

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: P971526

Luminaire Tested: **NAV-SB6D-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971526
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-SB6D-827-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57634.7 lumens
Efficiency: N/A
Efficacy: 131.0 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): 440.1
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

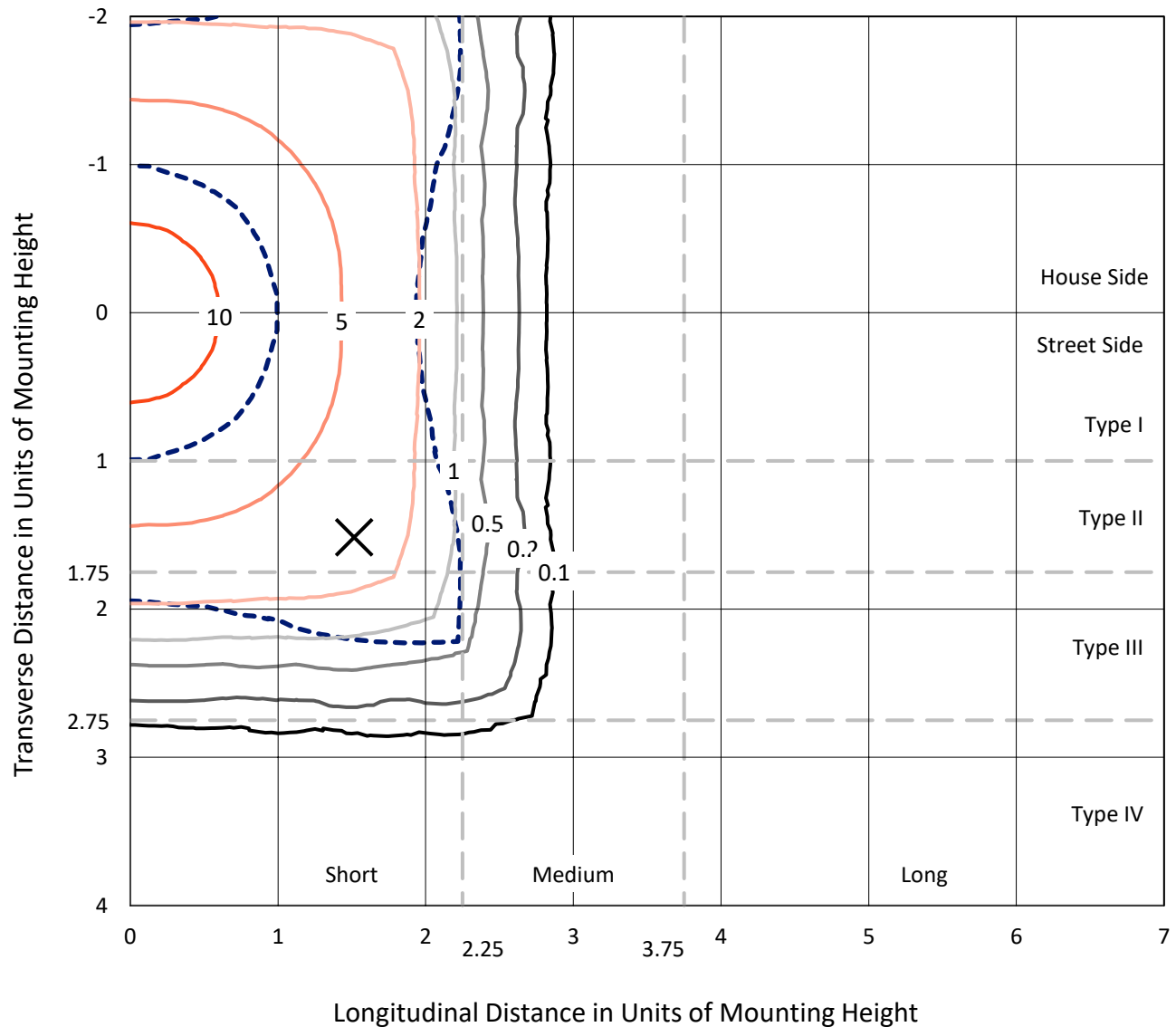


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Iso-Footcandle Lines of Horizontal Illumination

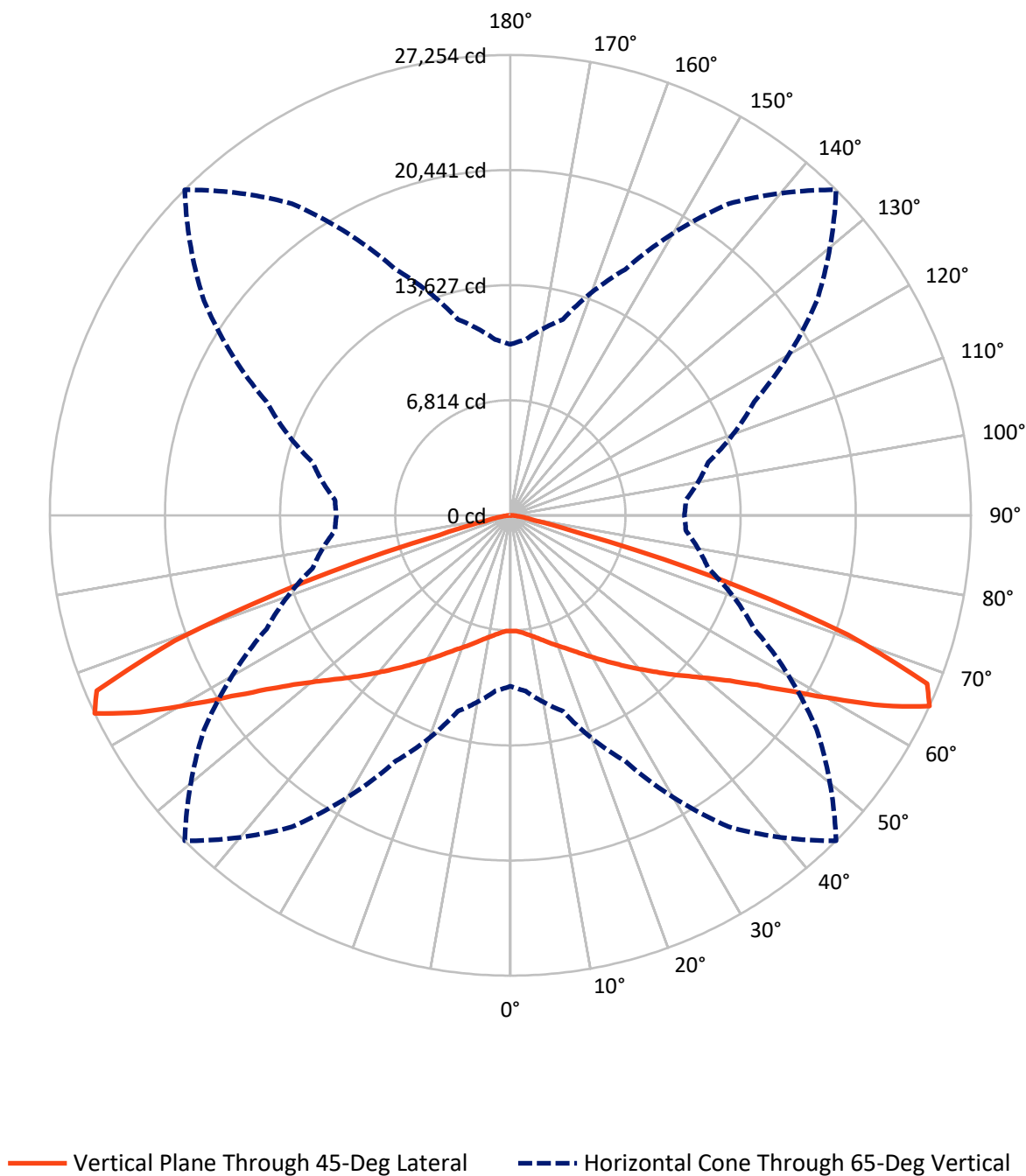
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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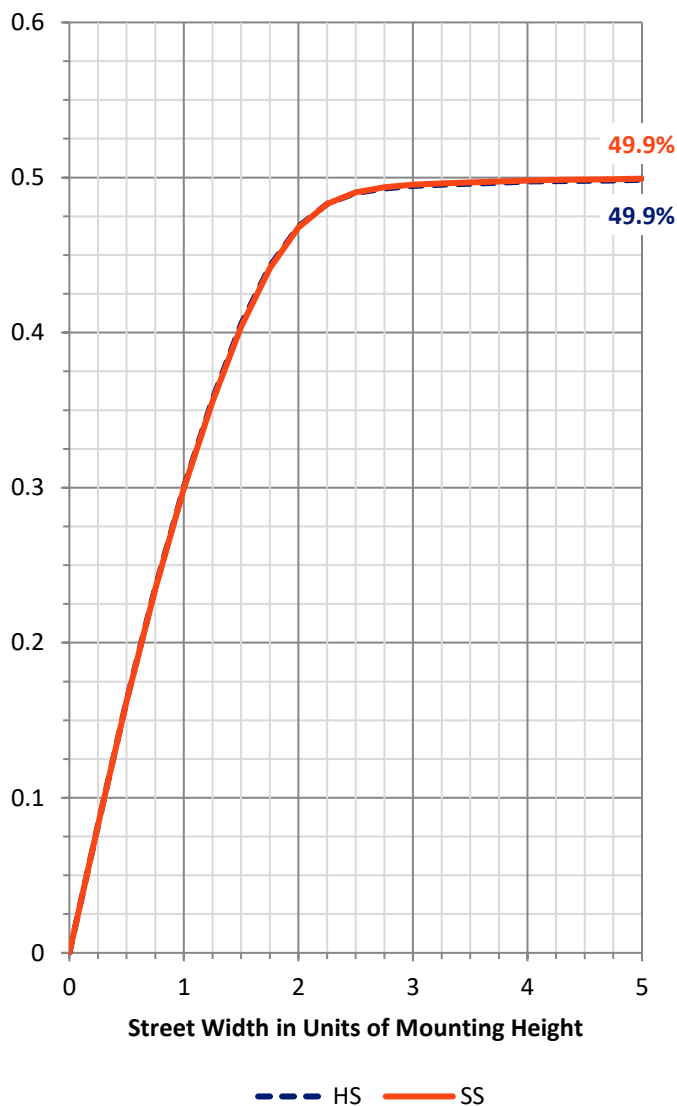
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28817.4	0.0	28817.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28817.4	0.0	28817.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	57634.7	0.0	57634.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	676.9	1.2
