

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: P971433

Luminaire Tested: **NAV-SB6D-740-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971433
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-740-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 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: 70122.3 lumens
Efficiency: N/A
Efficacy: 159.3 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

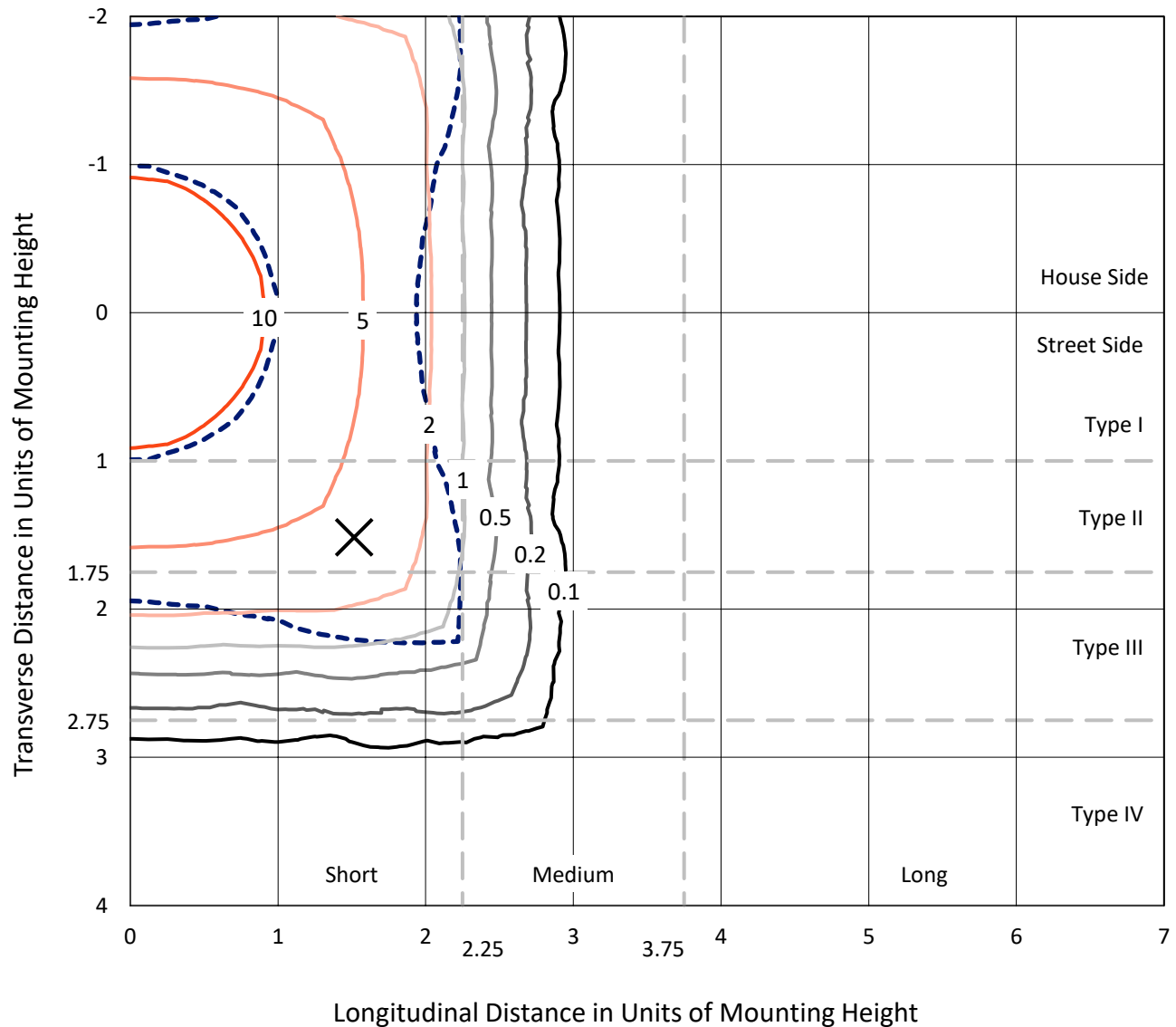


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Iso-Footcandle Lines of Horizontal Illumination

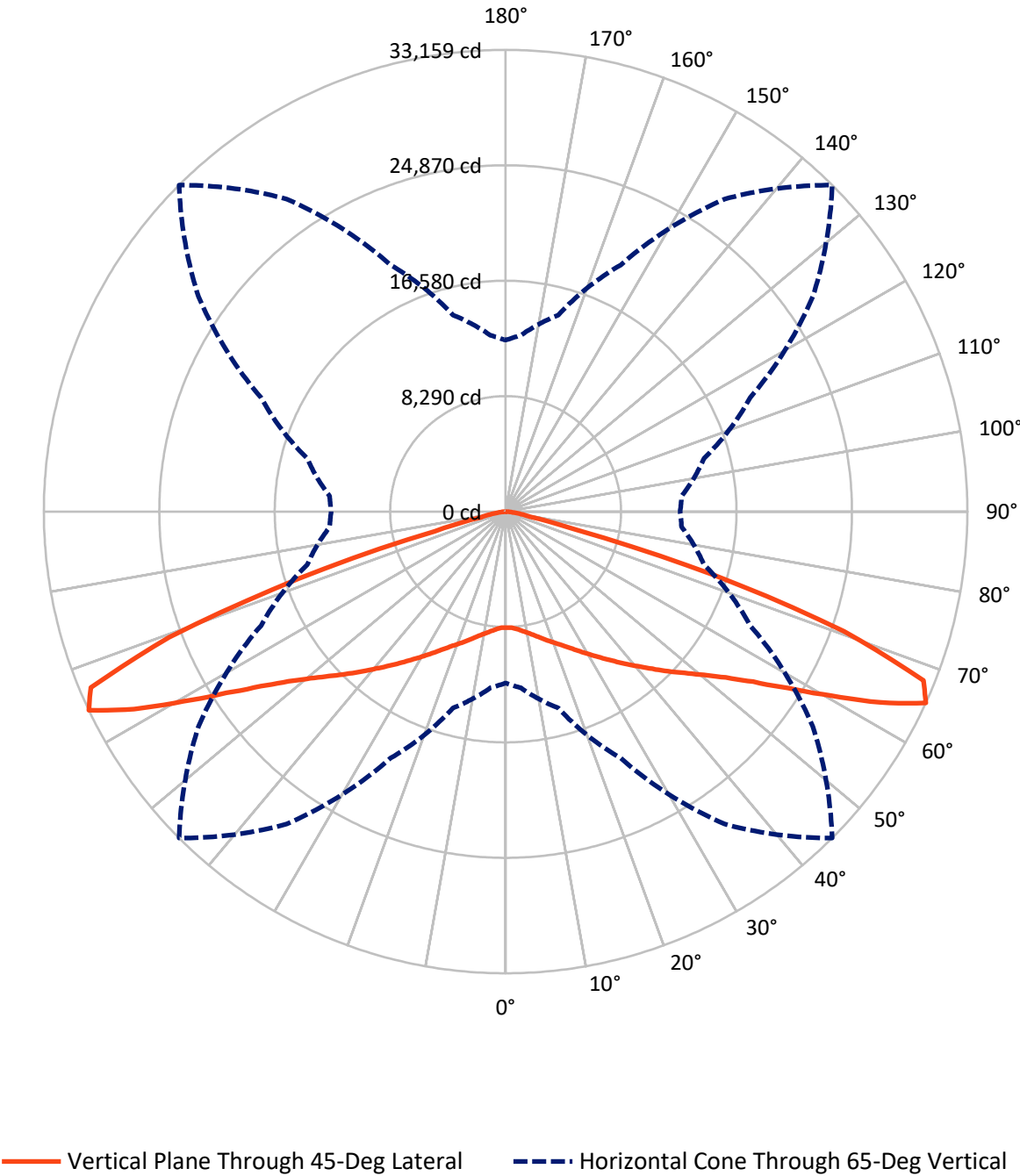
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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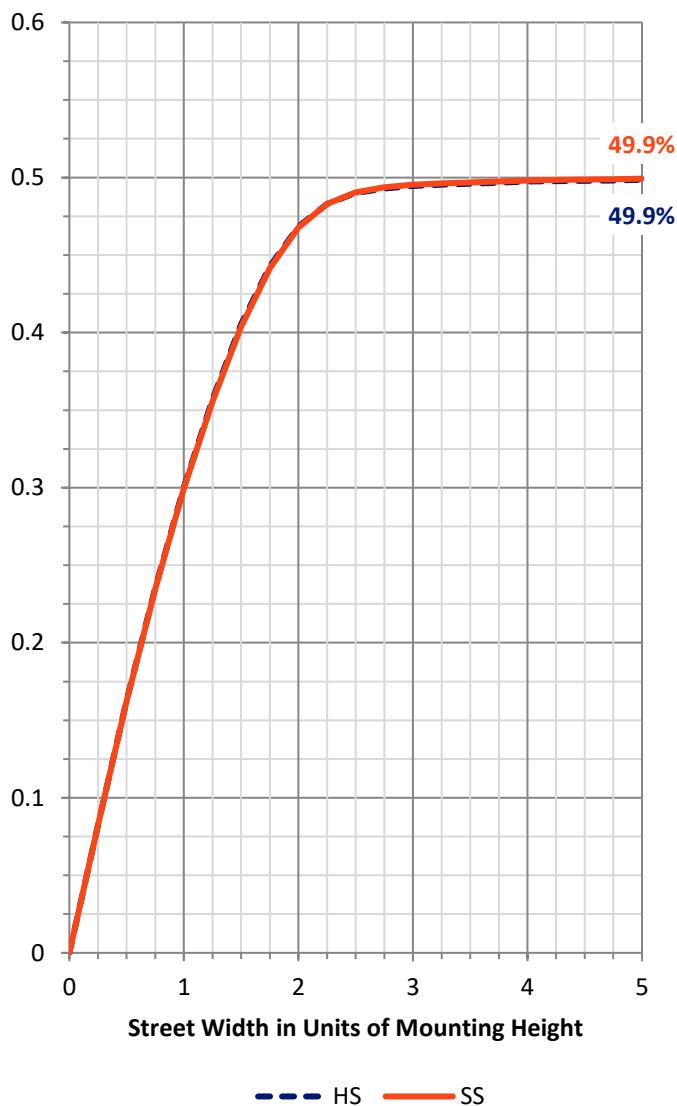
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	35061.2	0.0	35061.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	35061.2	0.0	35061.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	70122.3	0.0	70122.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	823.6	1.2
