

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: P969975

Luminaire Tested: **NAV-SB6A-830-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969975
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-830-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26236.9 lumens
Efficiency: N/A
Efficacy: 153.5 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



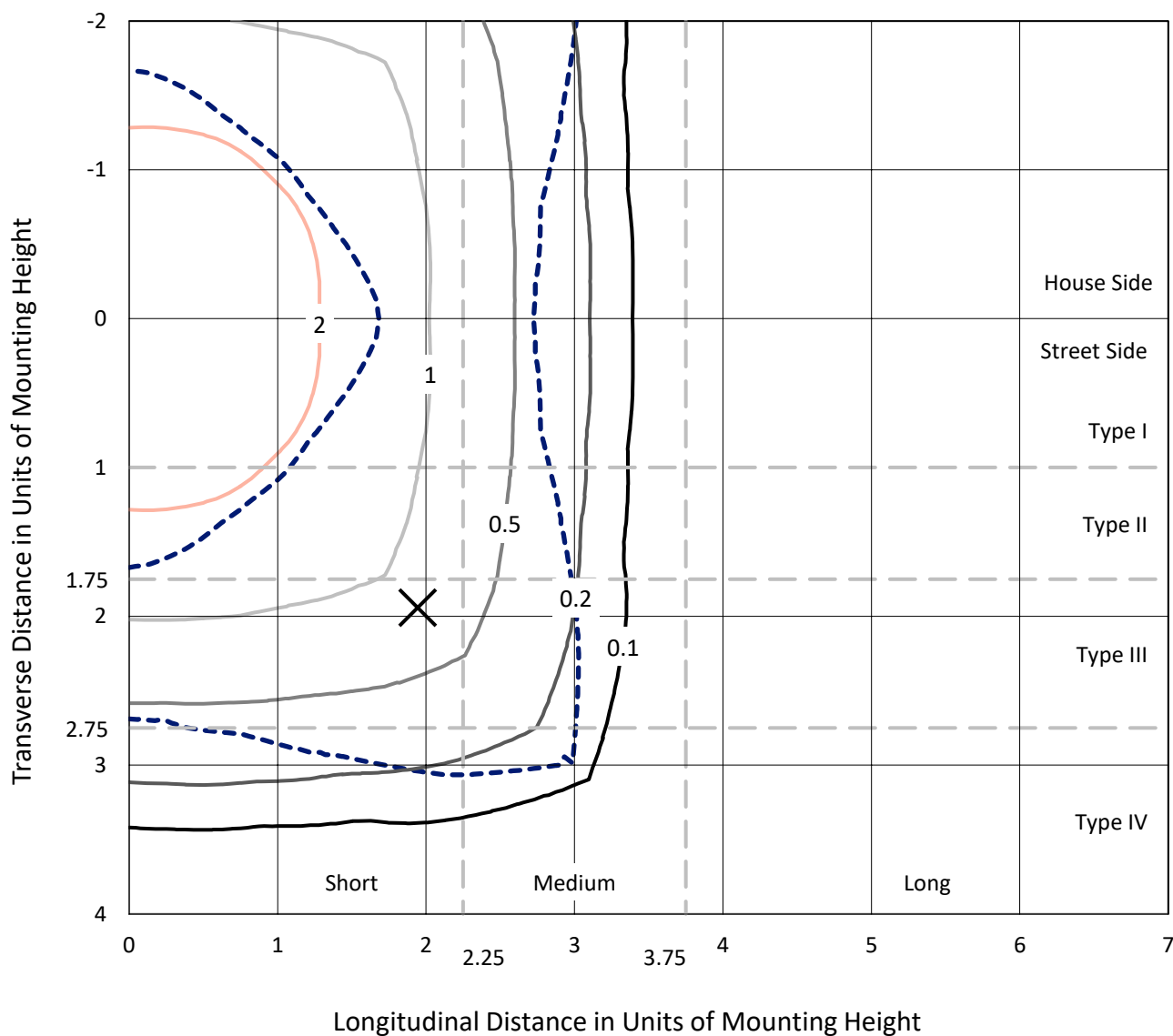
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

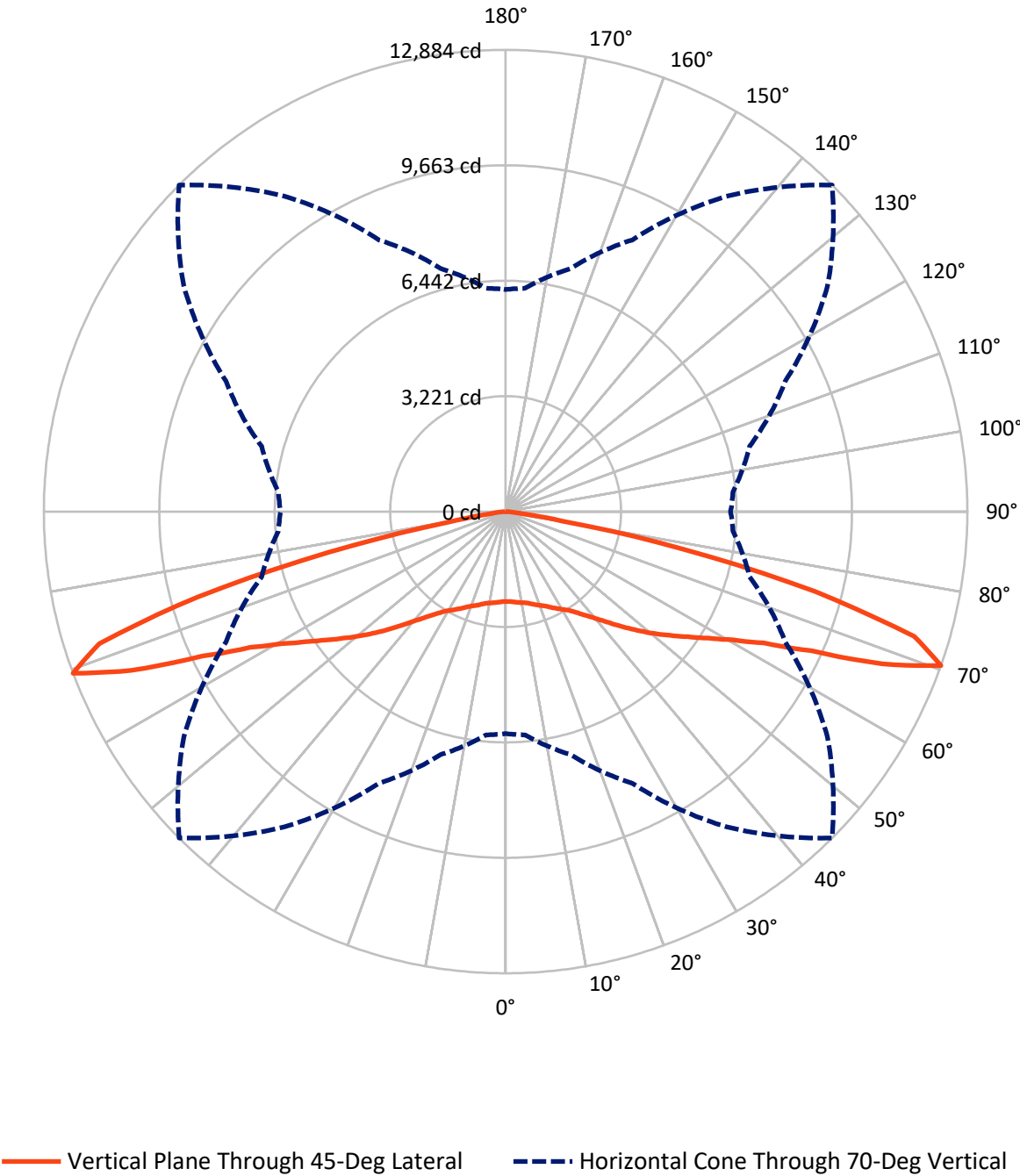


Based on 25 foot mounting height. Maximum calculated value = 4 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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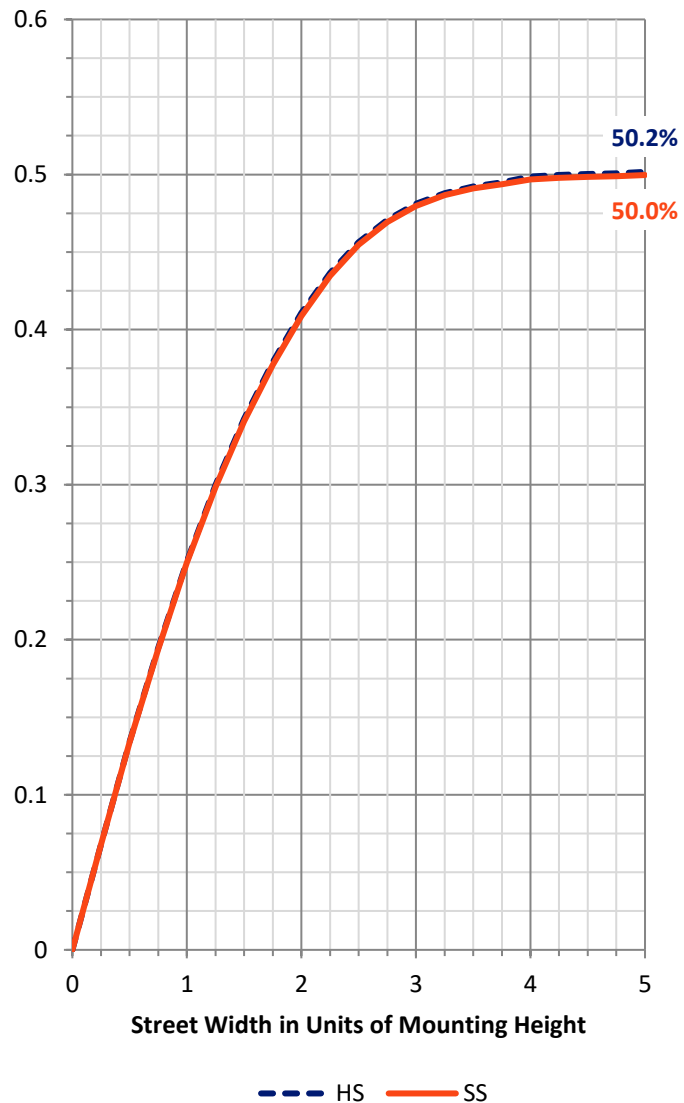
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13118.5	0.0	13118.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13118.5	0.0	13118.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26236.9	0.0	26236.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.2	0.9
