

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: P963016

Luminaire Tested: **NAV-SB2D-740-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963016
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-SB2D-740-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21831.5 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

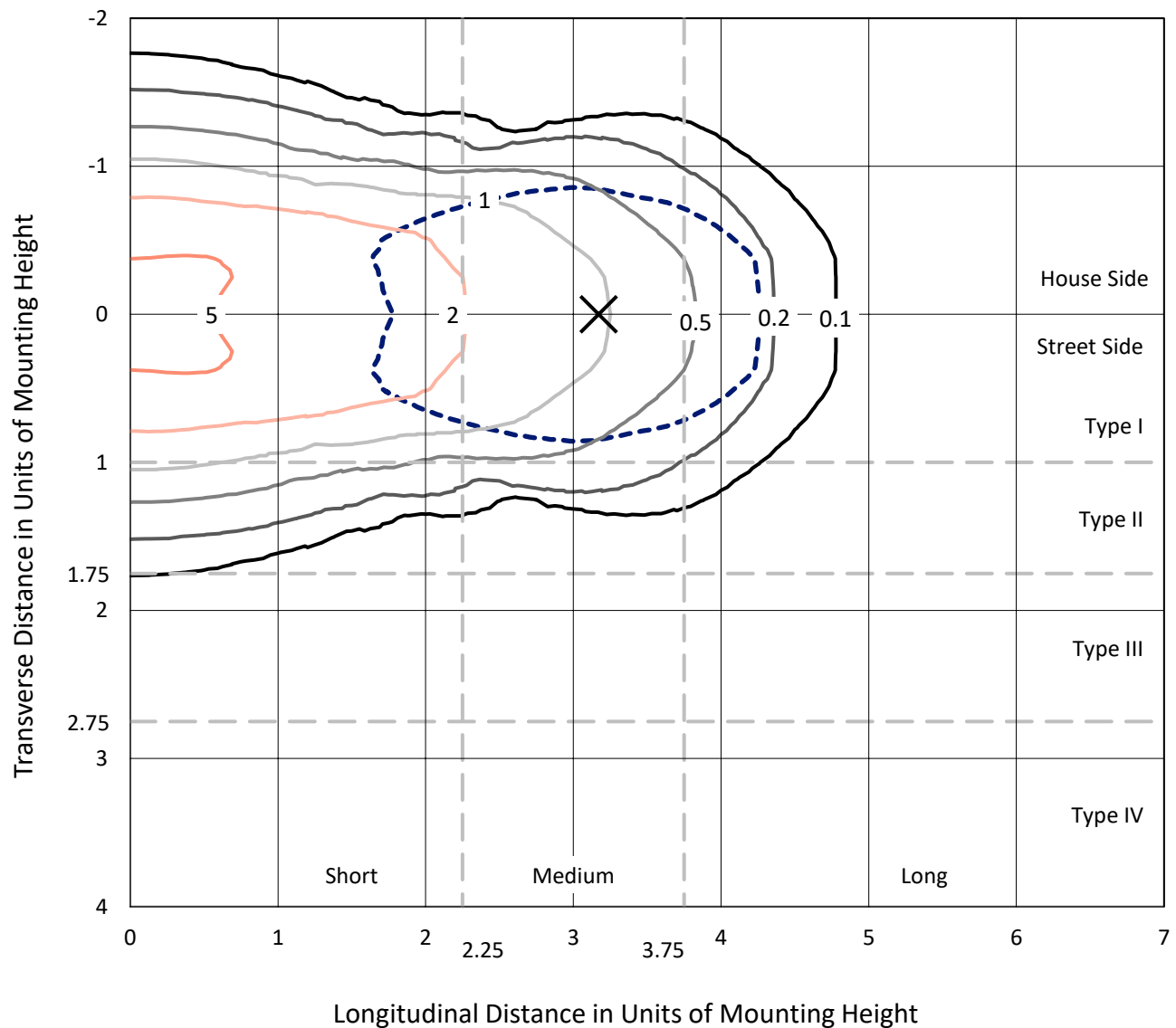
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

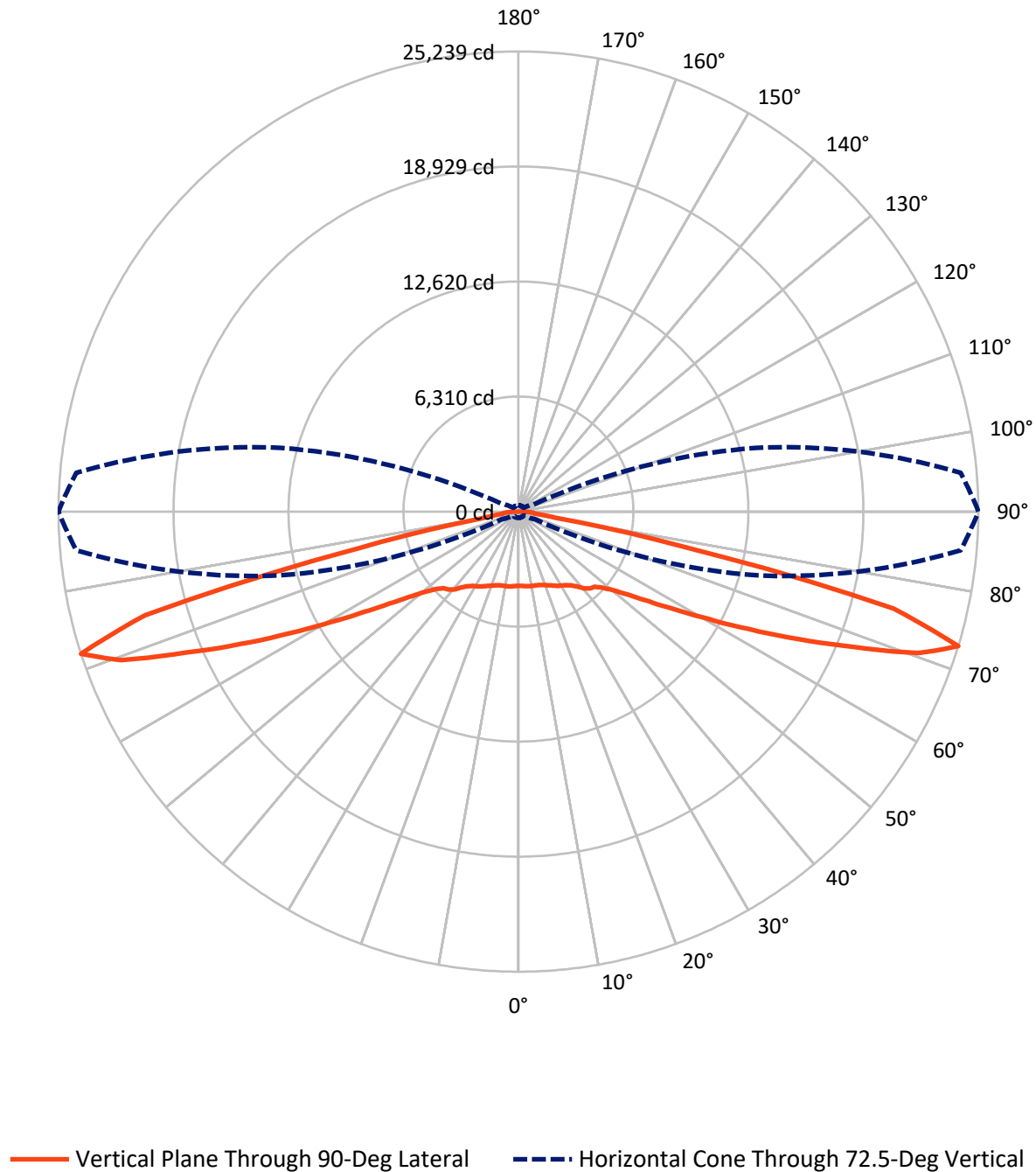
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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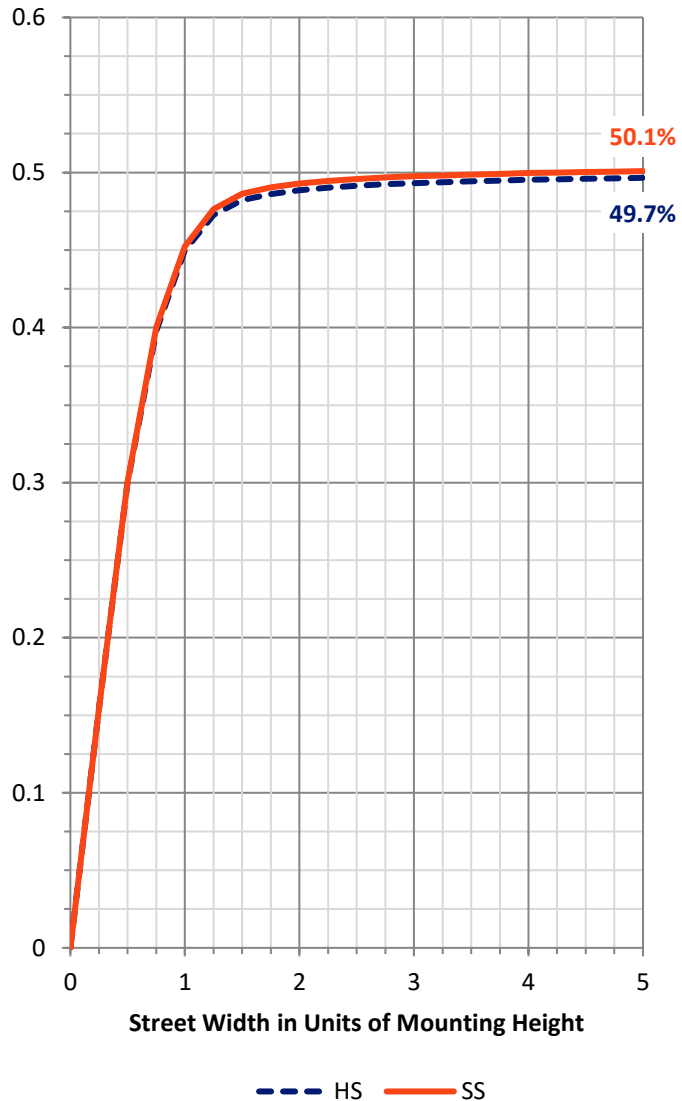
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10915.7	0.0	10915.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10915.7	0.0	10915.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	21831.5	0.0	21831.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.6	1.8
10°-20°	1209.4	5.5
