

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: P969851

Luminaire Tested: **NAV-SB6A-740-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969851
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-SB6A-740-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30892.5 lumens
Efficiency: N/A
Efficacy: 180.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 170.9
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

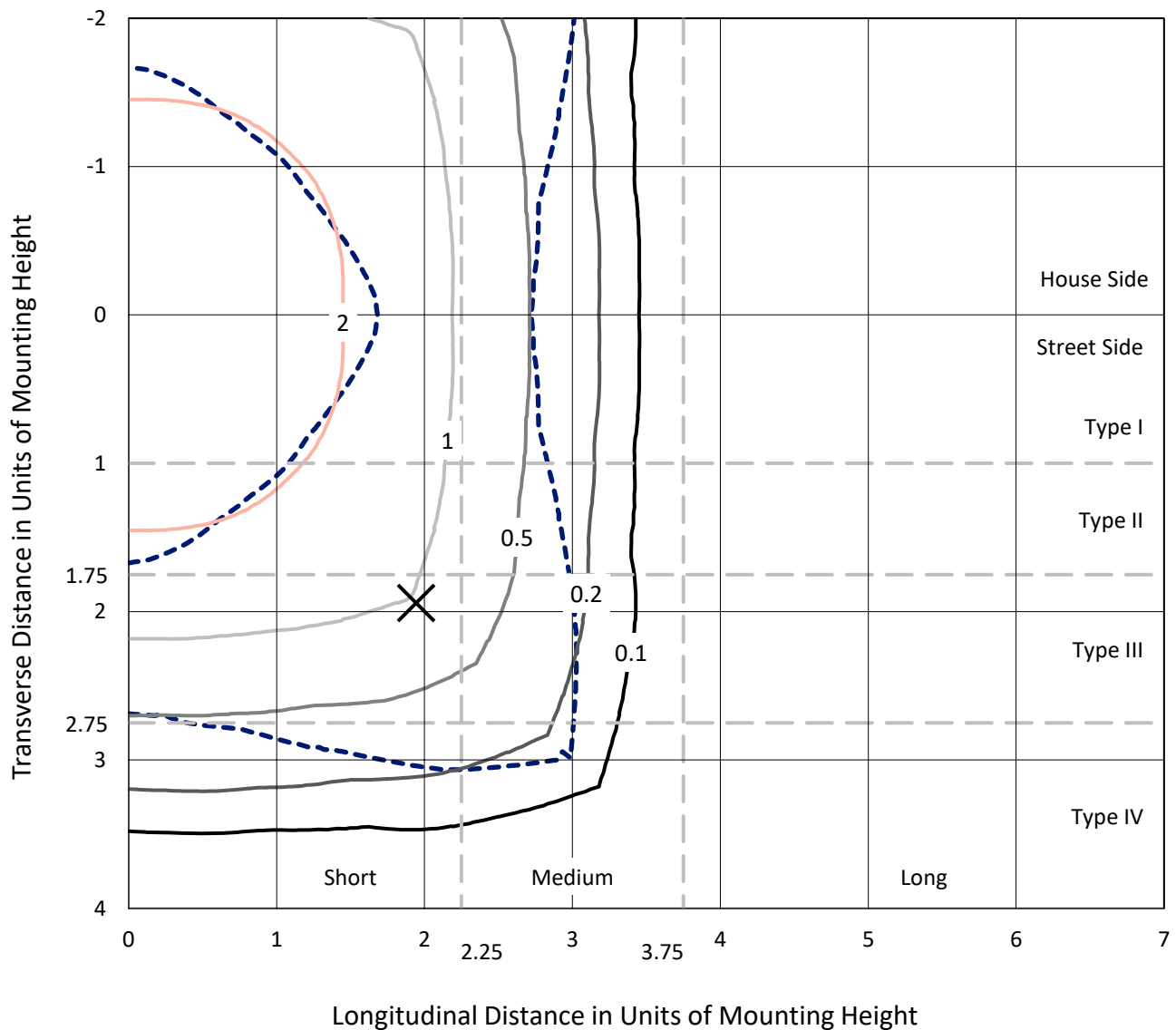


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Iso-Footcandle Lines of Horizontal Illumination

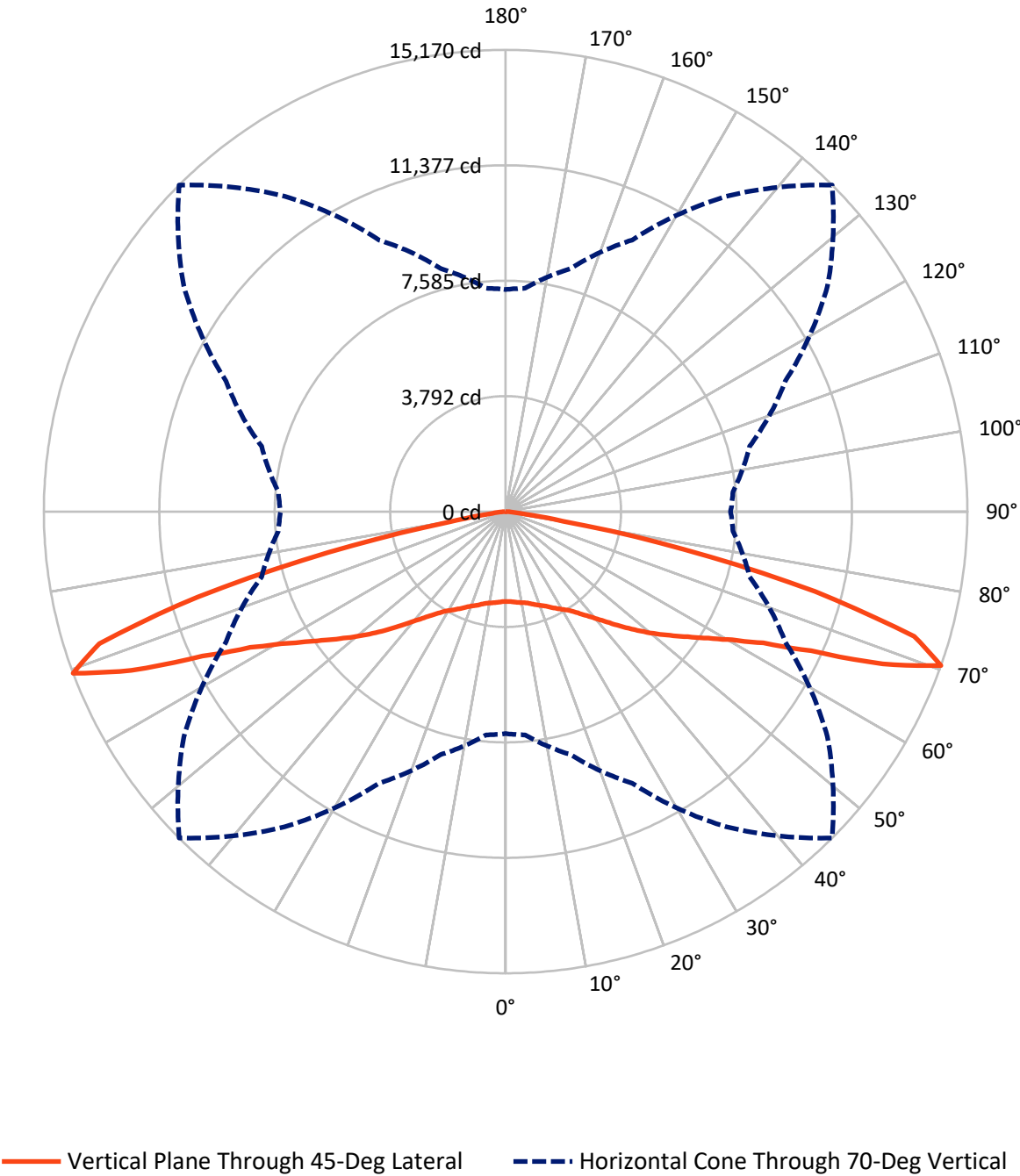
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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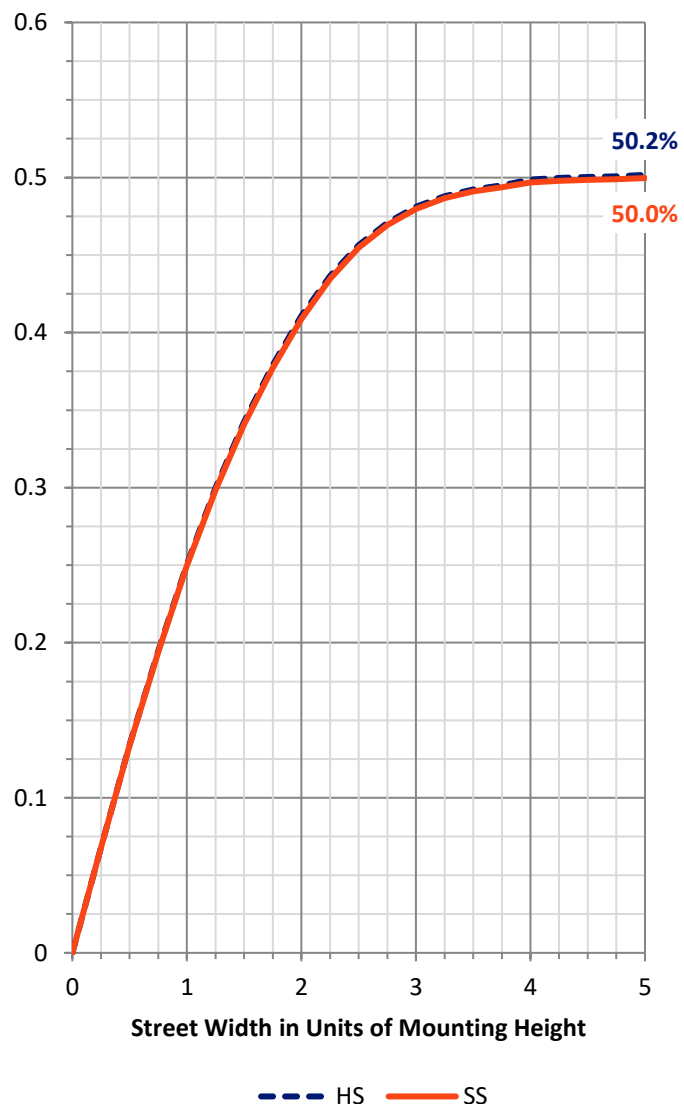
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15446.2	0.0	15446.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15446.2	0.0	15446.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	30892.5	0.0	30892.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.5	0.9
