

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: P970875

Luminaire Tested: **NAV-SB6C-735-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-735-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48778.7 lumens
Efficiency: N/A
Efficacy: 162.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

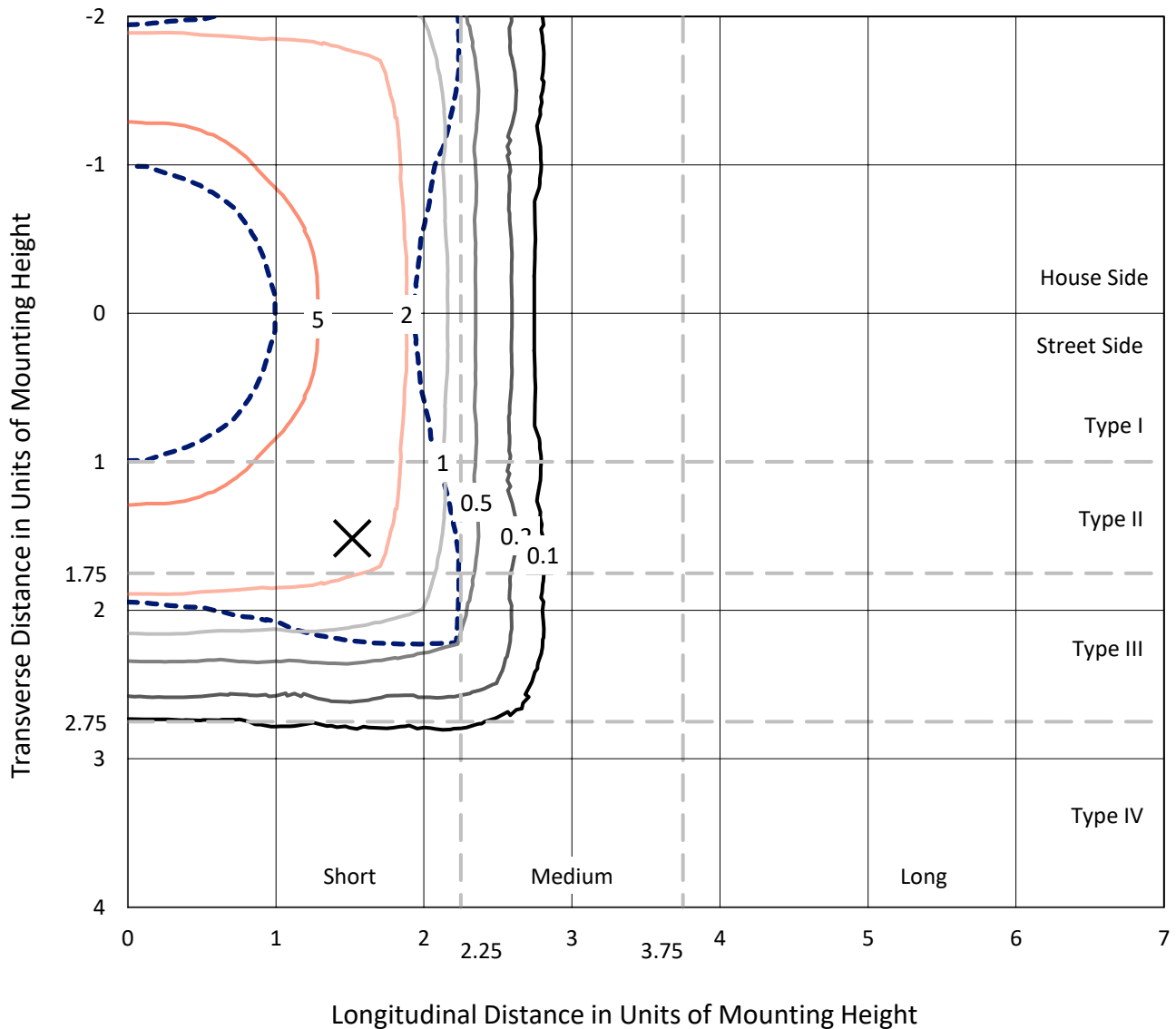
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P970875
CATALOG NUMBER: NAV-SB6C-735-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

