

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: P965077

Luminaire Tested: **NAV-SB3D-735-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965077
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-SB3D-735-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32774.4 lumens
Efficiency: N/A
Efficacy: 150.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

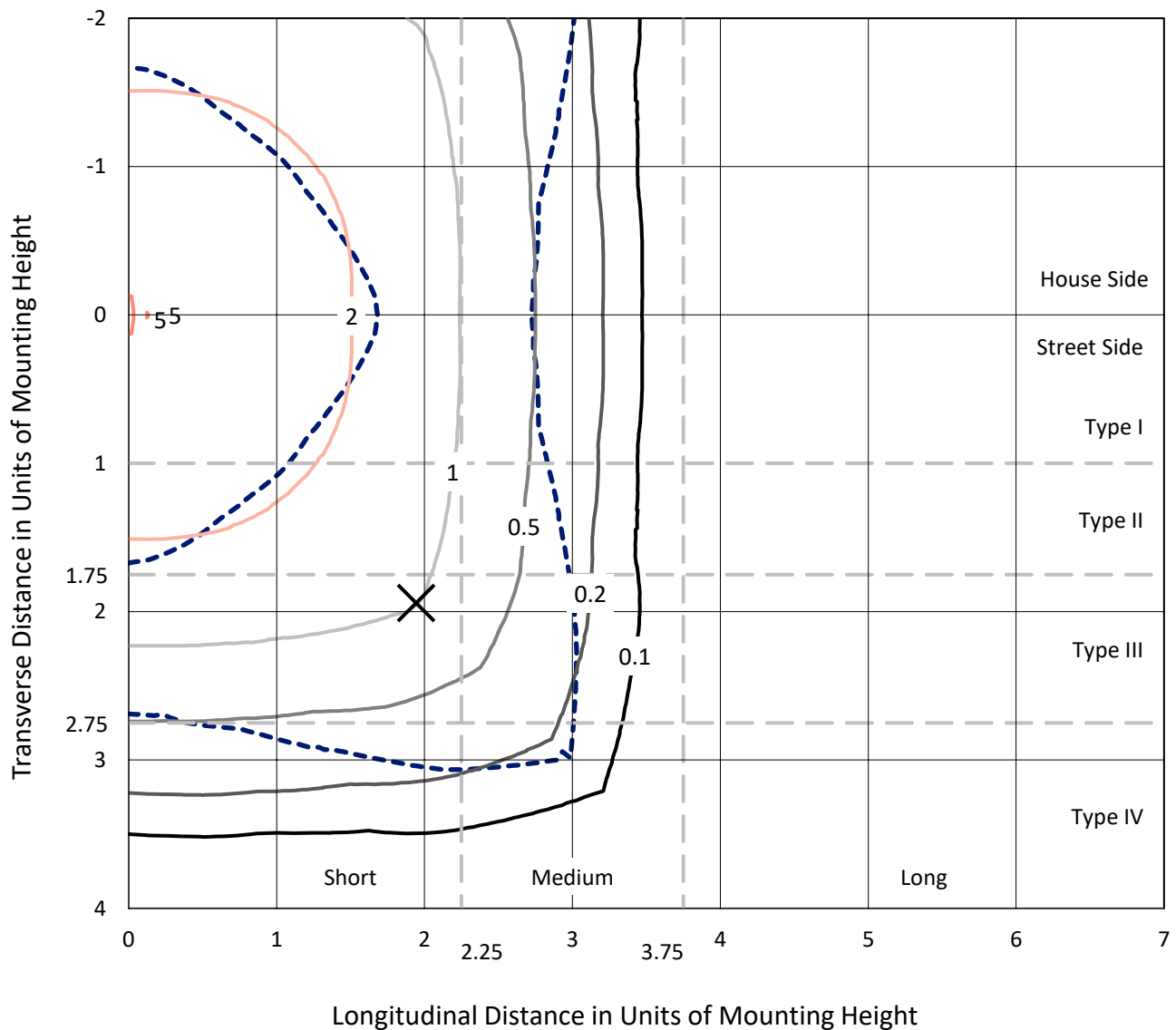
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

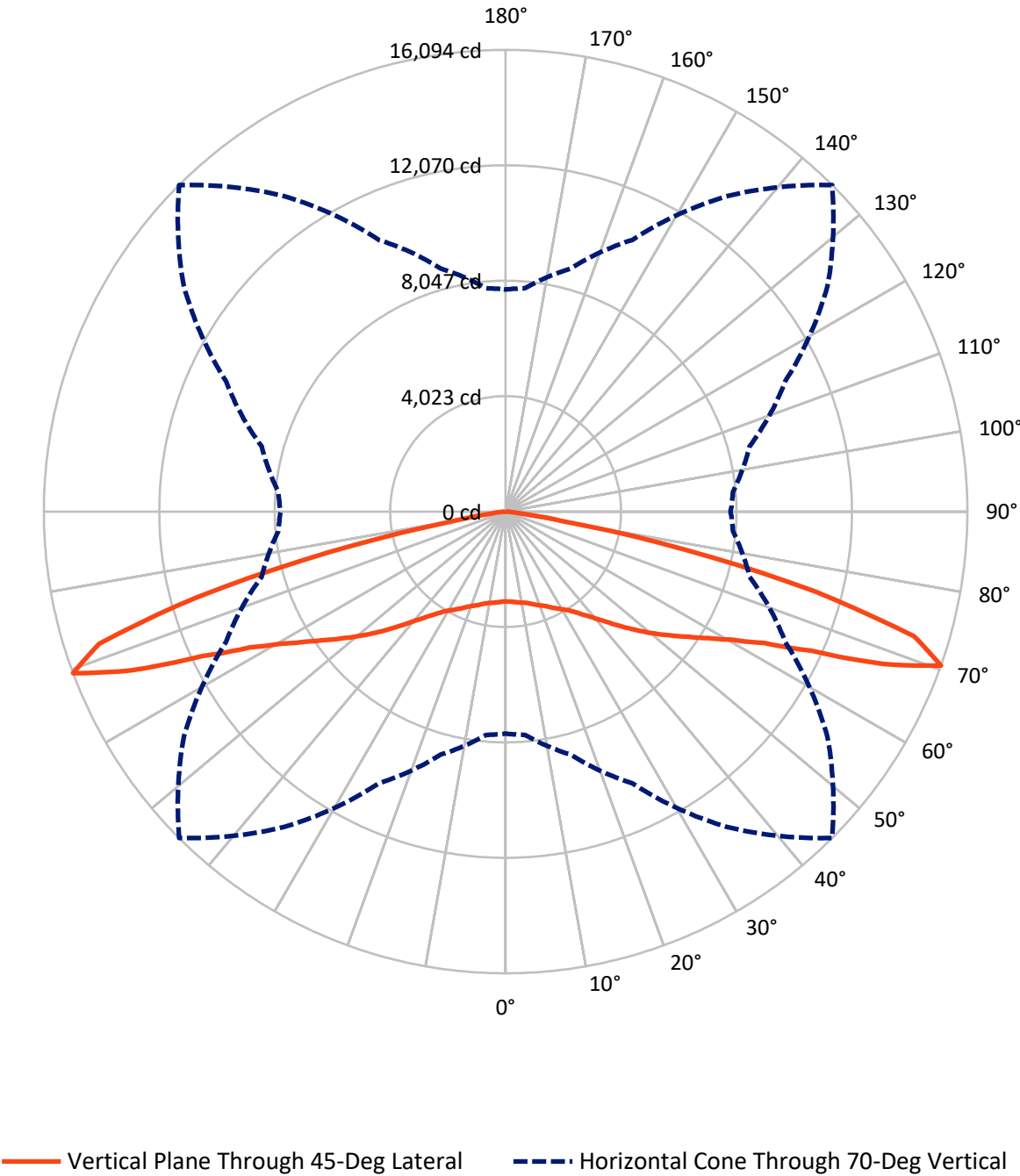
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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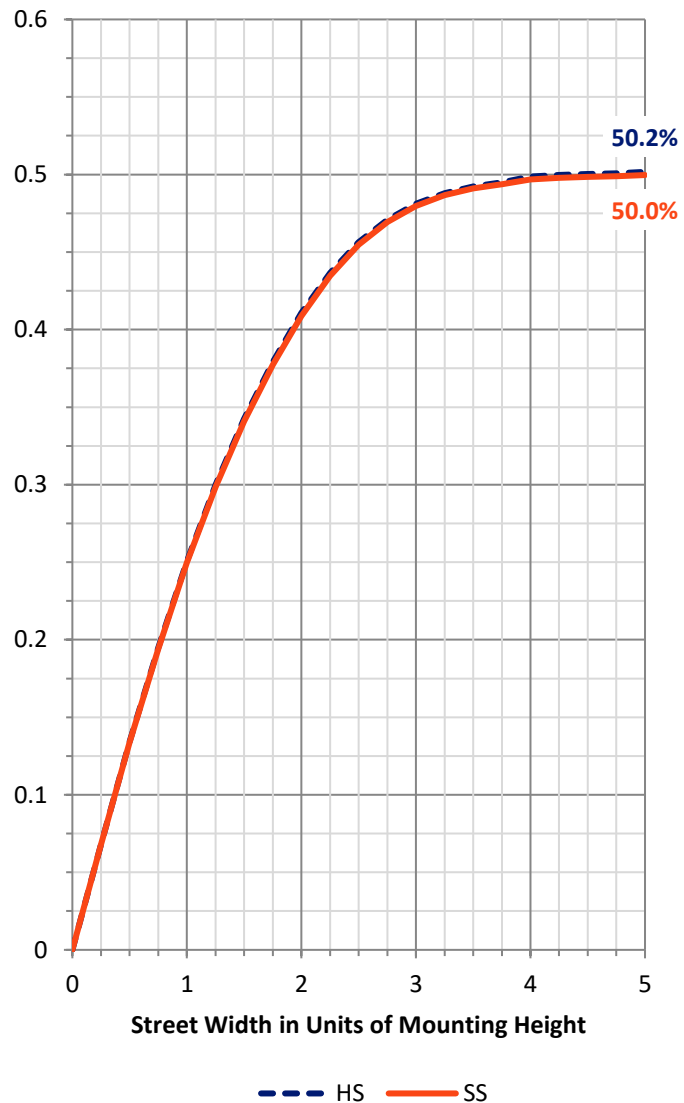
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16387.2	0.0	16387.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16387.2	0.0	16387.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	32774.4	0.0	32774.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.0	0.9
