

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: P969820

Luminaire Tested: **NAV-SB6A-735-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969820
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-735-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29199.2 lumens
Efficiency: N/A
Efficacy: 170.9 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

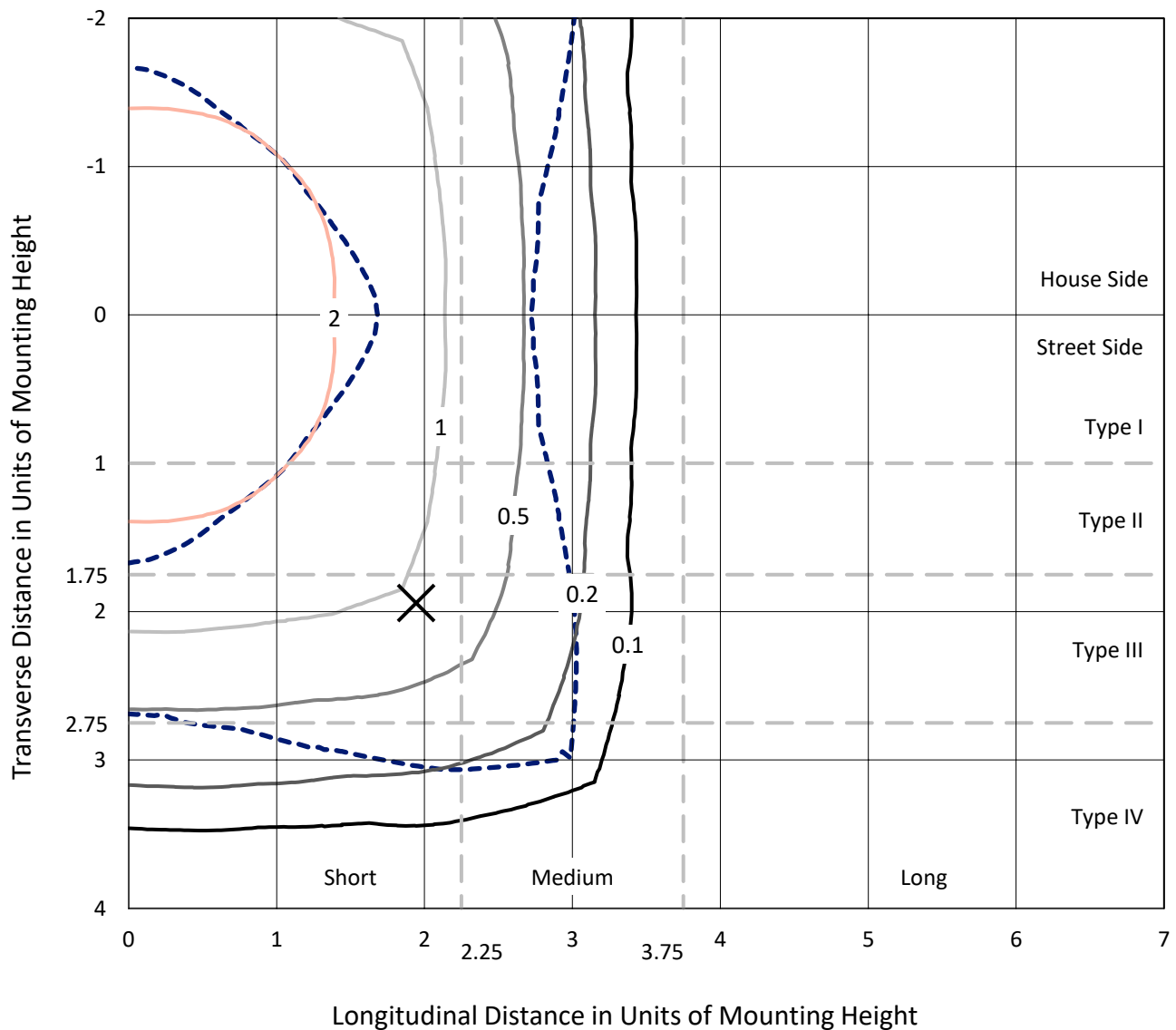


REPORT NUMBER: P969820

CATALOG NUMBER: NAV-SB6A-735-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

