

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: P965806

Luminaire Tested: **NAV-SB4A-835-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4A-835-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16908.4 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

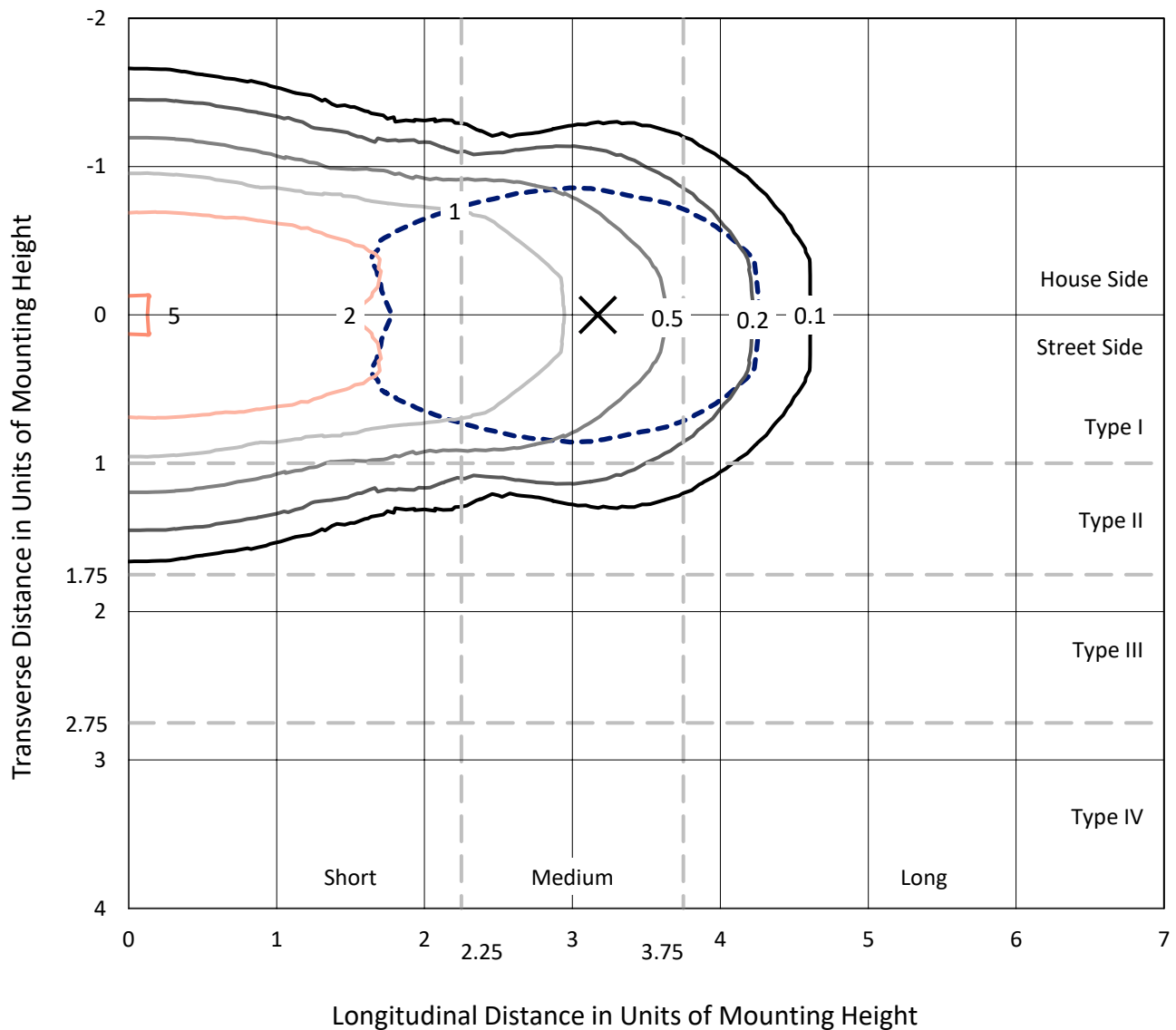
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

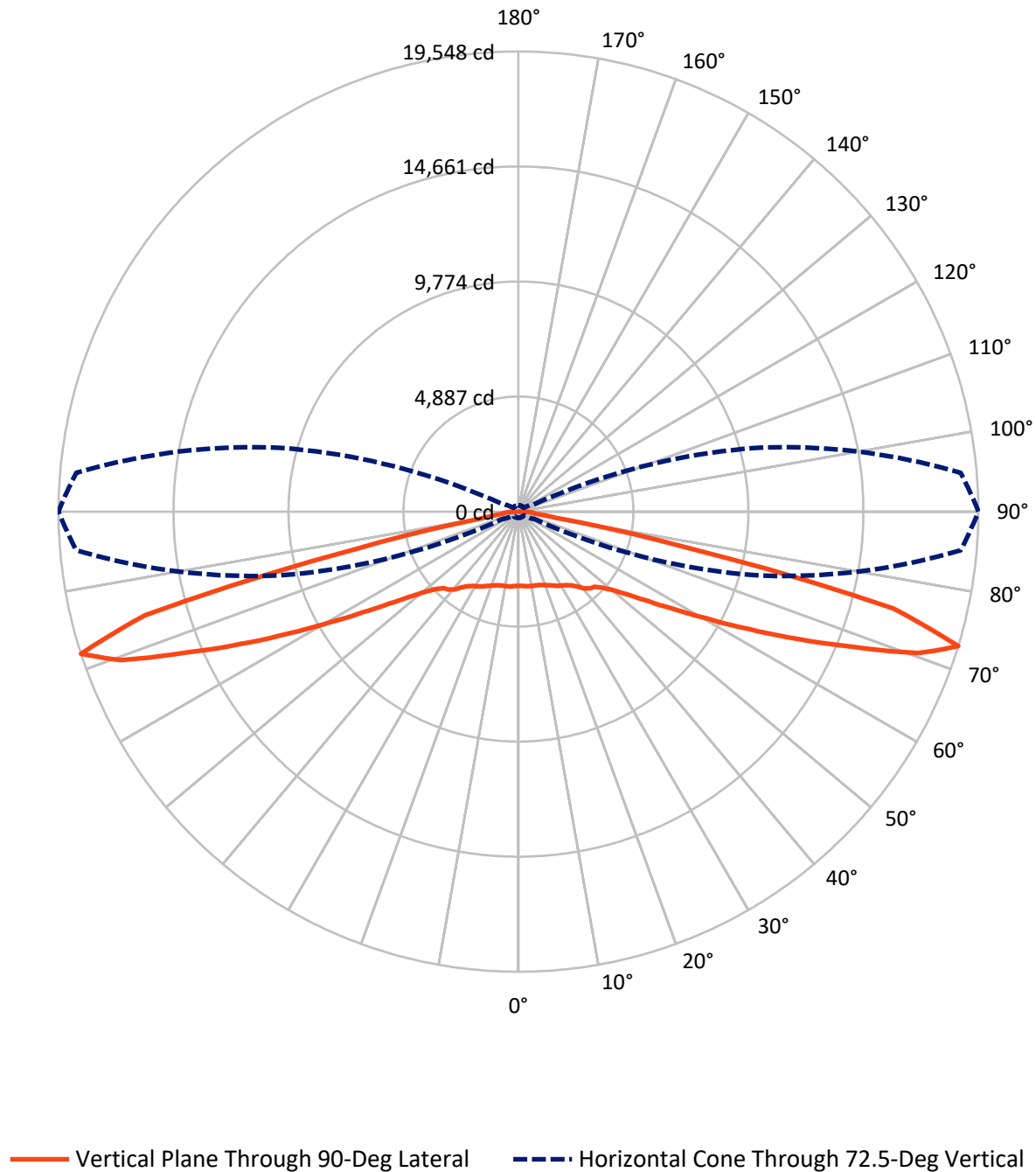
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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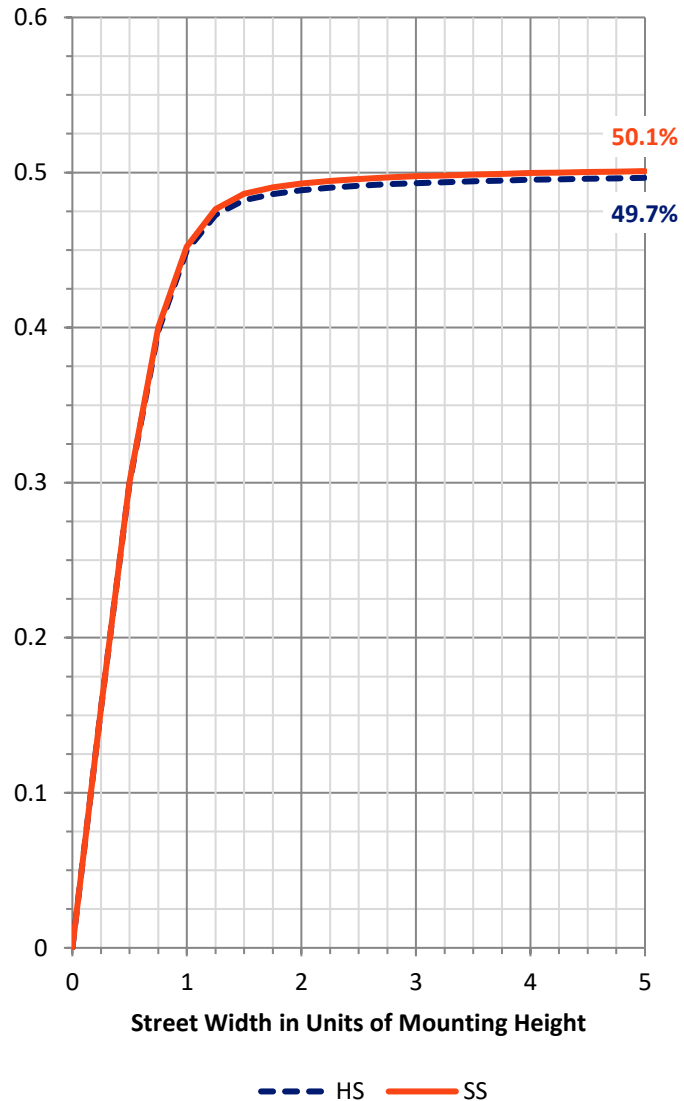
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8454.2	0.0	8454.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8454.2	0.0	8454.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	16908.4	0.0	16908.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.4	1.8
10°-20°	936.7	5.5
20°-30°	1561.9	9.2
30°-40°	2148.1	12.7
