

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: P967340

Luminaire Tested: **NAV-SB4D-830-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967340
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-830-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39337.5 lumens
Efficiency: N/A
Efficacy: 134.0 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



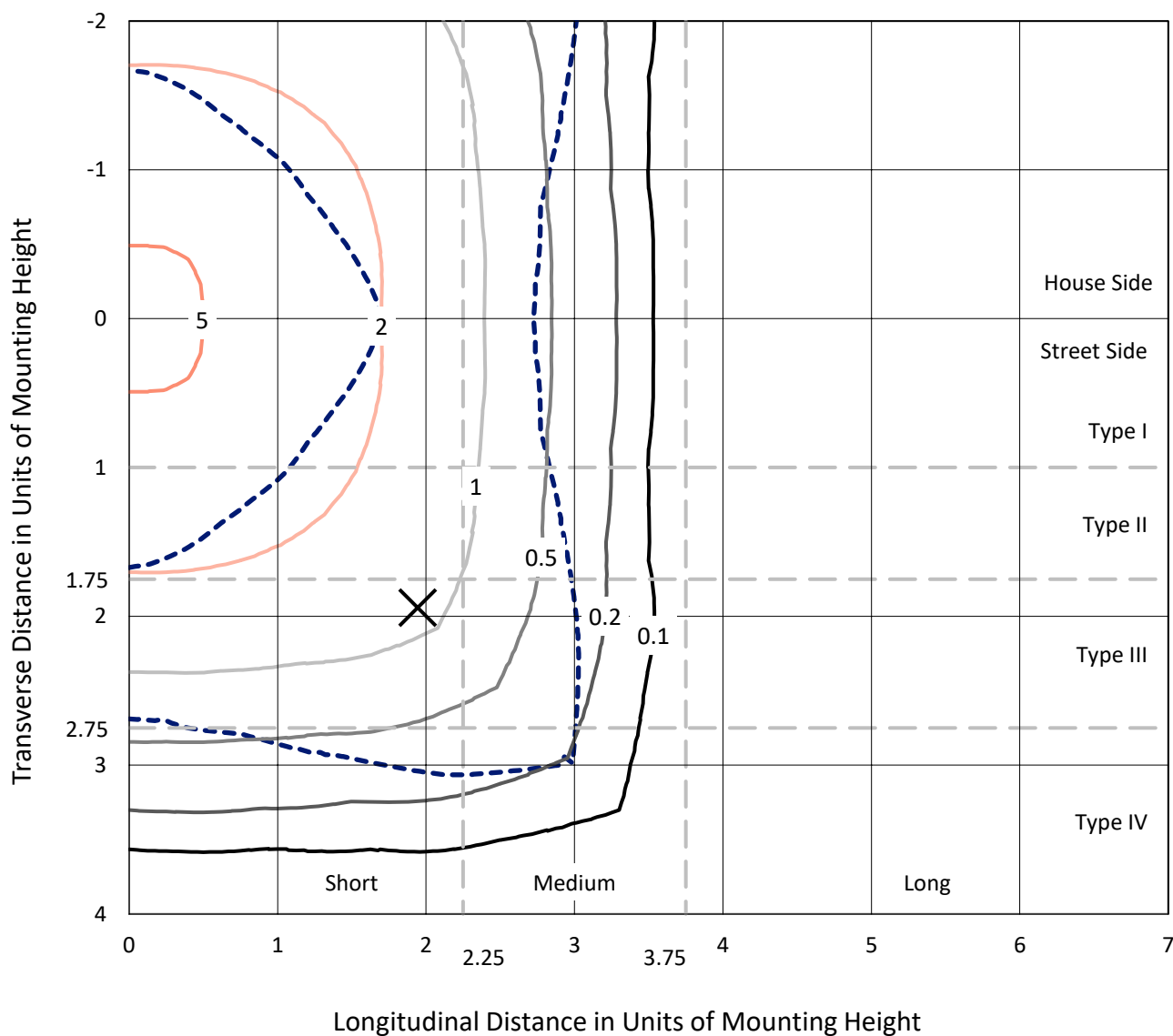
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

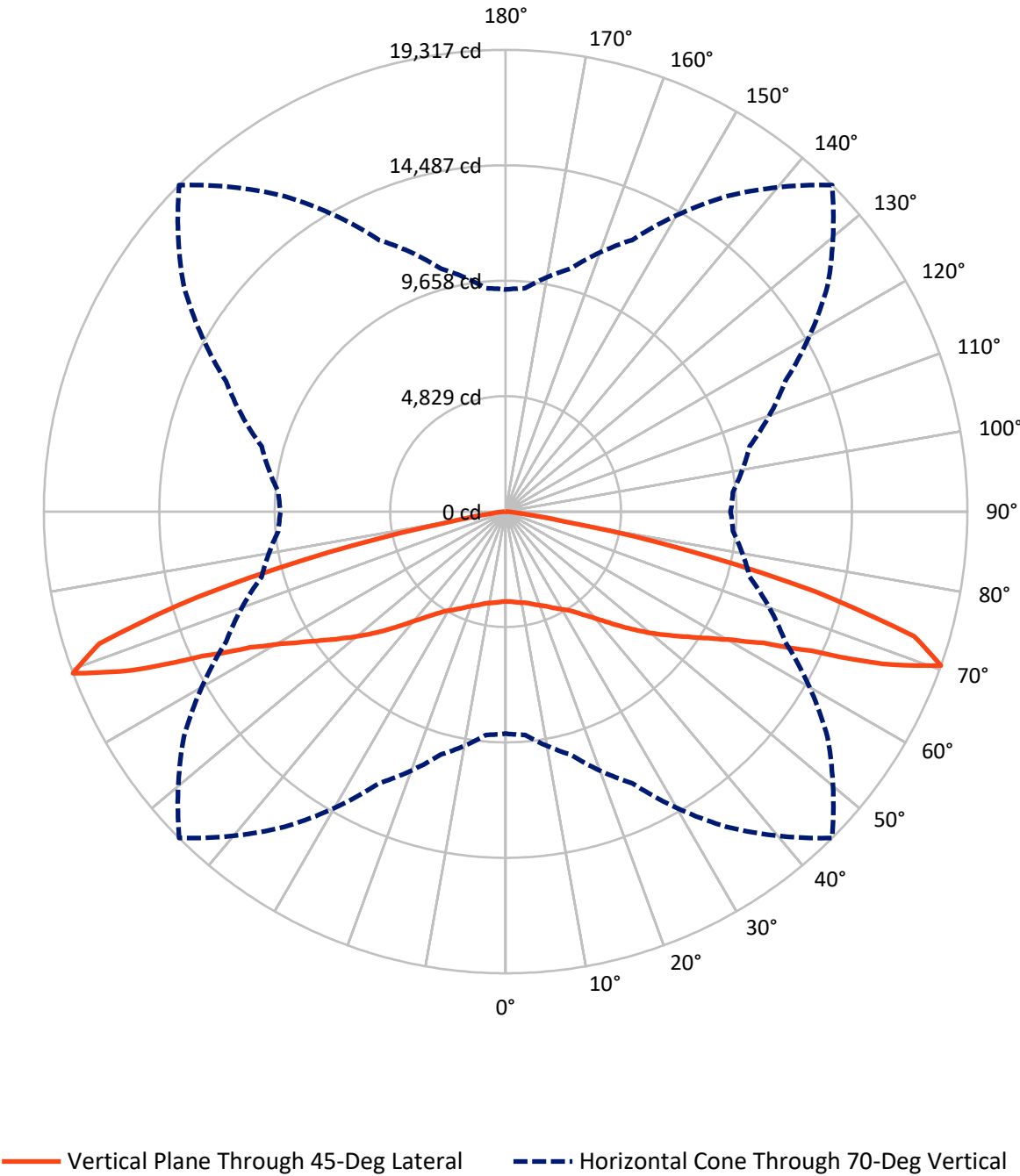


Based on 25 foot mounting height. Maximum calculated value = 6 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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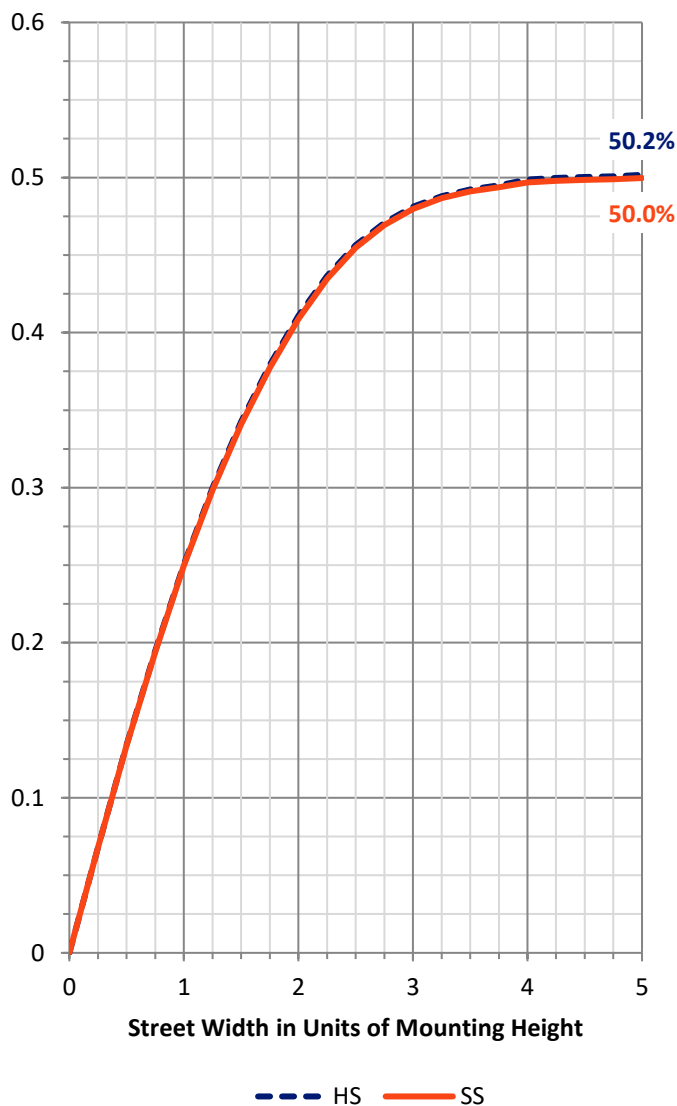
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19668.7	0.0	19668.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19668.7	0.0	19668.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	39337.5	0.0	39337.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.1	0.9
