

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: P965202

Luminaire Tested: **NAV-SB3D-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965202
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-SB3D-827-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 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: 28516.5 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

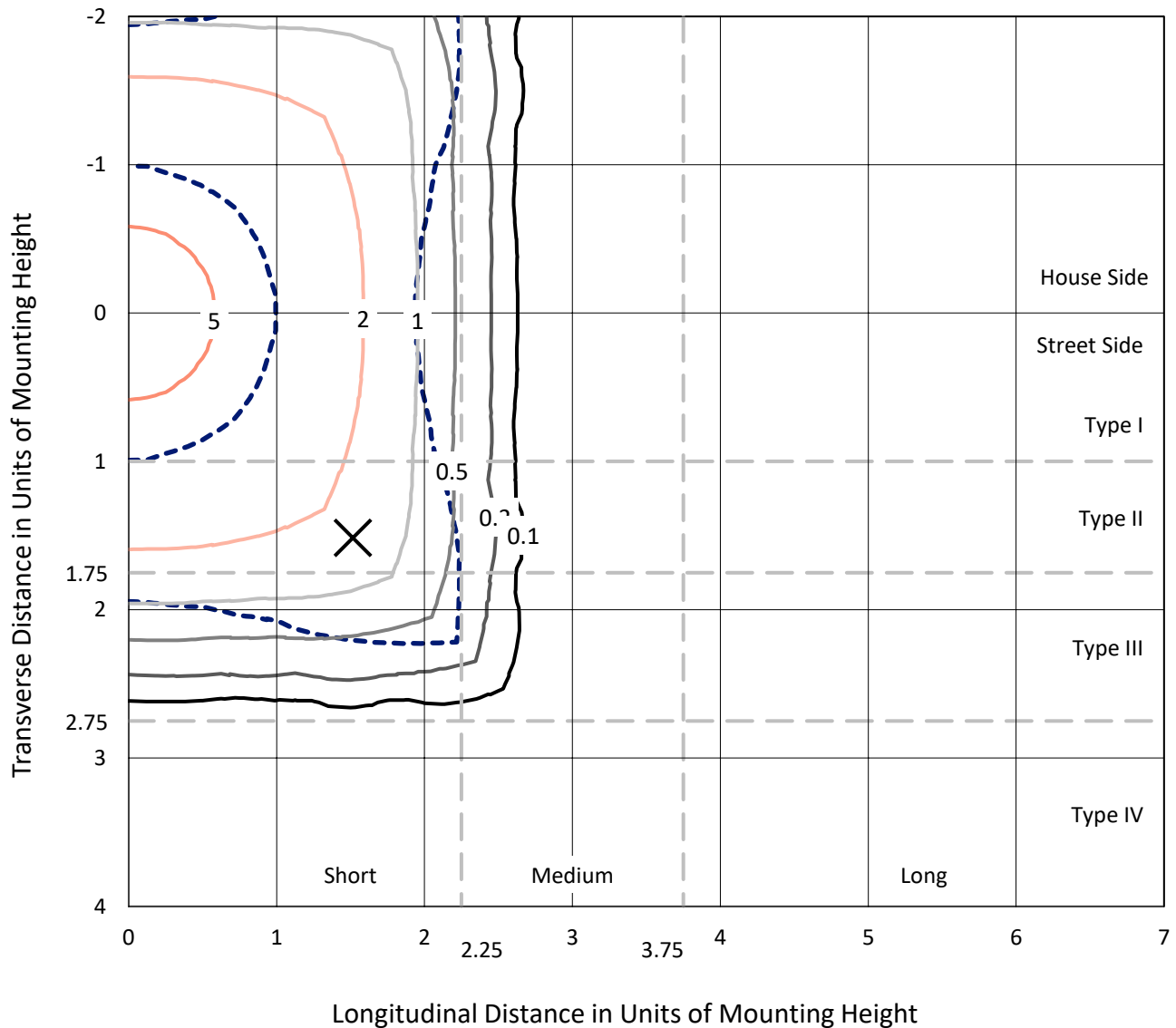
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

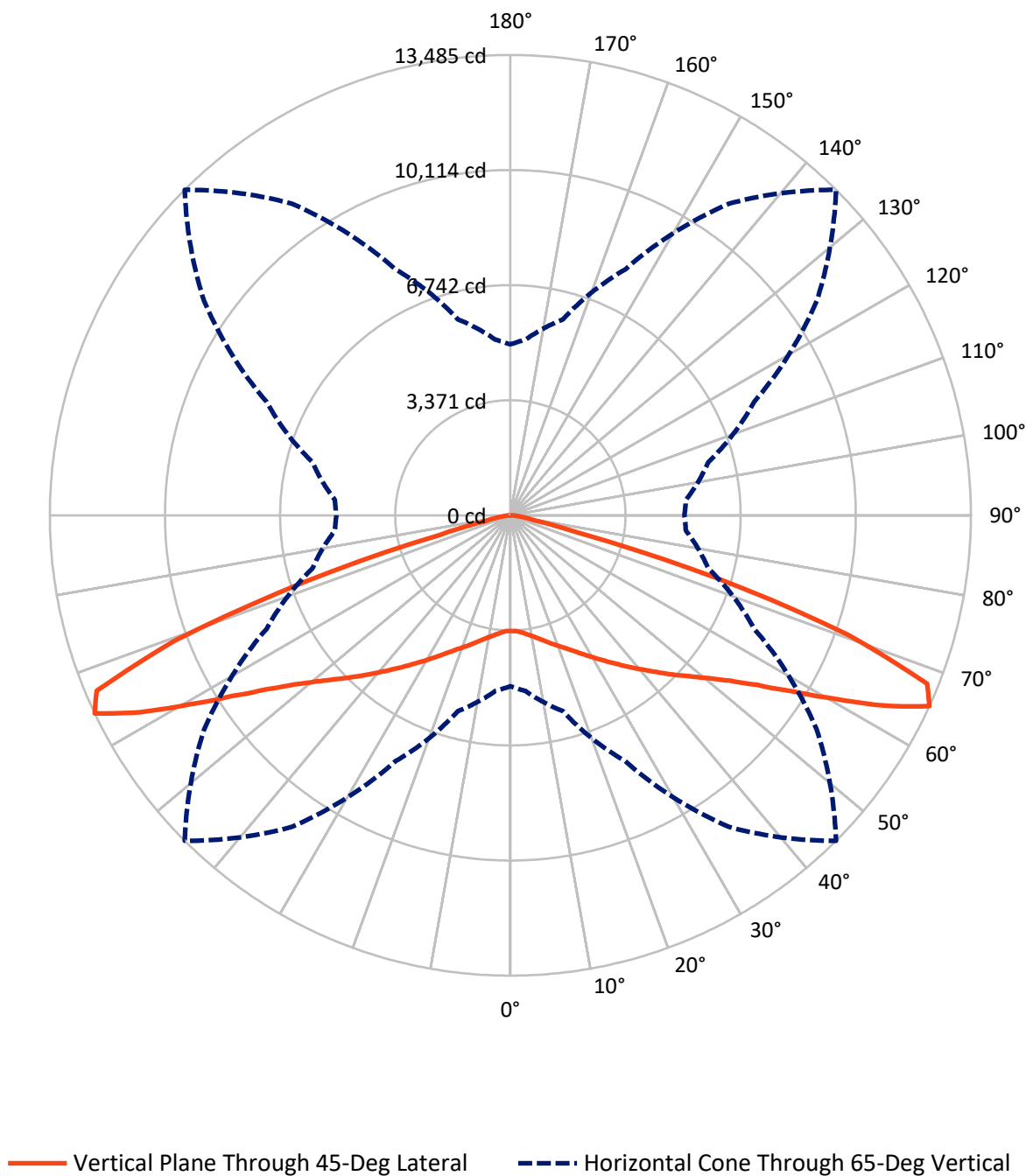
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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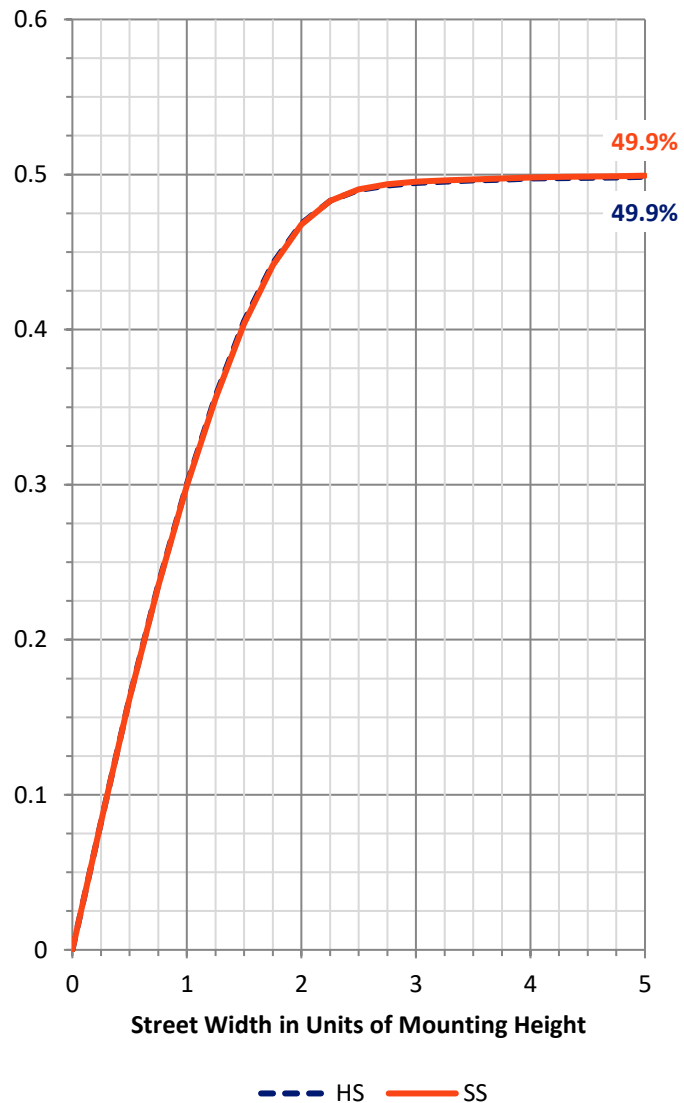
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14258.2	0.0	14258.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14258.2	0.0	14258.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	28516.5	0.0	28516.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.9	1.2