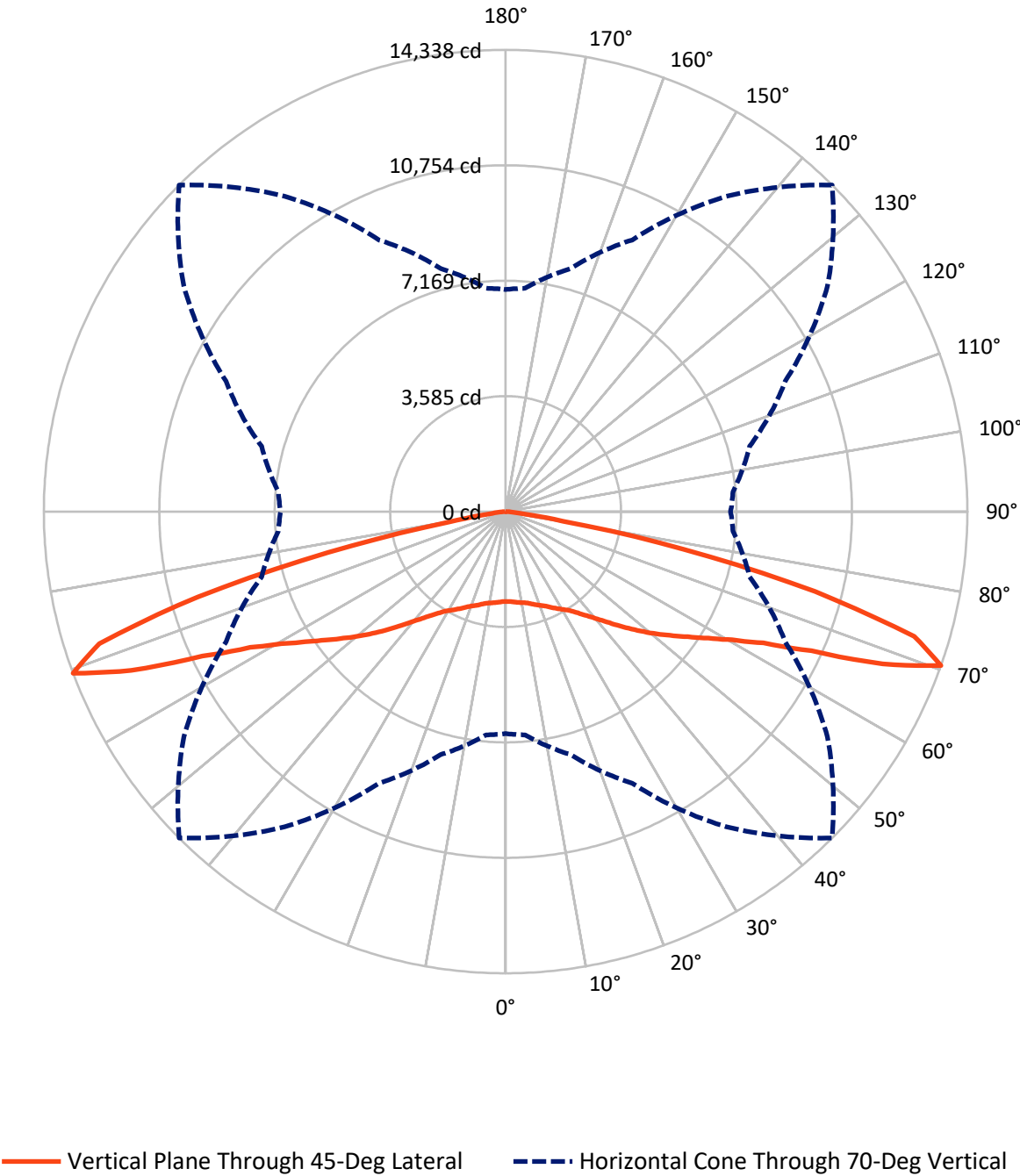
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
Type V - Short - N/A

