

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: P965760

Luminaire Tested: **NAV-SB4A-830-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965760
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-SB4A-830-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17351.2 lumens
Efficiency: N/A
Efficacy: 152.2 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

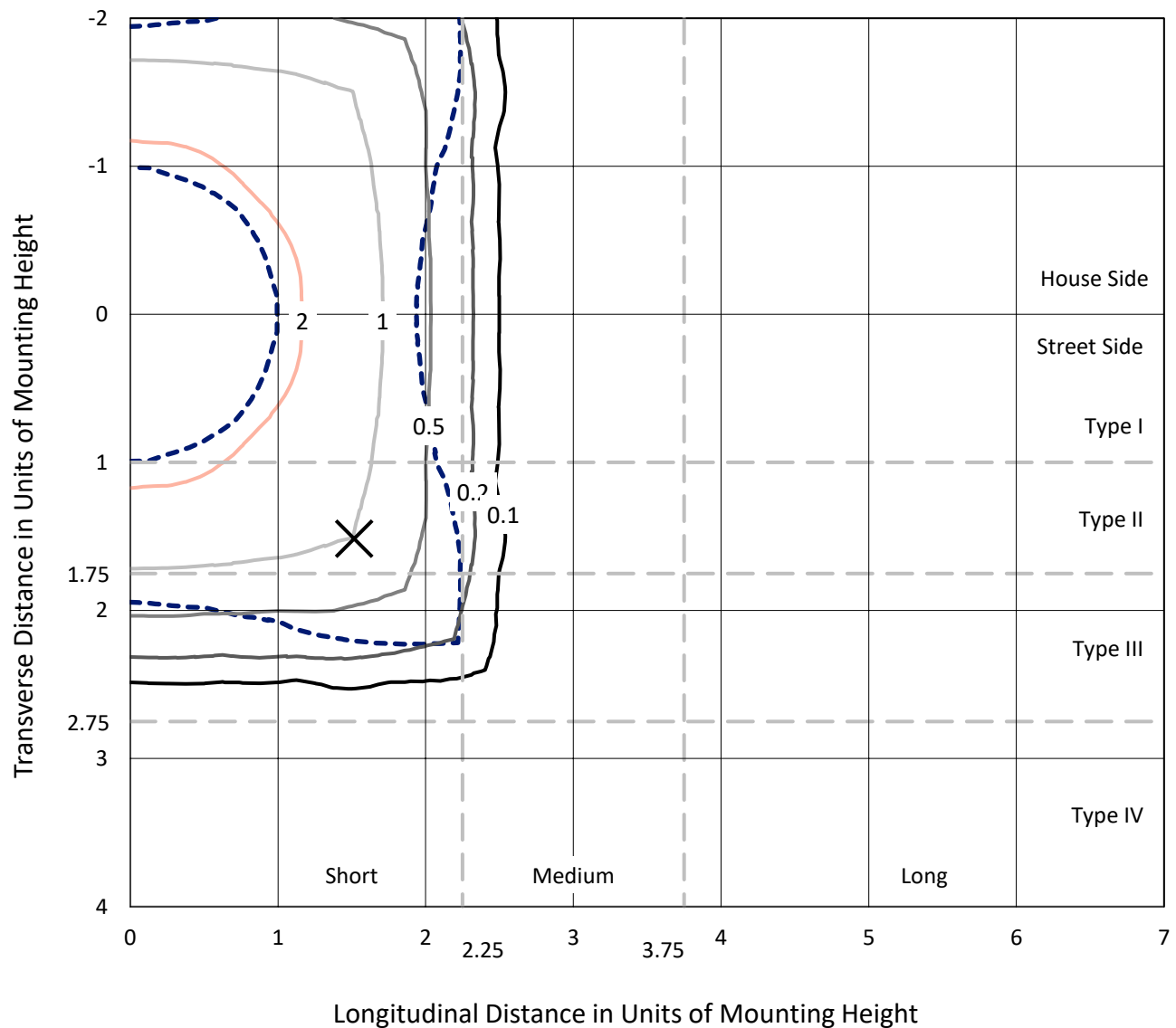


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Iso-Footcandle Lines of Horizontal Illumination

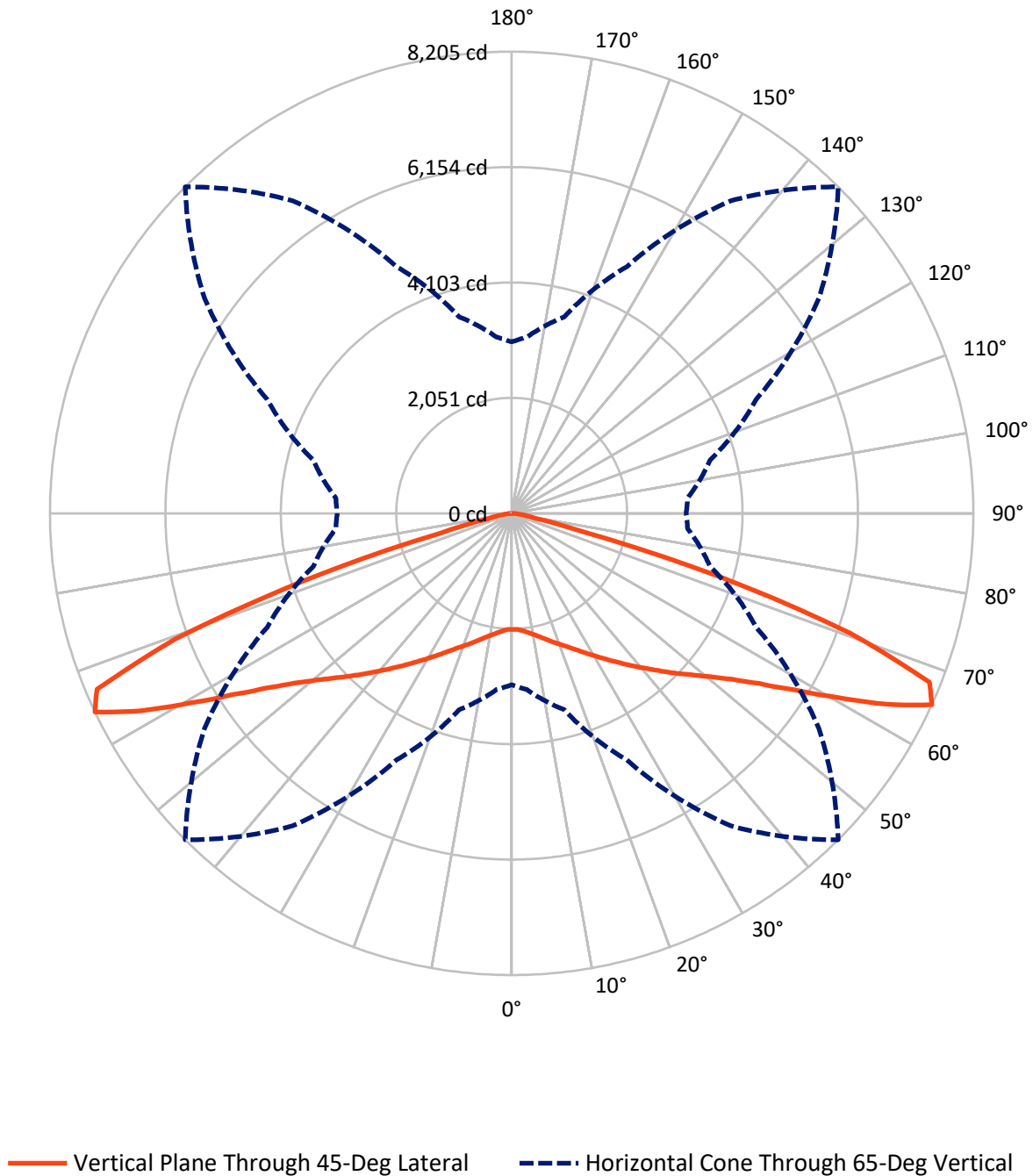
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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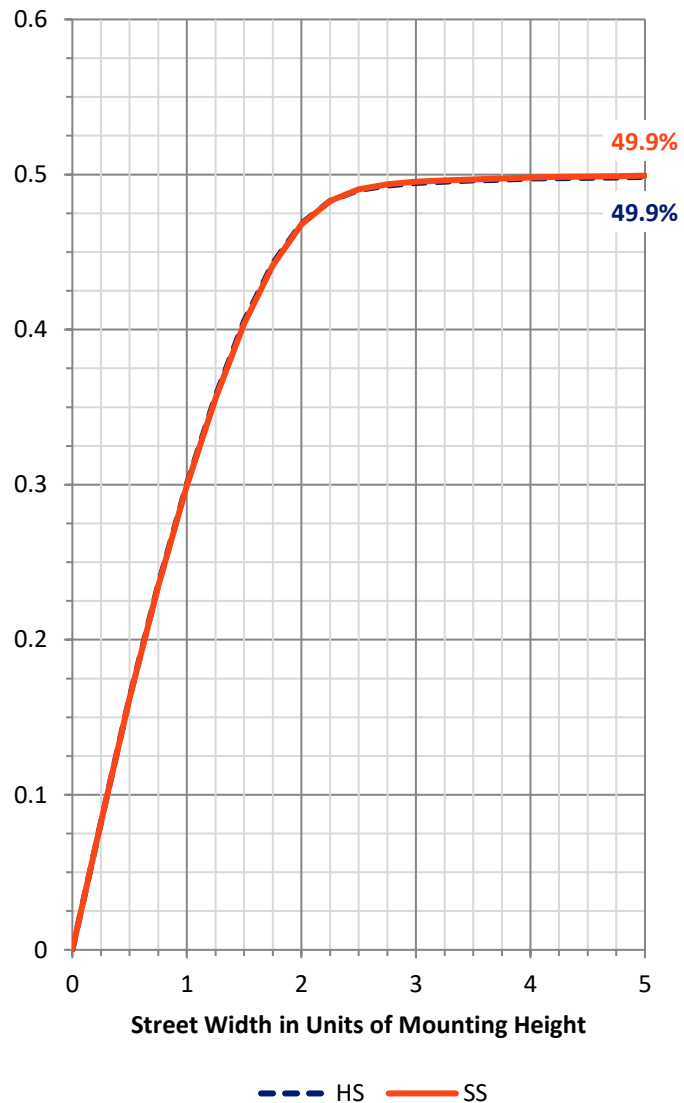
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8675.6	0.0	8675.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8675.6	0.0	8675.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	17351.2	0.0	17351.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.8	1.2
