

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: P964675

Luminaire Tested: **NAV-SB3C-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964675
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-SB3C-827-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20986.9 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 149.1
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



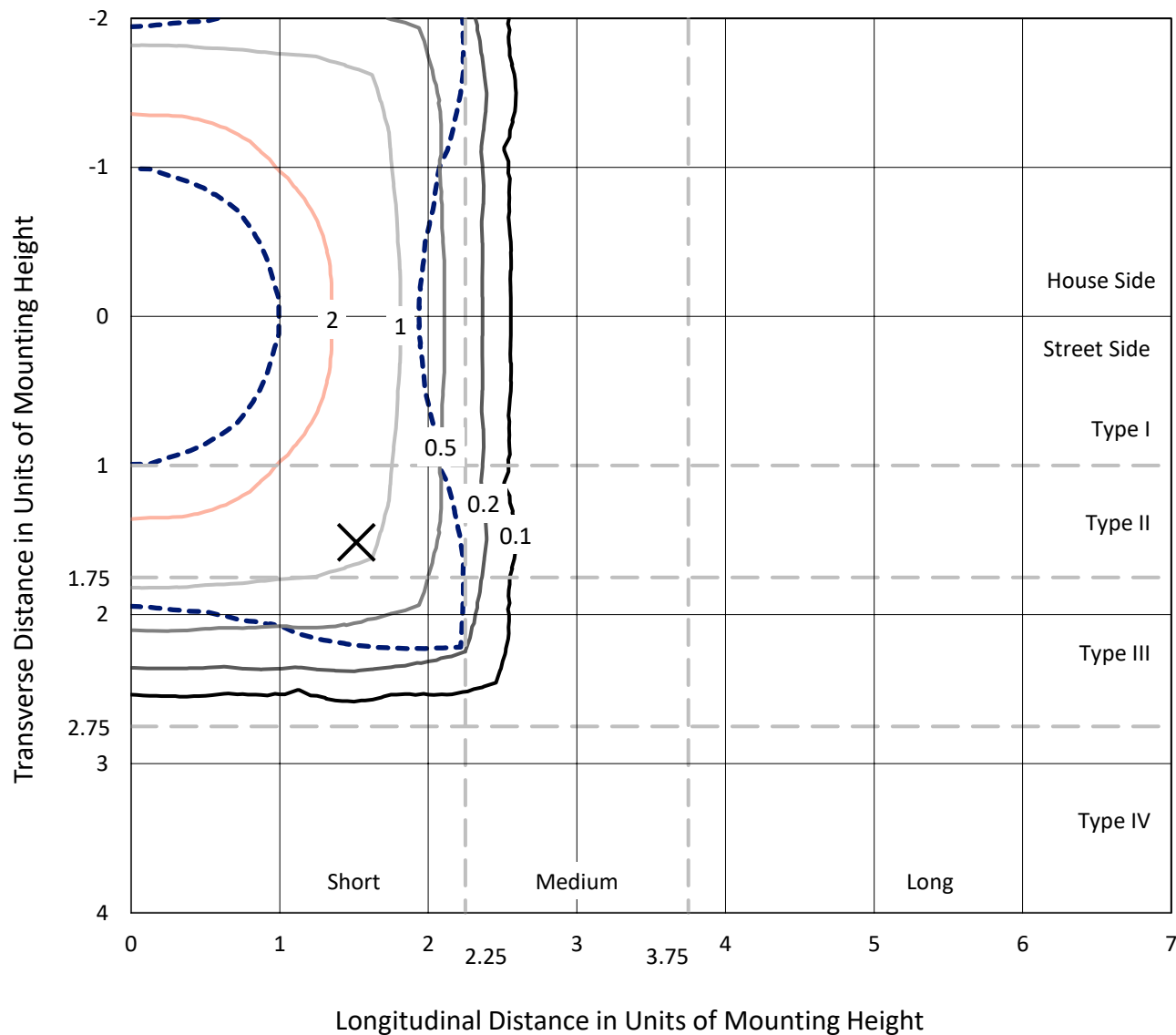
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

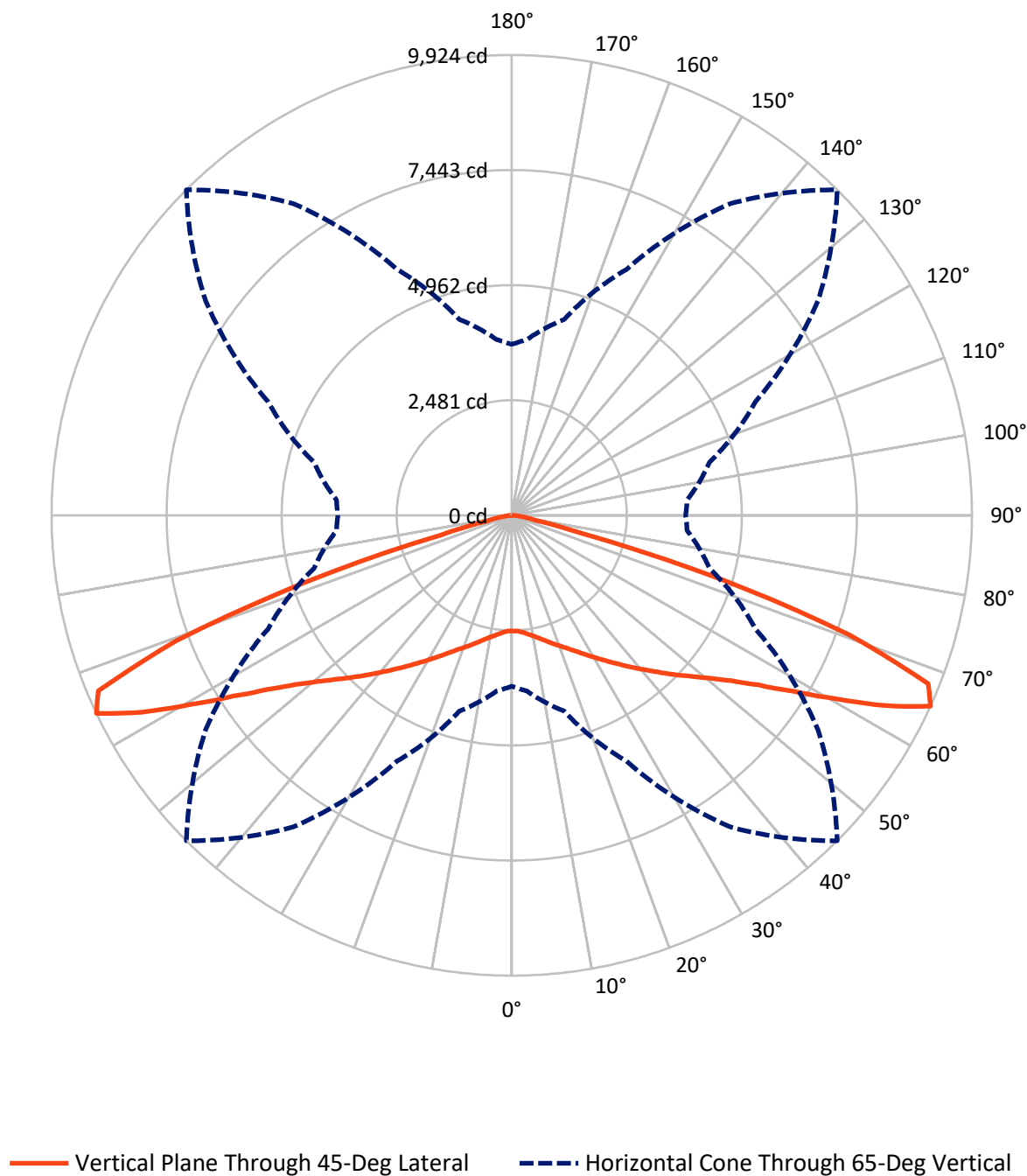


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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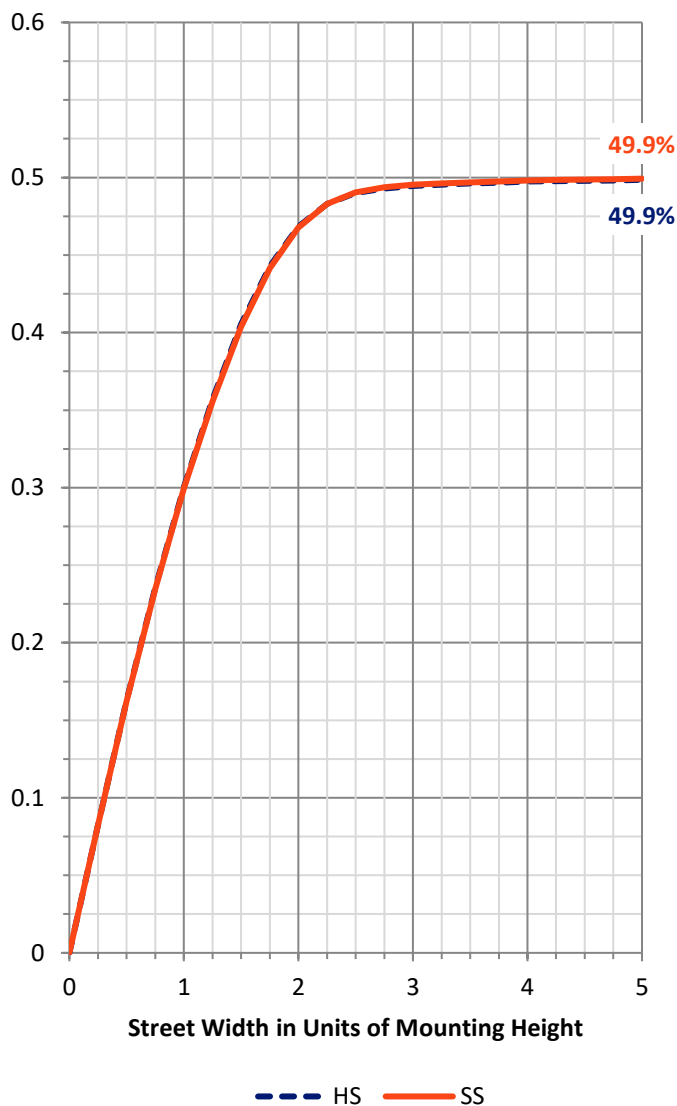
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10493.4	0.0	10493.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10493.4	0.0	10493.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	20986.9	0.0	20986.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.5	1.2
