

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: P966813

Luminaire Tested: **NAV-SB4C-830-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966813
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-830-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28950.1 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

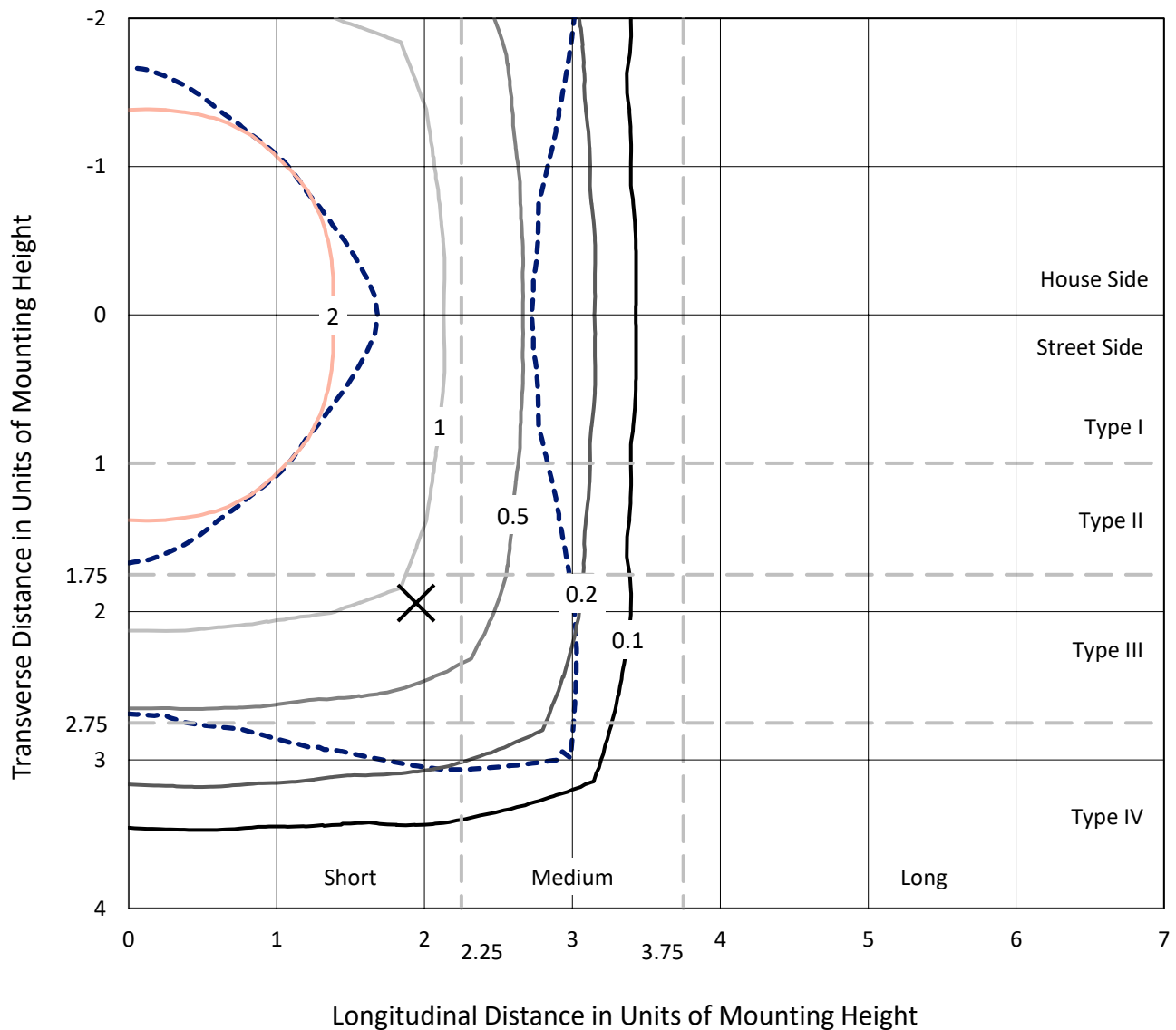
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

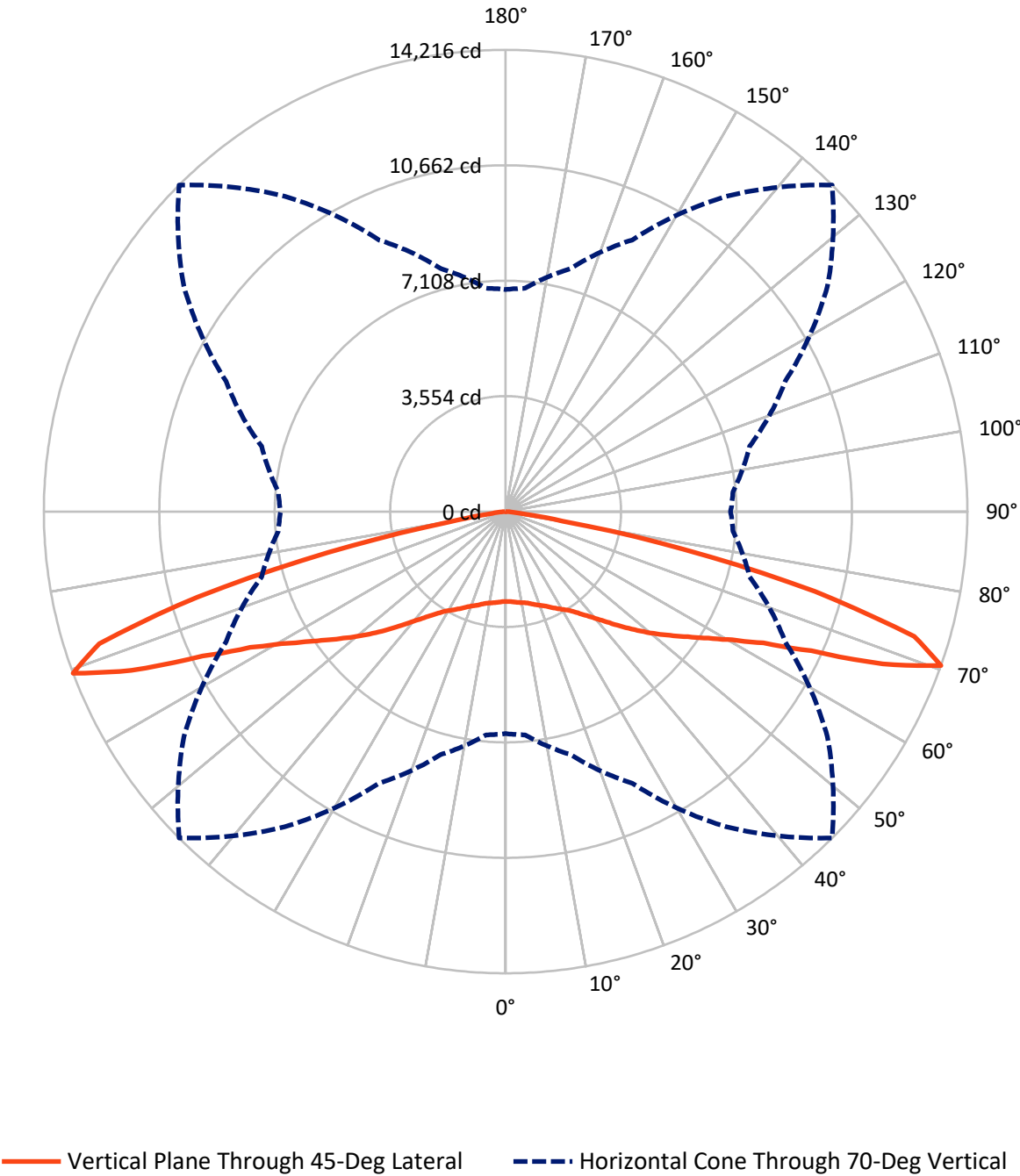
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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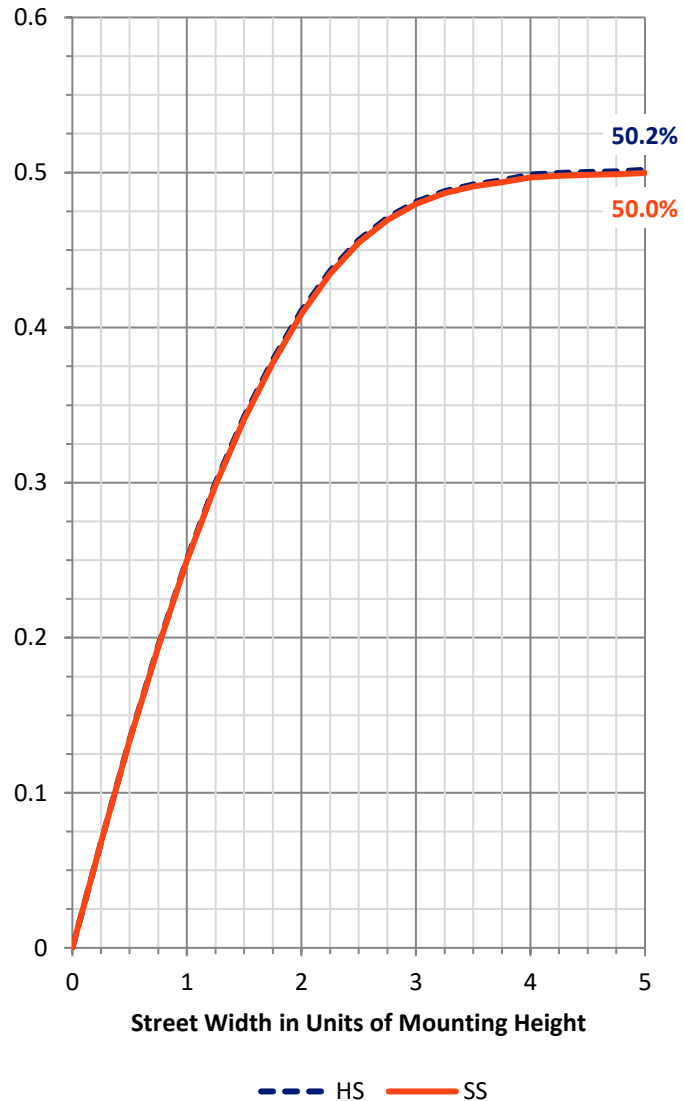
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14475.0	0.0	14475.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14475.0	0.0	14475.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28950.1	0.0	28950.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.4	0.9
10°-20°	835.4	2.9
20°-30°	1493.0	5.2
