

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: P969944

Luminaire Tested: **NAV-SB6A-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969944
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-SB6A-827-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25391.3 lumens
Efficiency: N/A
Efficacy: 148.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 170.9
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

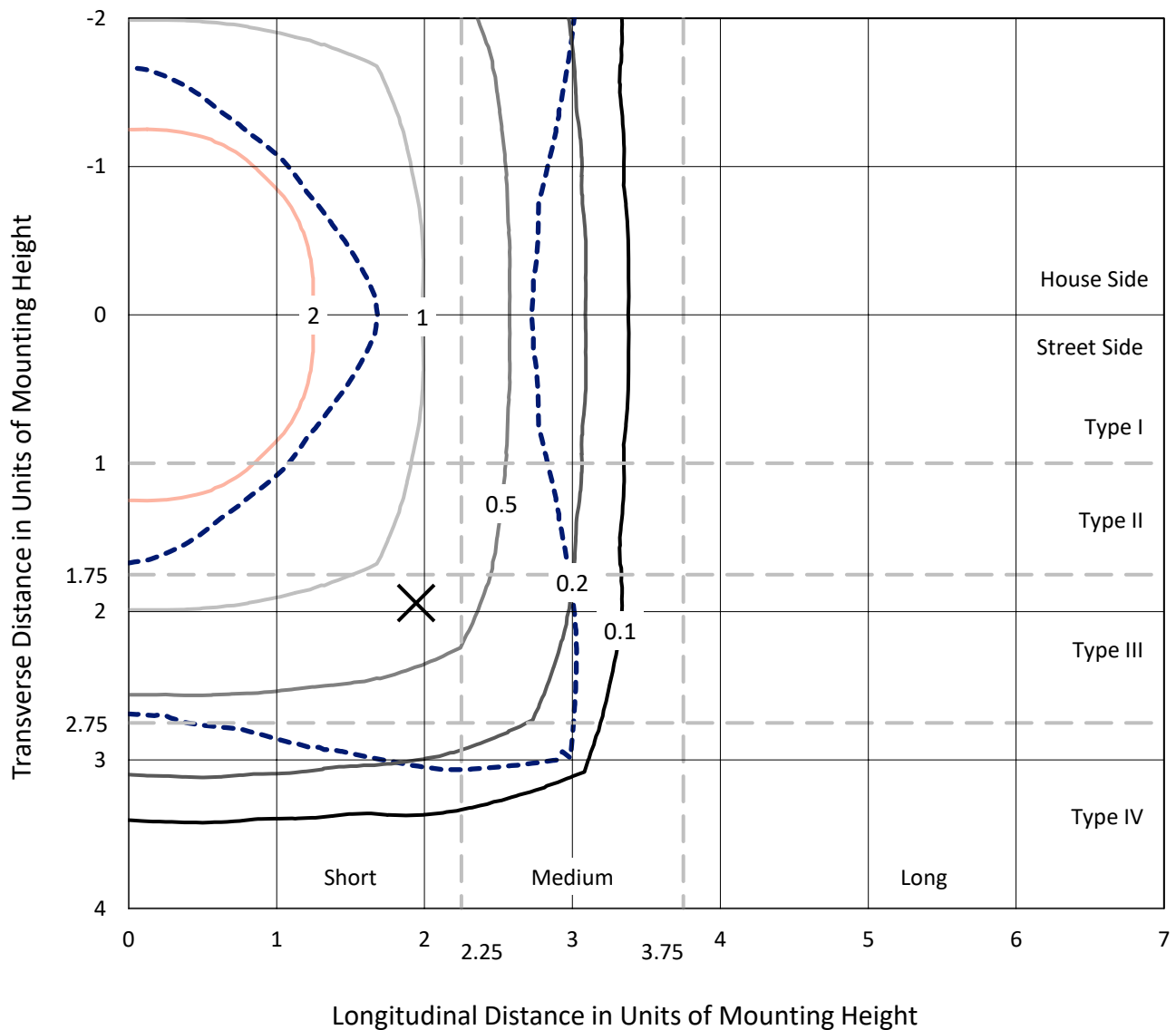


REPORT NUMBER: P969944

CATALOG NUMBER: NAV-SB6A-827-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

