

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: P962474

Luminaire Tested: **NAV-SB2C-740-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962474
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-SB2C-740-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17019.1 lumens
Efficiency: N/A
Efficacy: 168.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 100.9
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

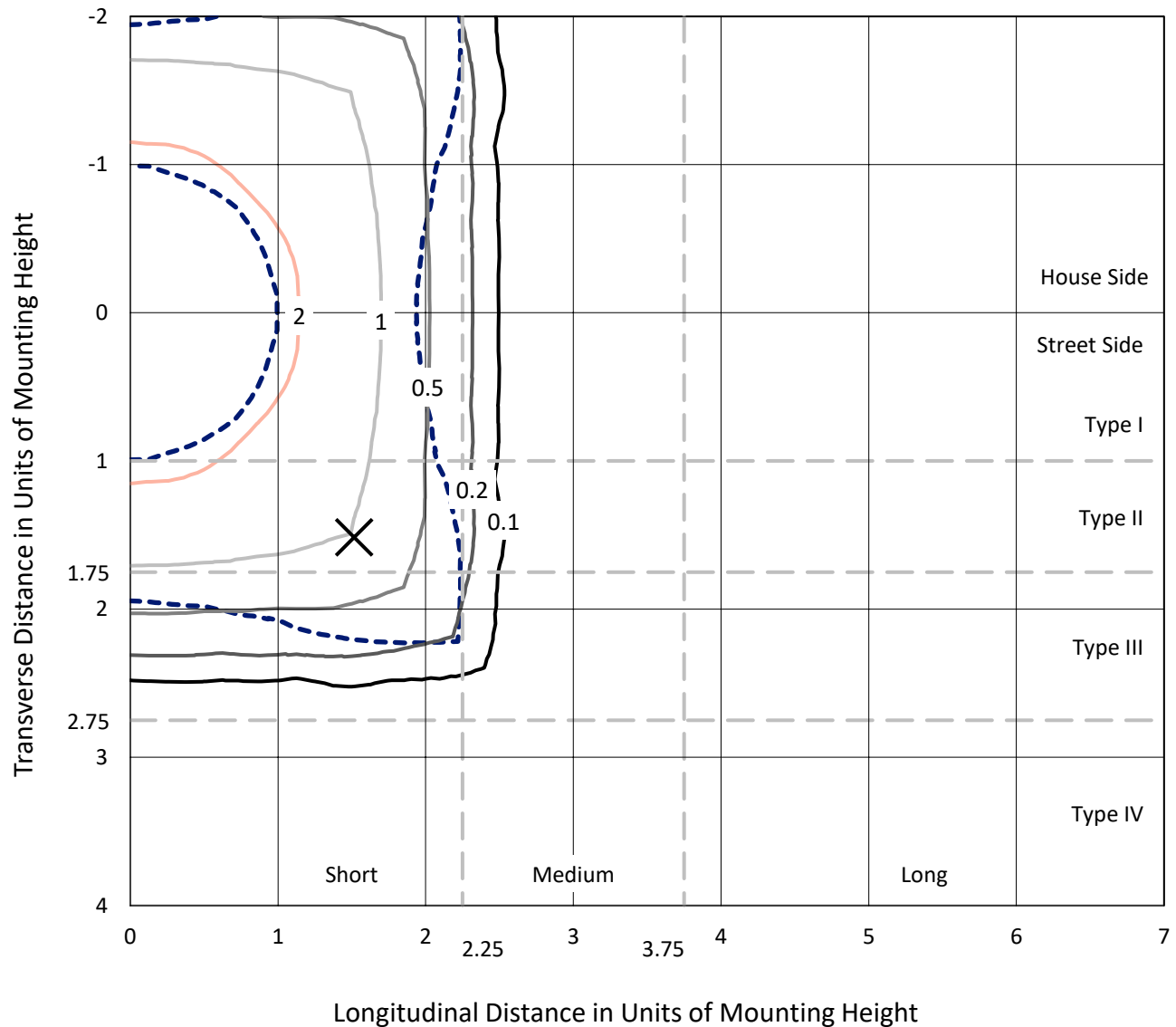


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Iso-Footcandle Lines of Horizontal Illumination

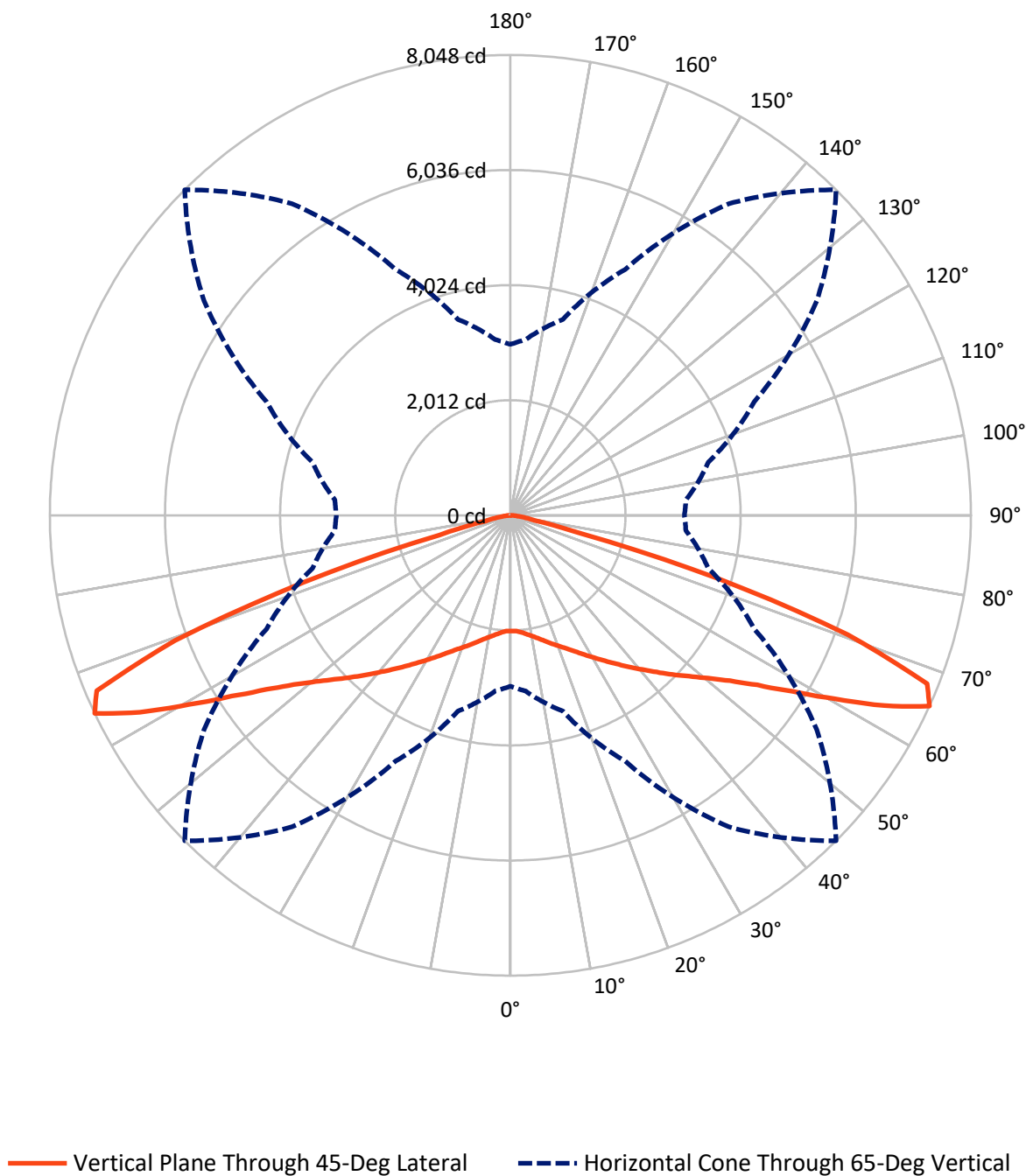
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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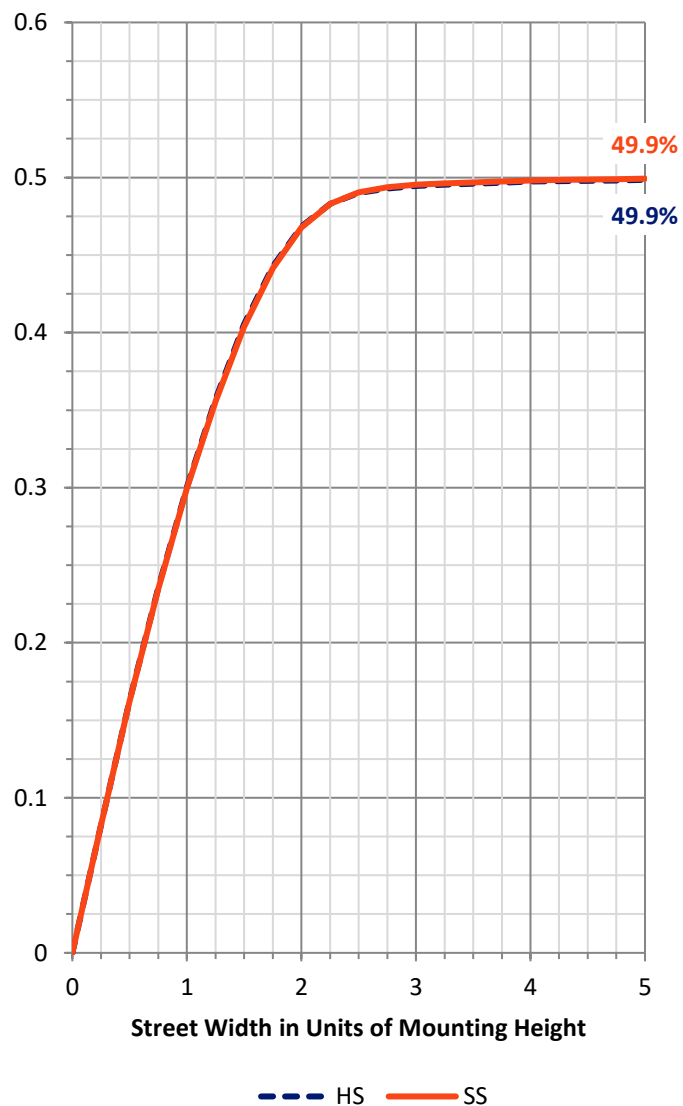
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8509.5	0.0	8509.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8509.5	0.0	8509.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17019.1	0.0	17019.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.9	1.2
