

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: P962443

Luminaire Tested: **NAV-SB2C-735-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962443
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-735-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16086.3 lumens
Efficiency: N/A
Efficacy: 159.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

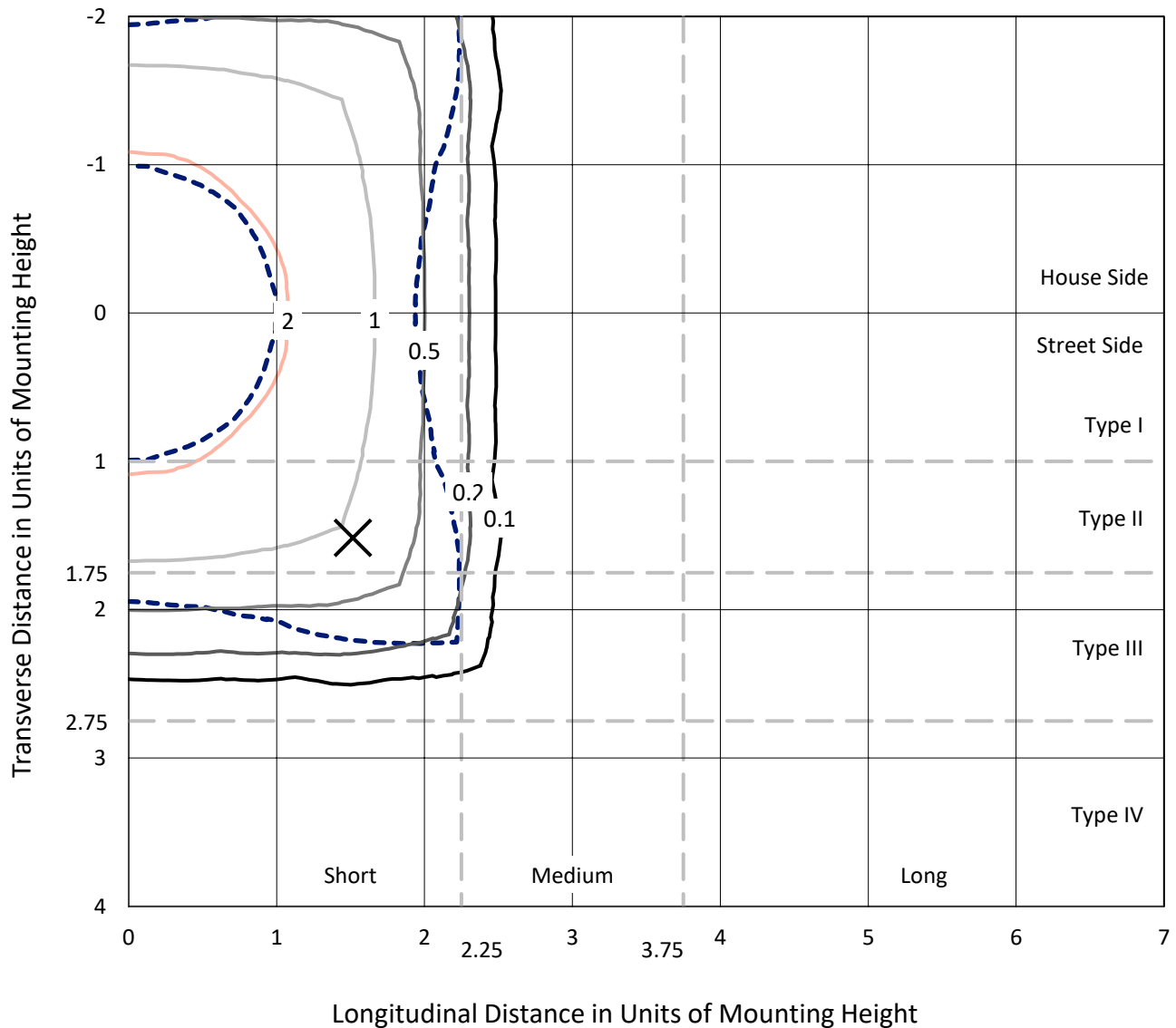
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P962443
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Iso-Footcandle Lines of Horizontal Illumination