10°-20°	757.1	2.9
20°-30°	1353.0	5.2
30°-40°	2193.3	8.4
40°-50°	3572.5	13.6
50°-60°	5446.8	20.8
60°-70°	8103.1	30.9
70°-80°	4416.5	16.8
80°-90°	150.4	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°	26236.9	100.0
0°-180°	26236.9	100.0

Coefficient of Utilization



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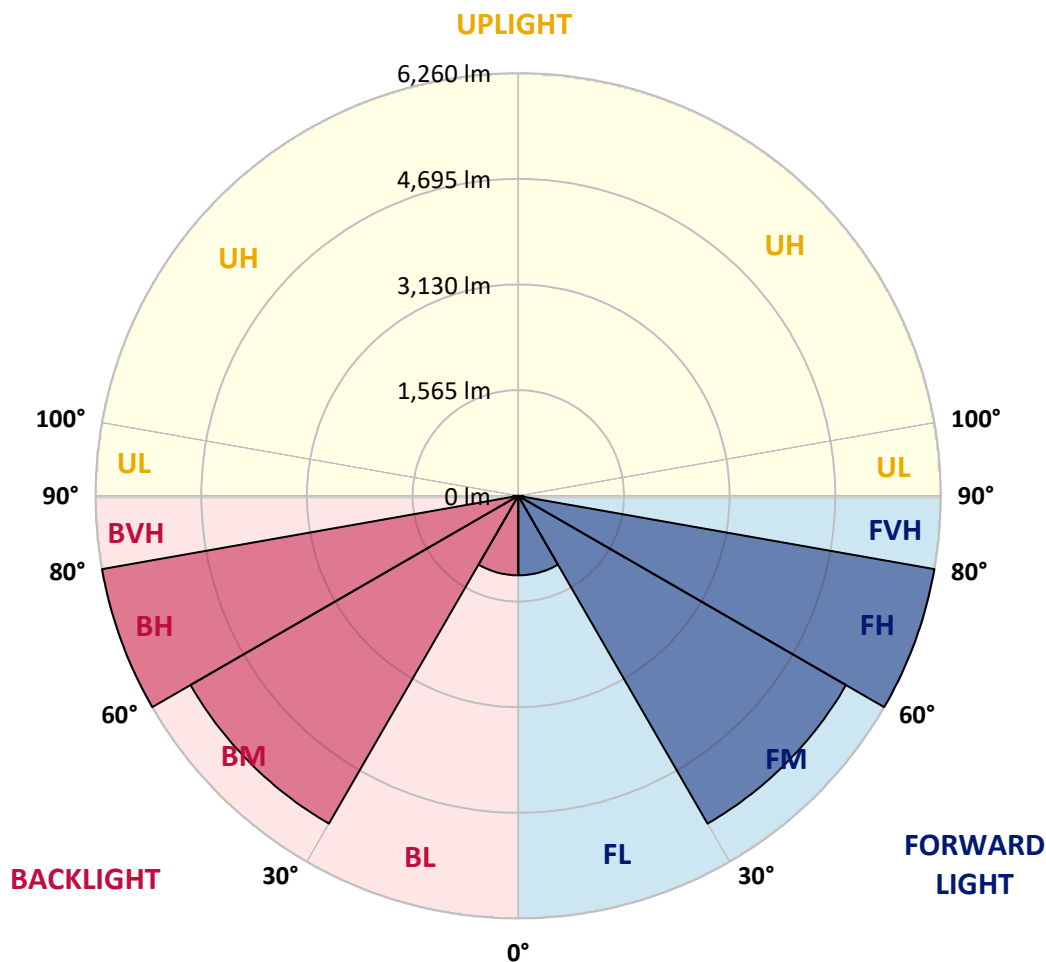
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1177.2	4.5			
FM	(30°-60°)	5606.3	21.4			
FH	(60°-80°)	6259.8	23.9			G3/7500
FVH	(80°-90°)	75.2	0.3			G1/100
BL	(0°-30°)	1177.2	4.5	B3/2500		
BM	(30°-60°)	5606.3	21.4	B4/8500		
BH	(60°-80°)	6259.8	23.9	B5		G3/7500
BVH	(80°-90°)	75.2	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°	2513.2	2513.2	2513.2	2513.2	2513.2	2513.2	2513.2	2513.2	2513.2	2513.2	2513.2
2.5°	2525.1	2527.8	2522.4	2519.9	2517.2	2513.2	2514.5	2521.1	2526.4	2525.1	2526.4