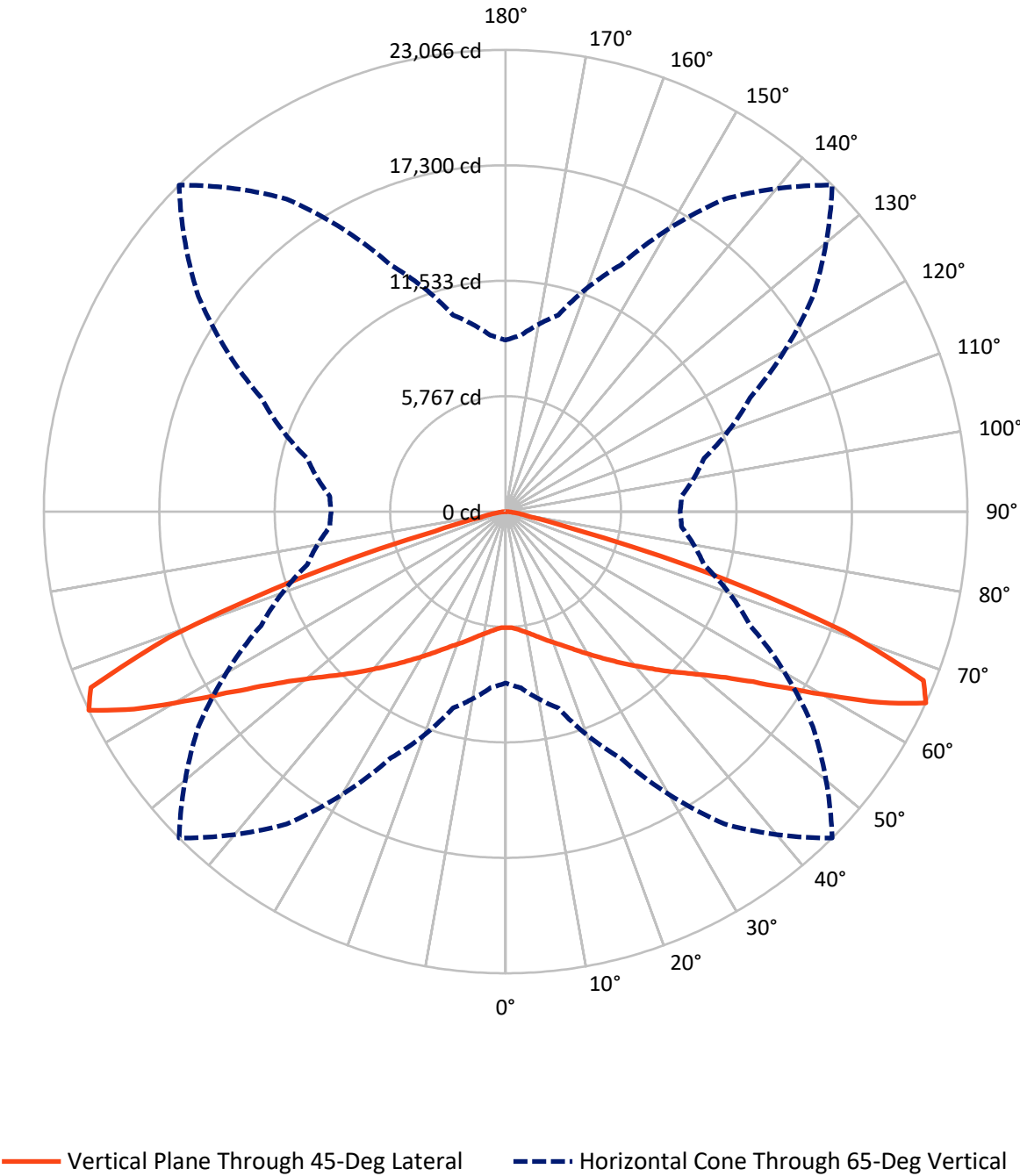
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
Type V - Short - N/A