30°-40°	2420.1	8.4
40°-50°	3941.9	13.6
50°-60°	6010.1	20.8
60°-70°	8941.1	30.9
70°-80°	4873.2	16.8
80°-90°	165.9	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°	28950.1	100.0
0°-180°	28950.1	100.0

Coefficient of Utilization



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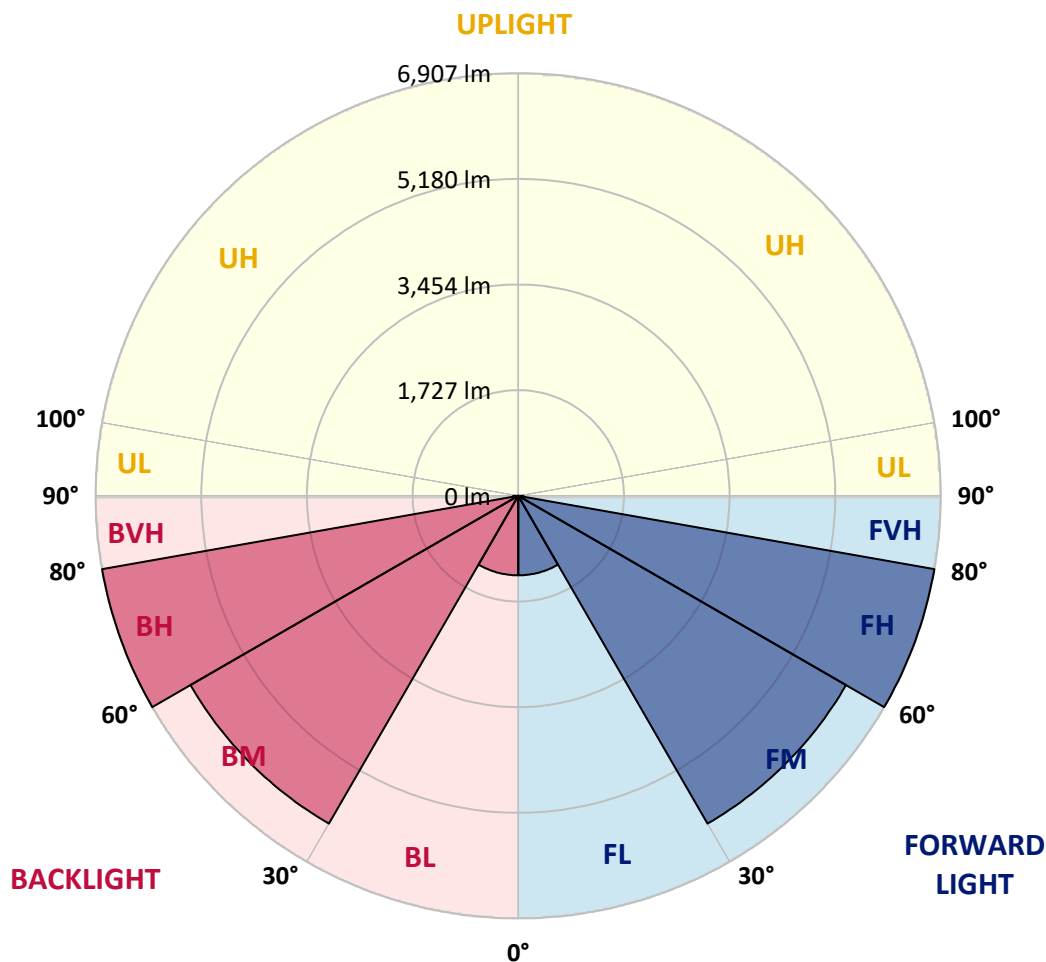
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1298.9	4.5			
FM	(30°-60°)	6186.1	21.4			
FH	(60°-80°)	6907.1	23.9			G3/7500
FVH	(80°-90°)	83.0	0.3			G1/100
BL	(0°-30°)	1298.9	4.5	B3/2500		
BM	(30°-60°)	6186.1	21.4	B4/8500		
BH	(60°-80°)	6907.1	23.9	B5		G3/7500
BVH	(80°-90°)	83.0	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-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2773.1	2773.1	2773.1	2773.1	2773.1	2773.1	2773.1	2773.1	2773.1	2773.1	2773.1
2.5°	2786.2	2789.1	2783.3	2780.4	2777.4	2773.1	2774.6	2781.8	2787.7	2786.2	2787.7