40°-50°	2623.4	15.5
50°-60°	3034.2	17.9
60°-70°	3617.8	21.4
70°-80°	2525.0	14.9
80°-90°	155.1	0.9
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°	16908.4	100.0
0°-180°	16908.4	100.0

Coefficient of Utilization



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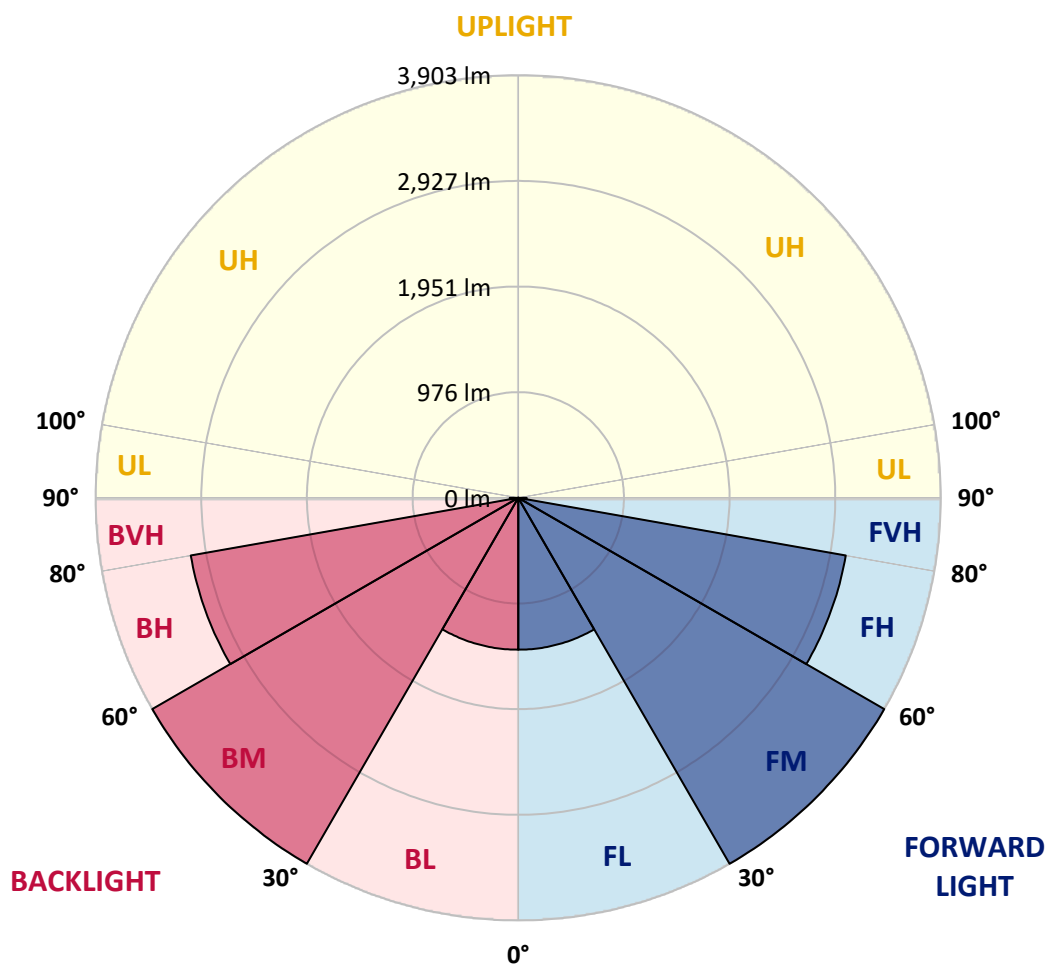
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1402.5	8.3			
FM	(30°-60°)	3902.8	23.1			
FH	(60°-80°)	3071.4	18.2			G2/5000
FVH	(80°-90°)	77.5	0.5			G1/100
BL	(0°-30°)	1402.5	8.3	B3/2500		
BM	(30°-60°)	3902.8	23.1	B3/5000		
BH	(60°-80°)	3071.4	18.2	B4/5000		G4/5000
BVH	(80°-90°)	77.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3159.6	3159.6	3159.6	3159.6	3159.6	3159.6	3159.6	3159.6	3159.6	3159.6	3159.6
2.5°	3162.2	3165.8	3165.8	3163.1	3169.4	3164.0	3164.0	3161.3	3164.0	3161.3	3161.3
5°	3178.4	3182.8	3184.7	3183.8	3191.8	3187.3	3187.3	3183.8	3184.7	3182.0	3182.0