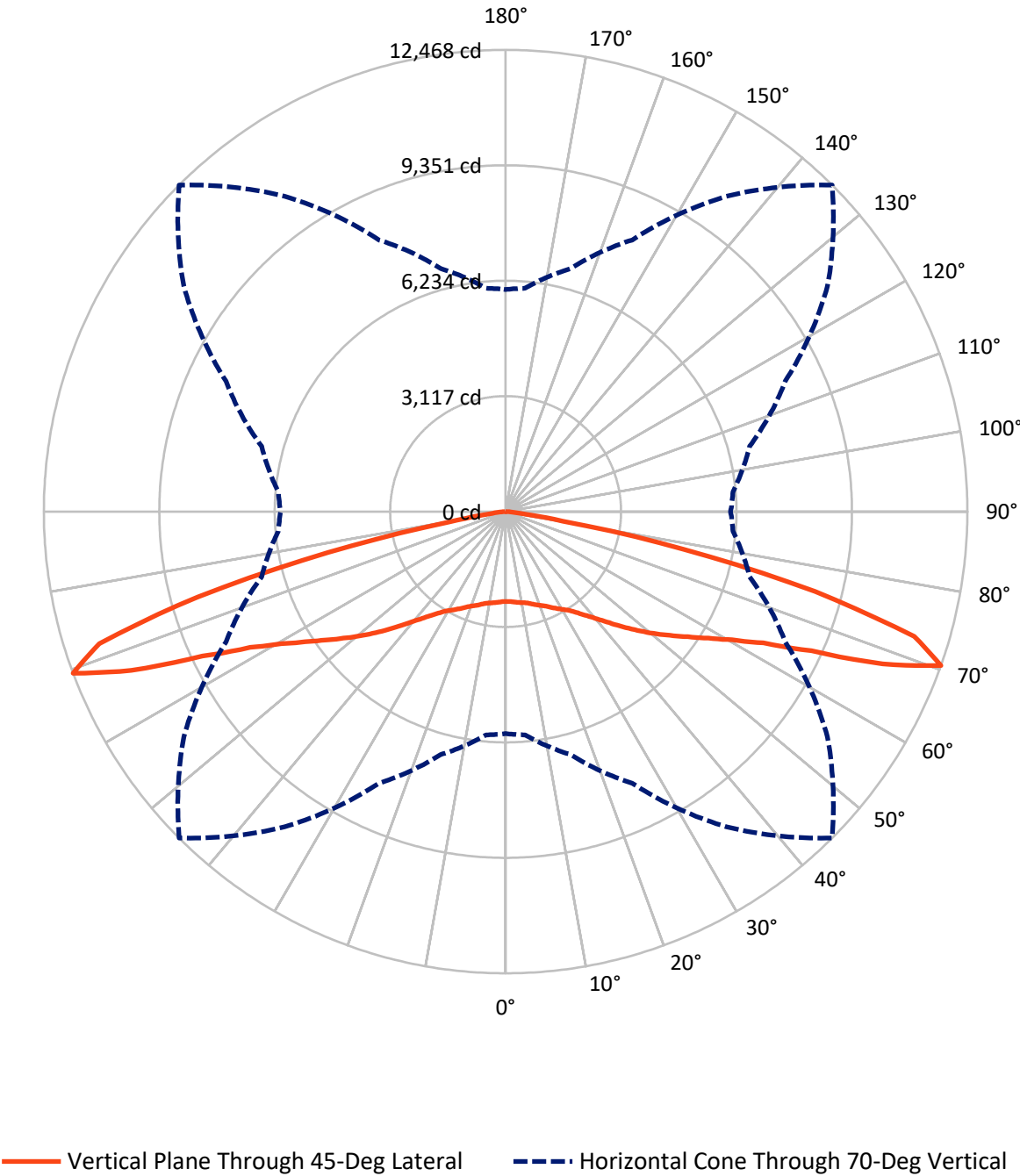
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
Type V - Short - N/A