10°-20°	1092.9	3.8
20°-30°	2063.5	7.2
30°-40°	3379.0	11.8
40°-50°	5239.1	18.4
50°-60°	7739.2	27.1
60°-70°	7367.0	25.8
70°-80°	1188.8	4.2
80°-90°	112.0	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°	28516.5	100.0
0°-180°	28516.5	100.0

Coefficient of Utilization



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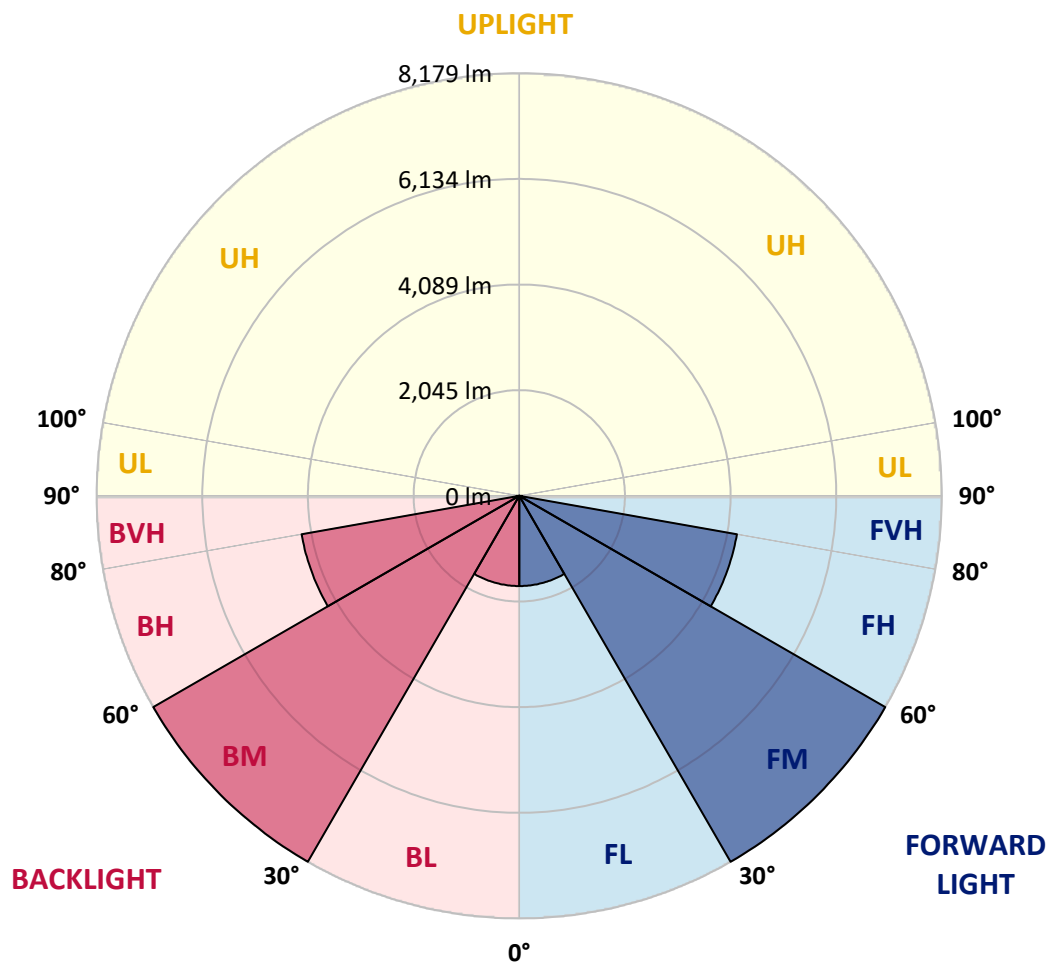
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1745.7	6.1			
FM	(30°-60°)	8178.6	28.7			
FH	(60°-80°)	4277.9	15.0			G2/5000
FVH	(80°-90°)	56.0	0.2			G1/100
BL	(0°-30°)	1745.7	6.1	B3/2500		
BM	(30°-60°)	8178.6	28.7	B4/8500		
BH	(60°-80°)	4277.9	15.0	B4/5000		G2/5000
BVH	(80°-90°)	56.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3393.8	3393.8	3393.8	3393.8	3393.8	3393.8	3393.8	3393.8	3393.8	3393.8	3393.8
2.5°	3416.6	3405.2	3413.8	3406.6	3401.0	3395.2	3398.1	3408.0	3412.3	3413.8	3413.8