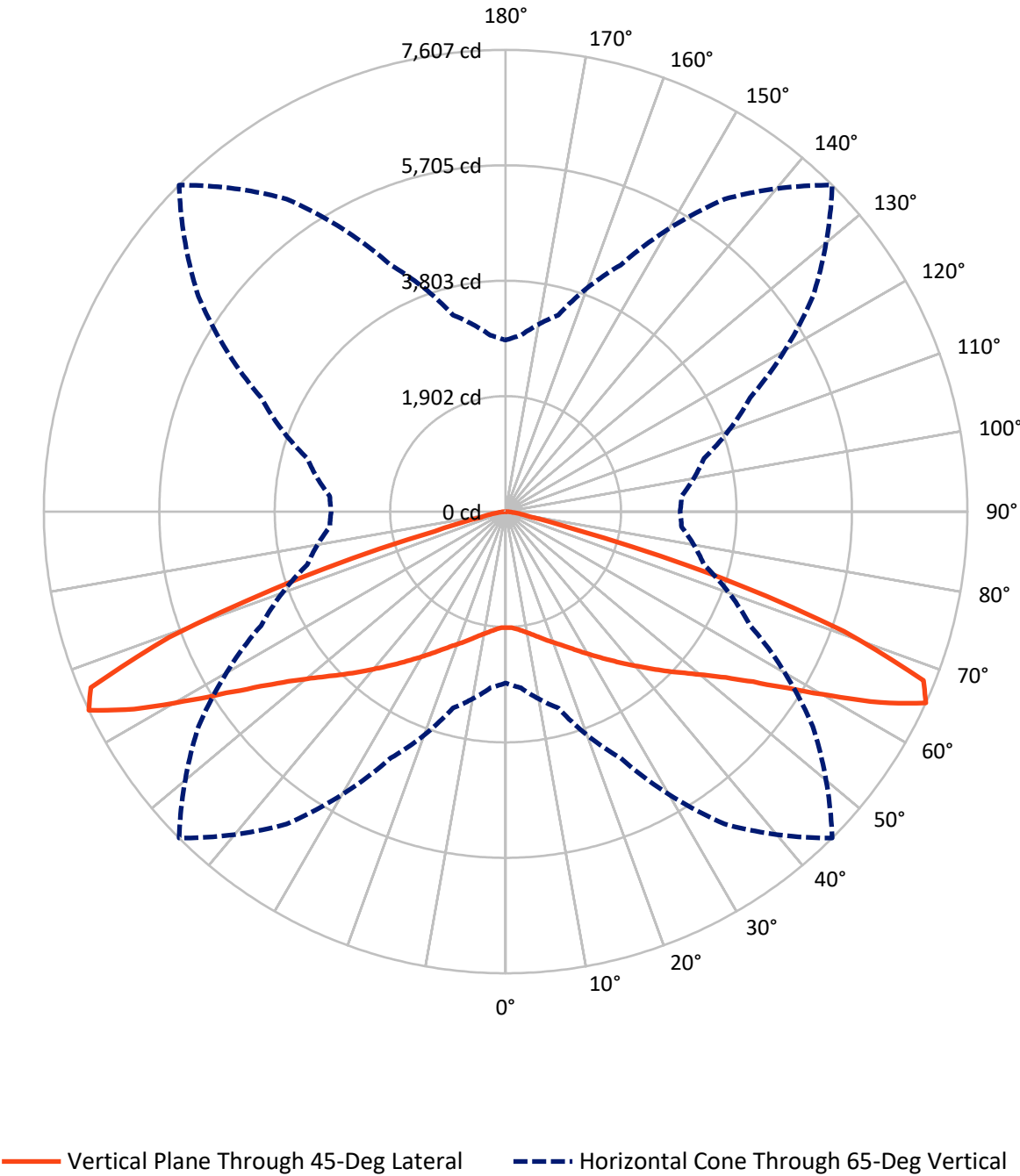
× Max cd
- - - 1/2 Max cd



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

REPORT NUMBER: P962443
CATALOG NUMBER: NAV-SB2C-735-U-5NQ

Luminous Intensity Polar Plot



REPORT NUMBER: P962443

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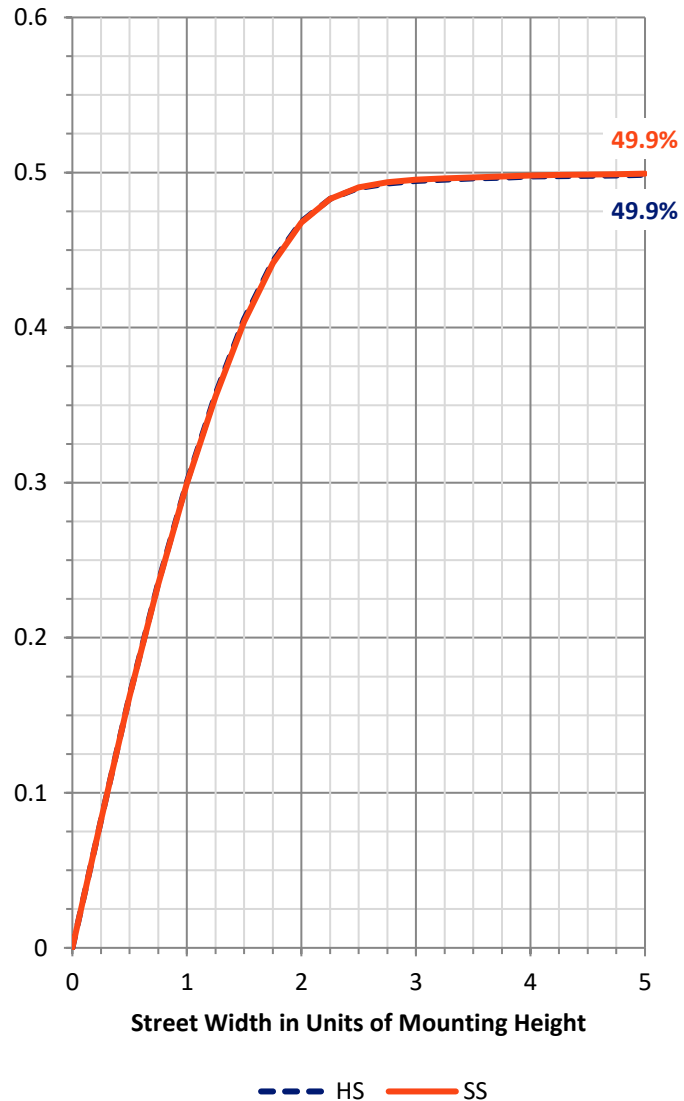
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8043.2	0.0	8043.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8043.2	0.0	8043.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	16086.3	0.0	16086.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.9	1.2
10°-20°	616.5	3.8
20°-30°	1164.0	7.2
30°-40°	1906.1	11.8
40°-50°	2955.4	18.4
50°-60°	4365.7	27.1
60°-70°	4155.8	25.8
70°-80°	670.6	4.2
80°-90°	63.2	0.4
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°	16086.3	100.0
0°-180°	16086.3	100.0