5°	2546.2	2548.8	2544.9	2543.5	2538.2	2537.0	2537.0	2543.5	2547.4	2544.9	2546.2
7.5°	2569.9	2573.8	2567.2	2565.9	2563.3	2560.7	2559.3	2565.9	2569.9	2569.9	2569.9
10°	2592.2	2596.2	2590.9	2587.0	2584.3	2584.3	2581.8	2587.0	2593.6	2592.2	2592.2
12.5°	2616.0	2618.6	2613.3	2610.7	2610.7	2614.7	2610.7	2613.3	2618.6	2616.0	2614.7
15°	2644.9	2646.2	2644.9	2648.9	2655.5	2668.7	2656.8	2654.1	2656.8	2650.2	2650.2
17.5°	2684.5	2687.1	2692.4	2701.6	2710.8	2734.5	2713.5	2706.8	2706.8	2693.7	2693.7
20°	2733.2	2737.2	2745.1	2760.8	2772.7	2795.1	2774.1	2764.8	2760.8	2743.7	2743.7
22.5°	2784.6	2791.2	2803.0	2824.1	2845.2	2866.2	2845.2	2829.3	2817.5	2795.1	2793.7
25°	2843.9	2851.8	2870.2	2904.4	2933.4	2963.7	2938.7	2907.1	2883.3	2851.8	2850.4
27.5°	2928.1	2937.3	2959.8	3001.9	3038.8	3065.2	3041.4	3000.6	2967.7	2929.4	2928.1
30°	3046.7	3055.9	3082.3	3127.1	3152.1	3169.2	3153.4	3121.7	3082.3	3038.8	3038.8
