

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: P965635

Luminaire Tested: **NAV-SB4A-740-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965635
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-SB4A-740-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20417 lumens
Efficiency: N/A
Efficacy: 179.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

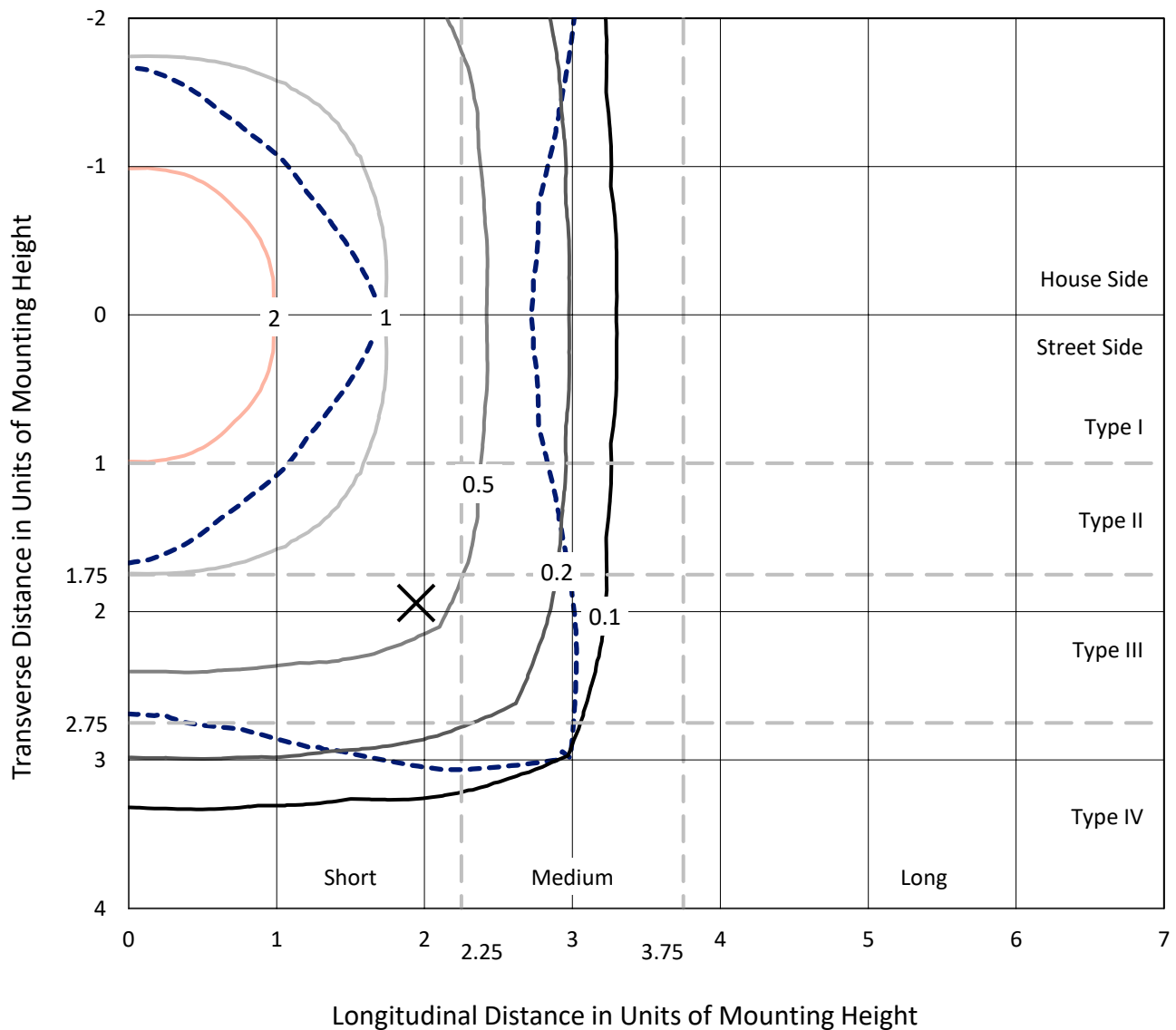
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P965635
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Iso-Footcandle Lines of Horizontal Illumination

