

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: P969325

Luminaire Tested: **NAV-SB5D-740-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969325
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-SB5D-740-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58412.7 lumens
Efficiency: N/A
Efficacy: 160.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 364.9
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

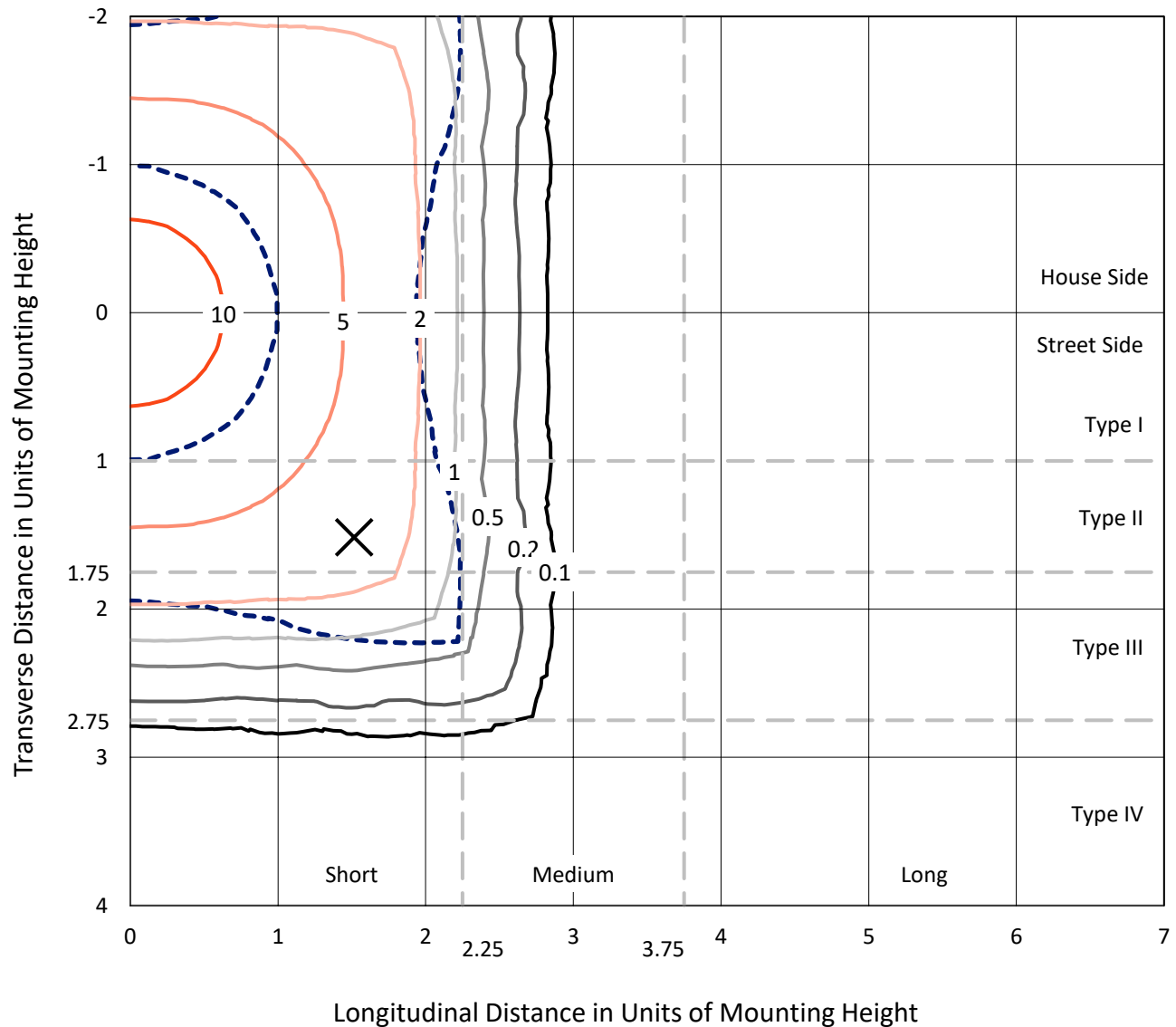


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Iso-Footcandle Lines of Horizontal Illumination

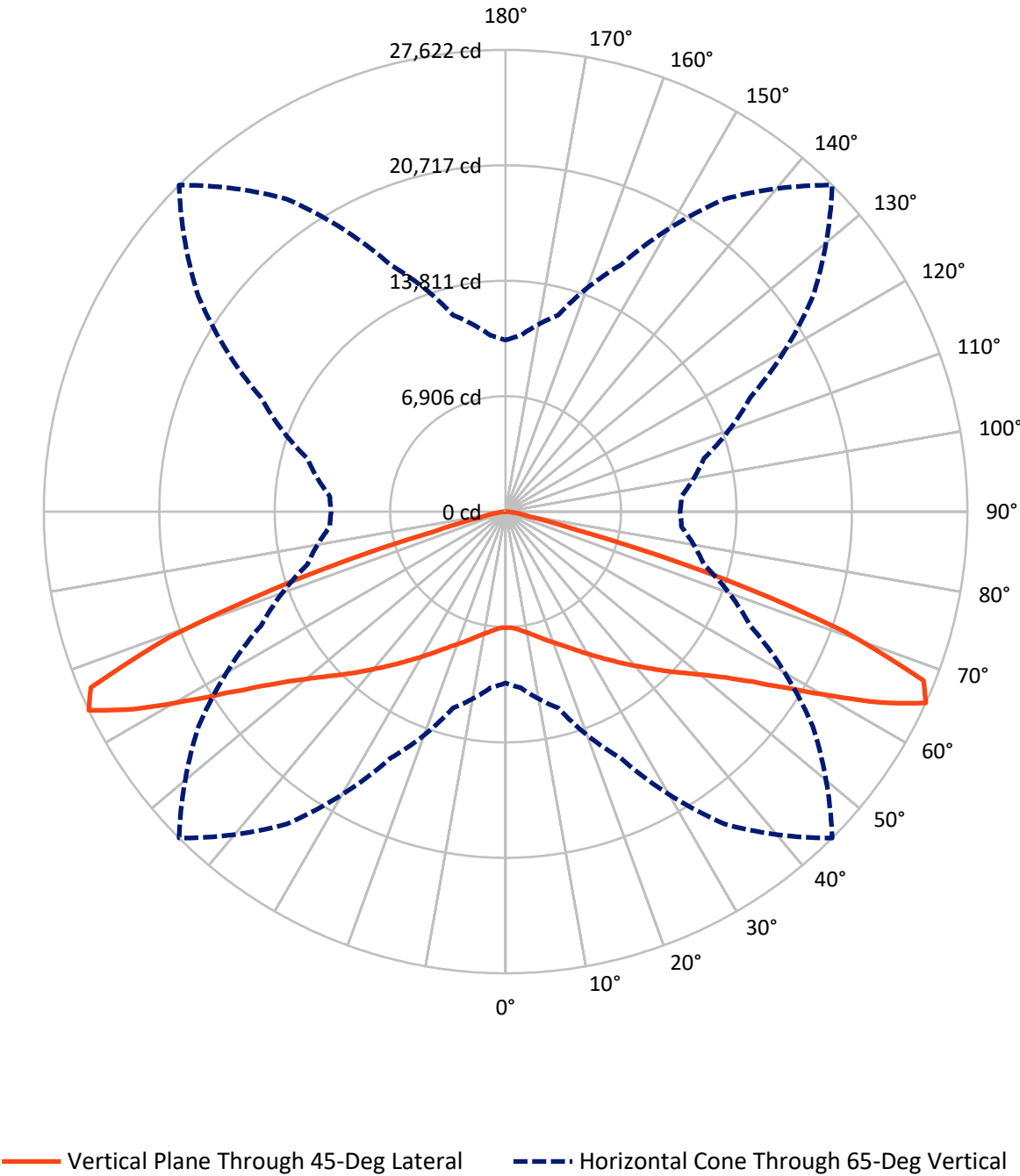
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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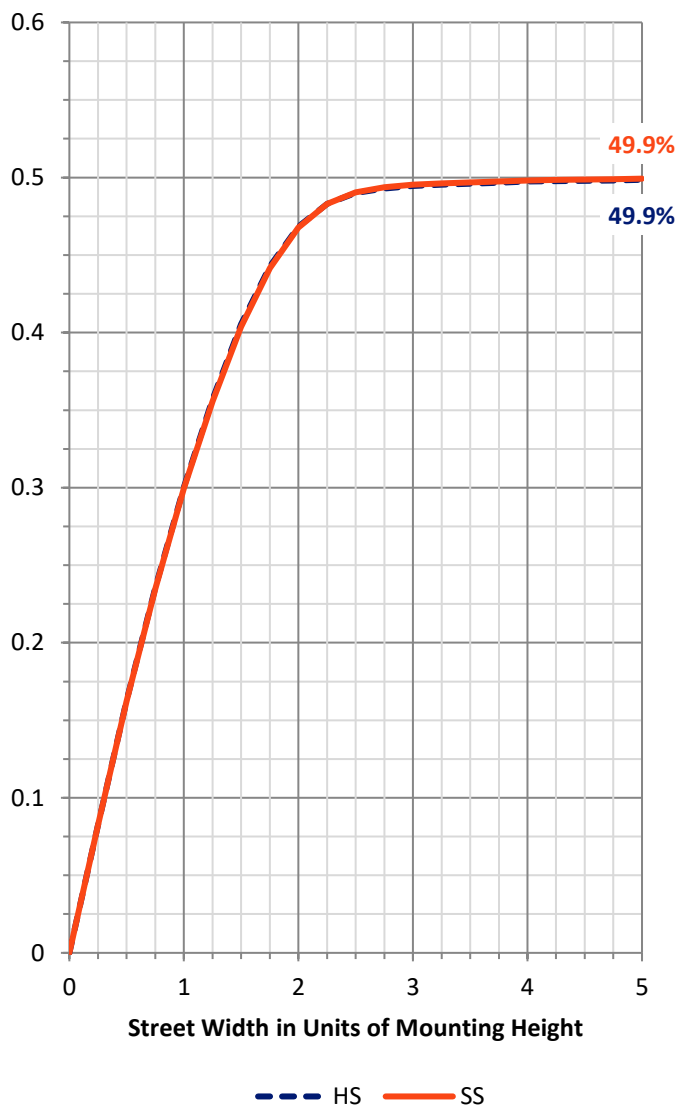
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29206.3	0.0	29206.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29206.3	0.0	29206.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	58412.7	0.0	58412.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	686.1	1.2