32.5°	3199.5	3211.3	3240.3	3282.5	3287.8	3290.4	3285.1	3269.3	3240.3	3187.6	3189.0
35°	3393.2	3406.3	3439.2	3473.4	3468.2	3473.4	3465.5	3460.3	3439.2	3378.6	3378.6
37.5°	3630.2	3646.0	3680.3	3706.6	3693.5	3686.8	3688.2	3689.5	3677.6	3610.5	3610.5
40°	3905.6	3926.6	3951.6	3979.3	3956.9	3937.1	3950.2	3960.8	3950.2	3881.8	3881.8
42.5°	4188.7	4219.0	4245.3	4284.9	4266.5	4241.3	4259.8	4271.7	4249.3	4175.5	4180.8
45°	4503.5	4532.5	4566.8	4626.0	4612.8	4586.5	4612.8	4615.5	4577.2	4490.3	4499.5
47.5°	4828.9	4859.2	4910.6	4989.6	4984.3	4955.4	4989.6	4971.1	4922.4	4818.3	4811.8
50°	5137.1	5179.2	5258.2	5369.0	5379.5	5343.9	5390.0	5354.4	5272.8	5142.3	5139.8
52.5°	5426.9	5471.7	5596.8	5747.0	5785.2	5739.1	5801.0	5739.1	5616.6	5449.3	5433.4
55°	5731.2	5781.2	5930.0	6126.3	6202.7	6168.4	6226.5	6132.9	5959.0	5756.2	5728.5
57.5°	6089.4	6119.8	6297.6	6530.7	6659.8	6667.7	6694.1	6536.0	6325.2	6094.8	6063.1
60°	6478.0	6520.1	6713.7	6993.1	7197.2	7263.0	7235.4	7001.0	6756.0	6491.2	6449.0