20°-30°	2016.6	9.2
30°-40°	2773.5	12.7
40°-50°	3387.2	15.5
50°-60°	3917.6	17.9
60°-70°	4671.2	21.4
70°-80°	3260.1	14.9
80°-90°	200.2	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°	21831.5	100.0
0°-180°	21831.5	100.0

Coefficient of Utilization



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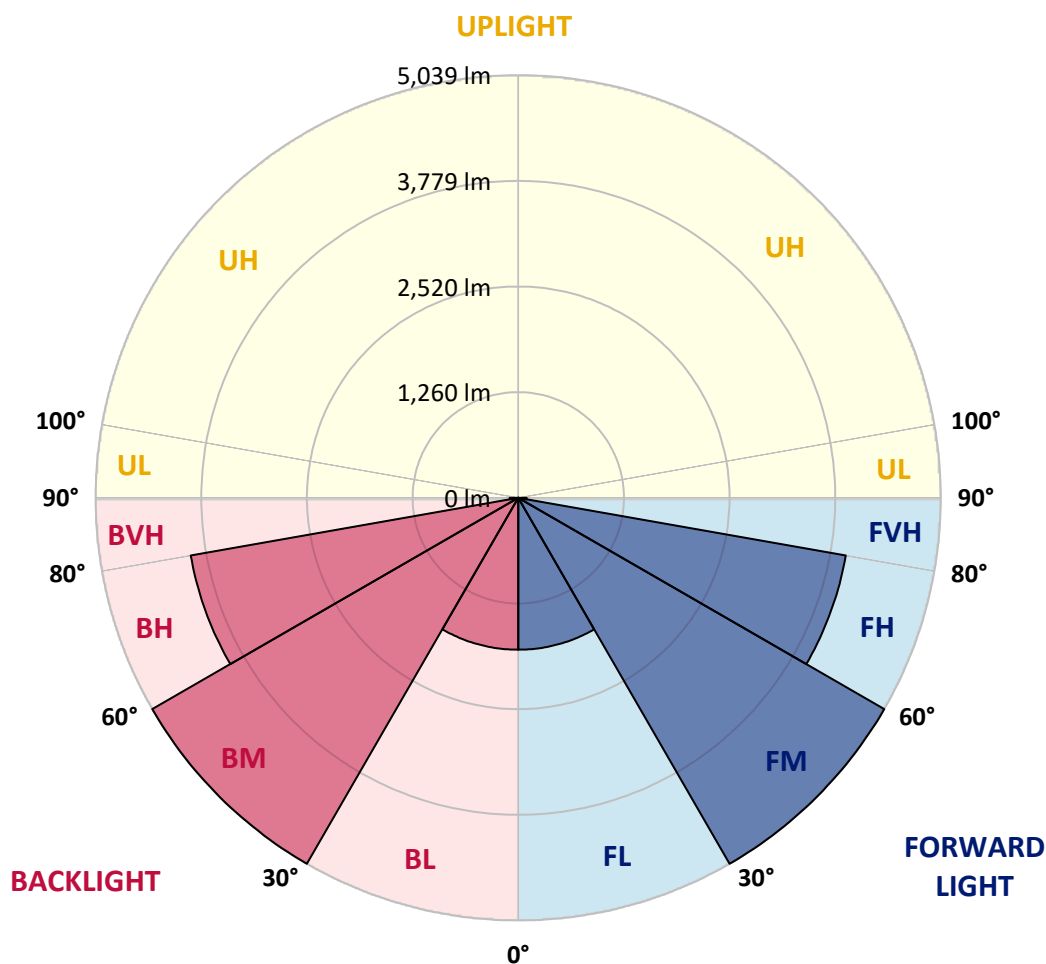
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1810.8	8.3			
FM	(30°-60°)	5039.2	23.1			
FH	(60°-80°)	3965.6	18.2			G2/5000
FVH	(80°-90°)	100.1	0.5			G2/225
BL	(0°-30°)	1810.8	8.3	B3/2500		
BM	(30°-60°)	5039.2	23.1	B4/8500		
BH	(60°-80°)	3965.6	18.2	B4/5000		G4/5000
BVH	(80°-90°)	100.1	0.5			G2/225
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°	4079.4	4079.4	4079.4	4079.4	4079.4	4079.4	4079.4	4079.4	4079.4	4079.4	4079.4
2.5°	4082.9	4087.6	4087.6	4084.1	4092.2	4085.2	4085.2	4081.8	4085.2	4081.8	4081.8
