

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: P969324

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969324
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-SB5D-740-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58377.8 lumens
Efficiency: N/A
Efficacy: 160.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

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

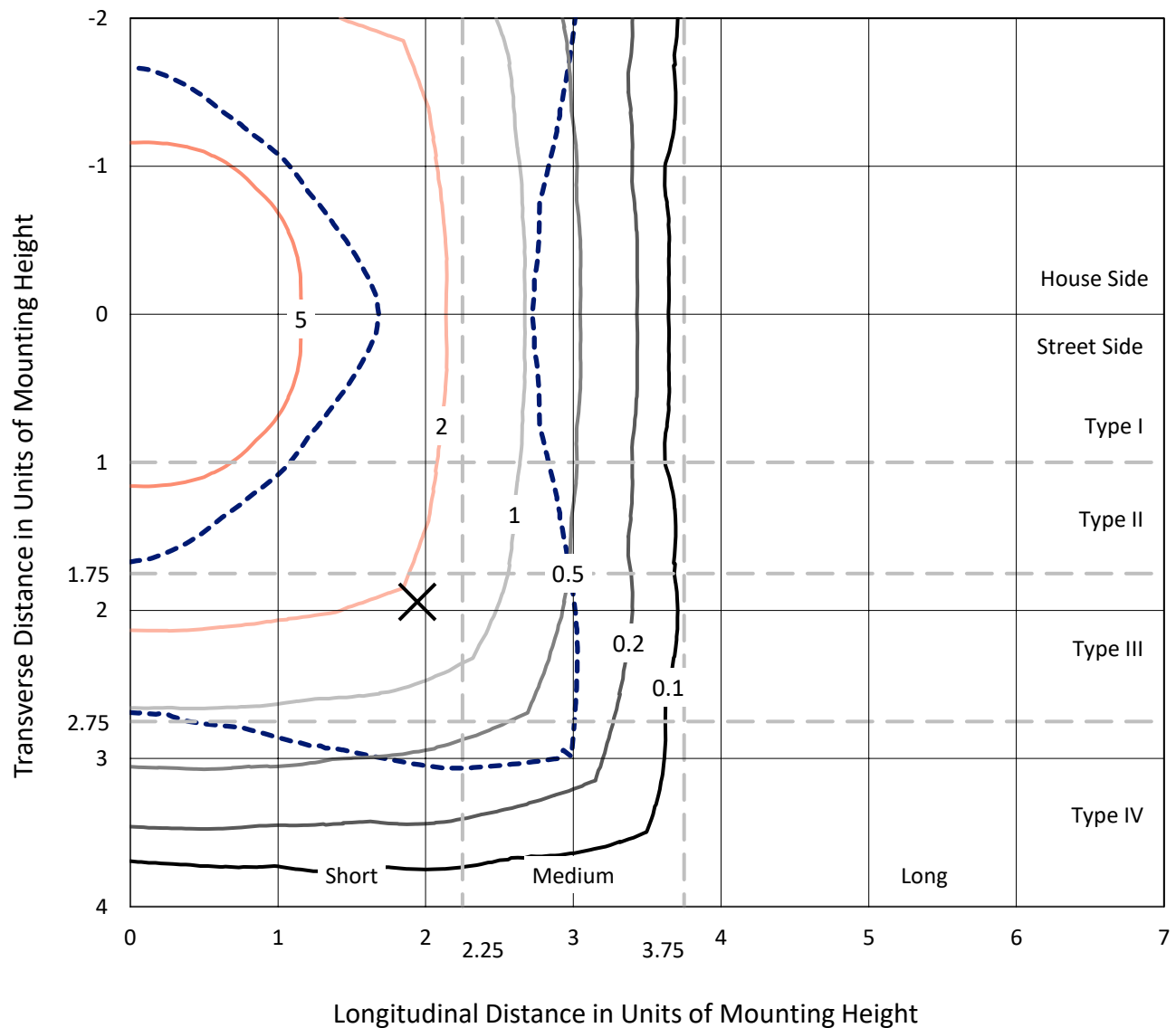


REPORT NUMBER: P969324

CATALOG NUMBER: NAV-SB5D-740-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