10°-20°	891.5	2.9
20°-30°	1593.1	5.2
30°-40°	2582.5	8.4
40°-50°	4206.4	13.6
50°-60°	6413.3	20.8
60°-70°	9541.0	30.9
70°-80°	5200.1	16.8
80°-90°	177.1	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°	30892.5	100.0
0°-180°	30892.5	100.0

Coefficient of Utilization



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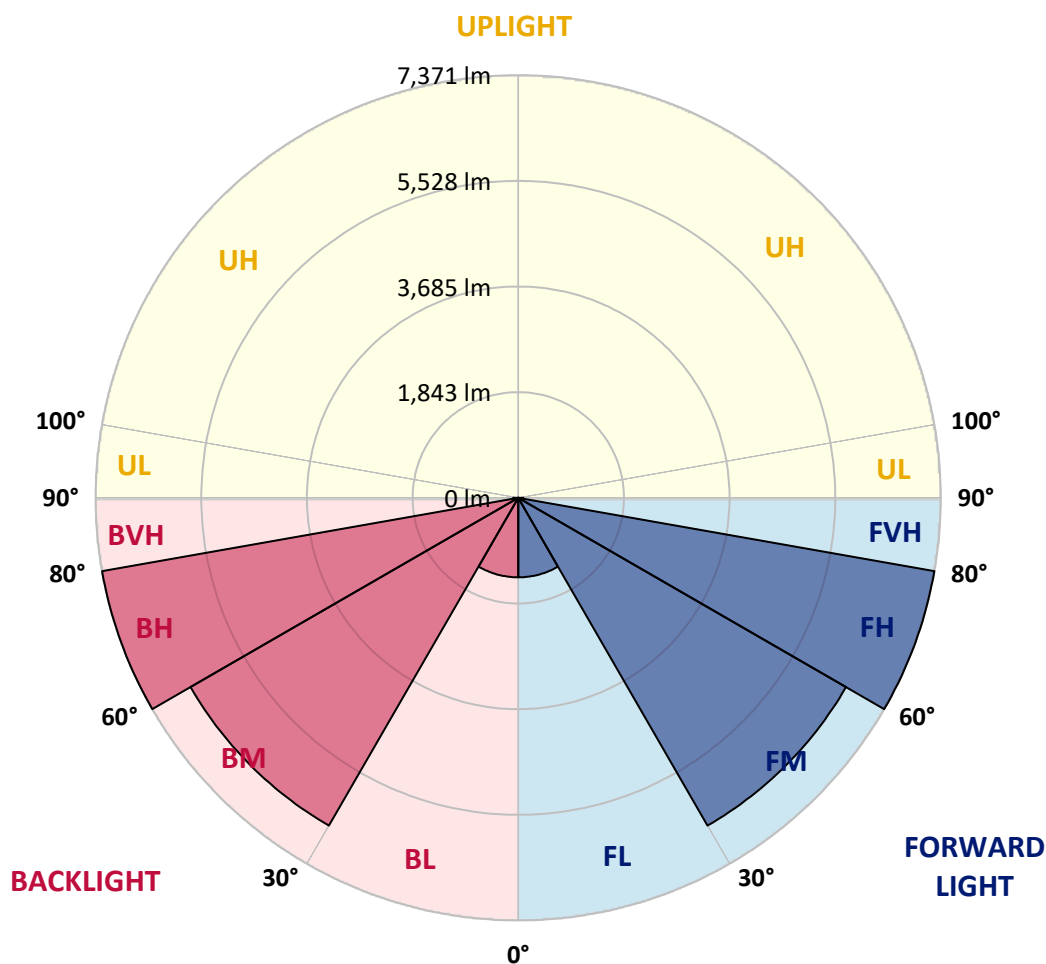
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1386.0	4.5			
FM	(30°-60°)	6601.1	21.4			
FH	(60°-80°)	7370.6	23.9			G3/7500
FVH	(80°-90°)	88.5	0.3			G1/100
BL	(0°-30°)	1386.0	4.5	B3/2500		
BM	(30°-60°)	6601.1	21.4	B4/8500		
BH	(60°-80°)	7370.6	23.9	B5		G3/7500
BVH	(80°-90°)	88.5	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°	2959.2	2959.2	2959.2	2959.2	2959.2	2959.2	2959.2	2959.2	2959.2	2959.2	2959.2
2.5°	2973.1	2976.2	2970.0	2967.0	2963.8	2959.2	2960.7	2968.5	2974.7	2973.1	2974.7