10°-20°	945.8	2.9
20°-30°	1690.2	5.2
30°-40°	2739.8	8.4
40°-50°	4462.6	13.6
50°-60°	6804.0	20.8
60°-70°	10122.2	30.9
70°-80°	5516.9	16.8
80°-90°	187.9	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°	32774.4	100.0
0°-180°	32774.4	100.0

Coefficient of Utilization



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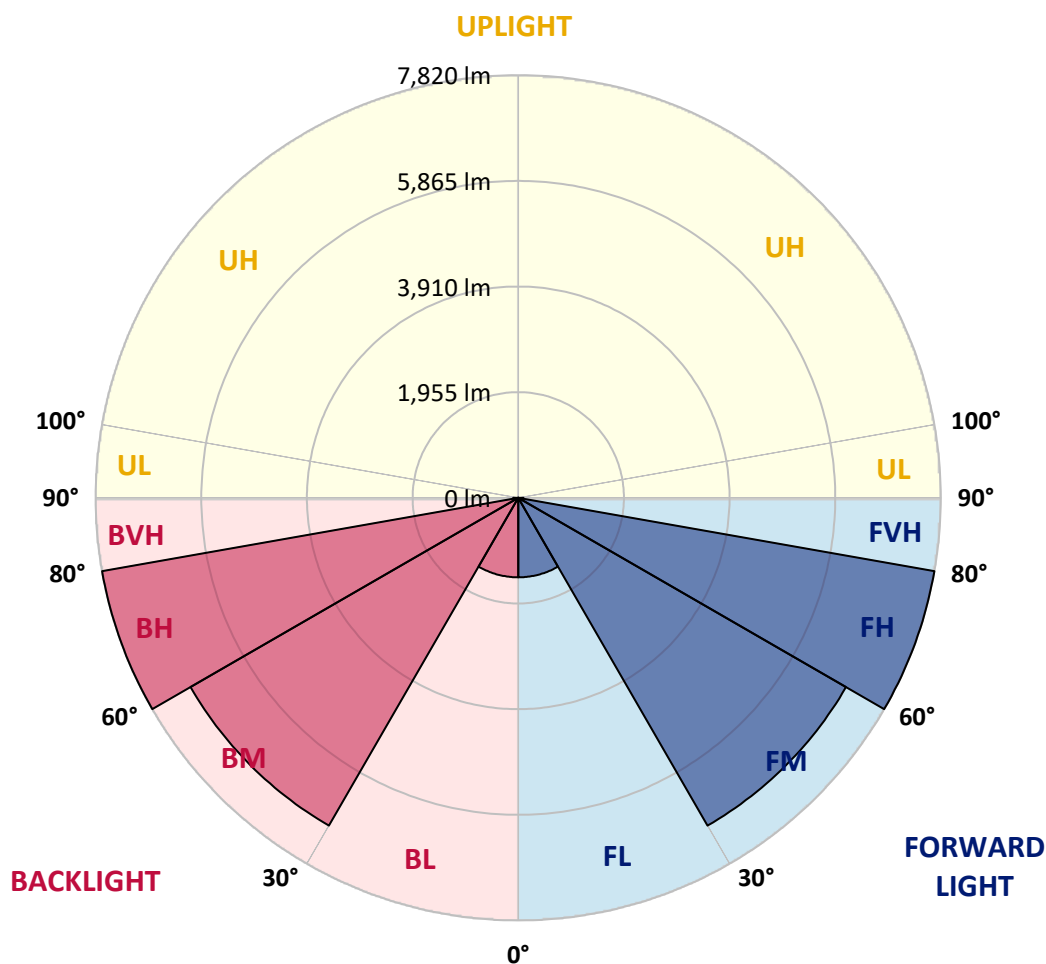
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1470.5	4.5			
FM	(30°-60°)	7003.2	21.4			
FH	(60°-80°)	7819.6	23.9			G4/12000
FVH	(80°-90°)	93.9	0.3			G1/100
BL	(0°-30°)	1470.5	4.5	B3/2500		
BM	(30°-60°)	7003.2	21.4	B4/8500		
BH	(60°-80°)	7819.6	23.9	B5		G4/12000
BVH	(80°-90°)	93.9	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°	3139.5	3139.5	3139.5	3139.5	3139.5	3139.5	3139.5	3139.5	3139.5	3139.5	3139.5
2.5°	3154.2	3157.5	3151.0	3147.7	3144.4	3139.5	3141.1	3149.3	3155.9	3154.2	3155.9