10°-20°	804.3	3.8
20°-30°	1518.7	7.2
30°-40°	2486.8	11.8
40°-50°	3855.7	18.4
50°-60°	5695.7	27.1
60°-70°	5421.8	25.8
70°-80°	874.9	4.2
80°-90°	82.5	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°	20986.9	100.0
0°-180°	20986.9	100.0

Coefficient of Utilization



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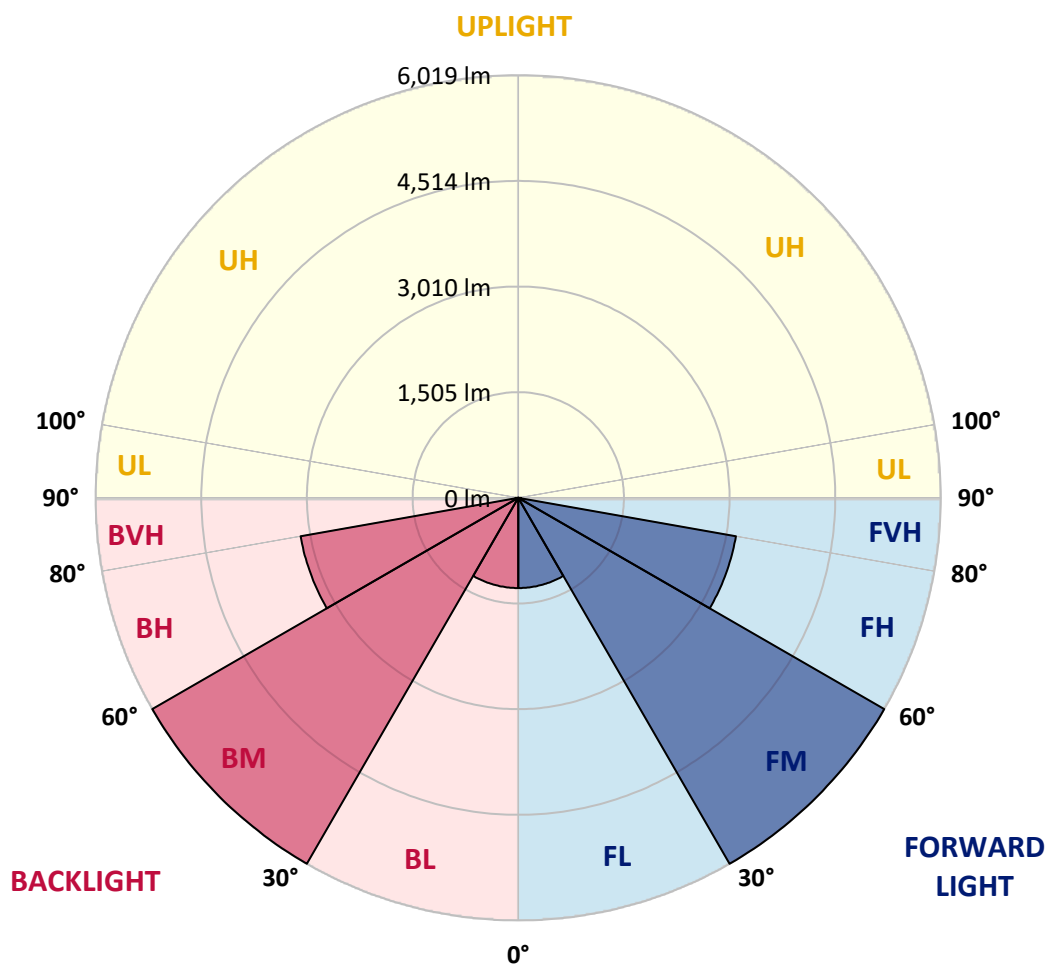
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1284.7	6.1			
FM	(30°-60°)	6019.1	28.7			
FH	(60°-80°)	3148.4	15.0			G2/5000
FVH	(80°-90°)	41.2	0.2			G1/100
BL	(0°-30°)	1284.7	6.1	B3/2500		
BM	(30°-60°)	6019.1	28.7	B4/8500		
BH	(60°-80°)	3148.4	15.0	B4/5000		G2/5000
BVH	(80°-90°)	41.2	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°	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6
2.5°	2514.5	2506.0	2512.4	2507.1	2502.9	2498.7	2500.8	2508.2	2511.4	2512.4	2512.4