10°-20°	2687.5	3.8
20°-30°	5074.2	7.2
30°-40°	8308.9	11.8
40°-50°	12883.0	18.4
50°-60°	19030.8	27.1
60°-70°	18115.6	25.8
70°-80°	2923.2	4.2
80°-90°	275.6	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°	70122.3	100.0
0°-180°	70122.3	100.0

Coefficient of Utilization



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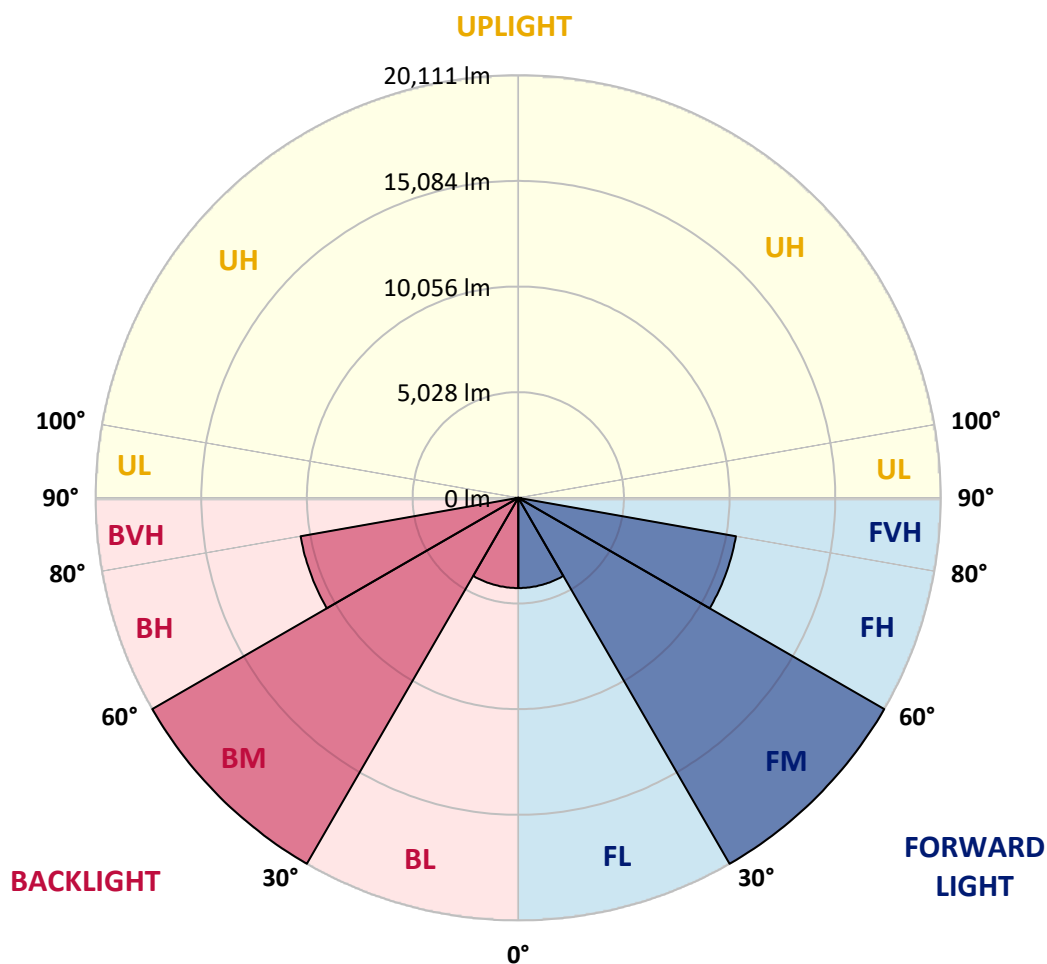
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4292.6	6.1			
FM	(30°-60°)	20111.3	28.7			
FH	(60°-80°)	10519.4	15.0			G4/12000
FVH	(80°-90°)	137.8	0.2			G2/225
BL	(0°-30°)	4292.6	6.1	B4/5000		
BM	(30°-60°)	20111.3	28.7	B5		
BH	(60°-80°)	10519.4	15.0	B5		G4/12000
BVH	(80°-90°)	137.8	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°	8345.2	8345.2	8345.2	8345.2	8345.2	8345.2	8345.2	8345.2	8345.2	8345.2	8345.2
2.5°	8401.5	8373.4	8394.5	8376.9	8362.9	8348.7	8355.8	8380.4	8391.0	8394.5	8394.5
5°	8514.2	8489.5	8500.0	8500.0	8475.4	8468.3	8471.9	8489.5	8510.6	8510.6	8510.6