7.5°	3209.0	3215.2	3218.8	3223.3	3235.0	3229.6	3226.0	3215.2	3210.7	3203.5	3203.5
10°	3218.8	3226.0	3237.7	3261.0	3288.0	3288.9	3278.2	3251.2	3230.5	3214.3	3211.6
12.5°	3188.3	3198.1	3222.4	3270.1	3330.2	3354.5	3337.4	3292.5	3252.1	3223.3	3218.8
15°	3149.6	3160.4	3197.3	3269.1	3358.1	3414.7	3412.9	3353.6	3288.9	3244.0	3236.7
17.5°	3089.5	3100.2	3153.2	3253.9	3379.6	3473.1	3498.3	3437.1	3346.4	3286.3	3276.3
20°	2980.7	2990.5	3064.2	3205.4	3386.9	3535.1	3600.7	3546.8	3433.5	3351.9	3336.6
22.5°	2839.6	2854.9	2941.1	3121.7	3369.8	3599.8	3717.6	3680.7	3535.1	3421.9	3401.3
25°	2688.7	2704.8	2805.4	3019.3	3325.7	3646.5	3855.9	3832.6	3650.1	3509.1	3480.3
27.5°	2558.3	2575.4	2685.1	2917.8	3257.4	3664.6	3992.5	4004.2	3789.4	3605.2	3574.7
30°	2455.9	2472.1	2588.9	2836.0	3169.4	3646.5	4112.0	4192.9	3931.4	3688.8	3644.8
32.5°	2343.6	2364.3	2487.4	2736.2	3065.2	3603.4	4216.2	4396.9	4095.9	3778.7	3722.9