5°	3180.6	3183.9	3178.9	3177.3	3170.7	3169.1	3169.1	3177.3	3182.2	3178.9	3180.6
7.5°	3210.2	3215.1	3206.9	3205.3	3202.0	3198.7	3197.1	3205.3	3210.2	3210.2	3210.2
10°	3238.2	3243.1	3236.5	3231.6	3228.3	3228.3	3225.0	3231.6	3239.8	3238.2	3238.2
12.5°	3267.8	3271.1	3264.5	3261.2	3261.2	3266.2	3261.2	3264.5	3271.1	3267.8	3266.2
15°	3304.0	3305.6	3304.0	3308.9	3317.1	3333.6	3318.7	3315.5	3318.7	3310.5	3310.5
17.5°	3353.4	3356.7	3363.2	3374.7	3386.3	3415.9	3389.6	3381.4	3381.4	3364.9	3364.9
20°	3414.3	3419.2	3429.0	3448.8	3463.6	3491.6	3465.2	3453.7	3448.8	3427.4	3427.4
22.5°	3478.4	3486.6	3501.4	3527.7	3554.1	3580.4	3554.1	3534.3	3519.5	3491.6	3489.9
25°	3552.4	3562.3	3585.3	3628.1	3664.4	3702.2	3670.9	3631.5	3601.8	3562.3	3560.6
27.5°	3657.7	3669.3	3697.3	3749.9	3796.0	3828.9	3799.3	3748.2	3707.1	3659.4	3657.7
30°	3805.8	3817.3	3850.3	3906.2	3937.4	3958.9	3939.1	3899.6	3850.3	3796.0	3796.0
32.5°	3996.7	4011.5	4047.7	4100.4	4107.0	4110.2	4103.7	4083.9	4047.7	3981.9	3983.6
