

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: P966720

Luminaire Tested: **NAV-SB4C-750-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966720
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-SB4C-750-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34086.4 lumens
Efficiency: N/A
Efficacy: 169.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

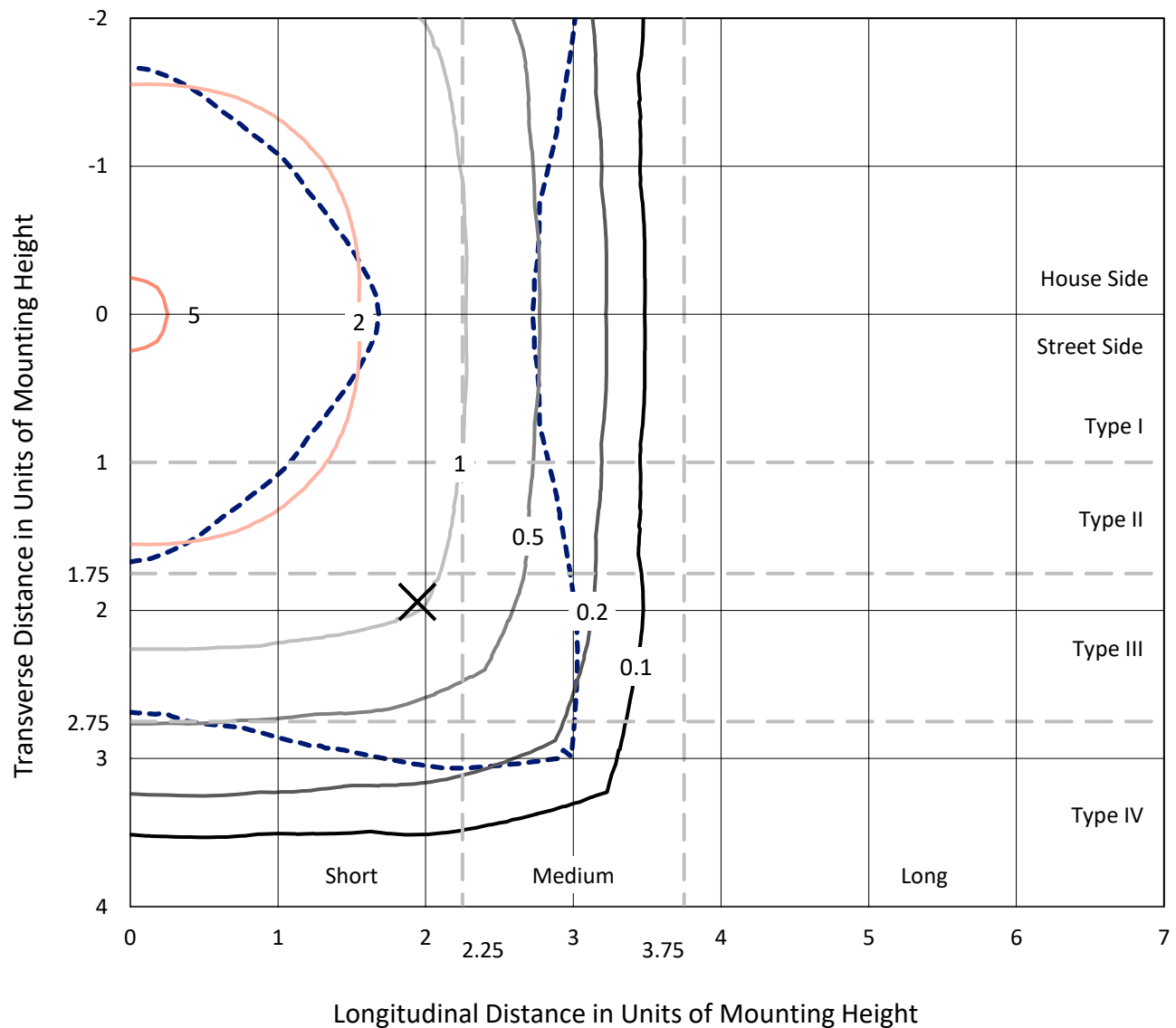
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

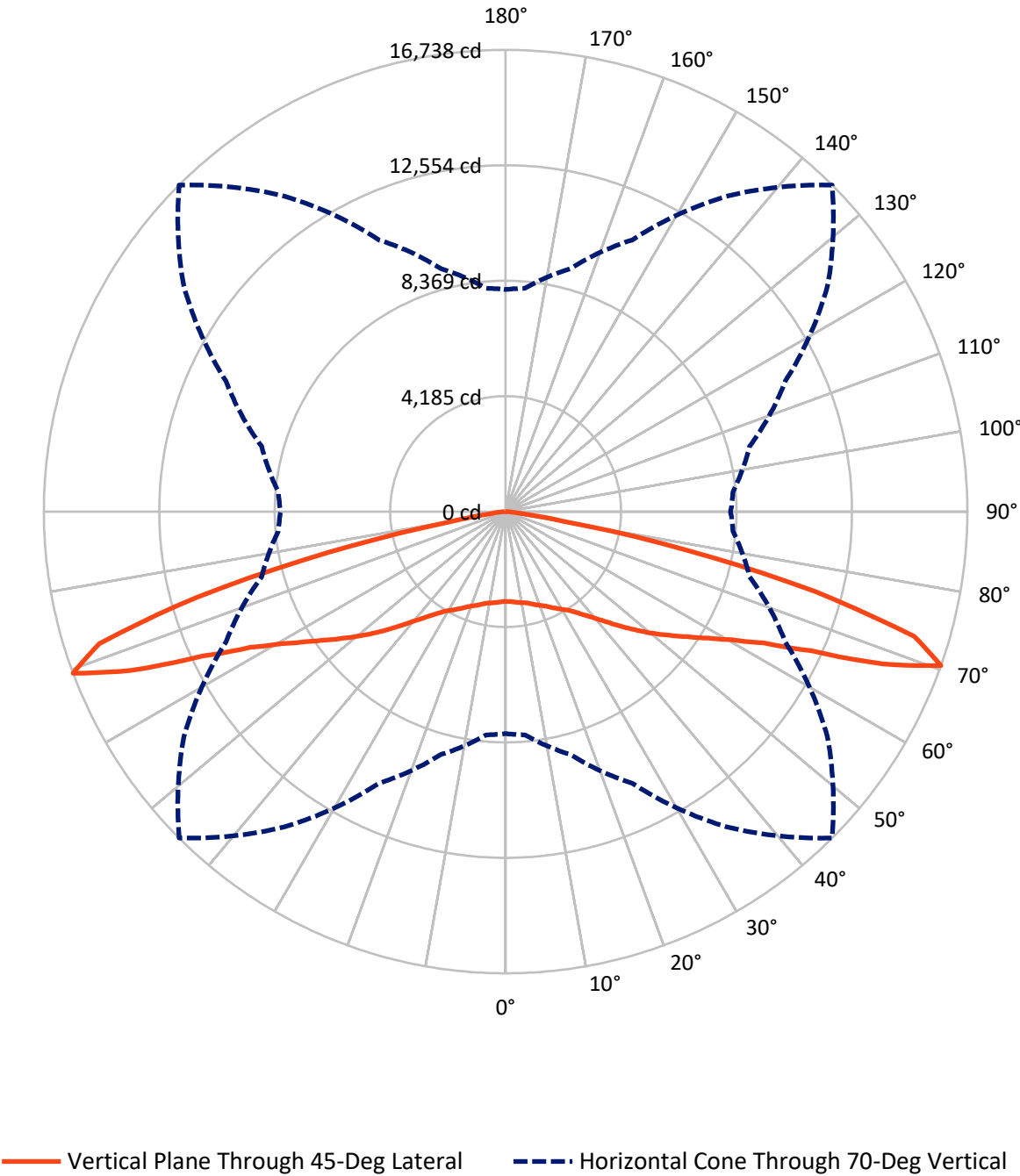
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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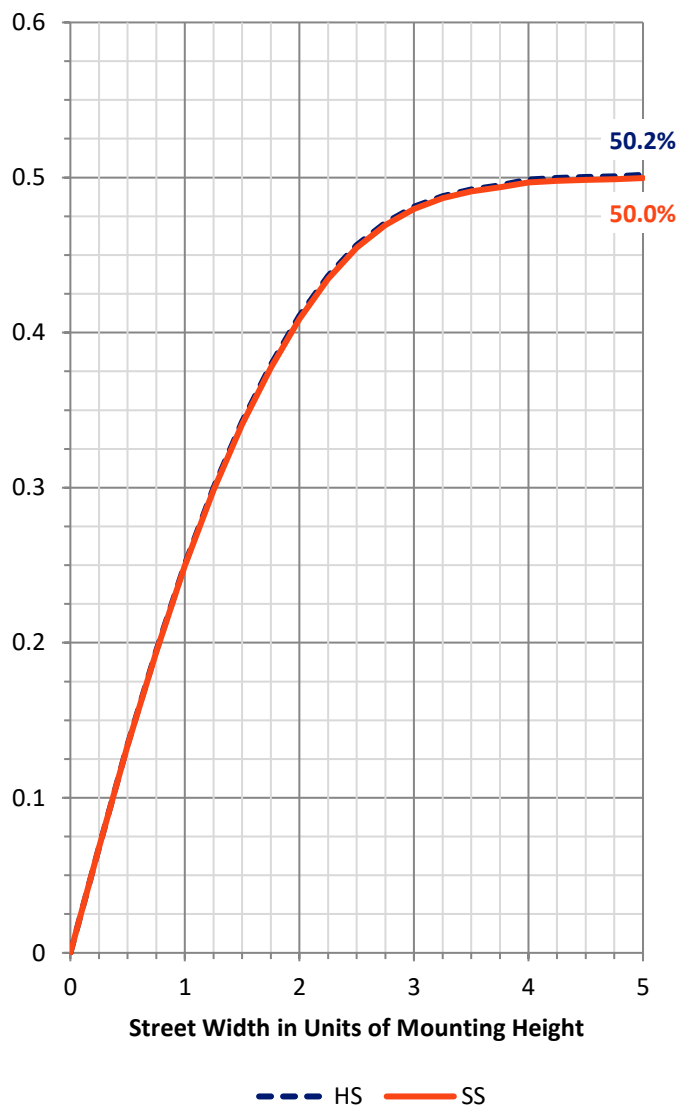
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17043.2	0.0	17043.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17043.2	0.0	17043.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	34086.4	0.0	34086.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.2	0.9