REPORT NUMBER: P969944
CATALOG NUMBER: NAV-SB6A-827-U-5MQ

Luminous Intensity Polar Plot



REPORT NUMBER: P969944

CATALOG NUMBER: NAV-SB6A-827-U-5MQ

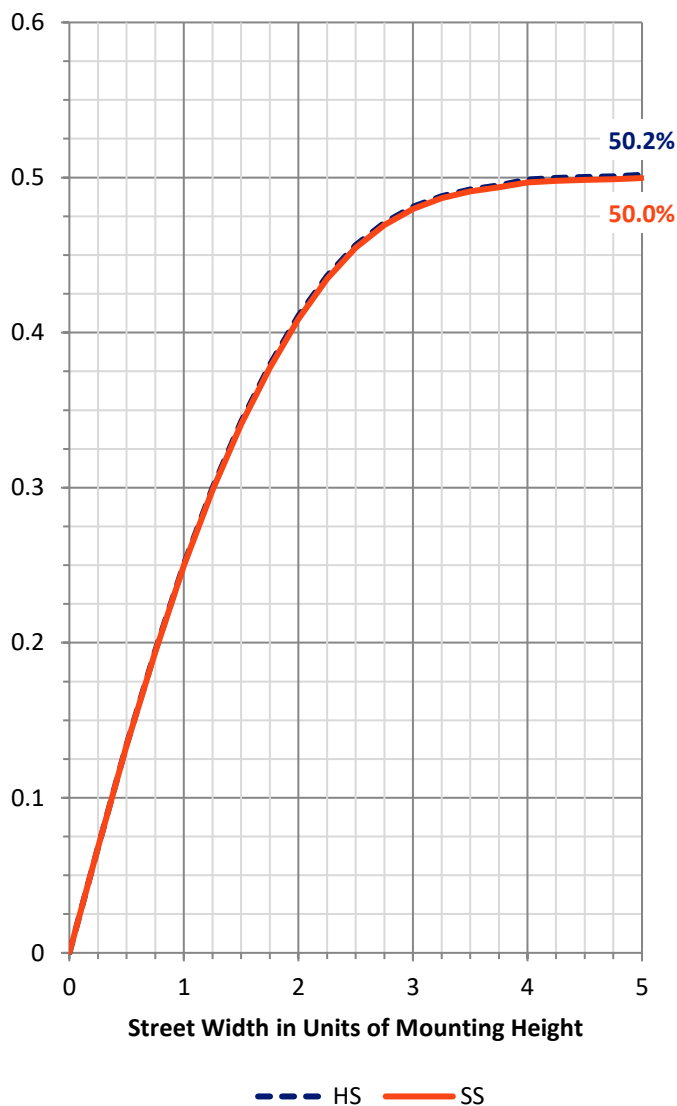
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12695.6	0.0	12695.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12695.6	0.0	12695.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	25391.3	0.0	25391.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.3	0.9
10°-20°	732.7	2.9
20°-30°	1309.4	5.2
30°-40°	2122.6	8.4
40°-50°	3457.3	13.6
50°-60°	5271.3	20.8
60°-70°	7842.0	30.9
70°-80°	4274.1	16.8
80°-90°	145.5	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°	25391.3	100.0
0°-180°	25391.3	100.0

