

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: P965775

Luminaire Tested: **NAV-SB4A-830-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965775
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-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16380.5 lumens
Efficiency: N/A
Efficacy: 143.7 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



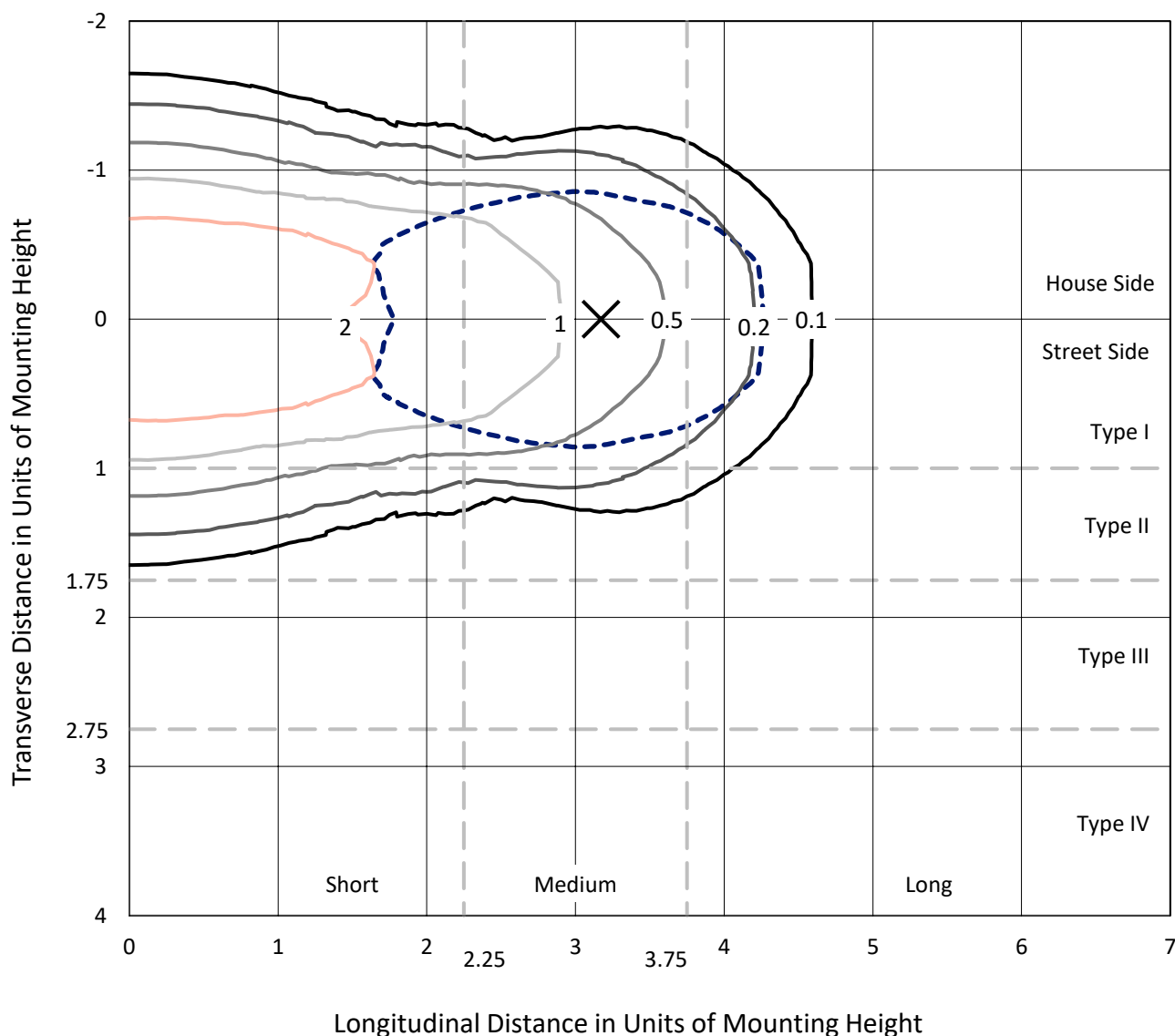
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

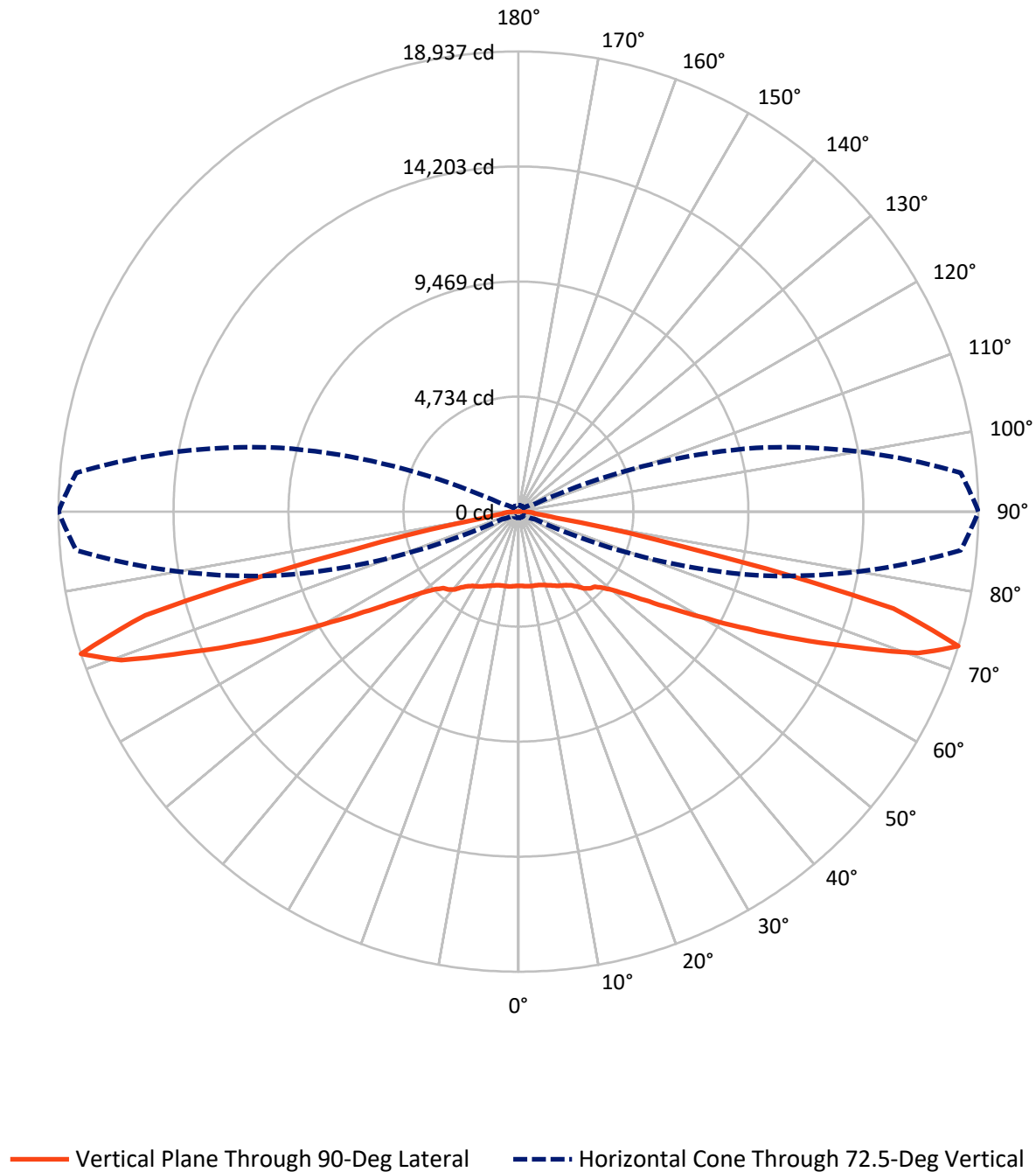


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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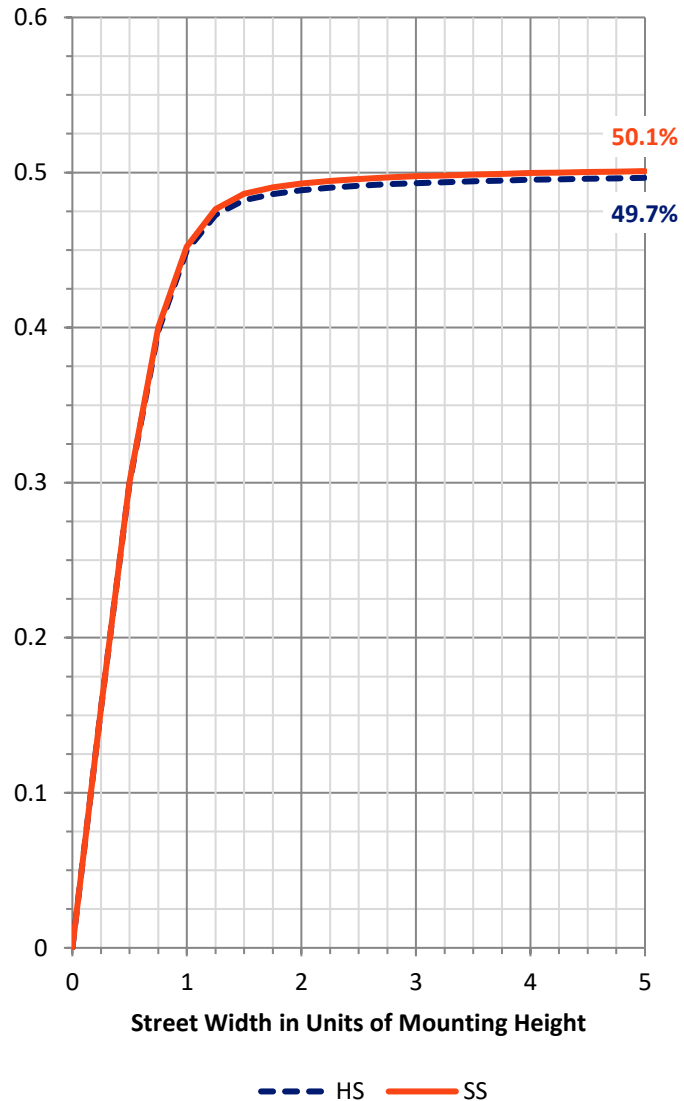
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8190.3	0.0	8190.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8190.3	0.0	8190.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	16380.5	0.0	16380.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.8	1.8