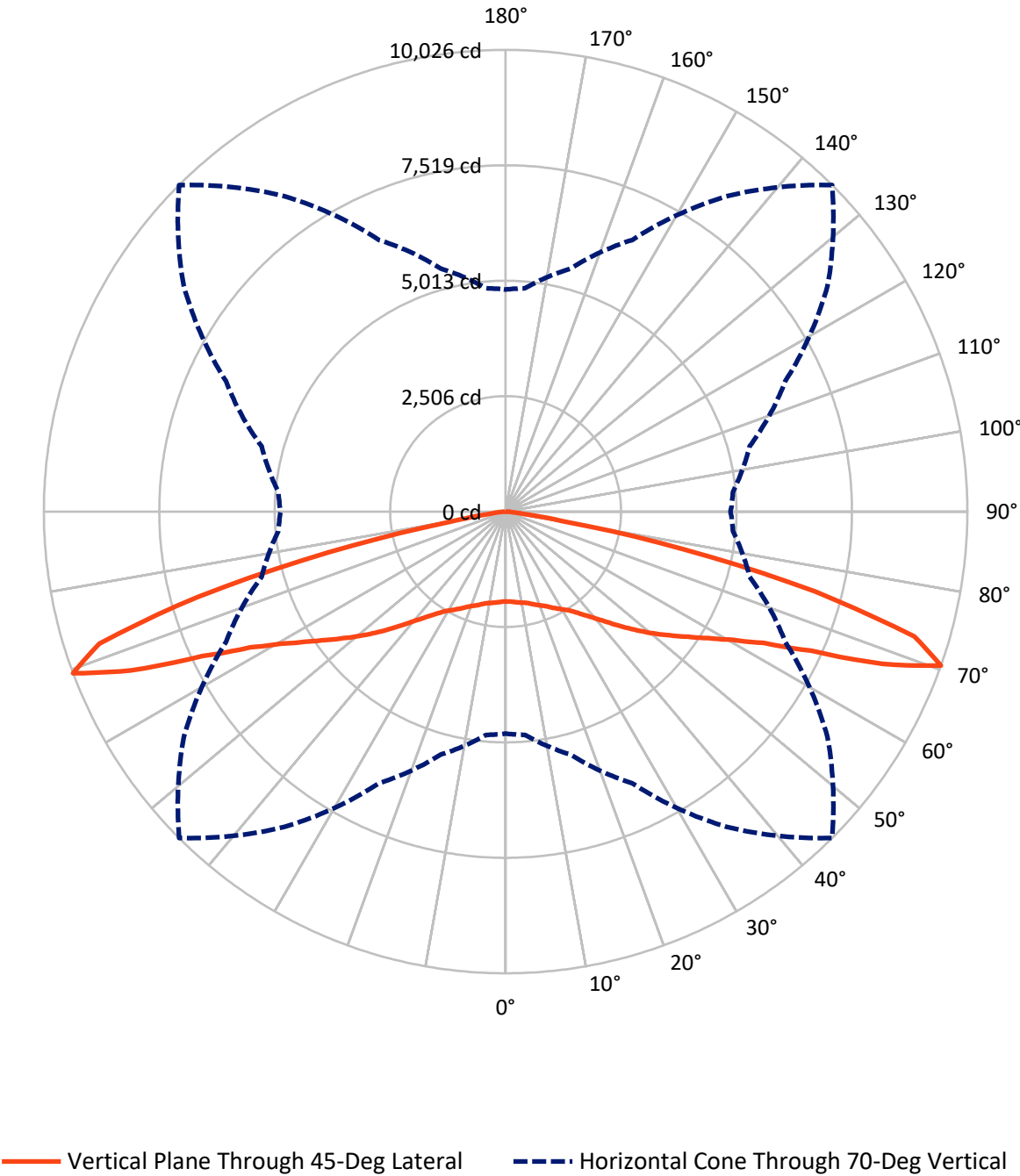
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - N/A