5°	4103.8	4109.6	4111.9	4110.8	4121.2	4115.4	4115.4	4110.8	4111.9	4108.4	4108.4
7.5°	4143.3	4151.4	4156.1	4161.8	4176.9	4169.9	4165.3	4151.4	4145.6	4136.3	4136.3
10°	4156.1	4165.3	4180.4	4210.6	4245.3	4246.5	4232.6	4197.8	4171.1	4150.2	4146.7
12.5°	4116.6	4129.3	4160.7	4222.2	4299.9	4331.2	4309.2	4251.2	4198.9	4161.8	4156.1
15°	4066.7	4080.6	4128.2	4221.0	4335.9	4408.9	4406.7	4330.0	4246.5	4188.5	4179.2
17.5°	3989.0	4002.8	4071.3	4201.3	4363.7	4484.4	4516.9	4437.9	4320.8	4243.0	4230.3
20°	3848.6	3861.3	3956.5	4138.6	4373.0	4564.4	4649.1	4579.5	4433.3	4327.8	4308.0
22.5°	3666.4	3686.1	3797.5	4030.7	4350.9	4648.0	4800.0	4752.4	4564.4	4418.3	4391.5
25°	3471.5	3492.4	3622.4	3898.5	4294.1	4708.3	4978.6	4948.5	4713.0	4530.8	4493.6
27.5°	3303.3	3325.3	3466.9	3767.3	4205.9	4731.5	5155.0	5170.1	4892.7	4654.9	4615.5
30°	3170.9	3191.8	3342.7	3661.7	4092.2	4708.3	5309.3	5413.7	5076.1	4762.9	4706.0