10°-20°	983.6	2.9
20°-30°	1757.8	5.2
30°-40°	2849.5	8.4
40°-50°	4641.3	13.6
50°-60°	7076.4	20.8
60°-70°	10527.4	30.9
70°-80°	5737.8	16.8
80°-90°	195.4	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°	34086.4	100.0
0°-180°	34086.4	100.0

Coefficient of Utilization



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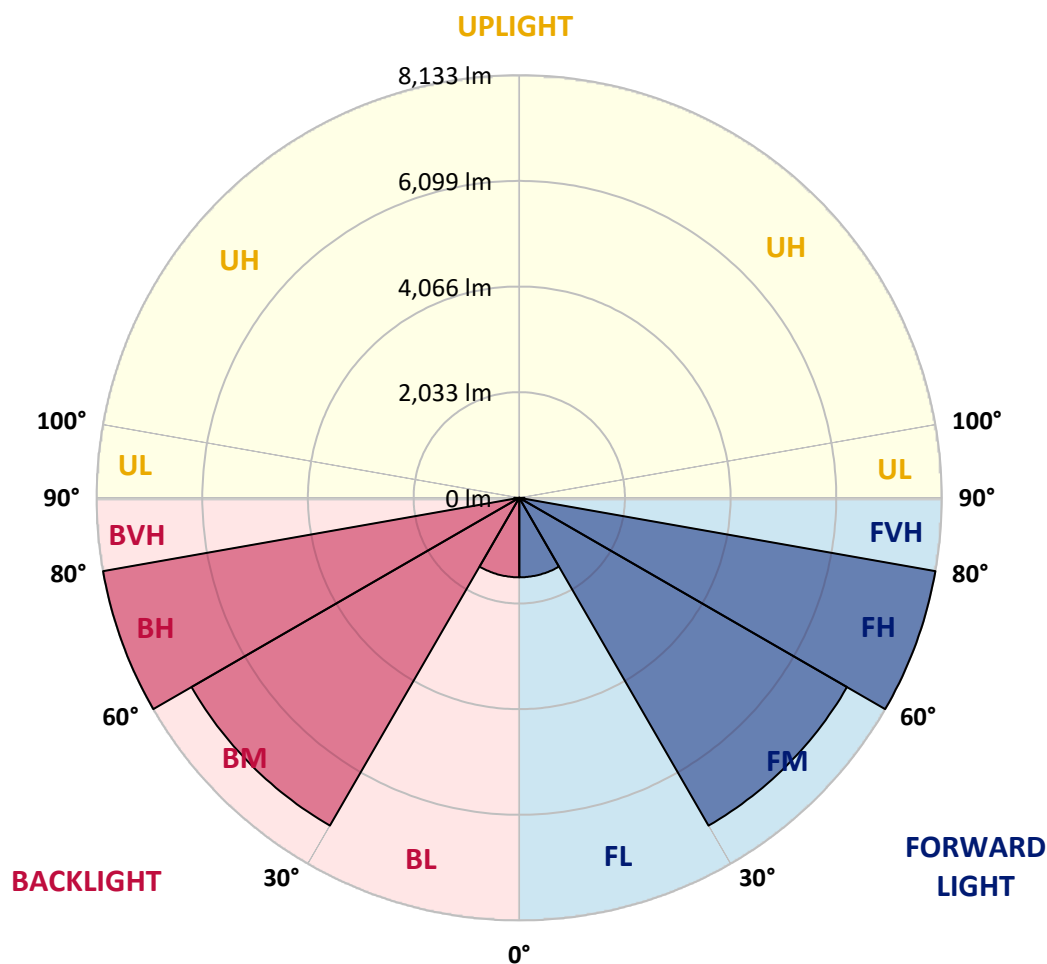
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1529.3	4.5			
FM	(30°-60°)	7283.6	21.4			
FH	(60°-80°)	8132.6	23.9			G4/12000
FVH	(80°-90°)	97.7	0.3			G1/100
BL	(0°-30°)	1529.3	4.5	B3/2500		
BM	(30°-60°)	7283.6	21.4	B4/8500		
BH	(60°-80°)	8132.6	23.9	B5		G4/12000
BVH	(80°-90°)	97.7	0.3			G1/100
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°	3265.1	3265.1	3265.1	3265.1	3265.1	3265.1	3265.1	3265.1	3265.1	3265.1	3265.1
2.5°	3280.5	3283.9	3277.1	3273.6	3270.3	3265.1	3266.9	3275.4	3282.3	3280.5	3282.3