10°-20°	2238.7	3.8
20°-30°	4226.9	7.2
30°-40°	6921.4	11.8
40°-50°	10731.7	18.4
50°-60°	15852.9	27.1
60°-70°	15090.5	25.8
70°-80°	2435.1	4.2
80°-90°	229.5	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°	58412.7	100.0
0°-180°	58412.7	100.0

Coefficient of Utilization



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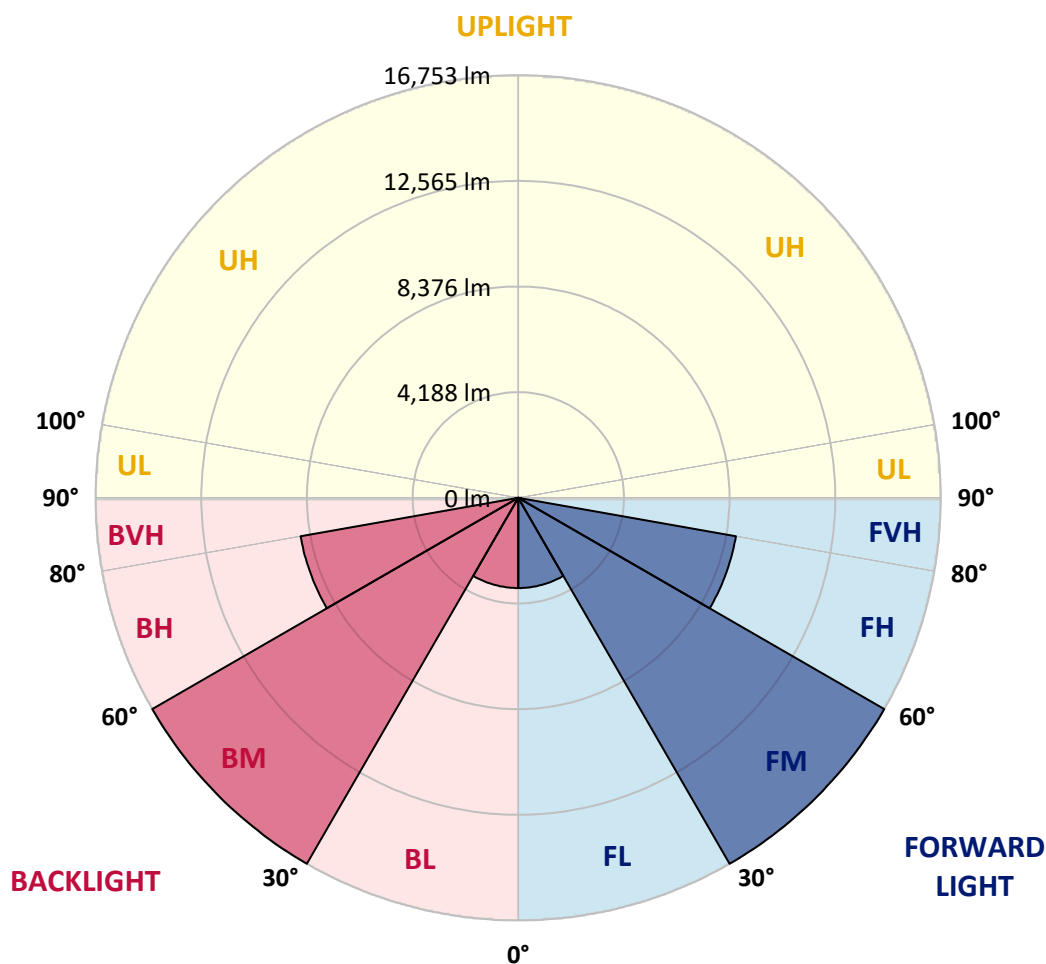
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3575.8	6.1			
FM	(30°-60°)	16753.0	28.7			
FH	(60°-80°)	8762.8	15.0			G4/12000
FVH	(80°-90°)	114.8	0.2			G2/225
BL	(0°-30°)	3575.8	6.1	B4/5000		
BM	(30°-60°)	16753.0	28.7	B5		
BH	(60°-80°)	8762.8	15.0	B5		G4/12000
BVH	(80°-90°)	114.8	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6951.7	6951.7	6951.7	6951.7	6951.7	6951.7	6951.7	6951.7	6951.7	6951.7	6951.7
2.5°	6998.6	6975.1	6992.8	6978.1	6966.3	6954.6	6960.5	6981.0	6989.8	6992.8	6992.8