35°	4238.6	4255.1	4296.2	4338.9	4332.4	4338.9	4329.1	4322.5	4296.2	4220.4	4220.4
37.5°	4534.8	4554.5	4597.3	4630.2	4613.7	4605.5	4607.2	4608.8	4593.9	4510.1	4510.1
40°	4878.7	4904.9	4936.2	4970.8	4942.9	4918.2	4934.6	4947.8	4934.6	4849.1	4849.1
42.5°	5232.4	5270.2	5303.1	5352.5	5329.5	5298.2	5321.3	5336.0	5308.1	5215.9	5222.6
45°	5625.7	5661.9	5704.6	5778.6	5762.2	5729.3	5762.2	5765.5	5717.8	5609.2	5620.7
47.5°	6032.1	6069.9	6134.1	6232.8	6226.3	6190.1	6232.8	6209.8	6148.9	6018.9	6010.7
50°	6417.1	6469.8	6568.5	6706.7	6719.9	6675.4	6733.0	6688.6	6586.5	6423.7	6420.4
52.5°	6779.1	6835.0	6991.3	7178.9	7226.7	7169.1	7246.4	7169.1	7016.0	6807.0	6787.3
55°	7159.2	7221.7	7407.7	7652.9	7748.3	7705.4	7777.9	7661.1	7443.9	7190.5	7155.9
57.5°	7606.7	7644.6	7866.7	8158.0	8319.2	8329.0	8361.9	8164.5	7901.3	7613.3	7573.8
60°	8092.2	8144.8	8386.7	8735.5	8990.5	9072.8	9038.2	8745.4	8439.3	8108.6	8056.0