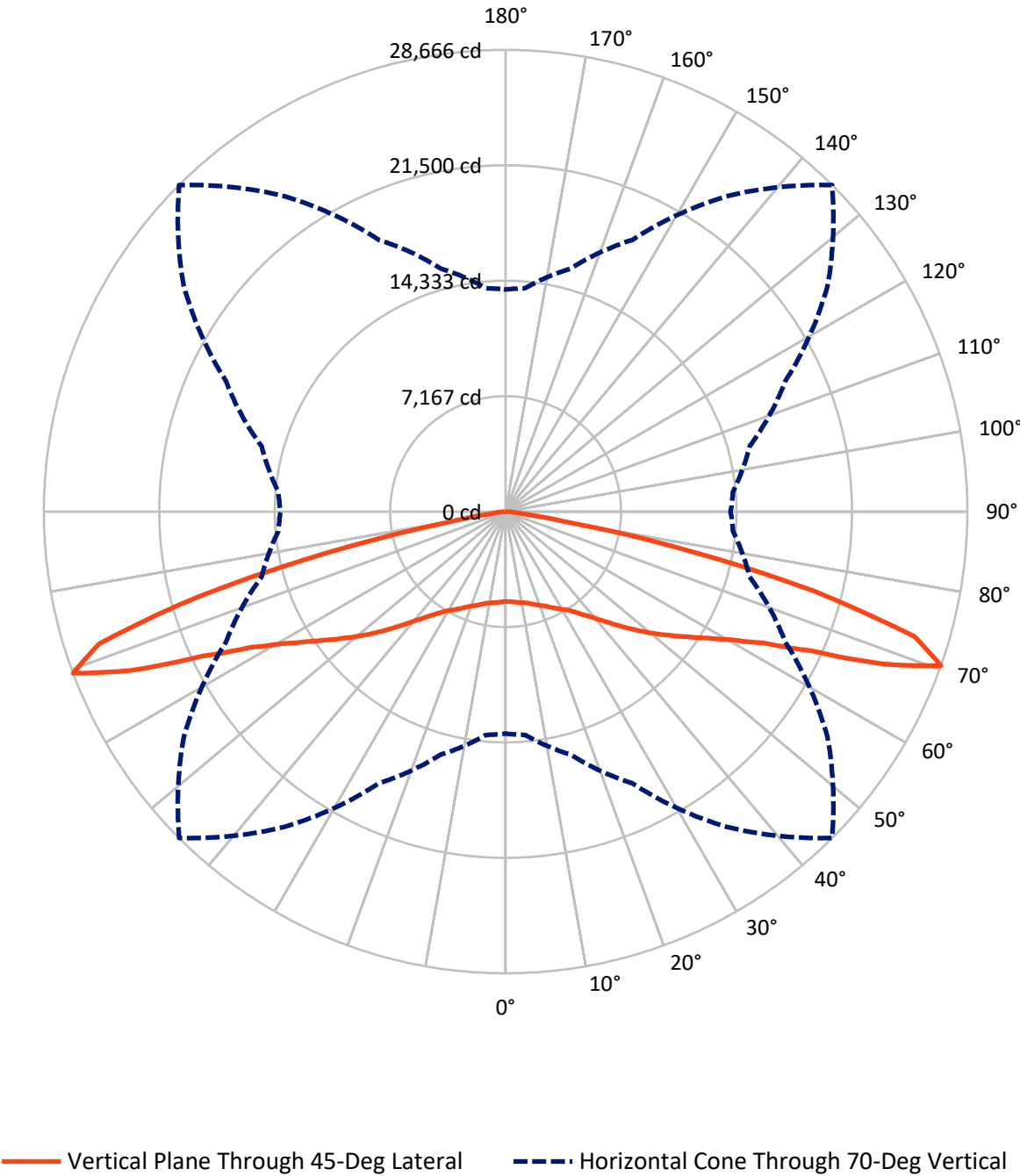
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
Type V - Short - N/A