10°-20°	907.5	5.5
20°-30°	1513.1	9.2
30°-40°	2081.0	12.7
40°-50°	2541.5	15.5
50°-60°	2939.5	17.9
60°-70°	3504.8	21.4
70°-80°	2446.2	14.9
80°-90°	150.2	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°	16380.5	100.0
0°-180°	16380.5	100.0

Coefficient of Utilization



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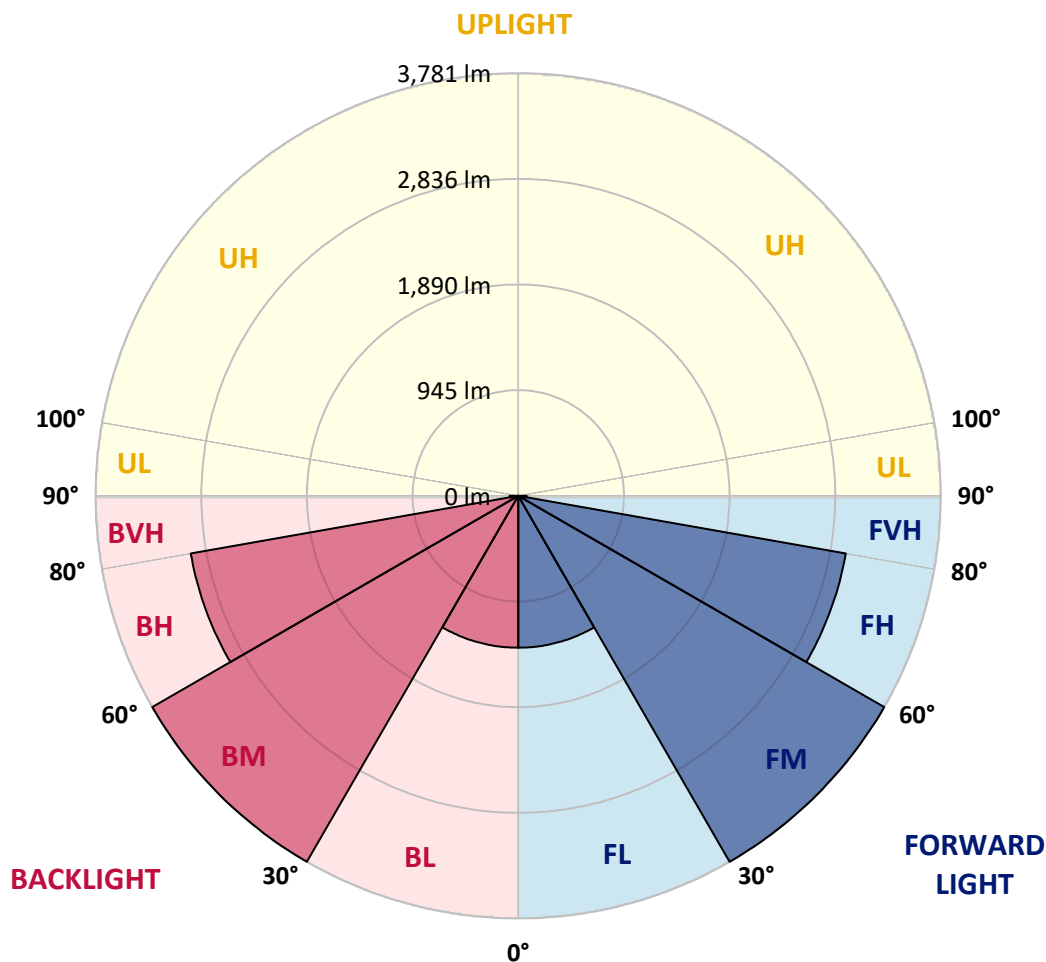
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1358.7	8.3			
FM	(30°-60°)	3781.0	23.1			
FH	(60°-80°)	2975.5	18.2			G2/5000
FVH	(80°-90°)	75.1	0.5			G1/100
BL	(0°-30°)	1358.7	8.3	B3/2500		
BM	(30°-60°)	3781.0	23.1	B3/5000		
BH	(60°-80°)	2975.5	18.2	B4/5000		G4/5000
BVH	(80°-90°)	75.1	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°	3060.9	3060.9	3060.9	3060.9	3060.9	3060.9	3060.9	3060.9	3060.9	3060.9	3060.9
2.5°	3063.5	3067.0	3067.0	3064.3	3070.5	3065.3	3065.3	3062.6	3065.3	3062.6	3062.6
