.3	994.8	541.9	378.5	338.0
80°	205.4	226.4	323.5	406.0	787.7	1981.4	739.2	381.7	255.5	197.3	181.1
82.5°	113.3	114.8	182.8	229.7	292.7	512.7	304.1	223.2	147.2	119.7	119.7
85°	69.6	68.0	97.1	122.9	122.9	182.8	145.5	122.9	84.2	74.4	77.6
87.5°	27.5	27.5	35.6	38.8	33.9	46.9	37.2	40.5	32.4	30.7	32.4
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)