10°-20°	1135.2	2.9
20°-30°	2028.6	5.2
30°-40°	3288.4	8.4
40°-50°	5356.3	13.6
50°-60°	8166.5	20.8
60°-70°	12149.2	30.9
70°-80°	6621.7	16.8
80°-90°	225.5	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°	39337.5	100.0
0°-180°	39337.5	100.0

Coefficient of Utilization



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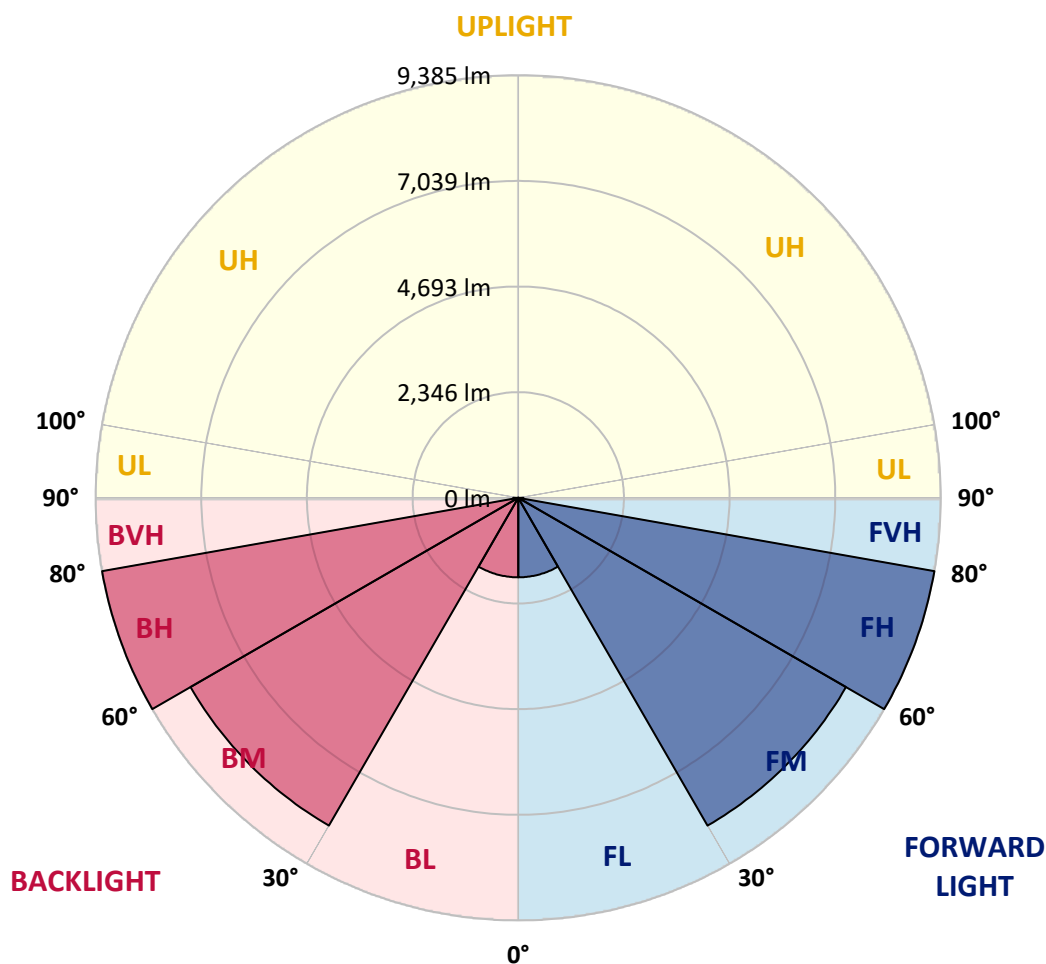
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1764.9	4.5			
FM	(30°-60°)	8405.6	21.4			
FH	(60°-80°)	9385.4	23.9			G4/12000
FVH	(80°-90°)	112.7	0.3			G2/225
BL	(0°-30°)	1764.9	4.5	B3/2500		
BM	(30°-60°)	8405.6	21.4	B4/8500		
BH	(60°-80°)	9385.4	23.9	B5		G4/12000
BVH	(80°-90°)	112.7	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°	3768.1	3768.1	3768.1	3768.1	3768.1	3768.1	3768.1	3768.1	3768.1	3768.1	3768.1
2.5°	3785.9	3789.8	3781.9	3777.9	3774.0	3768.1	3770.1	3780.0	3787.9	3785.9	3787.9