5°	2997.9	3001.1	2996.4	2994.8	2988.7	2987.1	2987.1	2994.8	2999.5	2996.4	2997.9
7.5°	3025.9	3030.5	3022.7	3021.2	3018.1	3015.0	3013.5	3021.2	3025.9	3025.9	3025.9
10°	3052.2	3056.9	3050.7	3046.0	3042.9	3042.9	3039.8	3046.0	3053.8	3052.2	3052.2
12.5°	3080.1	3083.3	3077.0	3074.0	3074.0	3078.6	3074.0	3077.0	3083.3	3080.1	3078.6
15°	3114.3	3115.8	3114.3	3119.0	3126.7	3142.2	3128.2	3125.1	3128.2	3120.5	3120.5
17.5°	3160.8	3163.9	3170.1	3181.0	3191.8	3219.7	3194.9	3187.1	3187.1	3171.7	3171.7
20°	3218.2	3222.8	3232.1	3250.8	3264.7	3291.1	3266.3	3255.4	3250.8	3230.6	3230.6
22.5°	3278.7	3286.5	3300.4	3325.2	3350.0	3374.8	3350.0	3331.4	3317.4	3291.1	3289.5
25°	3348.5	3357.8	3379.5	3419.8	3453.9	3489.6	3460.1	3422.9	3395.0	3357.8	3356.3
27.5°	3447.7	3458.6	3484.9	3534.6	3578.0	3609.0	3581.1	3533.1	3494.2	3449.2	3447.7
30°	3587.3	3598.2	3629.2	3681.9	3711.4	3731.5	3713.0	3675.8	3629.2	3578.0	3578.0