5°	3462.4	3452.4	3456.7	3456.7	3446.7	3443.8	3445.2	3452.4	3461.0	3461.0	3461.0
7.5°	3536.9	3526.8	3536.9	3531.1	3522.5	3519.6	3518.2	3524.0	3536.9	3536.9	3532.6
10°	3627.0	3615.5	3621.2	3618.4	3608.4	3604.1	3602.7	3611.2	3622.7	3621.2	3618.4
12.5°	3725.7	3712.9	3719.9	3711.4	3708.6	3704.2	3704.2	3702.8	3710.0	3704.2	3707.1
15°	3835.9	3827.2	3830.1	3824.4	3828.7	3825.8	3814.4	3808.7	3811.6	3803.0	3804.4
17.5°	3966.0	3946.0	3956.0	3953.2	3953.2	3958.9	3940.3	3933.1	3938.9	3930.3	3937.4
20°	4116.3	4096.2	4100.5	4094.8	4087.7	4093.4	4070.5	4076.2	4080.5	4074.8	4087.7
22.5°	4280.8	4255.1	4253.6	4256.5	4240.7	4242.2	4226.5	4240.7	4249.3	4233.6	4249.3
25°	4449.6	4422.5	4441.0	4433.9	4413.9	4418.2	4406.7	4421.0	4428.2	4408.1	4431.1
27.5°	4628.5	4609.9	4627.1	4631.4	4607.1	4624.2	4607.1	4619.9	4627.1	4597.0	4619.9
30°	4837.4	4818.8	4834.5	4846.0	4817.4	4844.6	4830.2	4838.8	4840.3	4804.5	4825.9
