

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: P970471

Luminaire Tested: **NAV-SB6B-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970471
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-SB6B-827-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31873.4 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 220.4
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

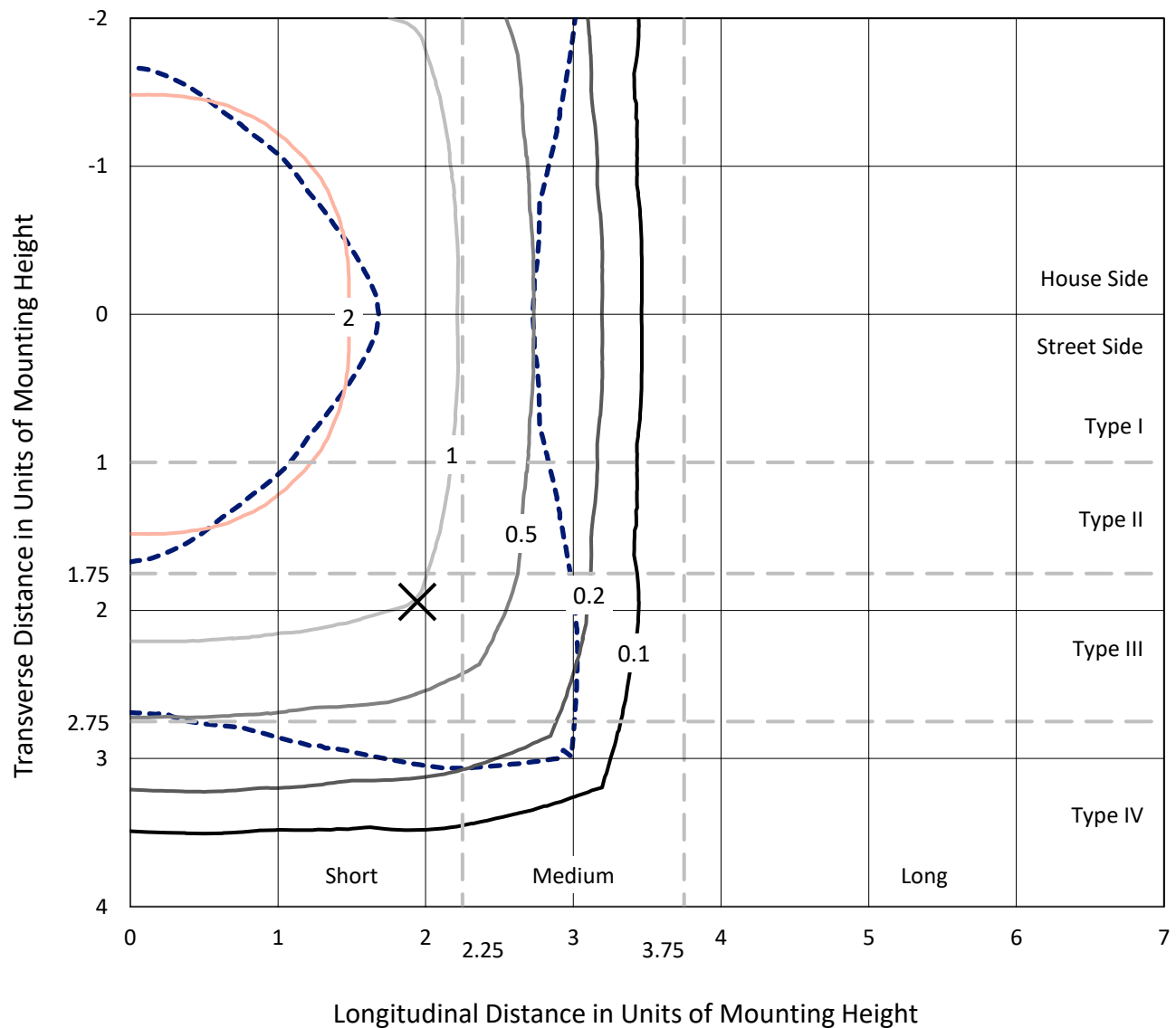


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Iso-Footcandle Lines of Horizontal Illumination

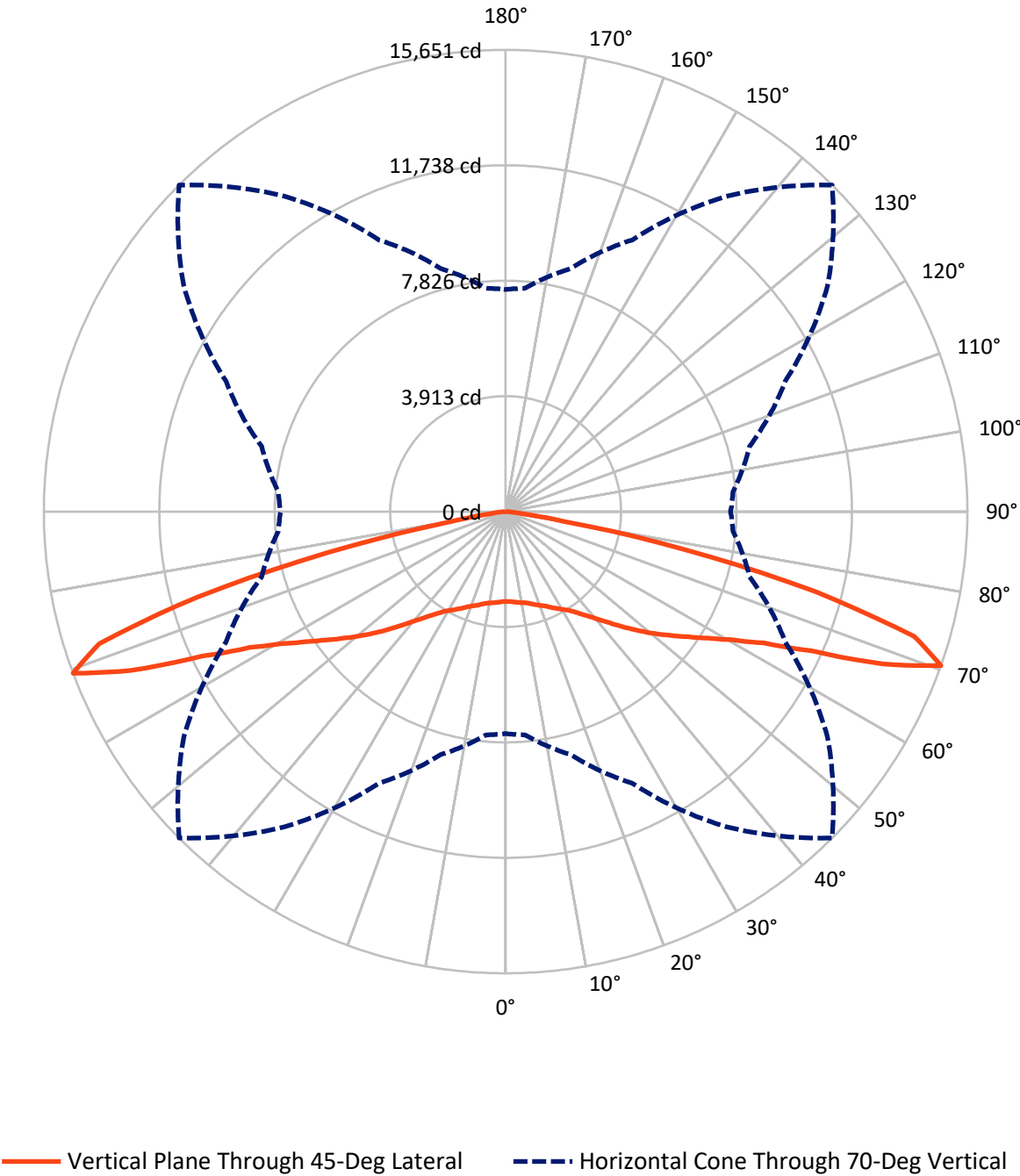
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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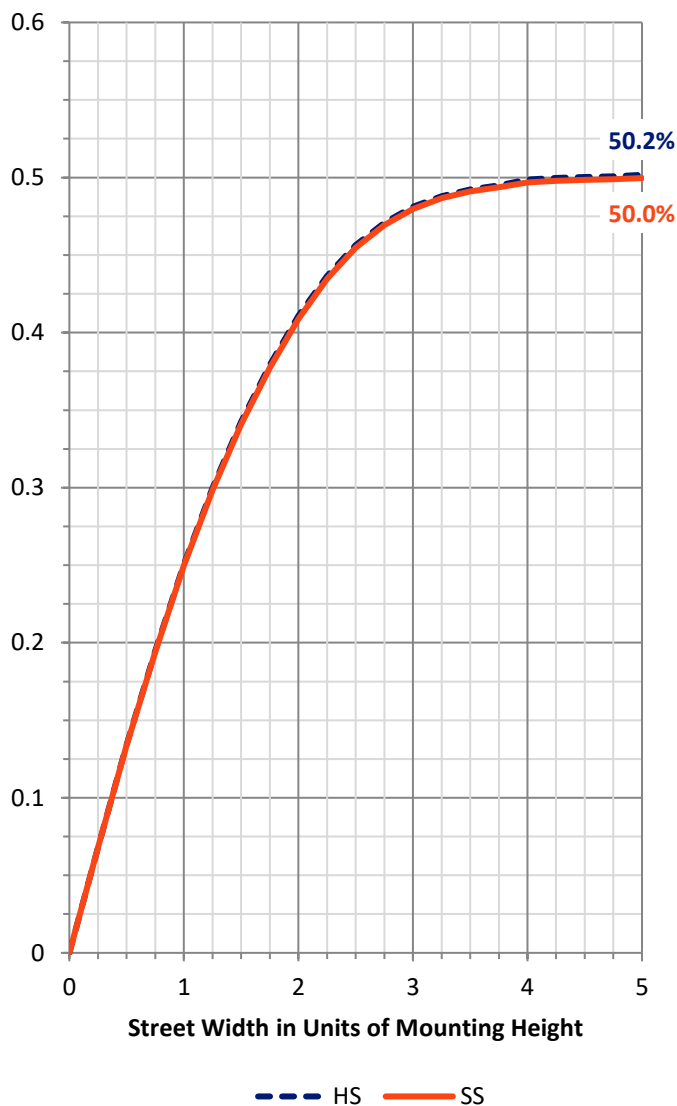
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15936.7	0.0	15936.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15936.7	0.0	15936.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	31873.4	0.0	31873.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.6	0.9