5°	2809.4	2812.4	2808.0	2806.6	2800.7	2799.3	2799.3	2806.6	2811.0	2808.0	2809.4
7.5°	2835.7	2840.0	2832.7	2831.3	2828.4	2825.4	2824.0	2831.3	2835.7	2835.7	2835.7
10°	2860.4	2864.7	2858.8	2854.5	2851.7	2851.7	2848.7	2854.5	2861.8	2860.4	2860.4
12.5°	2886.5	2889.4	2883.5	2880.7	2880.7	2885.1	2880.7	2883.5	2889.4	2886.5	2885.1
15°	2918.5	2919.9	2918.5	2922.8	2930.1	2944.6	2931.5	2928.6	2931.5	2924.3	2924.3
17.5°	2962.0	2965.0	2970.8	2981.0	2991.2	3017.3	2994.0	2986.7	2986.7	2972.2	2972.2
20°	3015.9	3020.2	3028.9	3046.4	3059.4	3084.1	3060.9	3050.7	3046.4	3027.4	3027.4
22.5°	3072.5	3079.8	3092.8	3116.1	3139.4	3162.6	3139.4	3121.9	3108.8	3084.1	3082.7
25°	3137.9	3146.6	3167.0	3204.8	3236.7	3270.2	3242.6	3207.7	3181.5	3146.6	3145.2
27.5°	3230.9	3241.2	3265.9	3312.3	3353.1	3382.1	3356.0	3310.9	3274.6	3232.4	3230.9
30°	3361.8	3371.9	3401.0	3450.5	3478.0	3496.9	3479.5	3444.6	3401.0	3353.1	3353.1
32.5°	3530.3	3543.4	3575.4	3621.9	3627.7	3630.7	3624.8	3607.4	3575.4	3517.3	3518.7