32.5°	5064.8	5036.2	5076.3	5082.1	5050.6	5083.5	5064.8	5076.3	5083.5	5034.8	5067.7
35°	5342.4	5306.6	5352.4	5345.3	5318.1	5345.3	5328.2	5345.3	5362.5	5303.8	5339.5
37.5°	5641.5	5604.3	5652.9	5640.1	5614.3	5632.9	5622.8	5634.3	5661.5	5598.5	5637.2
40°	5970.5	5924.8	5990.6	5967.7	5943.4	5940.5	5946.2	5953.4	5989.2	5919.1	5941.9
42.5°	6322.5	6273.8	6372.6	6336.9	6302.5	6279.6	6298.2	6312.5	6346.8	6268.2	6309.6
45°	6724.5	6668.8	6797.5	6754.5	6700.2	6653.0	6683.1	6704.5	6754.5	6660.1	6708.8
47.5°	7168.1	7105.1	7242.4	7229.6	7140.9	7037.9	7106.5	7168.1	7205.2	7090.8	7129.5
50°	7601.6	7552.9	7733.2	7749.0	7640.2	7495.7	7591.6	7684.6	7694.6	7544.4	7563.0
52.5°	8007.9	7959.3	8221.1	8319.8	8222.6	8050.9	8152.4	8246.8	8171.1	7976.4	7982.2
55°	8332.7	8292.7	8626.0	8880.7	8913.6	8771.9	8832.0	8829.1	8580.3	8281.2	8291.2
57.5°	8411.5	8405.7	8826.4	9365.7	9709.1	9726.2	9607.5	9304.2	8767.6	8365.6	8339.9