35°	2201.6	2220.5	2349.9	2599.7	2928.5	3534.2	4303.5	4623.4	4331.3	3915.3	3853.3
37.5°	2029.1	2047.0	2175.6	2428.9	2792.9	3437.1	4370.0	4878.6	4611.7	4112.0	4029.4
40°	1855.7	1872.7	1993.1	2238.4	2630.3	3313.2	4393.4	5128.4	4933.3	4382.5	4294.4
42.5°	1696.6	1711.9	1822.3	2050.6	2447.8	3155.1	4362.7	5345.8	5221.9	4571.2	4458.0
45°	1550.1	1563.5	1661.5	1874.5	2258.2	2962.8	4271.1	5579.5	5565.1	4706.0	4553.3
47.5°	1382.9	1396.5	1497.9	1703.8	2068.6	2737.2	4115.7	5809.5	6042.3	5011.5	4835.4
50°	1179.0	1190.6	1294.9	1507.0	1871.9	2497.2	3899.9	5990.1	6644.4	5474.3	5253.2
52.5°	937.3	949.9	1051.3	1263.4	1638.2	2239.3	3616.0	6107.9	7339.8	6150.1	5877.8
55°	697.3	706.3	794.4	984.9	1348.8	1945.4	3260.1	6141.1	8128.9	7073.8	6733.3
57.5°	505.9	511.3	568.0	709.9	1022.6	1578.0	2828.0	6054.9	9067.9	8258.2	7829.6
60°	409.8	411.5	428.7	491.6	710.8	1162.8	2305.8	5758.2	10086.9	9785.0	9244.9