REPORT NUMBER: P969324
CATALOG NUMBER: NAV-SB5D-740-U-5MQ

Luminous Intensity Polar Plot



REPORT NUMBER: P969324

CATALOG NUMBER: NAV-SB5D-740-U-5MQ

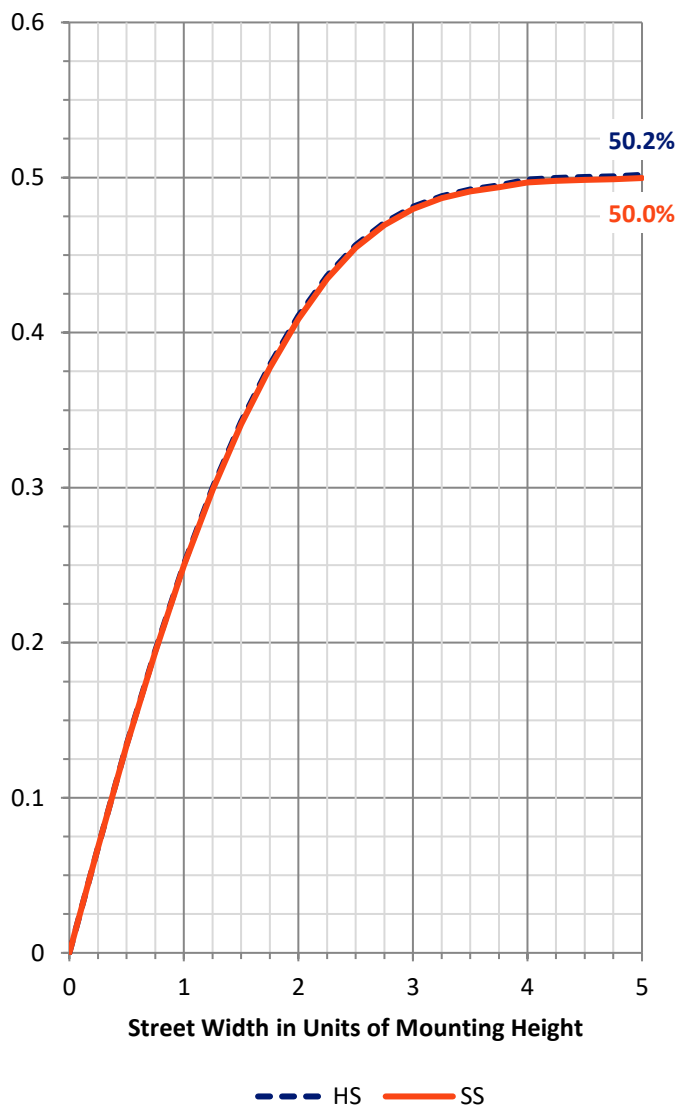
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29188.9	0.0	29188.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29188.9	0.0	29188.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	58377.8	0.0	58377.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.3	0.9
10°-20°	1684.6	2.9
20°-30°	3010.6	5.2
30°-40°	4880.1	8.4
40°-50°	7948.9	13.6
50°-60°	12119.3	20.8
60°-70°	18029.7	30.9
70°-80°	9826.8	16.8
80°-90°	334.6	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°	58377.8	100.0
0°-180°	58377.8	100.0