7.5°	8697.1	8672.4	8697.1	8683.0	8661.9	8654.9	8651.3	8665.5	8697.1	8697.1	8686.6
10°	8918.7	8890.5	8904.7	8897.6	8873.0	8862.5	8858.9	8880.0	8908.2	8904.7	8897.6
12.5°	9161.4	9129.8	9147.4	9126.3	9119.2	9108.7	9108.7	9105.2	9122.8	9108.7	9115.7
15°	9432.4	9411.2	9418.3	9404.3	9414.8	9407.8	9379.6	9365.5	9372.6	9351.5	9355.0
17.5°	9752.6	9703.3	9728.0	9720.9	9720.9	9734.9	9689.2	9671.6	9685.7	9664.6	9682.2
20°	10122.0	10072.7	10083.2	10069.2	10051.6	10065.7	10009.3	10023.5	10034.0	10019.9	10051.6
22.5°	10526.5	10463.2	10459.7	10466.8	10428.0	10431.5	10392.9	10428.0	10449.2	10410.4	10449.2
25°	10941.7	10874.8	10920.6	10903.0	10853.7	10864.3	10836.2	10871.4	10889.0	10839.7	10896.0
27.5°	11381.5	11335.8	11378.0	11388.6	11328.7	11370.9	11328.7	11360.4	11378.0	11304.1	11360.4
30°	11895.1	11849.4	11888.2	11916.2	11845.9	11912.8	11877.6	11898.7	11902.2	11814.3	11867.0
32.5°	12454.6	12384.2	12482.7	12496.8	12419.4	12500.3	12454.6	12482.7	12500.3	12380.7	12461.5