5°	3307.9	3311.4	3306.2	3304.5	3297.6	3295.9	3295.9	3304.5	3309.6	3306.2	3307.9
7.5°	3338.7	3343.9	3335.2	3333.6	3330.1	3326.7	3325.0	3333.6	3338.7	3338.7	3338.7
10°	3367.8	3373.0	3366.1	3361.0	3357.5	3357.5	3354.1	3361.0	3369.5	3367.8	3367.8
12.5°	3398.6	3402.0	3395.2	3391.7	3391.7	3396.8	3391.7	3395.2	3402.0	3398.6	3396.8
15°	3436.2	3438.0	3436.2	3441.3	3449.9	3467.1	3451.7	3448.2	3451.7	3443.1	3443.1
17.5°	3487.6	3491.0	3497.8	3509.8	3521.8	3552.6	3525.3	3516.7	3516.7	3499.6	3499.6
20°	3550.9	3556.0	3566.3	3586.9	3602.3	3631.4	3604.0	3592.0	3586.9	3564.6	3564.6
22.5°	3617.6	3626.2	3641.6	3669.0	3696.4	3723.7	3696.4	3675.9	3660.4	3631.4	3629.6
25°	3694.6	3705.0	3728.8	3773.3	3811.1	3850.4	3817.8	3776.8	3746.0	3705.0	3703.2
27.5°	3804.2	3816.2	3845.3	3900.0	3947.9	3982.1	3951.4	3898.3	3855.5	3805.9	3804.2
30°	3958.1	3970.1	4004.4	4062.6	4095.1	4117.3	4096.8	4055.7	4004.4	3947.9	3947.9
32.5°	4156.7	4172.1	4209.8	4264.5	4271.4	4274.8	4267.9	4247.4	4209.8	4141.3	4143.0