10°-20°	665.0	3.8
20°-30°	1255.6	7.2
30°-40°	2056.0	11.8
40°-50°	3187.8	18.4
50°-60°	4709.0	27.1
60°-70°	4482.6	25.8
70°-80°	723.3	4.2
80°-90°	68.2	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°	17351.2	100.0
0°-180°	17351.2	100.0

Coefficient of Utilization



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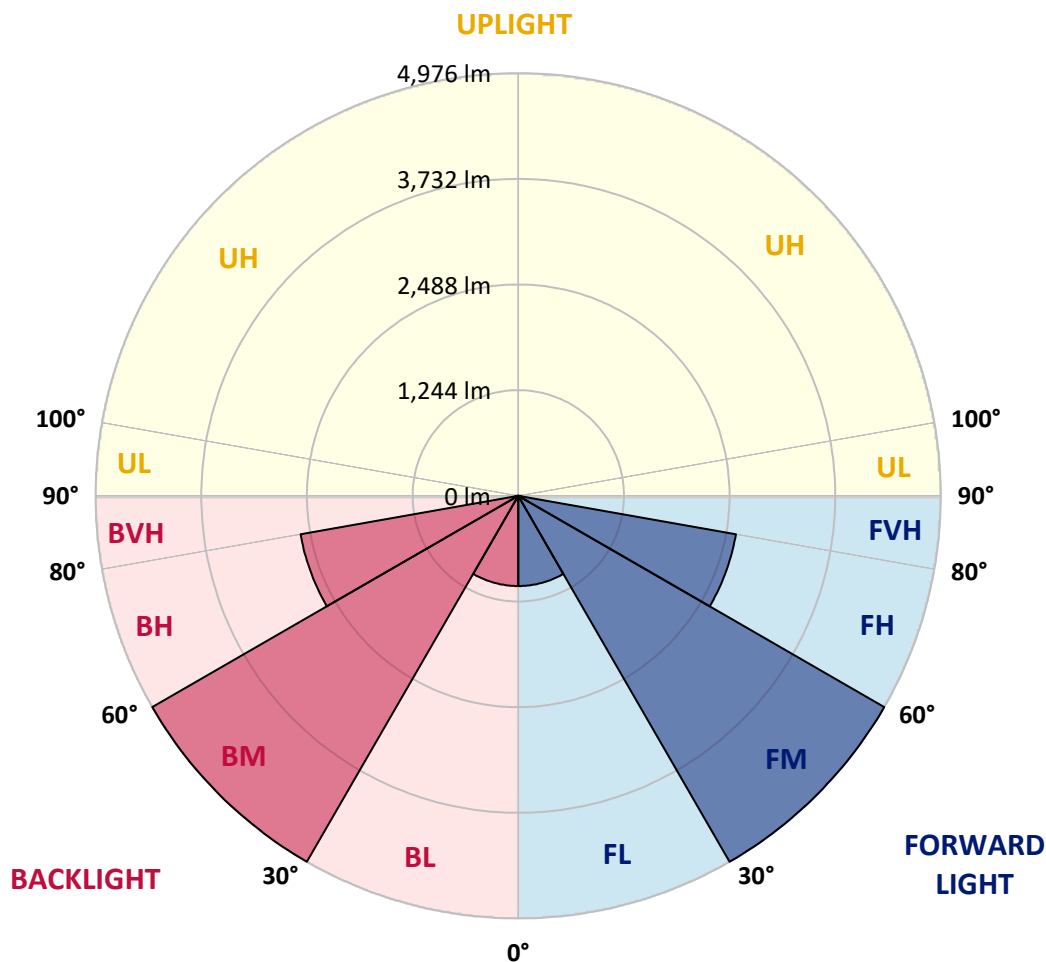
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1062.2	6.1			
FM	(30°-60°)	4976.4	28.7			
FH	(60°-80°)	2602.9	15.0			G2/5000
FVH	(80°-90°)	34.1	0.2			G1/100
BL	(0°-30°)	1062.2	6.1	B3/2500		
BM	(30°-60°)	4976.4	28.7	B3/5000		
BH	(60°-80°)	2602.9	15.0	B4/5000		G2/5000
BVH	(80°-90°)	34.1	0.2			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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2065.0	2065.0	2065.0	2065.0	2065.0	2065.0	2065.0	2065.0	2065.0	2065.0	2065.0