10°-20°	2208.9	3.8
20°-30°	4170.6	7.2
30°-40°	6829.2	11.8
40°-50°	10588.7	18.4
50°-60°	15641.8	27.1
60°-70°	14889.5	25.8
70°-80°	2402.6	4.2
80°-90°	226.5	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°	57634.7	100.0
0°-180°	57634.7	100.0

Coefficient of Utilization



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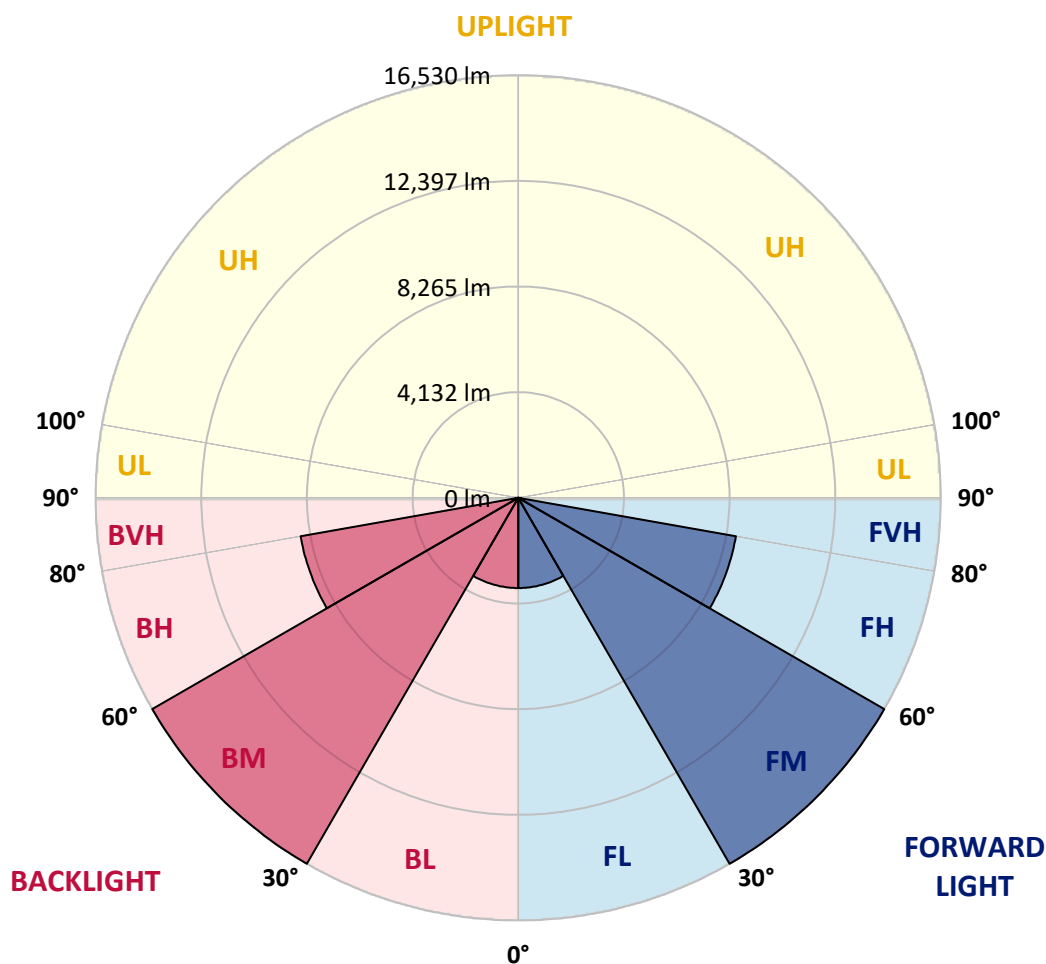
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3528.2	6.1			
FM	(30°-60°)	16529.9	28.7			
FH	(60°-80°)	8646.1	15.0			G4/12000
FVH	(80°-90°)	113.2	0.2			G2/225
BL	(0°-30°)	3528.2	6.1	B4/5000		
BM	(30°-60°)	16529.9	28.7	B5		
BH	(60°-80°)	8646.1	15.0	B5		G4/12000
BVH	(80°-90°)	113.2	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°	6859.1	6859.1	6859.1	6859.1	6859.1	6859.1	6859.1	6859.1	6859.1	6859.1	6859.1
2.5°	6905.4	6882.3	6899.6	6885.1	6873.5	6862.0	6867.8	6888.0	6896.7	6899.6	6899.6