5°	3079.2	3083.5	3085.2	3084.4	3092.2	3087.8	3087.8	3084.4	3085.2	3082.7	3082.7
7.5°	3108.7	3114.9	3118.4	3122.7	3134.0	3128.8	3125.3	3114.9	3110.5	3103.5	3103.5
10°	3118.4	3125.3	3136.6	3159.3	3185.4	3186.2	3175.8	3149.6	3129.6	3114.0	3111.4
12.5°	3088.7	3098.3	3121.8	3168.0	3226.3	3249.8	3233.3	3189.7	3150.5	3122.7	3118.4
15°	3051.3	3061.8	3097.4	3167.0	3253.2	3308.1	3306.3	3248.9	3186.2	3142.8	3135.8
17.5°	2993.0	3003.5	3054.8	3152.3	3274.2	3364.7	3389.1	3329.9	3242.0	3183.6	3174.0
20°	2887.6	2897.2	2968.6	3105.2	3281.1	3424.7	3488.3	3436.1	3326.4	3247.2	3232.3
22.5°	2751.0	2765.8	2849.3	3024.3	3264.6	3487.5	3601.4	3565.8	3424.7	3315.1	3295.1
25°	2604.7	2620.4	2717.9	2925.0	3221.9	3532.8	3735.5	3713.0	3536.1	3399.5	3371.6
27.5°	2478.4	2495.1	2601.2	2826.7	3155.8	3550.1	3867.8	3879.2	3671.1	3492.7	3463.1
30°	2379.2	2394.9	2508.1	2747.5	3070.5	3532.8	3983.7	4062.0	3808.7	3573.7	3531.0