62.5°	6975.9	7022.0	7253.8	7588.4	7911.2	8074.4	7966.4	7626.6	7323.6	7006.2	6950.9
65°	7388.2	7439.6	7858.5	8455.1	9042.7	9370.6	9099.2	8473.6	7928.3	7480.4	7406.6
67.5°	7089.2	7152.4	7809.7	8905.6	10366.4	11345.1	10416.5	9040.0	7971.7	7364.5	7273.6
70°	6196.1	6255.4	7022.0	8361.6	10739.1	12883.5	10963.1	8607.9	7047.1	6367.4	6276.5
72.5°	4113.6	4304.6	5080.4	6687.4	9589.3	11922.0	9684.1	6551.8	4713.0	4104.4	3971.4
75°	1364.6	1517.4	2046.9	3466.9	6422.6	8916.2	6114.4	3067.7	1621.4	1167.1	1103.8
77.5°	343.8	396.5	546.6	991.9	2562.0	5076.5	2306.5	810.1	441.3	308.2	275.3
80°	167.3	184.4	263.4	330.7	641.4	1613.6	602.0	310.9	208.1	160.7	147.5
82.5°	92.2	93.5	148.8	187.1	238.4	417.6	247.6	181.7	119.8	97.5	97.5
85°	56.7	55.4	79.0	100.1	100.1	148.8	118.6	100.1	68.5	60.6	63.2
87.5°	22.3	22.3	29.0	31.6	27.7	38.2	30.3	32.9	26.3	25.0	26.3
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)