5°	7092.4	7071.9	7080.6	7080.6	7060.1	7054.3	7057.2	7071.9	7089.4	7089.4	7089.4
7.5°	7244.8	7224.3	7244.8	7233.0	7215.5	7209.6	7206.7	7218.4	7244.8	7244.8	7236.0
10°	7429.4	7405.9	7417.7	7411.8	7391.3	7382.6	7379.6	7397.1	7420.6	7417.7	7411.8
12.5°	7631.6	7605.3	7620.0	7602.3	7596.5	7587.7	7587.7	7584.7	7599.4	7587.7	7593.5
15°	7857.3	7839.7	7845.6	7833.9	7842.7	7836.7	7813.4	7801.6	7807.4	7789.9	7792.8
17.5°	8123.9	8082.9	8103.4	8097.6	8097.6	8109.3	8071.3	8056.6	8068.3	8050.8	8065.4
20°	8431.8	8390.6	8399.5	8387.8	8373.1	8384.8	8338.0	8349.6	8358.5	8346.7	8373.1
22.5°	8768.8	8716.0	8713.1	8719.0	8686.7	8689.6	8657.4	8686.7	8704.3	8672.0	8704.3
25°	9114.6	9058.8	9097.0	9082.3	9041.3	9050.1	9026.7	9056.0	9070.6	9029.6	9076.5
27.5°	9480.9	9442.8	9478.0	9486.8	9437.0	9472.1	9437.0	9463.3	9478.0	9416.5	9463.3
30°	9908.8	9870.8	9902.9	9926.4	9867.8	9923.4	9894.1	9911.8	9914.6	9841.4	9885.4
32.5°	10374.7	10316.2	10398.2	10410.0	10345.5	10412.9	10374.7	10398.2	10412.9	10313.2	10380.7