REPORT NUMBER: P969820
CATALOG NUMBER: NAV-SB6A-735-U-5MQ

Luminous Intensity Polar Plot



REPORT NUMBER: P969820

CATALOG NUMBER: NAV-SB6A-735-U-5MQ

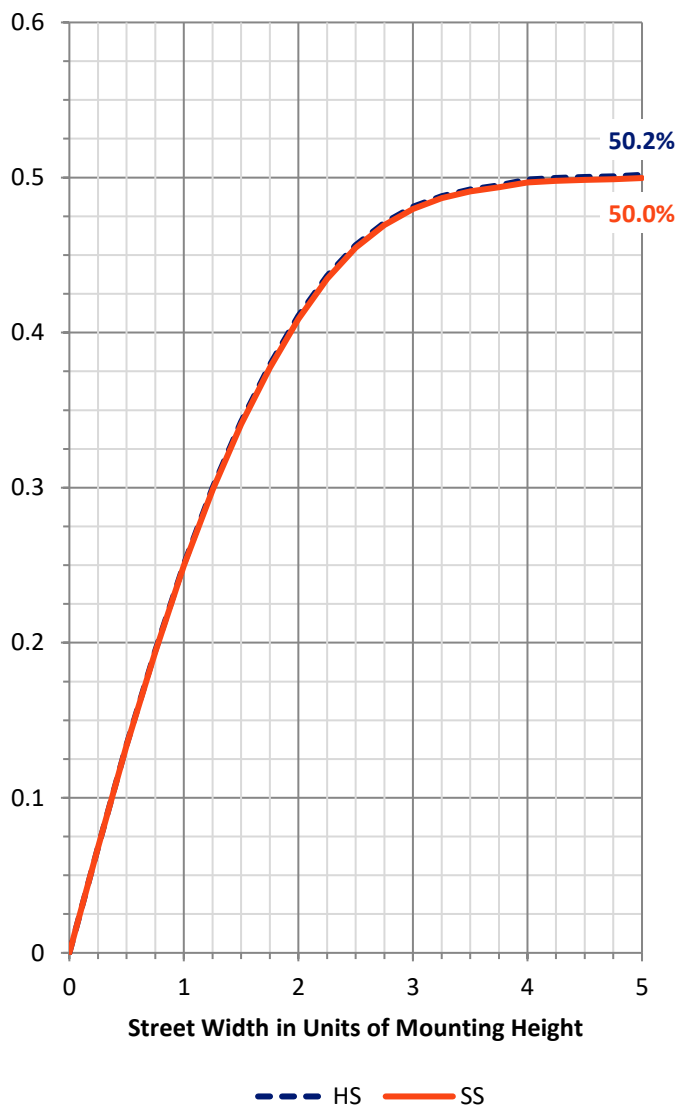
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14599.6	0.0	14599.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14599.6	0.0	14599.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	29199.2	0.0	29199.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.7	0.9
10°-20°	842.6	2.9
20°-30°	1505.8	5.2
30°-40°	2440.9	8.4
40°-50°	3975.8	13.6
50°-60°	6061.8	20.8
60°-70°	9018.0	30.9
70°-80°	4915.1	16.8
80°-90°	167.4	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°	29199.2	100.0
0°-180°	29199.2	100.0

