

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: P967371

Luminaire Tested: **NAV-SB4D-835-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967371
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-SB4D-835-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 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: 40606.4 lumens
Efficiency: N/A
Efficacy: 138.3 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): 293.6
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

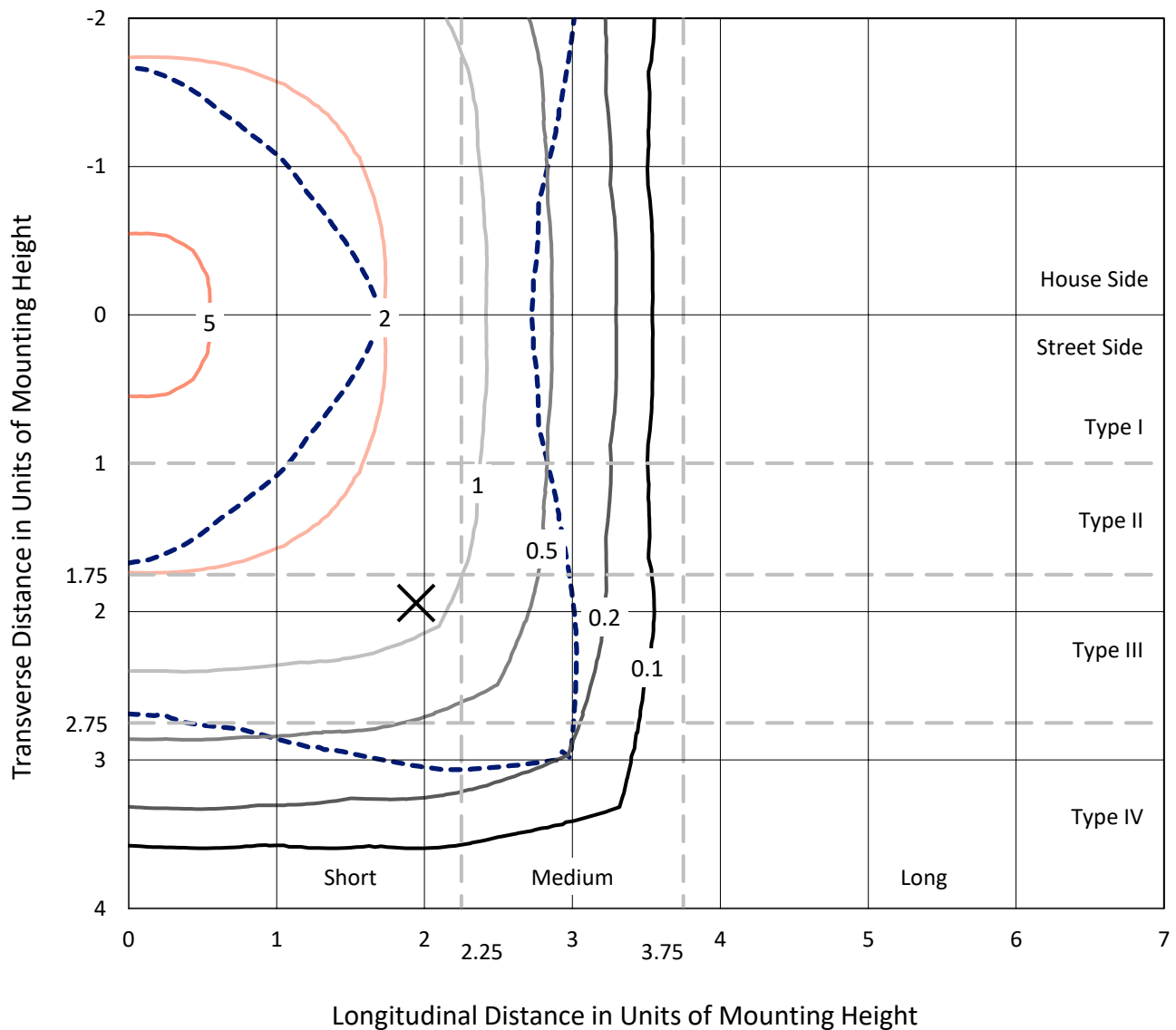


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Iso-Footcandle Lines of Horizontal Illumination

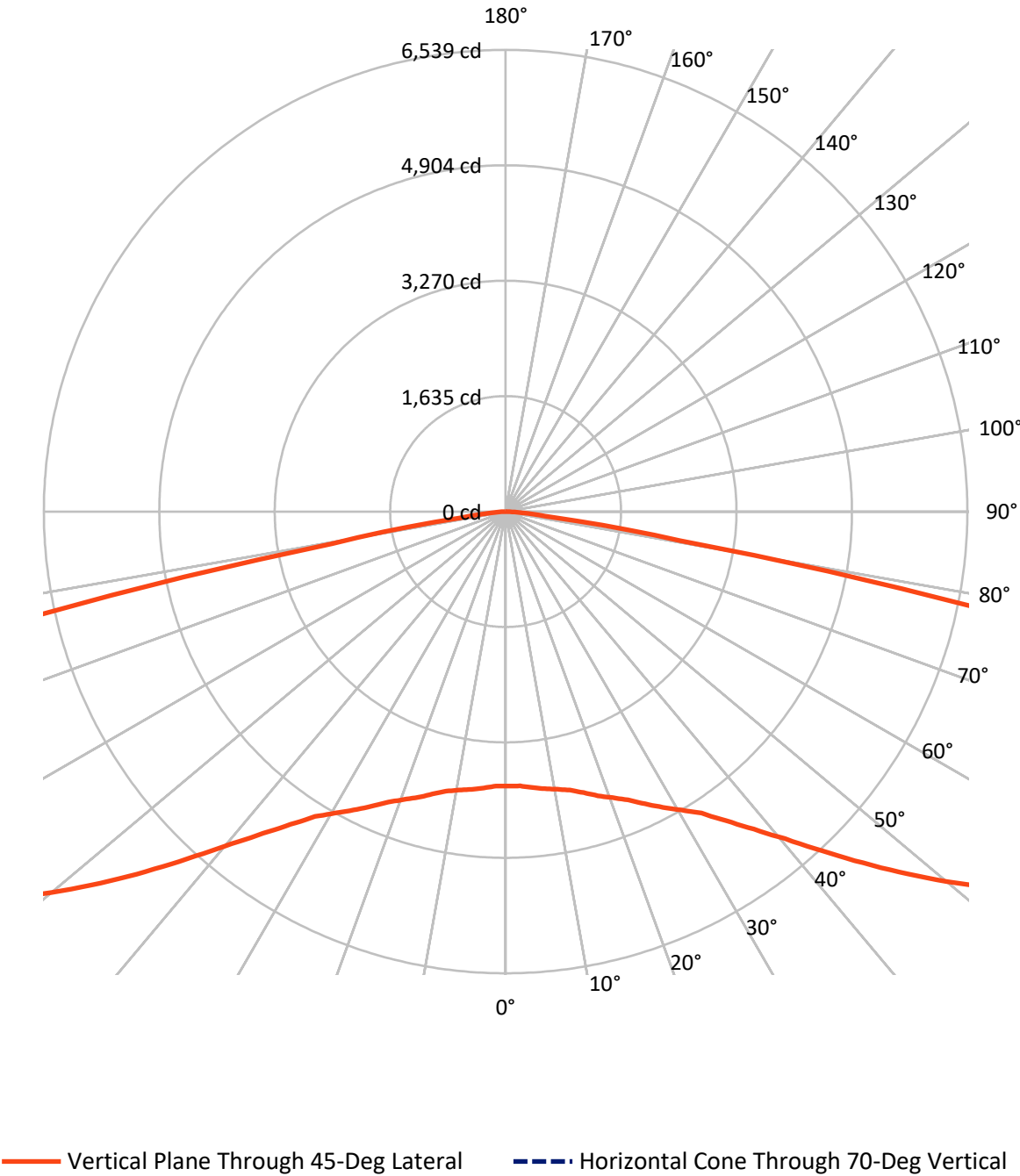
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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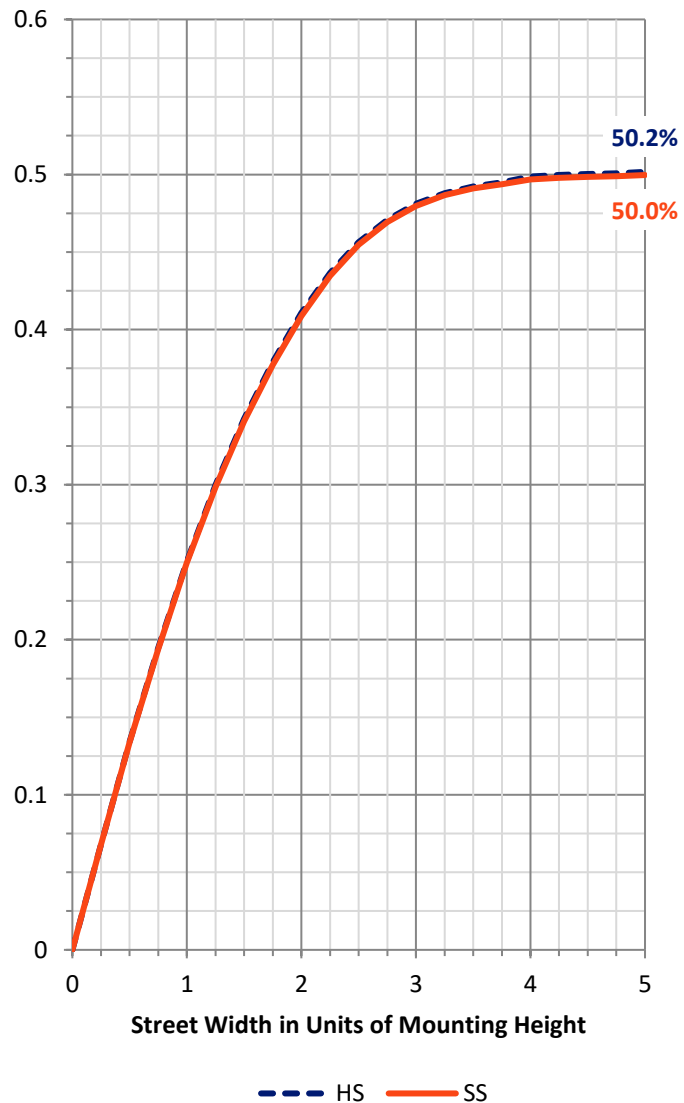