Coefficient of Utilization



REPORT NUMBER: P969324

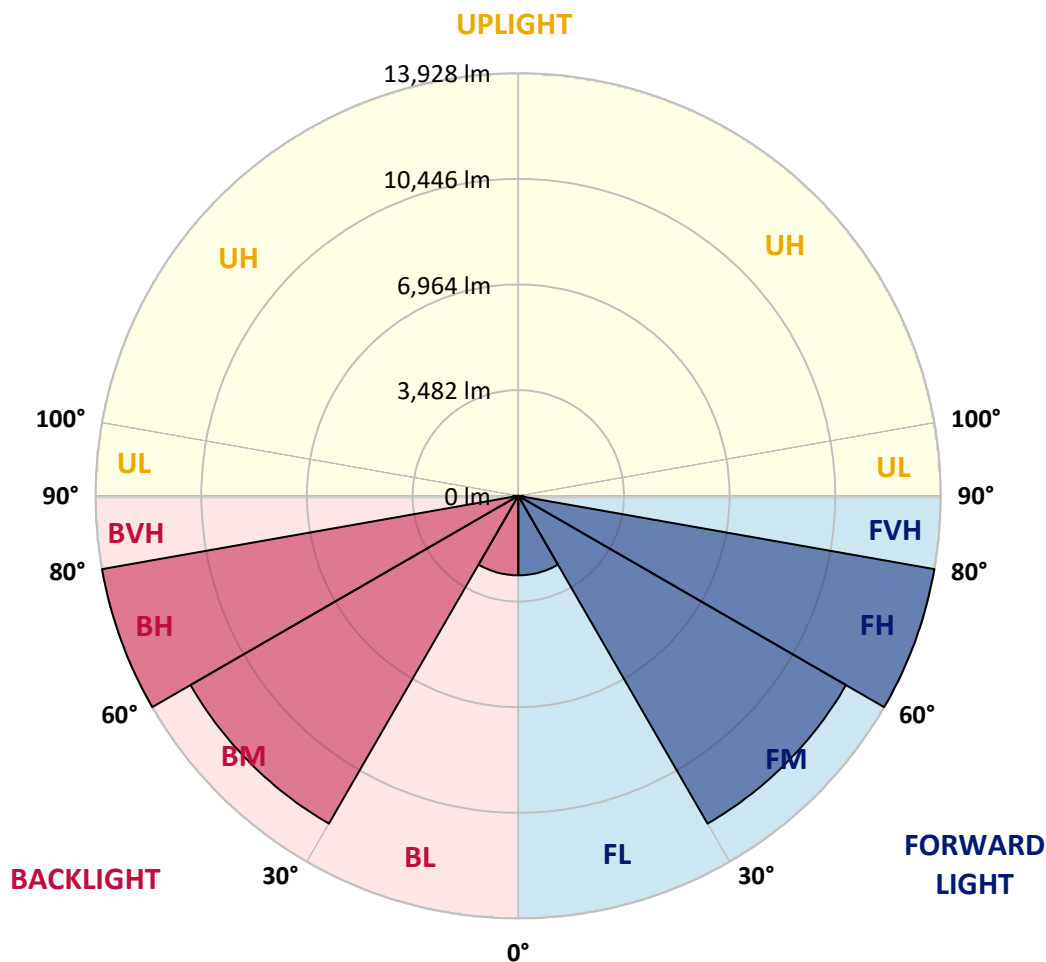
CATALOG NUMBER: NAV-SB5D-740-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2619.2	4.5			
FM	(30°-60°)	12474.2	21.4			
FH	(60°-80°)	13928.2	23.9			G5
FVH	(80°-90°)	167.3	0.3			G2/225
BL	(0°-30°)	2619.2	4.5	B4/5000		
BM	(30°-60°)	12474.2	21.4	B5		
BH	(60°-80°)	13928.2	23.9	B5		G5
BVH	(80°-90°)	167.3	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short