62.5°	372.1	372.1	376.5	393.6	480.7	767.4	1674.1	5143.7	11179.6	11714.3	10990.9
65°	345.9	345.9	347.8	355.9	379.2	488.8	1056.8	4142.6	12100.6	13974.2	13059.5
67.5°	322.6	323.5	322.6	325.3	338.8	361.2	612.8	2861.2	12596.7	16316.1	15328.5
70°	298.4	300.1	295.6	295.6	306.5	307.3	383.7	1569.0	12185.2	18278.6	18018.9
72.5°	269.6	272.2	265.1	263.3	271.4	267.8	288.4	753.1	10461.7	18864.5	19547.5
75°	244.5	248.0	231.9	227.3	227.3	224.7	234.5	386.4	6789.9	15388.7	16459.9
77.5°	221.9	229.2	203.1	188.7	185.1	177.0	191.4	236.4	2969.9	7224.8	7074.8
80°	183.3	193.2	167.2	150.1	143.8	134.8	151.0	165.3	883.3	1677.7	1606.7
82.5°	136.6	141.0	118.6	106.9	101.6	95.2	113.3	115.0	287.5	594.0	671.3
85°	87.1	89.0	72.8	62.9	60.2	57.5	71.9	62.9	109.7	436.8	634.4
87.5°	30.5	35.1	27.9	25.1	27.0	22.4	33.2	18.9	30.5	308.2	381.9
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)