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20303.2	0.0	20303.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20303.2	0.0	20303.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	40606.4	0.0	40606.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.9	0.9
10°-20°	1171.8	2.9
20°-30°	2094.1	5.2
30°-40°	3394.5	8.4
40°-50°	5529.1	13.6
50°-60°	8429.9	20.8
60°-70°	12541.1	30.9
70°-80°	6835.3	16.8
80°-90°	232.8	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°	40606.4	100.0
0°-180°	40606.4	100.0

Coefficient of Utilization



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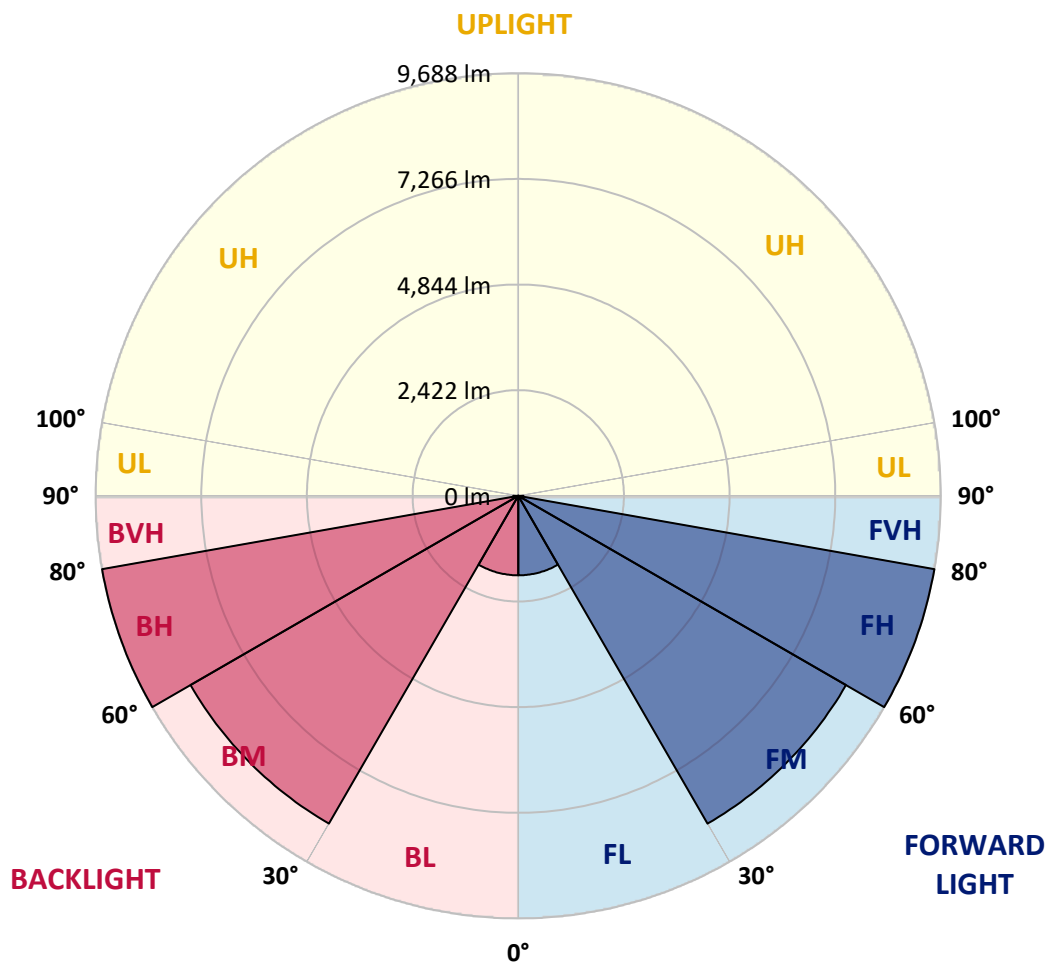
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1821.9	4.5			
FM	(30°-60°)	8676.7	21.4			
FH	(60°-80°)	9688.2	23.9			G4/12000
FVH	(80°-90°)	116.4	0.3			G2/225
BL	(0°-30°)	1821.9	4.5	B3/2500		
BM	(30°-60°)	8676.7	21.4	B5		
BH	(60°-80°)	9688.2	23.9	B5		G4/12000
BVH	(80°-90°)	116.4	0.3			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°	3889.7	3889.7	3889.7	3889.7	3889.7	3889.7	3889.7	3889.7	3889.7	3889.7	3889.7