35°	13137.1	13049.2	13161.7	13144.1	13077.3	13144.1	13102.0	13144.1	13186.3	13042.1	13130.0
37.5°	13872.5	13780.9	13900.5	13868.9	13805.5	13851.3	13826.6	13854.8	13921.7	13766.9	13861.9
40°	14681.6	14569.0	14730.9	14674.5	14614.8	14607.7	14621.8	14639.4	14727.3	14554.9	14611.3
42.5°	15547.1	15427.5	15670.2	15582.3	15497.8	15441.5	15487.2	15522.5	15606.9	15413.4	15515.4
45°	16535.7	16398.5	16715.2	16609.6	16475.8	16359.8	16433.7	16486.4	16609.6	16377.3	16497.0
47.5°	17626.3	17471.5	17809.3	17777.6	17559.5	17306.2	17475.1	17626.3	17717.8	17436.4	17531.4
50°	18692.4	18572.8	19016.1	19054.8	18787.3	18432.1	18667.7	18896.5	18921.1	18551.7	18597.4
52.5°	19691.6	19572.0	20215.8	20458.6	20219.3	19797.2	20046.9	20279.1	20092.7	19614.2	19628.2
55°	20490.2	20391.7	21211.5	21837.7	21918.6	21570.3	21718.1	21711.0	21098.9	20363.6	20388.2
57.5°	20683.7	20669.6	21704.0	23030.4	23874.7	23916.9	23624.9	22879.1	21559.7	20571.1	20507.8