5°	2548.1	2540.8	2543.9	2543.9	2536.6	2534.5	2535.5	2540.8	2547.1	2547.1	2547.1
7.5°	2603.0	2595.6	2603.0	2598.7	2592.4	2590.3	2589.3	2593.5	2603.0	2603.0	2599.8
10°	2669.3	2660.9	2665.1	2663.0	2655.6	2652.4	2651.4	2657.7	2666.1	2665.1	2663.0
12.5°	2742.0	2732.4	2737.8	2731.4	2729.3	2726.2	2726.2	2725.1	2730.4	2726.2	2728.2
15°	2823.1	2816.7	2818.9	2814.5	2817.7	2815.7	2807.3	2803.0	2805.1	2798.8	2799.9
17.5°	2918.8	2904.1	2911.5	2909.4	2909.4	2913.6	2899.9	2894.6	2898.8	2892.5	2897.8
20°	3029.4	3014.6	3017.8	3013.6	3008.4	3012.6	2995.7	2999.9	3003.0	2998.8	3008.4
22.5°	3150.4	3131.6	3130.5	3132.6	3121.0	3122.0	3110.5	3121.0	3127.3	3115.7	3127.3
25°	3274.8	3254.8	3268.4	3263.2	3248.4	3251.6	3243.2	3253.7	3259.0	3244.2	3261.0
27.5°	3406.4	3392.6	3405.4	3408.4	3390.6	3403.2	3390.6	3400.0	3405.4	3383.2	3400.0
30°	3560.1	3546.4	3558.0	3566.4	3545.4	3565.4	3554.8	3561.2	3562.2	3535.8	3551.6