10°-20°	652.3	3.8
20°-30°	1231.5	7.2
30°-40°	2016.6	11.8
40°-50°	3126.8	18.4
50°-60°	4618.9	27.1
60°-70°	4396.8	25.8
70°-80°	709.5	4.2
80°-90°	66.9	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°	17019.1	100.0
0°-180°	17019.1	100.0

Coefficient of Utilization



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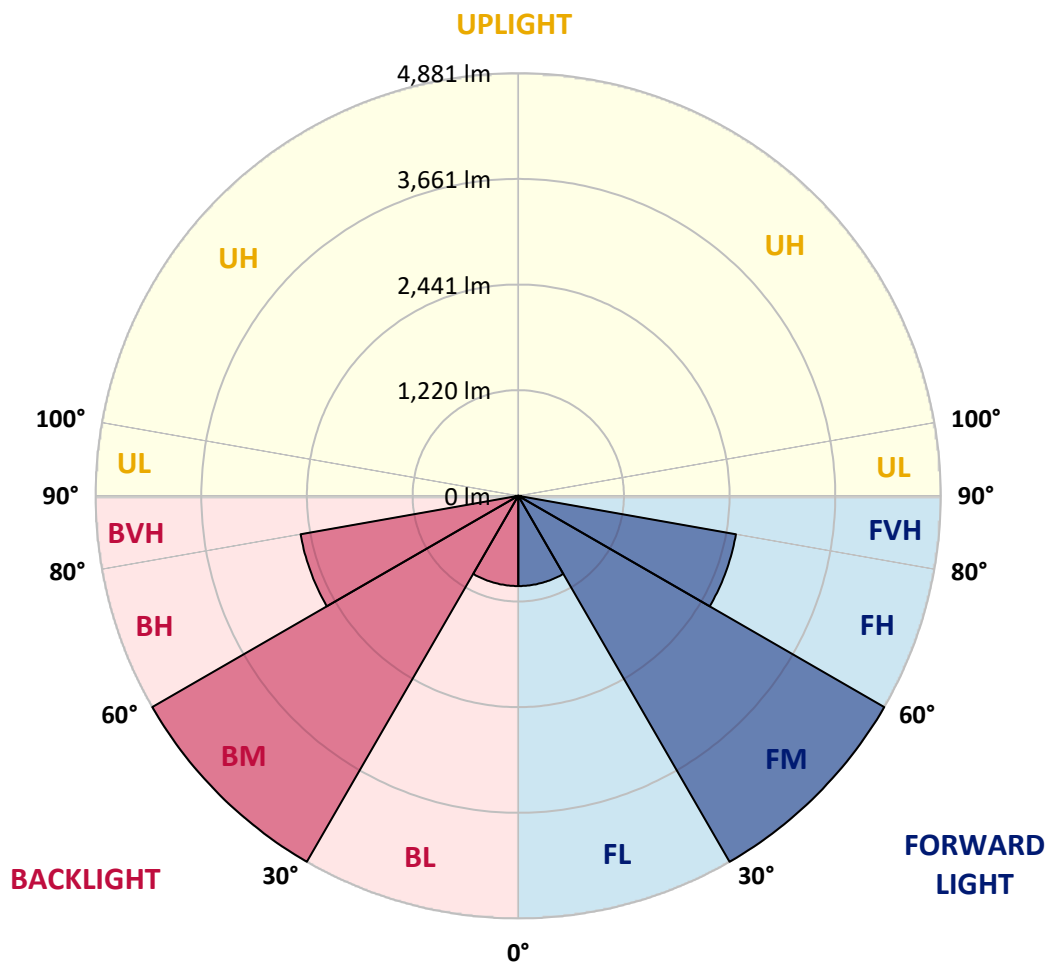
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1041.8	6.1			
FM	(30°-60°)	4881.1	28.7			
FH	(60°-80°)	2553.1	15.0			G2/5000
FVH	(80°-90°)	33.4	0.2			G1/100
BL	(0°-30°)	1041.8	6.1	B3/2500		
BM	(30°-60°)	4881.1	28.7	B3/5000		
BH	(60°-80°)	2553.1	15.0	B4/5000		G2/5000
BVH	(80°-90°)	33.4	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°	2025.4	2025.4	2025.4	2025.4	2025.4	2025.4	2025.4	2025.4	2025.4	2025.4	2025.4