REPORT NUMBER: P969324

CATALOG NUMBER: NAV-SB5D-740-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5592.0	5592.0	5592.0	5592.0	5592.0	5592.0	5592.0	5592.0	5592.0	5592.0	5592.0
2.5°	5618.3	5624.3	5612.5	5606.6	5600.8	5592.0	5595.0	5609.6	5621.3	5618.3	5621.3
5°	5665.3	5671.1	5662.3	5659.4	5647.6	5644.8	5644.8	5659.4	5668.1	5662.3	5665.3
7.5°	5718.1	5726.8	5712.1	5709.2	5703.4	5697.5	5694.6	5709.2	5718.1	5718.1	5718.1
10°	5767.9	5776.6	5764.9	5756.1	5750.2	5750.2	5744.4	5756.1	5770.7	5767.9	5767.9
12.5°	5820.6	5826.5	5814.7	5808.9	5808.9	5817.7	5808.9	5814.7	5826.5	5820.6	5817.7
15°	5885.0	5888.0	5885.0	5893.9	5908.5	5937.8	5911.5	5905.6	5911.5	5896.8	5896.8
17.5°	5973.0	5978.8	5990.6	6011.1	6031.6	6084.4	6037.5	6022.8	6022.8	5993.5	5993.5
20°	6081.4	6090.2	6107.8	6143.0	6169.4	6219.2	6172.3	6151.7	6143.0	6104.9	6104.9
22.5°	6195.7	6210.4	6236.8	6283.7	6330.6	6377.4	6330.6	6295.3	6269.0	6219.2	6216.2
25°	6327.6	6345.3	6386.3	6462.4	6526.9	6594.3	6538.7	6468.3	6415.6	6345.3	6342.3
27.5°	6515.2	6535.7	6585.5	6679.3	6761.4	6820.0	6767.3	6676.4	6603.2	6518.2	6515.2
30°	6778.9	6799.4	6858.1	6957.8	7013.5	7051.6	7016.3	6946.0	6858.1	6761.4	6761.4
32.5°	7118.9	7145.3	7209.8	7303.6	7315.3	7321.2	7309.5	7274.3	7209.8	7092.6	7095.5
35°	7549.7	7579.1	7652.3	7728.6	7716.8	7728.6	7711.0	7699.3	7652.3	7517.6	7517.6
37.5°	8077.3	8112.5	8188.7	8247.4	8218.0	8203.4	8206.3	8209.2	8182.9	8033.3	8033.3
40°	8689.8	8736.8	8792.4	8853.9	8804.1	8760.2	8789.5	8812.9	8789.5	8637.1	8637.1
42.5°	9320.0	9387.4	9446.0	9533.9	9492.9	9437.2	9478.3	9504.6	9454.8	9290.7	9302.4
45°	10020.5	10085.0	10161.1	10293.0	10263.7	10205.1	10263.7	10269.6	10184.6	9991.2	10011.7
47.5°	10744.4	10811.8	10926.1	11101.9	11090.2	11025.7	11101.9	11060.9	10952.4	10720.9	10706.2
50°	11430.2	11524.0	11699.8	11946.0	11969.4	11890.3	11992.9	11913.8	11732.0	11441.9	11436.0
52.5°	12074.9	12174.6	12453.0	12787.2	12872.2	12769.6	12907.3	12769.6	12497.0	12124.8	12089.6
55°	12751.9	12863.3	13194.5	13631.2	13801.2	13725.0	13854.0	13645.8	13259.0	12807.7	12746.1
57.5°	13549.2	13616.6	14012.3	14531.0	14818.2	14835.7	14894.4	14542.7	14073.8	13560.9	13490.5
60°	14413.8	14507.5	14938.4	15559.7	16014.0	16160.6	16099.0	15577.2	15032.1	14443.1	14349.3
62.5°	15521.6	15624.2	16140.0	16884.4	17602.4	17965.9	17725.5	16969.4	16295.3	15589.0	15465.9
65°	16438.9	16553.2	17485.3	18812.8	20120.0	20849.8	20246.1	18854.0	17640.6	16644.1	16479.9
67.5°	15773.6	15914.4	17376.8	19815.2	23065.5	25243.1	23176.9	20114.2	17737.3	16386.2	16183.9
70°	13786.6	13918.5	15624.2	18604.8	23894.9	28666.3	24393.2	19152.8	15679.8	14167.6	13965.3
72.5°	9152.9	9577.9	11304.1	14879.7	21336.3	26526.8	21547.3	14577.9	10486.5	9132.4	8836.4
75°	3036.4	3376.2	4554.5	7713.9	14290.7	19838.7	13604.8	6825.9	3607.8	2596.7	2456.0
77.5°	765.0	882.2	1216.3	2206.9	5700.4	11295.4	5131.9	1802.5	981.8	685.8	612.5
80°	372.2	410.3	586.2	735.6	1427.3	3590.3	1339.4	691.7	463.1	357.5	328.2
82.5°	205.2	208.1	331.2	416.2	530.4	929.1	551.0	404.5	266.7	216.9	216.9
85°	126.1	123.1	175.9	222.7	222.7	331.2	263.7	222.7	152.4	134.8	140.6
87.5°	49.8	49.8	64.5	70.3	61.5	85.0	67.4	73.3	58.6	55.7	58.6
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)