32.5°	2270.4	2290.5	2409.7	2650.9	2969.4	3490.9	4084.6	4259.6	3968.0	3660.7	3606.7
35°	2132.8	2151.2	2276.5	2518.5	2837.1	3423.9	4169.1	4479.0	4196.0	3793.0	3732.9
37.5°	1965.7	1983.2	2107.6	2353.1	2705.7	3329.9	4233.6	4726.3	4467.7	3983.7	3903.6
40°	1797.7	1814.2	1930.9	2168.6	2548.1	3209.8	4256.1	4968.3	4779.4	4245.7	4160.4
42.5°	1643.6	1658.4	1765.5	1986.7	2371.4	3056.5	4226.6	5178.9	5058.8	4428.5	4318.8
45°	1501.7	1514.7	1609.7	1816.0	2187.7	2870.2	4137.7	5405.2	5391.4	4559.1	4411.1
47.5°	1339.8	1352.8	1451.2	1650.6	2004.0	2651.7	3987.1	5628.2	5853.6	4855.1	4684.5
50°	1142.2	1153.5	1254.5	1459.9	1813.3	2419.3	3778.3	5803.1	6436.9	5303.5	5089.2
52.5°	907.9	920.1	1018.5	1224.0	1587.0	2169.4	3503.1	5917.1	7110.7	5958.1	5694.3
55°	675.6	684.3	769.6	954.2	1306.7	1884.8	3158.3	5949.4	7875.1	6853.0	6523.1
57.5°	490.2	495.4	550.2	687.8	990.7	1528.7	2739.6	5865.8	8784.8	8000.4	7585.1