10°-20°	919.8	2.9
20°-30°	1643.7	5.2
30°-40°	2664.5	8.4
40°-50°	4340.0	13.6
50°-60°	6617.0	20.8
60°-70°	9843.9	30.9
70°-80°	5365.3	16.8
80°-90°	182.7	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°	31873.4	100.0
0°-180°	31873.4	100.0

Coefficient of Utilization



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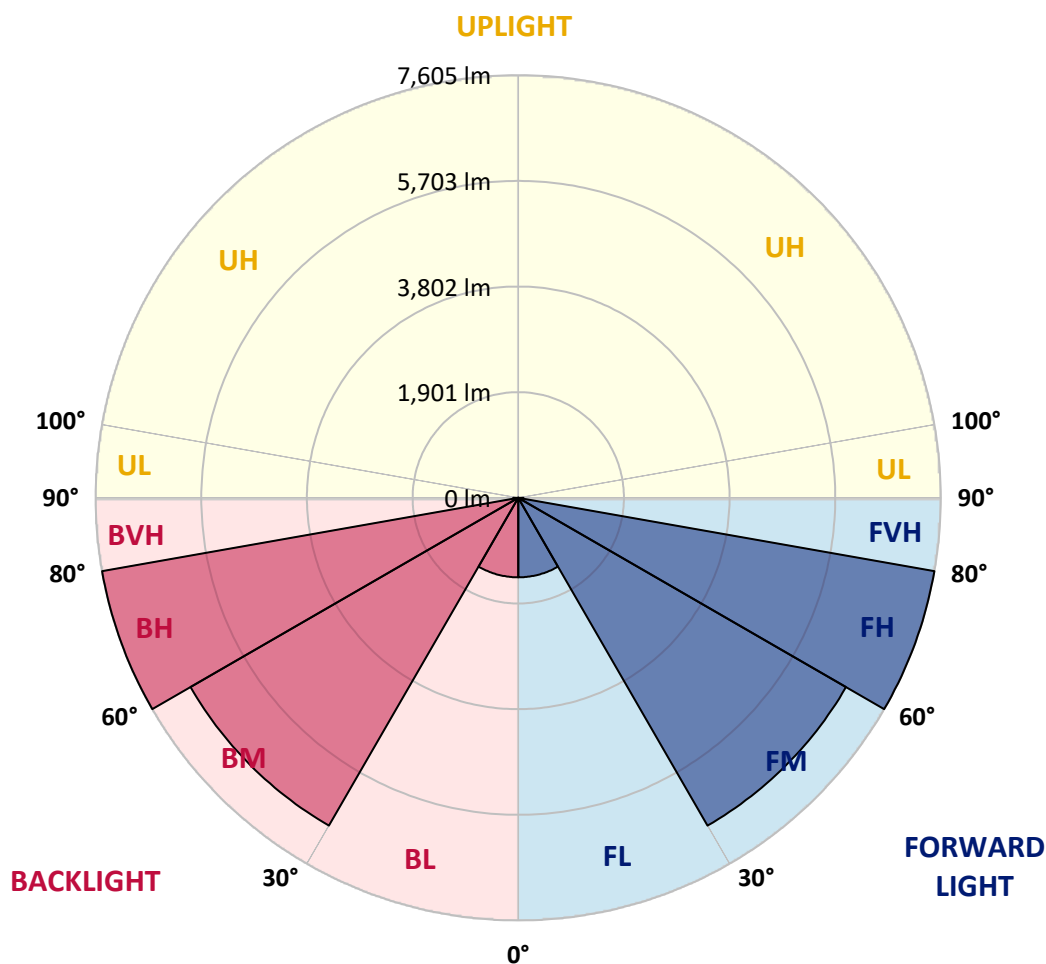
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1430.0	4.5			
FM	(30°-60°)	6810.7	21.4			
FH	(60°-80°)	7604.6	23.9			G4/12000
FVH	(80°-90°)	91.4	0.3			G1/100
BL	(0°-30°)	1430.0	4.5	B3/2500		
BM	(30°-60°)	6810.7	21.4	B4/8500		
BH	(60°-80°)	7604.6	23.9	B5		G4/12000
BVH	(80°-90°)	91.4	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°	3053.2	3053.2	3053.2	3053.2	3053.2	3053.2	3053.2	3053.2	3053.2	3053.2	3053.2
2.5°	3067.5	3070.7	3064.3	3061.2	3058.0	3053.2	3054.7	3062.7	3069.2	3067.5	3069.2