REPORT NUMBER: P965635
CATALOG NUMBER: NAV-SB4A-740-U-5MQ

Luminous Intensity Polar Plot



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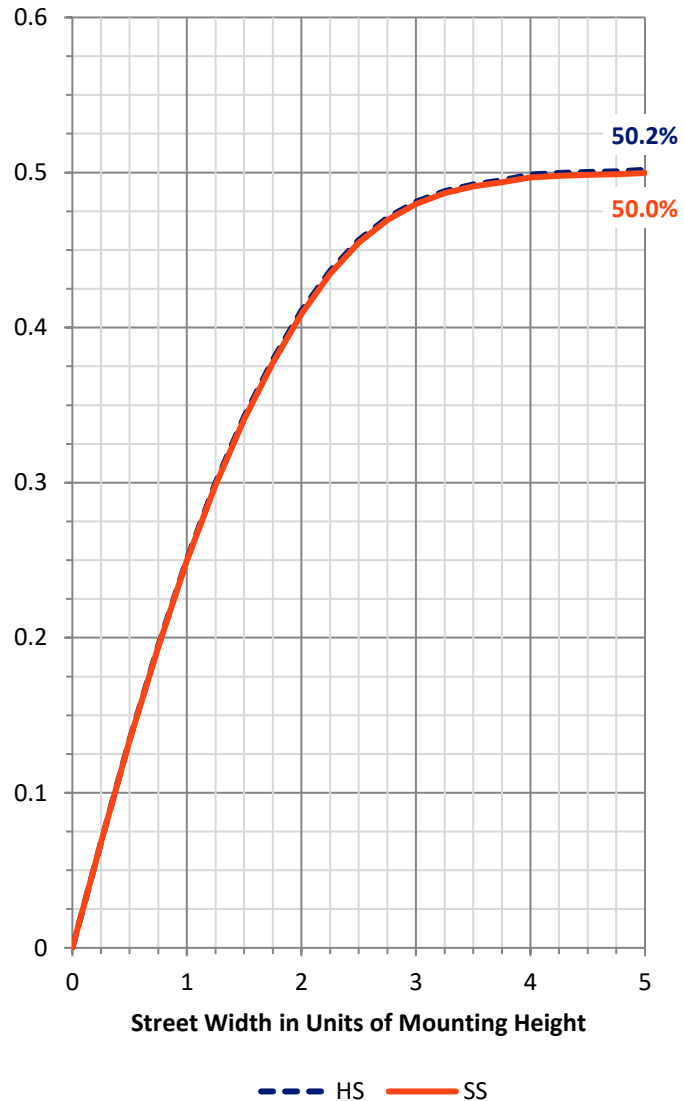
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10208.5	0.0	10208.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10208.5	0.0	10208.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20417.0	0.0	20417.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.0	0.9
10°-20°	589.2	2.9
20°-30°	1052.9	5.2
30°-40°	1706.7	8.4
40°-50°	2780.1	13.6
50°-60°	4238.6	20.8
60°-70°	6305.7	30.9
70°-80°	3436.8	16.8
80°-90°	117.0	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°	20417.0	100.0
0°-180°	20417.0	100.0