5°	6997.9	6977.7	6986.3	6986.3	6966.1	6960.4	6963.2	6977.7	6995.0	6995.0	6995.0
7.5°	7148.2	7128.1	7148.2	7136.7	7119.3	7113.6	7110.7	7122.2	7148.2	7148.2	7139.6
10°	7330.5	7307.3	7318.9	7313.1	7292.9	7284.2	7281.3	7298.6	7321.8	7318.9	7313.1
12.5°	7530.0	7503.9	7518.4	7501.1	7495.3	7486.6	7486.6	7483.7	7498.2	7486.6	7492.3
15°	7752.7	7735.3	7741.1	7729.5	7738.1	7732.4	7709.2	7697.7	7703.5	7686.2	7689.0
17.5°	8015.8	7975.3	7995.5	7989.8	7989.8	8001.4	7963.7	7949.3	7960.9	7943.5	7958.0
20°	8319.4	8278.9	8287.6	8276.1	8261.6	8273.2	8226.9	8238.4	8247.2	8235.6	8261.6
22.5°	8651.9	8600.0	8597.0	8602.8	8570.9	8573.9	8542.0	8570.9	8588.4	8556.5	8588.4
25°	8993.1	8938.2	8975.8	8961.4	8920.9	8929.6	8906.4	8935.3	8949.8	8909.3	8955.6
27.5°	9354.7	9317.0	9351.8	9360.4	9311.3	9345.9	9311.3	9337.3	9351.8	9291.0	9337.3
30°	9776.9	9739.2	9771.0	9794.2	9736.4	9791.3	9762.4	9779.7	9782.6	9710.3	9753.7
32.5°	10236.6	10178.8	10259.7	10271.3	10207.7	10274.2	10236.6	10259.7	10274.2	10175.9	10242.4