Coefficient of Utilization



REPORT NUMBER: P962443

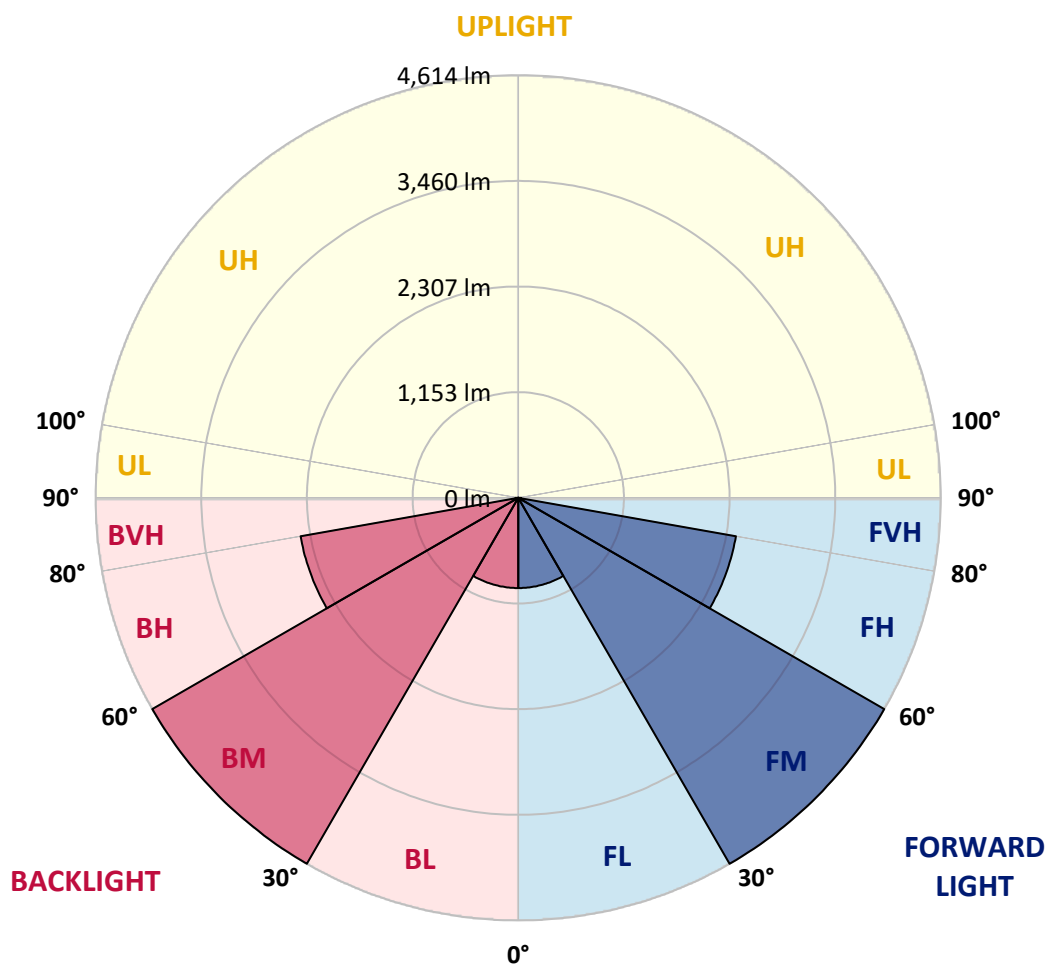
CATALOG NUMBER: NAV-SB2C-735-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	984.7	6.1			
FM	(30°-60°)	4613.6	28.7			
FH	(60°-80°)	2413.2	15.0			G2/5000
FVH	(80°-90°)	31.6	0.2			G1/100
BL	(0°-30°)	984.7	6.1	B2/1000		
BM	(30°-60°)	4613.6	28.7	B3/5000		
BH	(60°-80°)	2413.2	15.0	B3/2500		G2/5000
BVH	(80°-90°)	31.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CATALOG NUMBER: NAV-SB2C-735-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1914.4	1914.4	1914.4	1914.4	1914.4	1914.4	1914.4	1914.4	1914.4	1914.4	1914.4
2.5°	1927.3	1920.8	1925.8	1921.7	1918.5	1915.2	1916.9	1922.5	1925.0	1925.8	1925.8
5°	1953.1	1947.5	1950.0	1950.0	1944.3	1942.7	1943.5	1947.5	1952.4	1952.4	1952.4
7.5°	1995.2	1989.5	1995.2	1991.9	1987.1	1985.4	1984.6	1987.9	1995.2	1995.2	1992.7
10°	2046.0	2039.5	2042.7	2041.2	2035.5	2033.1	2032.3	2037.1	2043.5	2042.7	2041.2
12.5°	2101.7	2094.4	2098.5	2093.6	2092.0	2089.6	2089.6	2088.7	2092.8	2089.6	2091.2
15°	2163.9	2159.0	2160.6	2157.4	2159.8	2158.1	2151.7	2148.5	2150.1	2145.2	2146.0
17.5°	2237.3	2226.0	2231.6	2230.0	2230.0	2233.3	2222.7	2218.7	2221.9	2217.1	2221.2
20°	2322.0	2310.8	2313.1	2309.9	2305.8	2309.1	2296.2	2299.4	2301.8	2298.7	2305.8
22.5°	2414.8	2400.3	2399.5	2401.2	2392.2	2393.1	2384.1	2392.2	2397.1	2388.2	2397.1
25°	2510.1	2494.7	2505.2	2501.2	2489.9	2492.3	2485.8	2493.9	2497.9	2486.6	2499.6
27.5°	2611.0	2600.4	2610.2	2612.6	2598.9	2608.5	2598.9	2606.2	2610.2	2593.2	2606.2
30°	2728.8	2718.3	2727.2	2733.7	2717.5	2732.9	2724.8	2729.6	2730.4	2710.2	2722.3
32.5°	2857.1	2841.0	2863.5	2866.8	2849.1	2867.6	2857.1	2863.5	2867.6	2840.2	2858.7