32.5°	3025.9	3052.7	3211.5	3533.0	3957.6	4652.6	5443.9	5677.1	5288.4	4878.9	4806.9
35°	2842.6	2867.0	3034.1	3356.6	3781.2	4563.3	5556.4	5969.5	5592.4	5055.2	4975.1
37.5°	2619.8	2643.1	2809.0	3136.2	3606.1	4437.9	5642.3	6299.0	5954.4	5309.3	5202.6
40°	2395.9	2418.0	2573.5	2890.2	3396.0	4277.8	5672.5	6621.5	6369.8	5658.5	5544.8
42.5°	2190.5	2210.3	2353.0	2647.7	3160.5	4073.7	5633.0	6902.4	6742.2	5902.2	5756.0
45°	2001.4	2018.8	2145.3	2420.3	2915.7	3825.3	5514.7	7204.0	7185.5	6076.2	5879.0
47.5°	1785.7	1803.1	1934.2	2199.9	2670.9	3534.1	5313.9	7501.1	7801.5	6470.7	6243.3
50°	1522.2	1537.3	1671.9	1945.8	2416.8	3224.3	5035.5	7734.2	8578.9	7068.3	6782.8
52.5°	1210.1	1226.4	1357.5	1631.3	2115.1	2891.3	4668.9	7886.2	9476.9	7940.8	7589.2
55°	900.4	911.9	1025.6	1271.6	1741.6	2512.0	4209.4	7929.2	10495.6	9133.5	8693.7
57.5°	653.2	660.2	733.3	916.6	1320.4	2037.4	3651.4	7817.8	11708.1	10662.7	10109.3
60°	529.1	531.4	553.4	634.7	917.8	1501.3	2977.2	7434.8	13023.9	12633.9	11936.6