REPORT NUMBER: P970875
CATALOG NUMBER: NAV-SB6C-735-U-5NQ

Luminous Intensity Polar Plot



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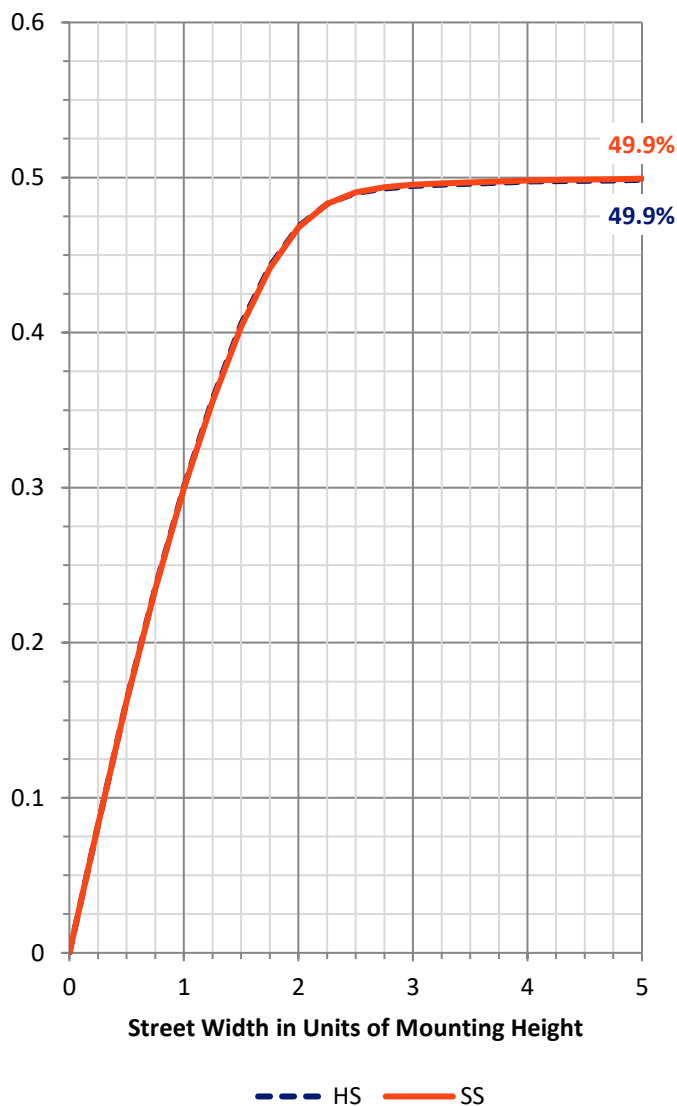
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24389.4	0.0	24389.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24389.4	0.0	24389.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	48778.7	0.0	48778.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.9	1.2
10°-20°	1869.5	3.8
20°-30°	3529.7	7.2
30°-40°	5779.8	11.8
40°-50°	8961.7	18.4
50°-60°	13238.3	27.1
60°-70°	12601.6	25.8
70°-80°	2033.4	4.2
80°-90°	191.7	0.4
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°	48778.7	100.0
0°-180°	48778.7	100.0