35°	3013.7	2993.5	3019.3	3015.3	3000.0	3015.3	3005.6	3015.3	3025.0	2991.9	3012.1
37.5°	3182.4	3161.4	3188.9	3181.6	3167.0	3177.5	3171.9	3178.3	3193.7	3158.1	3180.0
40°	3368.0	3342.2	3379.3	3366.4	3352.7	3351.0	3354.3	3358.3	3378.5	3338.9	3351.9
42.5°	3566.6	3539.1	3594.8	3574.7	3555.3	3542.4	3552.9	3561.0	3580.3	3535.9	3559.3
45°	3793.3	3761.9	3834.5	3810.3	3779.7	3753.0	3770.0	3782.0	3810.3	3757.0	3784.5
47.5°	4043.5	4008.1	4085.5	4078.3	4028.2	3970.1	4008.9	4043.5	4064.5	4000.0	4021.8
50°	4288.1	4260.7	4362.4	4371.2	4309.9	4228.4	4282.4	4334.9	4340.6	4255.8	4266.4
52.5°	4517.3	4489.9	4637.6	4693.3	4638.4	4541.6	4598.9	4652.1	4609.3	4499.5	4502.8
55°	4700.5	4677.9	4866.0	5009.7	5028.2	4948.3	4982.2	4980.6	4840.2	4671.4	4677.2
57.5°	4744.9	4741.6	4978.9	5283.3	5477.0	5486.6	5419.7	5248.5	4945.9	4719.1	4704.5
60°	4543.1	4563.3	4889.4	5426.1	5942.6	6157.4	5867.6	5379.3	4825.6	4510.8	4473.7
62.5°	3939.5	3992.7	4385.8	5251.8	6318.8	6928.9	6226.8	5180.8	4331.6	3920.9	3896.6
65°	2823.3	2916.0	3350.3	4481.8	6284.9	7606.9	6175.1	4445.5	3382.5	2908.7	2874.1
67.5°	1280.8	1375.3	1744.1	3068.5	5463.2	7422.8	5450.3	3100.8	1831.3	1380.2	1360.0
70°	464.1	480.2	598.9	1228.4	3491.5	5914.5	3640.8	1237.3	636.8	511.7	505.2
72.5°	280.8	283.3	308.3	439.8	1213.1	3590.8	1264.7	454.4	314.8	279.2	284.1
75°	178.4	176.7	219.6	268.8	430.2	1211.4	451.2	268.8	218.7	199.4	201.0
77.5°	128.3	132.3	157.3	201.0	271.2	410.8	266.3	192.1	157.3	129.1	131.5
80°	96.0	98.5	114.6	156.6	190.4	255.8	169.5	142.1	118.6	80.7	83.1
82.5°	69.4	69.4	75.0	113.8	116.2	138.0	92.0	100.0	78.3	57.3	57.3
85°	41.2	40.4	46.8	67.8	60.6	50.8	41.9	61.3	49.2	35.5	34.7
87.5°	14.6	15.4	14.6	19.4	16.1	13.7	12.9	16.9	13.7	12.1	11.3
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)