2.5°	2039.1	2032.3	2037.4	2033.1	2029.7	2026.3	2028.0	2034.0	2036.6	2037.4	2037.4
5°	2066.4	2060.5	2063.0	2063.0	2057.1	2055.3	2056.1	2060.5	2065.6	2065.6	2065.6
7.5°	2110.8	2104.8	2110.8	2107.4	2102.3	2100.6	2099.7	2103.2	2110.8	2110.8	2108.2
10°	2164.6	2157.8	2161.2	2159.5	2153.5	2151.0	2150.1	2155.3	2162.0	2161.2	2159.5
12.5°	2223.5	2215.8	2220.1	2215.0	2213.3	2210.7	2210.7	2209.9	2214.2	2210.7	2212.5
15°	2289.3	2284.2	2285.9	2282.5	2285.0	2283.3	2276.5	2273.0	2274.8	2269.7	2270.5
17.5°	2367.0	2355.0	2361.0	2359.3	2359.3	2362.7	2351.7	2347.4	2350.7	2345.6	2349.9
20°	2456.6	2444.7	2447.3	2443.8	2439.6	2443.0	2429.4	2432.7	2435.3	2431.9	2439.6
22.5°	2554.8	2539.5	2538.6	2540.4	2530.9	2531.9	2522.4	2530.9	2536.1	2526.7	2536.1
25°	2655.6	2639.4	2650.4	2646.2	2634.2	2636.8	2630.0	2638.6	2642.9	2630.9	2644.5
27.5°	2762.4	2751.3	2761.5	2764.0	2749.6	2759.8	2749.6	2757.2	2761.5	2743.6	2757.2
30°	2887.0	2875.9	2885.3	2892.1	2875.0	2891.3	2882.7	2887.8	2888.8	2867.3	2880.1