Coefficient of Utilization



REPORT NUMBER: P970875

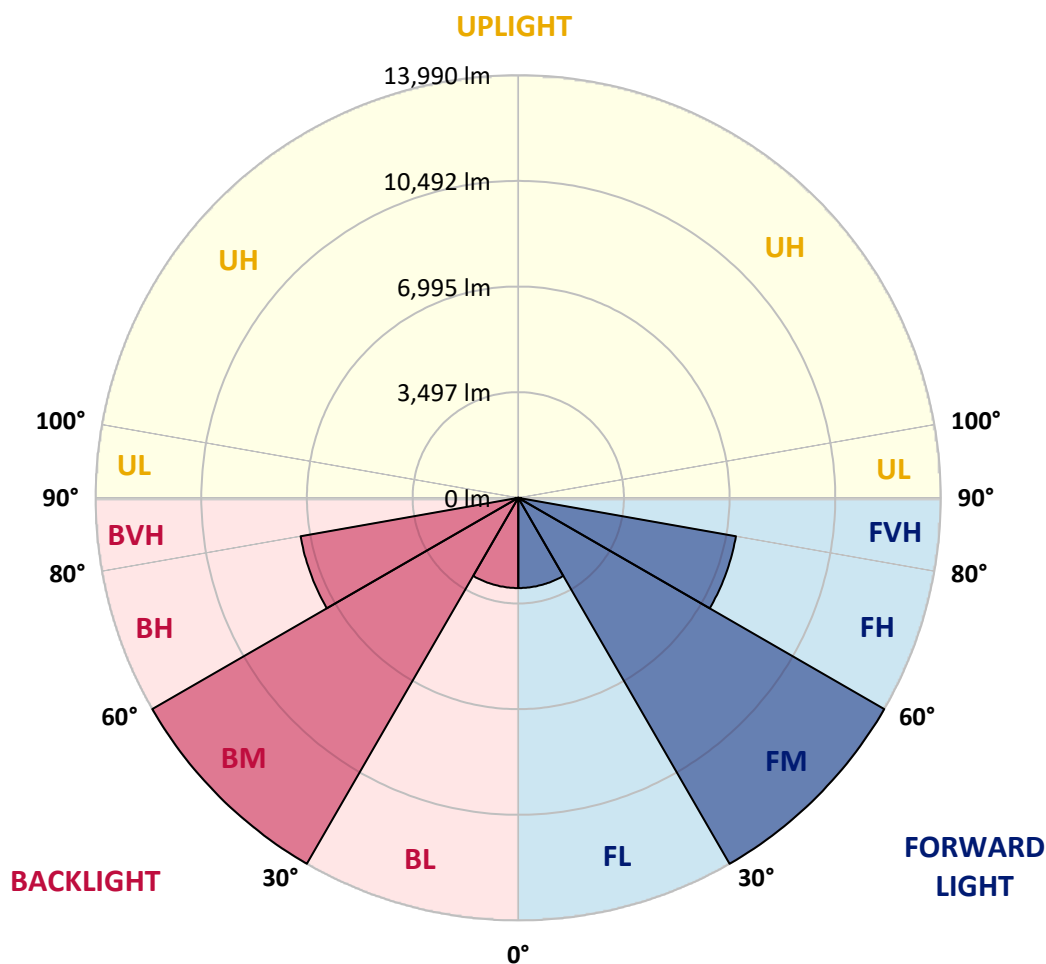
CATALOG NUMBER: NAV-SB6C-735-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2986.1	6.1			
FM	(30°-60°)	13989.9	28.7			
FH	(60°-80°)	7317.5	15.0			G3/7500
FVH	(80°-90°)	95.8	0.2			G1/100
BL	(0°-30°)	2986.1	6.1	B4/5000		
BM	(30°-60°)	13989.9	28.7	B5		
BH	(60°-80°)	7317.5	15.0	B5		G3/7500
BVH	(80°-90°)	95.8	0.2			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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CATALOG NUMBER: NAV-SB6C-735-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5805.2	5805.2	5805.2	5805.2	5805.2	5805.2	5805.2	5805.2	5805.2	5805.2	5805.2
2.5°	5844.3	5824.8	5839.4	5827.2	5817.4	5807.6	5812.5	5829.6	5837.0	5839.4	5839.4
5°	5922.7	5905.5	5912.8	5912.8	5895.7	5890.8	5893.2	5905.5	5920.2	5920.2	5920.2
7.5°	6049.9	6032.7	6049.9	6040.1	6025.5	6020.5	6018.1	6027.8	6049.9	6049.9	6042.6
10°	6204.1	6184.5	6194.3	6189.4	6172.2	6165.0	6162.5	6177.2	6196.7	6194.3	6189.4
12.5°	6372.9	6350.9	6363.2	6348.4	6343.6	6336.2	6336.2	6333.8	6346.0	6336.2	6341.2
15°	6561.4	6546.7	6551.6	6541.9	6549.1	6544.2	6524.6	6514.9	6519.8	6505.1	6507.5
17.5°	6784.1	6749.8	6766.9	6762.0	6762.0	6771.9	6740.1	6727.8	6737.6	6722.9	6735.2
20°	7041.0	7006.8	7014.2	7004.3	6992.1	7001.9	6962.7	6972.6	6979.9	6970.1	6992.1
22.5°	7322.5	7278.4	7276.1	7280.9	7254.0	7256.5	7229.5	7254.0	7268.7	7241.7	7268.7
25°	7611.3	7564.8	7596.6	7584.4	7550.2	7557.4	7537.8	7562.3	7574.6	7540.3	7579.5
27.5°	7917.2	7885.4	7914.7	7922.1	7880.5	7909.9	7880.5	7902.5	7914.7	7863.4	7902.5
30°	8274.5	8242.7	8269.7	8289.3	8240.3	8286.8	8262.3	8277.0	8279.4	8218.2	8254.9
32.5°	8663.7	8614.7	8683.3	8693.0	8639.2	8695.5	8663.7	8683.3	8695.5	8612.3	8668.5
35°	9138.5	9077.3	9155.6	9143.4	9096.9	9143.4	9114.0	9143.4	9172.7	9072.4	9133.6