2.5°	2078.9	2071.9	2077.2	2072.8	2069.3	2065.9	2067.5	2073.7	2076.2	2077.2	2077.2
5°	2106.8	2100.6	2103.3	2103.3	2097.1	2095.4	2096.3	2100.6	2105.9	2105.9	2105.9
7.5°	2152.0	2145.9	2152.0	2148.5	2143.3	2141.5	2140.7	2144.2	2152.0	2152.0	2149.4
10°	2206.8	2199.9	2203.3	2201.6	2195.5	2193.0	2192.1	2197.3	2204.3	2203.3	2201.6
12.5°	2266.9	2259.1	2263.4	2258.3	2256.5	2253.9	2253.9	2253.1	2257.4	2253.9	2255.6
15°	2333.9	2328.7	2330.4	2327.0	2329.6	2327.9	2320.9	2317.4	2319.2	2313.9	2314.9
17.5°	2413.2	2401.0	2407.1	2405.4	2405.4	2408.9	2397.5	2393.2	2396.7	2391.4	2395.7
20°	2504.6	2492.4	2495.1	2491.6	2487.2	2490.6	2476.7	2480.2	2482.9	2479.4	2487.2
22.5°	2604.7	2589.0	2588.1	2589.9	2580.3	2581.3	2571.6	2580.3	2585.6	2576.0	2585.6
25°	2707.4	2690.9	2702.2	2697.9	2685.7	2688.3	2681.3	2690.0	2694.4	2682.2	2696.2
27.5°	2816.3	2804.9	2815.4	2818.0	2803.2	2813.6	2803.2	2811.1	2815.4	2797.1	2811.1
30°	2943.4	2932.0	2941.6	2948.6	2931.2	2947.7	2939.0	2944.2	2945.1	2923.3	2936.4