Coefficient of Utilization



REPORT NUMBER: P969820

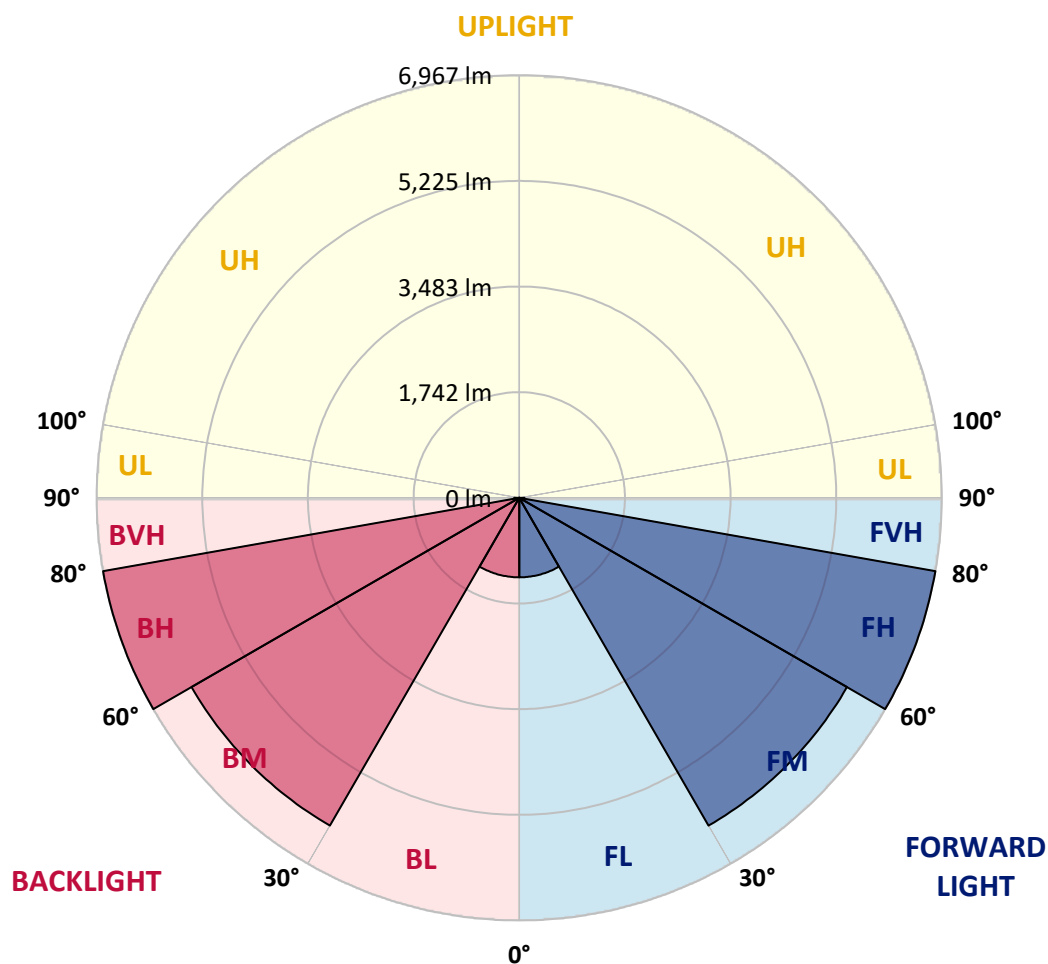
CATALOG NUMBER: NAV-SB6A-735-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1310.1	4.5			
FM	(30°-60°)	6239.3	21.4			
FH	(60°-80°)	6966.6	23.9			G3/7500
FVH	(80°-90°)	83.7	0.3			G1/100
BL	(0°-30°)	1310.1	4.5	B3/2500		
BM	(30°-60°)	6239.3	21.4	B4/8500		
BH	(60°-80°)	6966.6	23.9	B5		G3/7500
BVH	(80°-90°)	83.7	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