32.5°	3767.2	3781.1	3815.3	3865.0	3871.1	3874.2	3868.0	3849.4	3815.3	3753.2	3754.8
35°	3995.2	4010.7	4049.5	4089.9	4083.6	4089.9	4080.5	4074.3	4049.5	3978.1	3978.1
37.5°	4274.4	4293.0	4333.3	4364.3	4348.8	4341.1	4342.6	4344.2	4330.2	4251.1	4251.1
40°	4598.6	4623.4	4652.8	4685.4	4659.0	4635.8	4651.2	4663.6	4651.2	4570.6	4570.6
42.5°	4932.0	4967.7	4998.6	5045.2	5023.4	4994.0	5015.7	5029.7	5003.3	4916.4	4922.7
45°	5302.6	5336.8	5377.0	5446.8	5431.4	5400.3	5431.4	5434.4	5389.4	5287.2	5298.0
47.5°	5685.7	5721.3	5781.9	5874.9	5868.7	5834.6	5874.9	5853.3	5795.9	5673.3	5665.6
50°	6048.6	6098.2	6191.3	6321.6	6334.0	6292.2	6346.4	6304.6	6208.4	6054.9	6051.7
52.5°	6389.8	6442.5	6589.9	6766.7	6811.7	6757.4	6830.3	6757.4	6613.2	6416.2	6397.6
55°	6748.1	6807.0	6982.3	7213.4	7303.3	7263.0	7331.2	7221.1	7016.4	6777.6	6745.0
57.5°	7170.0	7205.6	7415.1	7689.6	7841.6	7850.8	7881.8	7695.7	7447.5	7176.1	7138.9
60°	7627.5	7677.1	7905.1	8233.9	8474.3	8551.9	8519.3	8243.3	7954.7	7643.0	7593.4