35°	3744.0	3758.6	3794.9	3832.7	3826.8	3832.7	3824.0	3818.1	3794.9	3728.0	3728.0
37.5°	4005.6	4023.0	4060.8	4090.0	4075.4	4068.1	4069.6	4071.0	4058.0	3983.9	3983.9
40°	4309.4	4332.7	4360.2	4390.8	4366.1	4344.3	4358.8	4370.4	4358.8	4283.3	4283.3
42.5°	4621.8	4655.3	4684.4	4727.9	4707.6	4680.0	4700.3	4713.5	4688.8	4607.4	4613.1
45°	4969.2	5001.2	5039.0	5104.4	5089.8	5060.8	5089.8	5092.8	5050.6	4954.7	4964.9
47.5°	5328.3	5361.7	5418.4	5505.6	5499.7	5467.8	5505.6	5485.2	5431.4	5316.6	5309.3
50°	5668.4	5714.9	5802.0	5924.1	5935.8	5896.5	5947.4	5908.1	5818.0	5674.1	5671.2
52.5°	5988.0	6037.5	6175.5	6341.3	6383.4	6332.6	6400.8	6332.6	6197.4	6012.8	5995.3
55°	6323.8	6379.1	6543.3	6759.9	6844.1	6806.3	6870.3	6767.2	6575.3	6351.4	6320.9
57.5°	6719.2	6752.6	6948.8	7206.1	7348.4	7357.2	7386.3	7211.9	6979.3	6724.9	6690.1
60°	7147.9	7194.4	7408.1	7716.2	7941.5	8014.2	7983.6	7724.9	7454.6	7162.4	7116.0