5°	3817.5	3821.4	3815.6	3813.5	3805.6	3803.7	3803.7	3813.5	3819.5	3815.6	3817.5
7.5°	3853.1	3858.9	3849.1	3847.1	3843.1	3839.2	3837.3	3847.1	3853.1	3853.1	3853.1
10°	3886.6	3892.5	3884.6	3878.7	3874.8	3874.8	3870.8	3878.7	3888.5	3886.6	3886.6
12.5°	3922.2	3926.2	3918.2	3914.3	3914.3	3920.2	3914.3	3918.2	3926.2	3922.2	3920.2
15°	3965.6	3967.6	3965.6	3971.6	3981.4	4001.2	3983.4	3979.5	3983.4	3973.5	3973.5
17.5°	4024.9	4028.8	4036.8	4050.5	4064.3	4099.9	4068.3	4058.4	4058.4	4038.7	4038.7
20°	4098.0	4103.9	4115.7	4139.4	4157.2	4190.7	4159.1	4145.3	4139.4	4113.7	4113.7
22.5°	4174.9	4184.9	4202.6	4234.2	4265.8	4297.4	4265.8	4242.1	4224.3	4190.7	4188.8
25°	4263.8	4275.7	4303.4	4354.7	4398.1	4443.6	4406.1	4358.6	4323.0	4275.7	4273.7
27.5°	4390.2	4404.0	4437.6	4500.8	4556.1	4595.6	4560.0	4498.8	4449.4	4392.2	4390.2
30°	4567.9	4581.8	4621.3	4688.5	4726.0	4751.6	4727.9	4680.6	4621.3	4556.1	4556.1
32.5°	4797.0	4814.8	4858.3	4921.4	4929.3	4933.3	4925.4	4901.8	4858.3	4779.3	4781.2