2.5°	3908.0	3912.1	3903.9	3899.8	3895.8	3889.7	3891.7	3901.9	3910.1	3908.0	3910.1
5°	3940.6	3944.7	3938.6	3936.5	3928.4	3926.4	3926.4	3936.5	3942.7	3938.6	3940.6
7.5°	3977.3	3983.5	3973.2	3971.3	3967.2	3963.1	3961.0	3971.3	3977.3	3977.3	3977.3
10°	4012.0	4018.1	4009.9	4003.9	3999.8	3999.8	3995.7	4003.9	4014.0	4012.0	4012.0
12.5°	4048.6	4052.7	4044.6	4040.6	4040.6	4046.6	4040.6	4044.6	4052.7	4048.6	4046.6
15°	4093.5	4095.6	4093.5	4099.7	4109.8	4130.2	4111.9	4107.8	4111.9	4101.6	4101.6
17.5°	4154.7	4158.7	4166.9	4181.2	4195.4	4232.1	4199.5	4189.4	4189.4	4169.0	4169.0
20°	4230.1	4236.2	4248.4	4272.9	4291.3	4325.9	4293.3	4279.1	4272.9	4246.5	4246.5
22.5°	4309.6	4319.9	4338.2	4370.8	4403.4	4436.0	4403.4	4378.9	4360.6	4325.9	4323.9
25°	4401.3	4413.5	4442.1	4495.1	4540.0	4586.9	4548.1	4499.2	4462.5	4413.5	4411.6
27.5°	4531.8	4546.1	4580.7	4646.0	4703.1	4743.8	4707.1	4644.0	4593.0	4533.9	4531.8
30°	4715.3	4729.6	4770.3	4839.6	4878.4	4904.9	4880.4	4831.5	4770.3	4703.1	4703.1