62.5°	8714.1	8771.6	9061.3	9479.2	9882.3	10086.4	9951.4	9527.0	9148.5	8752.0	8682.9
65°	9229.1	9293.3	9816.5	10561.9	11295.7	11705.5	11366.5	10585.0	9903.8	9344.3	9252.2
67.5°	8855.6	8934.6	9755.6	11124.6	12949.4	14172.0	13012.0	11292.4	9958.1	9199.5	9086.0
70°	7740.0	7814.1	8771.6	10445.1	13415.0	16093.7	13694.7	10752.8	8802.9	7953.9	7840.4
72.5°	5138.6	5377.3	6346.4	8353.8	11978.6	14892.6	12097.0	8184.3	5887.3	5127.2	4960.9
75°	1704.7	1895.5	2557.0	4330.7	8023.0	11137.8	7638.0	3832.2	2025.5	1457.9	1378.8
77.5°	429.5	495.3	682.9	1239.0	3200.4	6341.4	2881.1	1011.9	551.2	385.0	343.9
80°	209.0	230.3	329.1	413.0	801.3	2015.7	751.9	388.3	259.9	200.7	184.3
82.5°	115.2	116.8	185.9	233.6	297.9	521.6	309.3	227.0	149.8	121.8	121.8
85°	70.7	69.1	98.7	125.0	125.0	185.9	148.1	125.0	85.6	75.6	79.0
87.5°	28.0	28.0	36.2	39.5	34.5	47.8	37.8	41.1	32.9	31.3	32.9
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)