60°	8053.7	8089.5	8667.5	9619.0	10534.6	10915.2	10401.6	9536.0	8554.4	7996.5	7930.6
62.5°	6983.5	7077.9	7774.7	9310.0	11201.4	12283.0	11038.3	9184.0	7678.9	6950.6	6907.7
65°	5004.8	5169.3	5939.1	7945.0	11141.3	13484.9	10946.7	7880.6	5996.2	5156.5	5095.0
67.5°	2270.6	2438.0	3091.9	5439.8	9684.8	13158.6	9661.9	5497.0	3246.4	2446.6	2410.8
70°	822.7	851.3	1061.6	2177.6	6189.5	10484.6	6454.1	2193.4	1128.8	907.1	895.6
72.5°	497.9	502.1	546.5	779.7	2150.4	6365.5	2242.0	805.5	558.0	495.1	503.6
75°	316.2	313.3	389.2	476.4	762.6	2147.6	799.8	476.4	387.8	353.4	356.3
77.5°	227.4	234.6	279.0	356.3	480.7	728.3	472.1	340.5	279.0	228.9	233.2
80°	170.3	174.6	203.2	277.6	337.6	453.6	300.4	251.8	210.3	143.1	147.4
82.5°	123.0	123.0	133.0	201.7	206.0	244.7	163.1	177.4	138.8	101.6	101.6
85°	73.0	71.5	83.0	120.2	107.3	90.1	74.4	108.8	87.2	62.9	61.5
87.5°	25.7	27.2	25.7	34.3	28.6	24.3	22.9	30.0	24.3	21.4	20.0
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)