35°	10943.3	10870.1	10963.9	10949.3	10893.5	10949.3	10914.0	10949.3	10984.4	10864.2	10937.5
37.5°	11555.8	11479.7	11579.3	11553.0	11500.2	11538.3	11517.8	11541.2	11597.0	11467.9	11547.0
40°	12230.0	12136.2	12271.0	12224.0	12174.2	12168.4	12180.1	12194.7	12268.0	12124.4	12171.4
42.5°	12950.9	12851.2	13053.5	12980.2	12909.9	12863.0	12901.1	12930.4	13000.7	12839.6	12924.5
45°	13774.5	13660.2	13923.9	13836.0	13724.6	13627.9	13689.5	13733.4	13836.0	13642.5	13742.2
47.5°	14682.9	14554.0	14835.3	14809.0	14627.3	14416.3	14556.9	14682.9	14759.2	14524.7	14603.8
50°	15571.0	15471.4	15840.6	15872.8	15650.1	15354.1	15550.5	15740.9	15761.4	15453.7	15491.8
52.5°	16403.3	16303.6	16840.0	17042.2	16842.9	16491.2	16699.3	16892.7	16737.4	16338.8	16350.6
55°	17068.6	16986.5	17669.4	18191.1	18258.4	17968.4	18091.5	18085.5	17575.6	16963.0	16983.6
57.5°	17229.7	17218.1	18079.7	19184.6	19888.0	19923.1	19679.9	19058.5	17959.5	17135.9	17083.3