60°	397.0	398.7	415.2	476.2	688.6	1126.5	2233.9	5578.6	9771.9	9479.5	8956.2
62.5°	360.4	360.4	364.8	381.3	465.8	743.4	1621.9	4983.0	10830.6	11348.6	10647.8
65°	335.2	335.2	336.9	344.7	367.4	473.6	1023.8	4013.3	11722.9	13538.0	12651.8
67.5°	312.5	313.4	312.5	315.2	328.2	349.9	593.7	2771.8	12203.4	15806.7	14849.9
70°	289.0	290.8	286.4	286.4	296.8	297.8	371.8	1520.0	11804.7	17708.0	17456.4
72.5°	261.2	263.7	256.9	255.1	262.9	259.4	279.4	729.5	10135.0	18275.5	18937.2
75°	236.8	240.3	224.6	220.3	220.3	217.6	227.2	374.3	6577.9	14908.3	15945.9
77.5°	215.0	222.0	196.7	182.9	179.4	171.5	185.4	229.0	2877.2	6999.3	6853.9
80°	177.6	187.2	162.0	145.3	139.3	130.6	146.3	160.2	855.8	1625.3	1556.6
82.5°	132.3	136.6	114.9	103.6	98.4	92.2	109.7	111.4	278.6	575.4	650.3
85°	84.5	86.2	70.5	61.0	58.3	55.8	69.6	61.0	106.2	423.1	614.6
87.5°	29.6	33.9	27.0	24.4	26.1	21.7	32.2	18.2	29.6	298.6	370.0
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)