Coefficient of Utilization



REPORT NUMBER: P969944

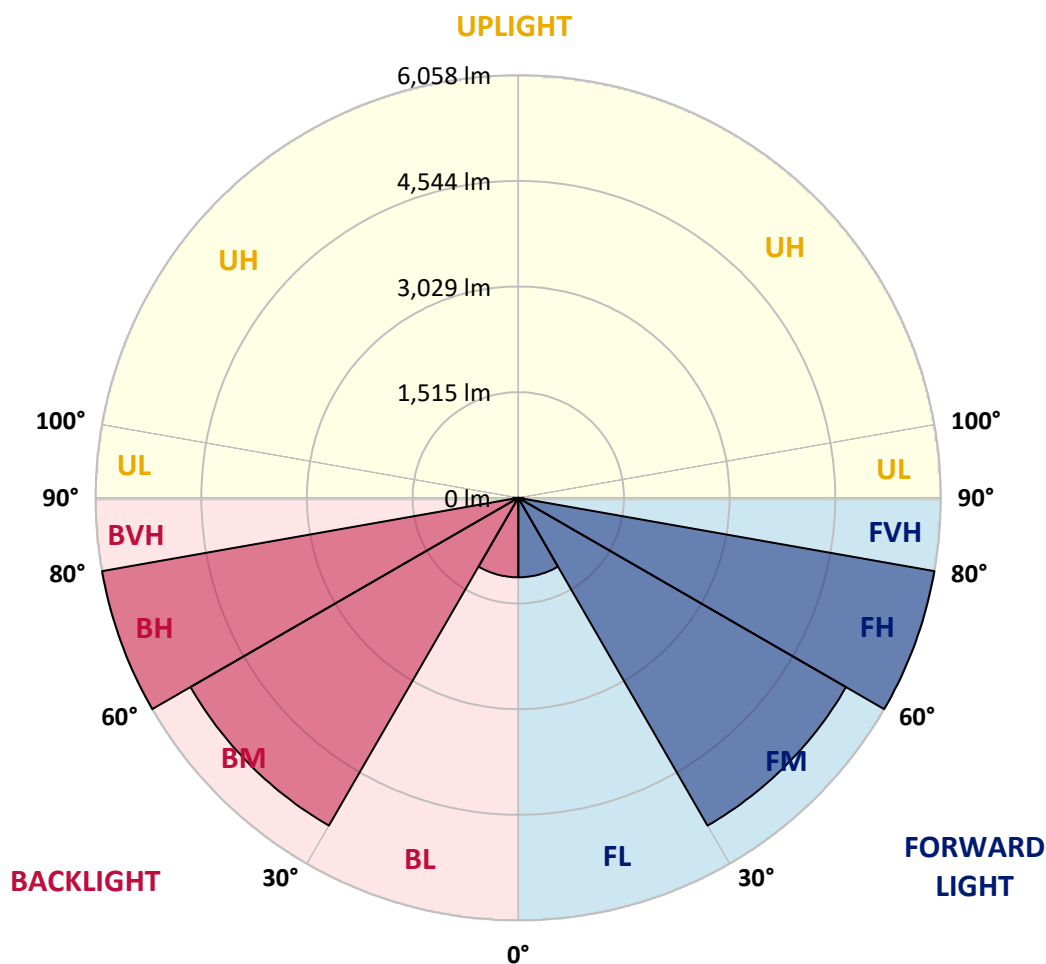
CATALOG NUMBER: NAV-SB6A-827-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1139.2	4.5			
FM	(30°-60°)	5425.6	21.4			
FH	(60°-80°)	6058.1	23.9			G3/7500
FVH	(80°-90°)	72.8	0.3			G1/100
BL	(0°-30°)	1139.2	4.5	B3/2500		
BM	(30°-60°)	5425.6	21.4	B4/8500		
BH	(60°-80°)	6058.1	23.9	B5		G3/7500
BVH	(80°-90°)	72.8	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-G3