35°	5087.4	5107.1	5156.5	5207.8	5199.9	5207.8	5195.9	5188.0	5156.5	5065.7	5065.7
37.5°	5442.9	5466.5	5517.9	5557.3	5537.7	5527.7	5529.8	5531.7	5514.0	5413.2	5413.2
40°	5855.6	5887.2	5924.7	5966.2	5932.6	5903.0	5922.8	5938.5	5922.8	5820.1	5820.1
42.5°	6280.2	6325.6	6365.1	6424.4	6396.7	6359.2	6386.9	6404.6	6371.1	6260.5	6268.4
45°	6752.2	6795.6	6847.0	6935.9	6916.1	6876.6	6916.1	6920.1	6862.8	6732.4	6746.2
47.5°	7240.0	7285.4	7362.5	7481.0	7473.1	7429.6	7481.0	7453.3	7380.2	7224.2	7214.4
50°	7702.2	7765.3	7883.8	8049.7	8065.5	8012.2	8081.3	8028.0	7905.5	7710.0	7706.1
52.5°	8136.7	8203.8	8391.4	8616.6	8673.8	8604.7	8697.5	8604.7	8421.0	8170.2	8146.5
55°	8592.8	8667.9	8891.1	9185.3	9299.8	9248.5	9335.4	9195.2	8934.5	8630.3	8588.9
57.5°	9130.0	9175.4	9442.0	9791.6	9985.1	9996.9	10036.5	9799.5	9483.5	9137.9	9090.5
60°	9712.6	9775.8	10066.1	10484.7	10790.9	10889.6	10848.2	10496.6	10129.3	9732.4	9669.1