Coefficient of Utilization



REPORT NUMBER: P965635

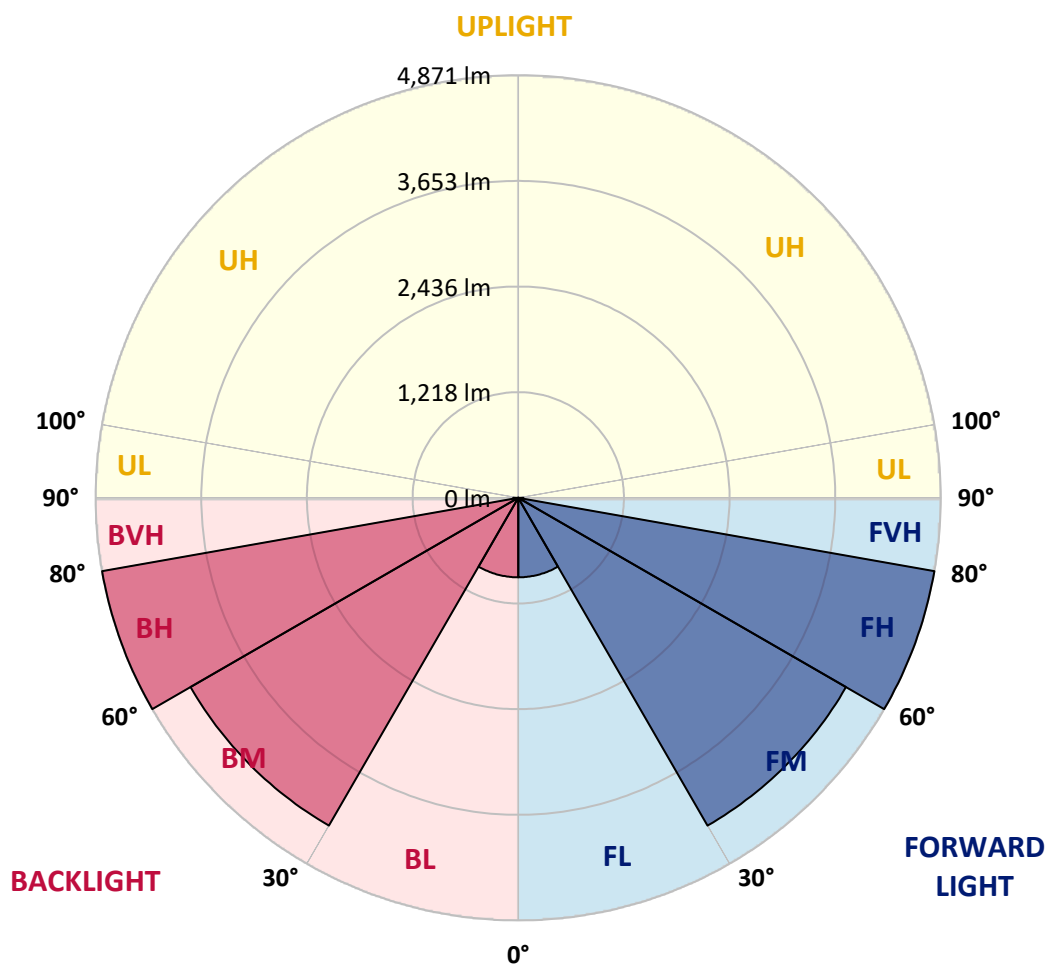
CATALOG NUMBER: NAV-SB4A-740-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	916.0	4.5			
FM	(30°-60°)	4362.7	21.4			
FH	(60°-80°)	4871.2	23.9			G2/5000
FVH	(80°-90°)	58.5	0.3			G1/100
BL	(0°-30°)	916.0	4.5	B2/1000		
BM	(30°-60°)	4362.7	21.4	B3/5000		
BH	(60°-80°)	4871.2	23.9	B4/5000		G2/5000
BVH	(80°-90°)	58.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