62.5°	7697.3	7748.2	8003.9	8373.1	8729.2	8909.4	8790.3	8415.2	8081.0	7730.8	7669.7
65°	8152.2	8208.9	8671.1	9329.4	9977.8	10339.6	10040.2	9349.8	8748.1	8253.9	8172.5
67.5°	7822.3	7892.1	8617.3	9826.6	11438.4	12518.3	11493.6	9974.8	8796.0	8126.1	8025.7
70°	6836.9	6902.2	7748.2	9226.3	11849.7	14215.8	12096.7	9498.1	7775.8	7025.9	6925.5
72.5°	4539.0	4749.7	5605.8	7379.0	10580.9	13154.8	10685.5	7229.3	5200.3	4528.9	4382.1
75°	1505.7	1674.3	2258.6	3825.4	7086.8	9838.2	6746.8	3385.0	1789.1	1287.7	1218.0
77.5°	379.4	437.5	603.2	1094.4	2826.8	5601.4	2545.0	893.9	486.9	340.1	303.8
80°	184.6	203.5	290.7	364.8	707.9	1780.4	664.2	343.0	229.6	177.3	162.8
82.5°	101.8	103.2	164.2	206.4	263.1	460.7	273.3	200.6	132.2	107.5	107.5
85°	62.5	61.1	87.2	110.5	110.5	164.2	130.8	110.5	75.5	66.8	69.8
87.5°	24.7	24.7	32.0	34.8	30.5	42.1	33.4	36.3	29.1	27.6	29.1
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)