32.5°	3081.8	3064.3	3088.7	3092.2	3073.1	3093.1	3081.8	3088.7	3093.1	3063.5	3083.5
35°	3250.7	3229.0	3256.7	3252.4	3235.8	3252.4	3242.0	3252.4	3262.9	3227.2	3248.9
37.5°	3432.6	3410.0	3439.6	3431.7	3416.1	3427.4	3421.3	3428.2	3444.8	3406.5	3430.0
40°	3632.8	3605.0	3645.0	3631.1	3616.3	3614.6	3618.0	3622.4	3644.2	3601.5	3615.5
42.5°	3847.0	3817.4	3877.5	3855.7	3834.8	3820.9	3832.2	3840.9	3861.8	3813.9	3839.1
45°	4091.6	4057.7	4136.0	4109.9	4076.8	4048.1	4066.4	4079.4	4109.9	4052.4	4082.1
47.5°	4361.5	4323.2	4406.8	4398.9	4345.0	4282.2	4324.1	4361.5	4384.1	4314.5	4338.0
50°	4625.3	4595.7	4705.4	4714.9	4648.8	4560.8	4619.2	4675.7	4681.9	4590.5	4601.7
52.5°	4872.5	4842.9	5002.2	5062.3	5003.1	4898.7	4960.5	5017.9	4971.8	4853.4	4856.9
55°	5070.2	5045.8	5248.6	5403.6	5423.6	5337.4	5374.0	5372.2	5220.7	5038.8	5044.8
57.5°	5118.0	5114.5	5370.5	5698.7	5907.6	5918.0	5845.8	5661.3	5334.8	5090.2	5074.5