32.5°	4951.8	4970.1	5015.0	5080.2	5088.4	5092.4	5084.3	5059.8	5015.0	4933.4	4935.5
35°	5251.5	5271.9	5322.8	5375.8	5367.6	5375.8	5363.6	5355.4	5322.8	5229.0	5229.0
37.5°	5618.4	5642.8	5695.9	5736.6	5716.2	5706.1	5708.1	5710.2	5691.8	5587.8	5587.8
40°	6044.5	6077.1	6115.9	6158.6	6124.0	6093.4	6113.8	6130.1	6113.8	6007.8	6007.8
42.5°	6482.8	6529.7	6570.5	6631.6	6603.0	6564.3	6592.9	6611.2	6576.6	6462.4	6470.5
45°	6970.0	7014.9	7067.9	7159.6	7139.2	7098.4	7139.2	7143.3	7084.2	6949.6	6963.8
47.5°	7473.6	7520.4	7600.0	7722.2	7714.2	7669.3	7722.2	7693.8	7618.3	7457.3	7447.0
50°	7950.6	8015.8	8138.2	8309.4	8325.7	8270.6	8342.0	8286.9	8160.5	7958.7	7954.7
52.5°	8399.1	8468.4	8662.1	8894.4	8953.6	8882.2	8978.1	8882.2	8692.6	8433.7	8409.3
55°	8870.0	8947.4	9177.8	9481.6	9599.8	9546.8	9636.5	9491.8	9222.6	8908.8	8865.9
57.5°	9424.5	9471.4	9746.6	10107.4	10307.2	10319.5	10360.2	10115.6	9789.5	9432.7	9383.8
60°	10025.9	10091.1	10390.8	10823.0	11139.0	11240.9	11198.1	10835.3	10456.0	10046.3	9981.0