60°	19804.1	19892.1	21313.4	23653.1	25904.7	26840.6	25577.5	23449.0	21035.6	19663.4	19501.5
62.5°	17172.5	17404.7	19118.1	22893.2	27544.3	30204.1	27143.2	22583.5	18882.3	17091.6	16986.0
65°	12306.8	12711.4	14604.2	19536.8	27396.5	33159.4	26918.0	19378.4	14744.9	12679.8	12528.5
67.5°	5583.5	5995.1	7602.9	13376.4	23815.0	32357.2	23758.7	13517.1	7982.9	6016.1	5928.2
70°	2022.9	2093.4	2610.6	5354.8	15219.9	25781.6	15870.8	5393.4	2775.9	2230.6	2202.4
72.5°	1224.4	1234.9	1344.0	1917.5	5287.9	15652.7	5513.1	1980.8	1372.1	1217.3	1238.4
75°	777.6	770.5	956.9	1171.6	1875.2	5280.9	1966.7	1171.6	953.5	869.0	876.1
77.5°	559.4	577.0	686.0	876.1	1182.1	1790.8	1161.0	837.3	686.0	562.9	573.5
80°	418.7	429.3	499.6	682.5	830.4	1115.3	738.8	619.2	517.2	351.8	362.3
82.5°	302.6	302.6	327.2	496.1	506.7	601.6	401.1	436.2	341.2	249.8	249.8
85°	179.5	175.9	204.1	295.5	263.8	221.6	183.0	267.4	214.6	154.8	151.3
87.5°	63.3	66.8	63.3	84.5	70.3	59.9	56.3	73.9	59.9	52.8	49.3
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)