62.5°	10459.1	10528.2	10875.8	11377.4	11861.3	12106.2	11944.2	11434.7	10980.5	10504.5	10421.6
65°	11077.3	11154.3	11782.3	12676.9	13557.8	14049.5	13642.6	12704.6	11886.9	11215.4	11104.8
67.5°	10628.9	10723.8	11709.2	13352.4	15542.5	17009.9	15617.5	13553.8	11952.1	11041.7	10905.4
70°	9290.0	9378.9	10528.2	12536.7	16101.4	19316.5	16437.1	12906.0	10565.7	9546.6	9410.4
72.5°	6167.6	6454.0	7617.2	10026.6	14377.3	17874.9	14519.5	9823.2	7066.2	6153.8	5954.3
75°	2046.0	2275.1	3069.1	5198.0	9629.7	13368.2	9167.5	4599.6	2431.1	1749.8	1655.0
77.5°	515.5	594.4	819.6	1487.1	3841.2	7611.2	3458.0	1214.5	661.6	462.2	412.8
80°	250.8	276.4	394.9	495.7	961.8	2419.3	902.5	466.1	312.0	241.0	221.2
82.5°	138.3	140.2	223.1	280.4	357.4	626.1	371.3	272.5	179.7	146.2	146.2
85°	84.9	82.9	118.5	150.1	150.1	223.1	177.7	150.1	102.7	90.8	94.8
87.5°	33.6	33.6	43.5	47.4	41.5	57.3	45.4	49.4	39.5	37.5	39.5
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)