5°	3093.1	3096.3	3091.5	3090.0	3083.5	3082.0	3082.0	3090.0	3094.8	3091.5	3093.1
7.5°	3121.9	3126.8	3118.8	3117.1	3114.0	3110.8	3109.1	3117.1	3121.9	3121.9	3121.9
10°	3149.1	3153.9	3147.6	3142.8	3139.6	3139.6	3136.4	3142.8	3150.7	3149.1	3149.1
12.5°	3177.9	3181.2	3174.7	3171.6	3171.6	3176.4	3171.6	3174.7	3181.2	3177.9	3176.4
15°	3213.2	3214.8	3213.2	3218.0	3226.0	3242.0	3227.5	3224.3	3227.5	3219.5	3219.5
17.5°	3261.1	3264.3	3270.8	3281.9	3293.1	3321.9	3296.4	3288.4	3288.4	3272.4	3272.4
20°	3320.4	3325.2	3334.7	3354.0	3368.4	3395.6	3370.0	3358.8	3354.0	3333.2	3333.2
22.5°	3382.8	3390.8	3405.2	3430.8	3456.4	3482.0	3456.4	3437.2	3422.8	3395.6	3394.0
25°	3454.8	3464.4	3486.7	3528.4	3563.6	3600.4	3570.0	3531.6	3502.8	3464.4	3462.8
27.5°	3557.2	3568.4	3595.6	3646.8	3691.6	3723.6	3694.8	3645.2	3605.2	3558.8	3557.2
30°	3701.2	3712.4	3744.4	3798.9	3829.2	3850.0	3830.8	3792.4	3744.4	3691.6	3691.6