32.5°	3022.8	3005.7	3029.6	3033.1	3014.2	3033.9	3022.8	3029.6	3033.9	3004.9	3024.5
35°	3188.5	3167.1	3194.4	3190.1	3173.9	3190.1	3180.0	3190.1	3200.4	3165.4	3186.7
37.5°	3366.9	3344.7	3373.8	3366.1	3350.7	3361.8	3355.8	3362.6	3378.9	3341.3	3364.4
40°	3563.3	3535.9	3575.3	3561.6	3547.1	3545.4	3548.8	3553.1	3574.4	3532.6	3546.2
42.5°	3773.3	3744.3	3803.3	3781.9	3761.4	3747.7	3758.9	3767.4	3787.9	3740.9	3765.6
45°	4013.3	3980.0	4056.8	4031.2	3998.8	3970.6	3988.6	4001.4	4031.2	3974.8	4004.0
47.5°	4278.0	4240.4	4322.4	4314.7	4261.8	4200.3	4241.3	4278.0	4300.2	4231.9	4255.0
50°	4536.8	4507.7	4615.3	4624.7	4559.8	4473.6	4530.8	4586.3	4592.3	4502.6	4513.7
52.5°	4779.3	4750.3	4906.5	4965.4	4907.4	4804.9	4865.5	4921.8	4876.6	4760.5	4763.9
55°	4973.1	4949.2	5148.2	5300.2	5319.7	5235.3	5271.1	5269.4	5120.8	4942.3	4948.3
57.5°	5020.0	5016.7	5267.7	5589.6	5794.5	5804.8	5734.0	5552.9	5232.7	4992.8	4977.4