REPORT NUMBER: P969820

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0
2.5°	2810.1	2813.1	2807.3	2804.3	2801.4	2797.0	2798.5	2805.7	2811.7	2810.1	2811.7
5°	2833.6	2836.6	2832.2	2830.7	2824.8	2823.4	2823.4	2830.7	2835.0	2832.2	2833.6
7.5°	2860.1	2864.4	2857.1	2855.6	2852.7	2849.7	2848.3	2855.6	2860.1	2860.1	2860.1
10°	2885.0	2889.4	2883.4	2879.0	2876.1	2876.1	2873.2	2879.0	2886.4	2885.0	2885.0
12.5°	2911.3	2914.3	2908.4	2905.5	2905.5	2909.9	2905.5	2908.4	2914.3	2911.3	2909.9
15°	2943.6	2945.0	2943.6	2948.0	2955.3	2969.9	2956.7	2953.8	2956.7	2949.4	2949.4
17.5°	2987.6	2990.4	2996.4	3006.6	3016.9	3043.2	3019.8	3012.5	3012.5	2997.8	2997.8
20°	3041.8	3046.2	3055.0	3072.5	3085.8	3110.7	3087.2	3076.9	3072.5	3053.5	3053.5
22.5°	3099.0	3106.3	3119.5	3143.0	3166.4	3189.8	3166.4	3148.8	3135.6	3110.7	3109.2
25°	3164.9	3173.7	3194.2	3232.3	3264.6	3298.3	3270.5	3235.3	3208.9	3173.7	3172.3
27.5°	3258.8	3269.0	3293.9	3340.9	3381.9	3411.2	3384.9	3339.3	3302.8	3260.2	3258.8
30°	3390.7	3401.0	3430.3	3480.1	3508.0	3527.0	3509.4	3474.2	3430.3	3381.9	3381.9
32.5°	3560.7	3573.9	3606.2	3653.1	3658.9	3661.9	3656.0	3638.4	3606.2	3547.5	3549.0
35°	3776.2	3790.9	3827.6	3865.7	3859.7	3865.7	3856.9	3851.0	3827.6	3760.1	3760.1
37.5°	4040.0	4057.7	4095.8	4125.1	4110.5	4103.1	4104.6	4106.0	4092.8	4018.1	4018.1
40°	4346.4	4369.9	4397.8	4428.5	4403.6	4381.7	4396.3	4408.0	4396.3	4320.1	4320.1
42.5°	4661.6	4695.3	4724.6	4768.6	4748.1	4720.2	4740.8	4754.0	4729.0	4646.9	4652.9
45°	5011.9	5044.2	5082.4	5148.3	5133.6	5104.3	5133.6	5136.6	5094.0	4997.3	5007.6
47.5°	5374.1	5407.8	5465.0	5552.9	5547.1	5514.8	5552.9	5532.4	5478.1	5362.4	5355.0
50°	5717.1	5764.0	5851.9	5975.1	5986.8	5947.3	5998.5	5958.9	5868.1	5723.0	5720.0
52.5°	6039.6	6089.4	6228.7	6395.8	6438.3	6387.0	6456.0	6387.0	6250.7	6064.5	6046.9
55°	6378.3	6433.9	6599.6	6818.0	6903.1	6864.9	6929.4	6825.4	6631.9	6406.0	6375.3
57.5°	6777.0	6810.7	7008.5	7268.1	7411.7	7420.5	7449.8	7273.9	7039.4	6782.8	6747.7
60°	7209.4	7256.3	7471.8	7782.6	8009.8	8083.0	8052.3	7791.3	7518.7	7224.1	7177.2
62.5°	7763.6	7814.8	8072.8	8445.2	8804.3	8986.1	8865.9	8487.7	8150.5	7797.3	7735.7
65°	8222.3	8279.5	8745.7	9409.7	10063.6	10428.6	10126.6	9430.3	8823.4	8324.9	8242.8
67.5°	7889.6	7959.9	8691.5	9911.1	11536.8	12625.9	11592.5	10060.6	8871.8	8196.0	8094.8
70°	6895.7	6961.7	7814.8	9305.7	11951.7	14338.2	12200.9	9579.8	7842.7	7086.2	6985.1
72.5°	4578.1	4790.6	5654.1	7442.5	10671.9	13268.0	10777.5	7291.5	5245.0	4567.8	4419.8
75°	1518.7	1688.8	2278.1	3858.3	7147.8	9922.8	6804.8	3414.2	1804.5	1298.8	1228.5
77.5°	382.6	441.3	608.3	1103.8	2851.2	5649.7	2566.8	901.6	491.1	343.1	306.4
80°	186.1	205.2	293.2	368.0	713.9	1795.8	669.9	345.9	231.6	178.9	164.2
82.5°	102.6	104.0	165.6	208.2	265.4	464.7	275.6	202.3	133.4	108.4	108.4
85°	63.0	61.6	87.9	111.4	111.4	165.6	131.9	111.4	76.3	67.4	70.3
87.5°	24.9	24.9	32.3	35.2	30.7	42.5	33.7	36.7	29.3	27.9	29.3
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)