32.5°	3886.8	3901.3	3936.4	3987.7	3994.0	3997.3	3990.8	3971.7	3936.4	3872.4	3874.0
35°	4122.0	4138.0	4178.1	4219.7	4213.3	4219.7	4210.1	4203.6	4178.1	4104.5	4104.5
37.5°	4410.1	4429.3	4470.9	4502.9	4486.9	4478.9	4480.5	4482.1	4467.7	4386.1	4386.1
40°	4744.5	4770.1	4800.6	4834.1	4806.9	4783.0	4798.9	4811.8	4798.9	4715.7	4715.7
42.5°	5088.6	5125.4	5157.4	5205.4	5183.0	5152.6	5175.0	5189.4	5162.2	5072.5	5079.0
45°	5471.0	5506.2	5547.8	5619.9	5603.8	5571.8	5603.8	5607.1	5560.6	5455.0	5466.2
47.5°	5866.3	5903.1	5965.5	6061.4	6055.1	6019.8	6061.4	6039.1	5979.8	5853.5	5845.5
50°	6240.7	6291.9	6387.9	6522.3	6535.1	6491.9	6547.9	6504.8	6405.5	6247.1	6243.9
52.5°	6592.7	6647.1	6799.1	6981.6	7028.0	6971.9	7047.2	6971.9	6823.1	6620.0	6600.7
55°	6962.4	7023.2	7204.0	7442.4	7535.3	7493.7	7564.1	7450.4	7239.2	6992.8	6959.1
57.5°	7397.6	7434.4	7650.5	7933.7	8090.5	8100.1	8132.1	7940.1	7684.0	7404.0	7365.6
60°	7869.6	7920.9	8156.1	8495.3	8743.4	8823.4	8789.8	8504.9	8207.3	7885.6	7834.5