32.5°	3727.5	3706.5	3735.9	3740.1	3717.0	3741.2	3727.5	3735.9	3741.2	3705.4	3729.7
35°	3931.8	3905.5	3939.2	3934.0	3913.9	3934.0	3921.2	3934.0	3946.6	3903.4	3929.6
37.5°	4151.9	4124.5	4160.3	4150.8	4131.9	4145.5	4138.1	4146.6	4166.6	4120.3	4148.7
40°	4394.1	4360.3	4408.8	4391.9	4374.1	4371.9	4376.1	4381.5	4407.7	4356.1	4373.0
42.5°	4653.1	4617.3	4689.9	4663.6	4638.3	4621.5	4635.2	4645.7	4671.0	4613.1	4643.6
45°	4949.0	4907.9	5002.7	4971.0	4931.1	4896.3	4918.5	4934.2	4971.0	4901.5	4937.4
47.5°	5275.4	5229.0	5330.1	5320.7	5255.4	5179.5	5230.1	5275.4	5302.7	5218.5	5247.0
50°	5594.4	5558.7	5691.3	5702.9	5622.8	5516.5	5587.1	5655.5	5662.9	5552.3	5566.1
52.5°	5893.4	5857.7	6050.4	6123.0	6051.4	5925.1	5999.8	6069.3	6013.5	5870.3	5874.5
55°	6132.5	6103.1	6348.3	6535.8	6560.0	6455.8	6500.0	6497.9	6314.7	6094.5	6101.9
57.5°	6190.4	6186.2	6495.7	6892.7	7145.5	7158.1	7070.7	6847.5	6452.6	6156.8	6137.8