35°	10797.6	10725.3	10817.8	10803.4	10748.5	10803.4	10768.6	10803.4	10838.0	10719.6	10791.8
37.5°	11402.0	11326.8	11425.1	11399.0	11347.1	11384.6	11364.4	11387.5	11442.5	11315.2	11393.3
40°	12067.0	11974.6	12107.5	12061.3	12012.1	12006.3	12017.9	12032.4	12104.6	11963.0	12009.2
42.5°	12778.4	12680.1	12879.6	12807.4	12738.0	12691.7	12729.3	12758.2	12827.6	12668.5	12752.4
45°	13591.0	13478.2	13738.5	13651.7	13541.8	13446.4	13507.1	13550.5	13651.7	13460.8	13559.2
47.5°	14487.5	14360.1	14637.8	14611.8	14432.5	14224.2	14363.0	14487.5	14562.6	14331.2	14409.3
50°	15363.6	15265.3	15629.6	15661.5	15441.6	15149.6	15343.3	15531.3	15551.5	15247.9	15285.5
52.5°	16184.9	16086.6	16615.7	16815.2	16618.6	16271.6	16476.9	16667.7	16514.5	16121.2	16132.8
55°	16841.3	16760.3	17434.0	17948.8	18015.3	17729.0	17850.5	17844.6	17341.6	16737.1	16757.4
57.5°	17000.3	16988.8	17838.9	18929.1	19623.1	19657.8	19417.8	18804.8	17720.3	16907.8	16855.7