62.5°	8474.6	8530.6	8812.2	9218.6	9610.7	9809.1	9677.8	9265.1	8897.0	8511.4	8444.2
65°	8975.4	9037.8	9546.6	10271.5	10985.2	11383.6	11054.0	10294.0	9631.5	9087.4	8997.8
67.5°	8612.2	8688.9	9487.5	10818.8	12593.5	13782.4	12654.2	10982.1	9684.3	8946.6	8836.2
70°	7527.3	7599.2	8530.6	10158.0	13046.3	15651.3	13318.3	10457.2	8561.0	7735.3	7624.9
72.5°	4997.4	5229.3	6171.9	8124.2	11649.3	14483.2	11764.5	7959.3	5725.4	4986.1	4824.6
75°	1657.8	1843.4	2486.6	4211.6	7802.5	10831.6	7428.1	3726.8	1969.8	1417.8	1340.9
77.5°	417.7	481.6	664.1	1204.9	3112.3	6167.1	2801.9	984.1	536.1	374.4	334.5
80°	203.3	224.1	320.0	401.6	779.3	1960.2	731.2	377.6	252.9	195.3	179.2
82.5°	112.0	113.6	180.8	227.2	289.7	507.3	300.8	220.8	145.7	118.4	118.4
85°	68.8	67.2	96.0	121.6	121.6	180.8	144.0	121.6	83.2	73.6	76.8
87.5°	27.2	27.2	35.2	38.4	33.6	46.4	36.8	40.0	32.0	30.4	32.0
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)