62.5°	10796.5	10867.9	11226.6	11744.4	12243.9	12496.7	12329.5	11803.6	11334.7	10843.4	10757.8
65°	11434.6	11514.1	12162.3	13085.9	13995.0	14502.7	14082.8	13114.4	12270.4	11577.3	11463.1
67.5°	10971.8	11069.7	12086.9	13783.1	16043.9	17558.6	16121.3	13991.0	12337.7	11397.9	11257.3
70°	9589.6	9681.3	10867.9	12941.1	16620.8	19939.6	16967.3	13322.3	10906.6	9854.7	9714.0
72.5°	6366.6	6662.2	7863.0	10350.0	14841.1	18451.4	14987.9	10140.0	7294.1	6352.3	6146.4
75°	2112.0	2348.5	3168.0	5365.7	9940.2	13799.4	9463.2	4747.9	2509.5	1806.3	1708.4
77.5°	532.1	613.7	846.0	1535.0	3965.1	7856.8	3569.6	1253.8	683.0	477.0	426.1
80°	258.9	285.4	407.7	511.7	992.8	2497.3	931.6	481.1	322.1	248.7	228.4
82.5°	142.7	144.7	230.3	289.5	369.0	646.3	383.2	281.4	185.5	150.9	150.9
85°	87.6	85.6	122.3	155.0	155.0	230.3	183.5	155.0	106.0	93.8	97.9
87.5°	34.6	34.6	44.9	48.9	42.8	59.1	46.8	50.9	40.8	38.7	40.8
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)