62.5°	8213.7	8268.1	8541.0	8934.9	9314.9	9507.2	9380.1	8979.9	8623.2	8249.4	8184.3
65°	8699.2	8759.6	9252.9	9955.4	10647.2	11033.3	10713.8	9977.1	9335.1	8807.7	8720.9
67.5°	8347.1	8421.6	9195.5	10485.9	12205.8	13358.2	12264.7	10644.0	9386.2	8671.3	8564.3
70°	7295.5	7365.3	8268.1	9845.3	12644.7	15169.7	12908.4	10135.3	8297.5	7497.2	7390.1
72.5°	4843.5	5068.4	5981.9	7874.0	11290.8	14037.5	11402.4	7714.4	5549.2	4832.7	4676.0
75°	1606.8	1786.7	2410.2	4082.1	7562.3	10498.3	7199.4	3612.1	1909.2	1374.1	1299.7
77.5°	404.8	466.8	643.6	1167.9	3016.6	5977.3	2715.6	953.9	519.6	363.0	324.1
80°	197.0	217.1	310.2	389.3	755.3	1899.9	708.8	366.0	245.1	189.2	173.7
82.5°	108.5	110.1	175.3	220.3	280.7	491.7	291.6	214.0	141.1	114.8	114.8
85°	66.7	65.2	93.1	117.9	117.9	175.3	139.6	117.9	80.7	71.3	74.4
87.5°	26.3	26.3	34.1	37.2	32.6	45.0	35.7	38.7	31.1	29.4	31.1
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)