35°	4408.2	4425.3	4468.2	4512.7	4505.8	4512.7	4502.4	4495.5	4468.2	4389.5	4389.5
37.5°	4716.3	4736.8	4781.3	4815.6	4798.4	4789.8	4791.6	4793.3	4777.9	4690.6	4690.6
40°	5074.0	5101.3	5133.8	5169.8	5140.7	5115.1	5132.2	5145.8	5132.2	5043.1	5043.1
42.5°	5441.8	5481.2	5515.4	5566.8	5542.8	5510.3	5534.3	5549.7	5520.5	5424.7	5431.6
45°	5850.9	5888.5	5933.0	6010.0	5992.9	5958.6	5992.9	5996.4	5946.7	5833.8	5845.8
47.5°	6273.5	6312.9	6379.6	6482.3	6475.4	6437.8	6482.3	6458.3	6395.1	6259.9	6251.3
50°	6674.0	6728.7	6831.4	6975.2	6988.9	6942.6	7002.6	6956.4	6850.3	6680.8	6677.5
52.5°	7050.5	7108.7	7271.2	7466.3	7515.9	7456.1	7536.5	7456.1	7296.9	7079.6	7059.1
55°	7445.8	7510.8	7704.2	7959.1	8058.4	8014.0	8089.2	7967.7	7741.8	7478.3	7442.3
57.5°	7911.3	7950.6	8181.7	8484.5	8652.2	8662.5	8696.7	8491.4	8217.5	7918.1	7877.0
60°	8416.1	8470.8	8722.4	9085.2	9350.5	9436.0	9400.1	9095.4	8777.2	8433.2	8378.5