60°	5927.2	5953.5	6378.9	7079.2	7753.0	8033.1	7655.1	7018.1	6295.8	5885.0	5836.7
62.5°	5139.6	5209.0	5721.9	6851.7	8243.7	9039.8	8123.6	6759.1	5651.3	5115.4	5083.8
65°	3683.3	3804.4	4370.9	5847.1	8199.5	9924.3	8056.3	5799.8	4413.0	3794.9	3749.7
67.5°	1671.1	1794.3	2275.5	4003.4	7127.5	9684.2	7110.7	4045.5	2389.2	1800.6	1774.3
70°	605.5	626.5	781.3	1602.6	4555.2	7716.2	4750.0	1614.2	830.8	667.6	659.2
72.5°	366.4	369.6	402.2	573.9	1582.6	4684.7	1650.0	592.9	410.6	364.3	370.6
75°	232.7	230.6	286.4	350.7	561.2	1580.6	588.7	350.7	285.4	260.0	262.2
77.5°	167.4	172.7	205.3	262.2	353.8	536.0	347.5	250.6	205.3	168.5	171.6
80°	125.3	128.4	149.5	204.3	248.5	333.8	221.1	185.3	154.8	105.3	108.4
82.5°	90.5	90.5	97.9	148.4	151.6	180.1	120.0	130.6	102.1	74.7	74.7
85°	53.7	52.7	61.1	88.5	78.9	66.3	54.7	80.1	64.3	46.3	45.3
87.5°	19.0	20.0	19.0	25.3	21.0	17.9	16.8	22.1	17.9	15.8	14.8
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)