60°	4806.6	4828.0	5172.9	5740.7	6287.2	6514.4	6207.8	5691.2	5105.4	4772.4	4733.1
62.5°	4167.9	4224.2	4640.1	5556.3	6685.2	7330.7	6587.8	5481.2	4582.9	4148.3	4122.7
65°	2987.0	3085.1	3544.6	4741.6	6649.3	8048.0	6533.1	4703.2	3578.7	3077.5	3040.8
67.5°	1355.2	1455.1	1845.3	3246.5	5780.1	7853.2	5766.3	3280.7	1937.5	1460.1	1438.8
70°	491.0	508.1	633.6	1299.6	3694.0	6257.3	3852.0	1309.0	673.7	541.4	534.5
72.5°	297.1	299.7	326.2	465.4	1283.4	3799.0	1338.0	480.7	333.0	295.4	300.5
75°	188.7	187.0	232.3	284.3	455.1	1281.7	477.3	284.3	231.4	210.9	212.6
77.5°	135.8	140.0	166.5	212.6	286.9	434.6	281.8	203.3	166.5	136.6	139.2
80°	101.6	104.1	121.3	165.6	201.5	270.7	179.3	150.3	125.6	85.4	87.9
82.5°	73.4	73.4	79.4	120.4	123.0	146.1	97.4	105.9	82.8	60.6	60.6
85°	43.6	42.7	49.5	71.8	64.1	53.8	44.4	64.9	52.1	37.6	36.7
87.5°	15.4	16.2	15.4	20.5	17.1	14.6	13.6	17.9	14.6	12.8	12.0
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)