62.5°	480.3	480.3	486.2	508.2	620.7	990.9	2161.5	6641.3	14434.7	15125.0	14191.0
65°	446.7	446.7	449.1	459.5	489.6	631.2	1364.5	5348.8	15624.0	18043.1	16862.0
67.5°	416.6	417.7	416.6	420.0	437.4	466.4	791.3	3694.2	16264.4	21066.7	19791.5
70°	385.2	387.6	381.7	381.7	395.6	396.8	495.4	2025.8	15733.0	23600.6	23265.3
72.5°	348.1	351.6	342.2	340.0	350.3	345.7	372.5	972.3	13507.7	24357.2	25239.0
75°	315.6	320.2	299.3	293.6	293.6	290.1	302.8	498.9	8766.8	19869.3	21252.4
77.5°	286.6	295.8	262.2	243.6	239.0	228.6	247.1	305.1	3834.6	9328.4	9134.7
80°	236.7	249.5	215.8	193.7	185.6	174.0	195.0	213.5	1140.5	2166.2	2074.5
82.5°	176.4	182.1	153.1	138.1	131.1	123.0	146.2	148.5	371.3	766.9	866.7
85°	112.5	114.9	94.0	81.2	77.7	74.2	92.9	81.2	141.6	563.9	819.2
87.5°	39.5	45.2	36.0	32.5	34.8	29.0	42.9	24.4	39.5	398.0	493.1
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)