60°	4900.4	4922.2	5273.8	5852.7	6409.9	6641.5	6329.0	5802.3	5205.1	4865.6	4825.5
62.5°	4249.2	4306.6	4730.6	5664.8	6815.6	7473.8	6716.4	5588.1	4672.3	4229.2	4203.0
65°	3045.2	3145.3	3613.7	4834.2	6779.0	8205.0	6660.7	4795.1	3648.5	3137.5	3100.0
67.5°	1381.6	1483.5	1881.3	3309.8	5892.8	8006.6	5878.9	3344.7	1975.3	1488.6	1466.9
70°	500.6	517.9	646.0	1325.0	3766.1	6379.5	3927.1	1334.6	686.9	552.0	545.0
72.5°	303.0	305.6	332.5	474.5	1308.4	3873.2	1364.2	490.2	339.5	301.2	306.5
75°	192.4	190.6	236.8	289.9	464.0	1306.7	486.7	289.9	236.0	215.0	216.8
77.5°	138.4	142.8	169.7	216.8	292.5	443.1	287.3	207.2	169.7	139.3	141.9
80°	103.6	106.2	123.6	168.9	205.4	275.9	182.9	153.2	128.0	87.0	89.7
82.5°	74.8	74.8	81.0	122.8	125.4	148.8	99.2	107.9	84.5	61.8	61.8
85°	44.4	43.6	50.5	73.1	65.3	54.8	45.3	66.1	53.1	38.3	37.4
87.5°	15.7	16.5	15.7	20.9	17.4	14.8	13.9	18.2	14.8	13.0	12.2
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)