REPORT NUMBER: P965635

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1955.7	1955.7	1955.7	1955.7	1955.7	1955.7	1955.7	1955.7	1955.7	1955.7	1955.7
2.5°	1964.9	1967.0	1962.9	1960.8	1958.8	1955.7	1956.7	1961.8	1966.0	1964.9	1966.0
5°	1981.3	1983.4	1980.3	1979.3	1975.2	1974.2	1974.2	1979.3	1982.4	1980.3	1981.3
7.5°	1999.8	2002.8	1997.7	1996.7	1994.6	1992.6	1991.6	1996.7	1999.8	1999.8	1999.8
10°	2017.2	2020.3	2016.2	2013.1	2011.0	2011.0	2009.0	2013.1	2018.2	2017.2	2017.2
12.5°	2035.6	2037.7	2033.6	2031.5	2031.5	2034.6	2031.5	2033.6	2037.7	2035.6	2034.6
15°	2058.2	2059.2	2058.2	2061.3	2066.4	2076.6	2067.4	2065.4	2067.4	2062.3	2062.3
17.5°	2089.0	2091.0	2095.1	2102.3	2109.4	2127.9	2111.5	2106.4	2106.4	2096.1	2096.1
20°	2126.9	2130.0	2136.1	2148.4	2157.6	2175.0	2158.6	2151.5	2148.4	2135.1	2135.1
22.5°	2166.8	2172.0	2181.2	2197.6	2214.0	2230.4	2214.0	2201.7	2192.5	2175.0	2174.0
25°	2213.0	2219.1	2233.5	2260.1	2282.7	2306.2	2286.8	2262.2	2243.7	2219.1	2218.1
27.5°	2278.6	2285.8	2303.2	2336.0	2364.7	2385.2	2366.7	2335.0	2309.3	2279.6	2278.6
30°	2370.8	2378.0	2398.5	2433.4	2452.8	2466.1	2453.8	2429.2	2398.5	2364.7	2364.7
32.5°	2489.7	2499.0	2521.5	2554.3	2558.4	2560.4	2556.4	2544.0	2521.5	2480.5	2481.5
35°	2640.4	2650.6	2676.3	2702.9	2698.8	2702.9	2696.8	2692.7	2676.3	2629.1	2629.1
37.5°	2824.9	2837.2	2863.8	2884.5	2874.2	2869.0	2870.0	2871.0	2861.8	2809.5	2809.5
40°	3039.2	3055.6	3075.1	3096.6	3079.2	3063.8	3074.1	3082.3	3074.1	3020.8	3020.8
42.5°	3259.6	3283.2	3303.7	3334.4	3320.1	3300.6	3315.0	3324.2	3306.8	3249.4	3253.5
45°	3504.6	3527.1	3553.8	3599.9	3589.7	3569.2	3589.7	3591.7	3562.0	3494.3	3501.5
47.5°	3757.8	3781.3	3821.3	3882.8	3878.7	3856.2	3882.8	3868.5	3830.5	3749.6	3744.4
50°	3997.6	4030.4	4091.9	4178.0	4186.2	4158.5	4194.4	4166.7	4103.2	4001.7	3999.7
52.5°	4223.1	4258.0	4355.3	4472.2	4501.9	4466.0	4514.2	4466.0	4370.7	4240.5	4228.2
55°	4459.9	4498.8	4614.7	4767.4	4826.8	4800.2	4845.3	4772.5	4637.2	4479.4	4457.8
57.5°	4738.7	4762.3	4900.6	5082.1	5182.5	5188.7	5209.2	5086.2	4922.2	4742.8	4718.2
60°	5041.1	5073.9	5224.5	5441.8	5600.7	5652.0	5630.4	5448.0	5257.3	5051.3	5018.5
62.5°	5428.5	5464.4	5644.8	5905.1	6156.3	6283.4	6199.3	5934.9	5699.1	5452.1	5409.0
65°	5749.3	5789.3	6115.3	6579.6	7036.7	7292.0	7080.8	6593.9	6169.6	5821.1	5763.7
67.5°	5516.7	5565.9	6077.3	6930.1	8066.9	8828.5	8105.8	7034.7	6203.4	5730.9	5660.2
70°	4821.7	4867.8	5464.4	6506.8	8356.9	10025.7	8531.2	6698.5	5483.9	4955.0	4884.2
72.5°	3201.2	3349.8	3953.5	5204.0	7462.1	9277.5	7535.9	5098.5	3667.6	3194.0	3090.5
75°	1061.9	1180.8	1592.8	2697.8	4998.0	6938.3	4758.2	2387.2	1261.8	908.2	859.0
77.5°	267.5	308.5	425.4	771.8	1993.6	3950.5	1794.8	630.4	343.4	239.8	214.2
80°	130.2	143.5	205.0	257.3	499.2	1255.6	468.4	241.9	162.0	125.0	114.8
82.5°	71.8	72.8	115.8	145.5	185.5	324.9	192.7	141.4	93.3	75.8	75.8
85°	44.1	43.0	61.5	77.9	77.9	115.8	92.2	77.9	53.3	47.2	49.2
87.5°	17.4	17.4	22.5	24.6	21.5	29.7	23.6	25.6	20.5	19.5	20.5
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)