62.5°	9062.9	9122.8	9424.1	9858.7	10278.0	10490.2	10349.8	9908.3	9514.7	9102.3	9030.5
65°	9598.6	9665.3	10209.5	10984.7	11747.9	12174.0	11821.5	11008.7	10300.2	9718.3	9622.5
67.5°	9210.1	9292.2	10146.2	11570.0	13467.8	14739.3	13532.8	11744.6	10356.7	9567.8	9449.7
70°	8049.8	8126.9	9122.8	10863.2	13952.1	16738.0	14243.0	11183.3	9155.3	8272.4	8154.3
72.5°	5344.3	5592.5	6600.4	8688.2	12458.2	15488.8	12581.4	8511.9	6122.9	5332.4	5159.5
75°	1772.8	1971.4	2659.4	4504.1	8344.2	11583.6	7943.7	3985.6	2106.6	1516.2	1434.1
77.5°	446.7	515.1	710.2	1288.6	3328.5	6595.3	2996.5	1052.5	573.3	400.5	357.6
80°	217.3	239.5	342.2	429.6	833.4	2096.3	782.1	403.8	270.4	208.8	191.7
82.5°	119.8	121.5	193.4	243.0	309.8	542.4	321.7	236.2	155.7	126.6	126.6
85°	73.6	71.9	102.7	130.1	130.1	193.4	154.1	130.1	89.0	78.7	82.1
87.5°	29.1	29.1	37.6	41.1	36.0	49.6	39.4	42.7	34.2	32.5	34.2
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)