Type V Short



REPORT NUMBER: P969944

CATALOG NUMBER: NAV-SB6A-827-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2432.2	2432.2	2432.2	2432.2	2432.2	2432.2	2432.2	2432.2	2432.2	2432.2	2432.2
2.5°	2443.7	2446.3	2441.1	2438.6	2436.0	2432.2	2433.5	2439.9	2444.9	2443.7	2444.9
5°	2464.1	2466.7	2462.8	2461.5	2456.4	2455.2	2455.2	2461.5	2465.3	2462.8	2464.1
7.5°	2487.1	2490.9	2484.5	2483.2	2480.7	2478.1	2476.8	2483.2	2487.1	2487.1	2487.1
10°	2508.7	2512.6	2507.5	2503.6	2501.1	2501.1	2498.5	2503.6	2510.0	2508.7	2508.7
12.5°	2531.6	2534.2	2529.1	2526.5	2526.5	2530.4	2526.5	2529.1	2534.2	2531.6	2530.4
15°	2559.7	2561.0	2559.7	2563.5	2569.9	2582.7	2571.2	2568.6	2571.2	2564.8	2564.8
17.5°	2598.0	2600.5	2605.5	2614.5	2623.5	2646.3	2625.9	2619.6	2619.6	2606.9	2606.9
20°	2645.1	2648.9	2656.6	2671.9	2683.3	2705.0	2684.6	2675.7	2671.9	2655.3	2655.3
22.5°	2694.8	2701.2	2712.7	2733.1	2753.5	2773.9	2753.5	2738.2	2726.7	2705.0	2703.7
25°	2752.2	2759.8	2777.6	2810.9	2838.8	2868.2	2844.0	2813.4	2790.5	2759.8	2758.6
27.5°	2833.8	2842.7	2864.4	2905.2	2940.8	2966.4	2943.4	2903.9	2872.0	2835.0	2833.8
30°	2948.5	2957.4	2983.0	3026.2	3050.5	3067.0	3051.7	3021.2	2983.0	2940.8	2940.8
32.5°	3096.3	3107.8	3135.9	3176.7	3181.8	3184.4	3179.2	3164.0	3135.9	3084.9	3086.2
35°	3283.8	3296.5	3328.4	3361.5	3356.5	3361.5	3353.9	3348.8	3328.4	3269.7	3269.7
37.5°	3513.2	3528.5	3561.7	3587.2	3574.4	3568.0	3569.3	3570.6	3559.1	3494.1	3494.1
40°	3779.6	3800.0	3824.3	3851.0	3829.4	3810.2	3822.9	3833.2	3822.9	3756.7	3756.7
42.5°	4053.7	4083.0	4108.5	4146.7	4128.9	4104.7	4122.5	4134.0	4112.3	4041.0	4046.1
45°	4358.4	4386.4	4419.6	4476.9	4464.2	4438.7	4464.2	4466.7	4429.7	4345.6	4354.5
47.5°	4673.3	4702.6	4752.3	4828.8	4823.6	4795.6	4828.8	4810.9	4763.8	4663.0	4656.7
50°	4971.6	5012.4	5088.8	5195.9	5206.1	5171.6	5216.3	5181.9	5102.9	4976.6	4974.1
52.5°	5252.0	5295.4	5416.4	5561.8	5598.7	5554.1	5614.0	5554.1	5435.6	5273.6	5258.4
55°	5546.5	5594.9	5739.0	5928.9	6002.8	5969.7	6025.8	5935.3	5767.0	5570.7	5543.9
57.5°	5893.1	5922.4	6094.5	6320.3	6445.1	6452.8	6478.3	6325.3	6121.4	5898.3	5867.7
60°	6269.2	6310.0	6497.4	6767.7	6965.3	7028.9	7002.2	6775.2	6538.2	6282.0	6241.2
62.5°	6751.1	6795.6	7020.0	7343.8	7656.1	7814.2	7709.6	7380.8	7087.6	6780.4	6726.9
65°	7150.1	7199.8	7605.2	8182.6	8751.1	9068.6	8806.0	8200.5	7672.7	7239.3	7167.9
67.5°	6860.7	6921.9	7558.0	8618.6	10032.3	10979.4	10080.8	8748.6	7714.8	7127.1	7039.2
70°	5996.5	6053.8	6795.6	8092.1	10393.1	12468.3	10609.8	8330.5	6819.9	6162.1	6074.2
72.5°	3981.0	4165.9	4916.7	6472.0	9280.1	11537.8	9372.0	6340.6	4561.0	3972.1	3843.3
75°	1320.6	1468.5	1980.9	3355.1	6215.7	8628.8	5917.4	2968.9	1569.2	1129.4	1068.3
77.5°	332.7	383.7	529.0	959.9	2479.4	4912.9	2232.0	784.0	427.0	298.3	266.4
80°	161.8	178.5	254.9	320.0	620.8	1561.6	582.6	300.8	201.4	155.5	142.8
82.5°	89.3	90.5	144.0	181.0	230.7	404.1	239.6	175.9	116.0	94.3	94.3
85°	54.8	53.5	76.5	96.9	96.9	144.0	114.7	96.9	66.3	58.6	61.2
87.5°	21.6	21.6	28.1	30.5	26.8	37.0	29.3	31.9	25.5	24.2	25.5
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)