37.5°	9650.0	9586.3	9669.5	9647.5	9603.4	9635.3	9618.2	9637.8	9684.2	9576.6	9642.6
40°	10212.9	10134.6	10247.1	10208.0	10166.4	10161.4	10171.3	10183.5	10244.7	10124.7	10163.9
42.5°	10814.9	10731.7	10900.6	10839.4	10780.6	10741.5	10773.3	10797.8	10856.5	10721.9	10792.9
45°	11502.7	11407.2	11627.4	11554.0	11461.0	11380.3	11431.6	11468.3	11554.0	11392.5	11475.7
47.5°	12261.4	12153.6	12388.6	12366.5	12214.8	12038.6	12156.1	12261.4	12324.9	12129.1	12195.2
50°	13002.8	12919.6	13228.0	13255.0	13069.0	12821.7	12985.7	13144.8	13161.9	12905.0	12936.8
52.5°	13697.9	13614.7	14062.6	14231.4	14065.0	13771.4	13945.1	14106.7	13976.9	13644.1	13653.8
55°	14253.4	14185.0	14755.2	15190.8	15247.1	15004.8	15107.6	15102.7	14676.9	14165.4	14182.5
57.5°	14388.0	14378.3	15097.8	16020.4	16607.9	16637.2	16434.0	15915.3	14997.5	14309.7	14265.7
60°	13776.2	13837.4	14826.1	16453.6	18020.0	18671.0	17792.4	16311.7	14632.8	13678.3	13565.8
62.5°	11945.6	12107.1	13299.0	15925.0	19160.4	21010.7	18881.4	15709.7	13135.1	11889.3	11815.9
65°	8560.9	8842.4	10159.0	13590.3	19057.6	23066.4	18724.8	13480.1	10256.9	8820.3	8715.1
67.5°	3883.9	4170.3	5288.8	9304.8	16566.3	22508.5	16527.1	9402.8	5553.0	4185.0	4123.8
70°	1407.2	1456.2	1816.0	3724.8	10587.3	17934.3	11040.1	3751.8	1931.0	1551.6	1532.1
72.5°	851.7	859.1	934.9	1333.8	3678.4	10888.4	3835.0	1377.9	954.5	846.8	861.5
75°	540.9	536.0	665.6	815.0	1304.4	3673.5	1368.1	815.0	663.3	604.5	609.4
77.5°	389.1	401.4	477.2	609.4	822.4	1245.7	807.6	582.5	477.2	391.5	398.9
80°	291.2	298.6	347.5	474.8	577.6	775.8	513.9	430.7	359.8	244.8	252.0
82.5°	210.4	210.4	227.7	345.1	352.4	418.5	279.0	303.5	237.4	173.7	173.7
85°	124.8	122.4	142.0	205.6	183.6	154.2	127.3	186.0	149.2	107.7	105.3
87.5°	44.1	46.5	44.1	58.7	49.0	41.6	39.2	51.4	41.6	36.7	34.2
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)