60°	16277.4	16349.7	17517.9	19440.9	21291.6	22060.8	21022.6	19273.2	17289.5	16161.7	16028.6
62.5°	14114.4	14305.2	15713.5	18816.2	22639.1	24825.2	22309.4	18561.8	15519.7	14047.8	13961.1
65°	10115.1	10447.7	12003.5	16057.6	22517.6	27254.2	22124.4	15927.5	12119.1	10421.7	10297.4
67.5°	4589.1	4927.5	6248.9	10994.3	19573.9	26595.0	19527.7	11109.9	6561.2	4944.8	4872.5
70°	1662.8	1720.6	2145.6	4401.1	12509.5	21190.3	13044.5	4433.0	2281.5	1833.3	1810.3
72.5°	1006.3	1015.0	1104.6	1575.9	4346.2	12865.2	4531.3	1628.0	1127.8	1000.5	1017.9
75°	639.1	633.2	786.6	962.9	1541.3	4340.5	1616.4	962.9	783.6	714.2	720.1
77.5°	459.8	474.3	563.9	720.1	971.6	1471.9	954.3	688.2	563.9	462.7	471.4
80°	344.1	352.8	410.6	561.0	682.4	916.7	607.2	508.9	425.1	289.2	297.9
82.5°	248.7	248.7	269.0	407.7	416.4	494.5	329.6	358.5	280.5	205.3	205.3
85°	147.5	144.6	167.7	242.9	216.9	182.1	150.4	219.8	176.4	127.2	124.3
87.5°	52.1	54.9	52.1	69.4	57.8	49.2	46.2	60.7	49.2	43.4	40.5
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)