60°	16497.1	16570.4	17754.3	19703.3	21579.0	22358.5	21306.5	19533.3	17522.9	16379.9	16245.0
62.5°	14304.9	14498.3	15925.6	19070.2	22944.7	25160.4	22610.6	18812.3	15729.2	14237.5	14149.6
65°	10251.7	10588.8	12165.4	16274.3	22821.6	27622.1	22423.0	16142.5	12282.7	10562.3	10436.3
67.5°	4651.0	4994.0	6333.3	11142.7	19838.2	26953.9	19791.2	11259.8	6649.8	5011.5	4938.2
70°	1685.2	1743.8	2174.6	4460.6	12678.3	21476.4	13220.6	4492.8	2312.3	1858.1	1834.6
72.5°	1019.9	1028.7	1119.5	1597.3	4404.9	13038.8	4592.4	1650.0	1143.0	1014.0	1031.7
75°	647.7	641.9	797.1	975.9	1562.1	4399.0	1638.3	975.9	794.3	723.9	729.8
77.5°	466.0	480.6	571.5	729.8	984.7	1491.8	967.2	697.5	571.5	468.9	477.8
80°	348.8	357.5	416.2	568.6	691.7	929.1	615.4	515.8	430.8	293.0	301.9
82.5°	252.0	252.0	272.5	413.3	422.0	501.1	334.2	363.4	284.2	208.1	208.1
85°	149.4	146.6	169.9	246.2	219.8	184.6	152.4	222.7	178.8	128.9	126.0
87.5°	52.8	55.7	52.8	70.3	58.6	49.8	46.8	61.5	49.8	44.0	41.0
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)