

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: P966136

Luminaire Tested: **NAV-SB4B-735-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4B-735-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23820 lumens
Efficiency: N/A
Efficacy: 162.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 147
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



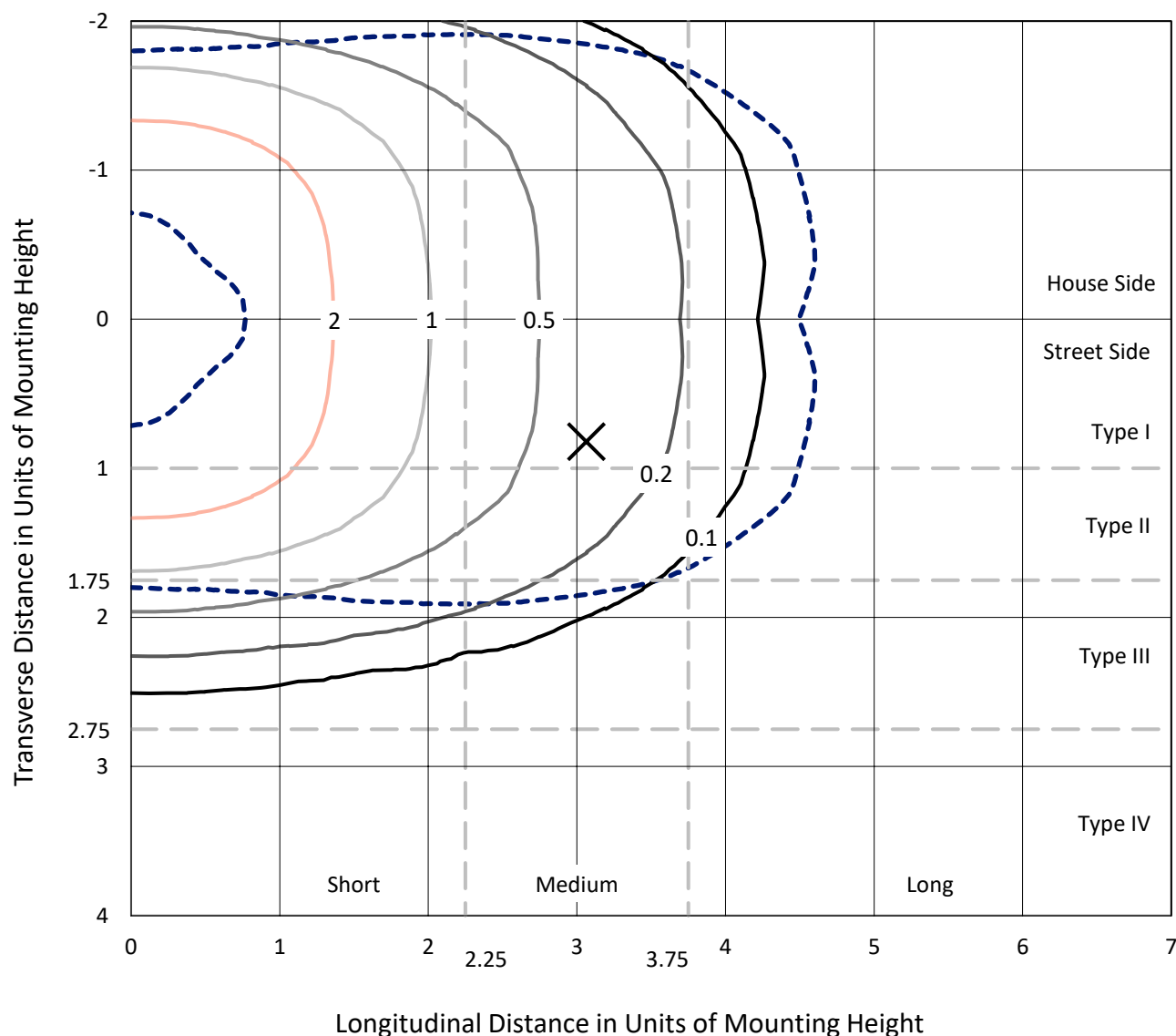
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

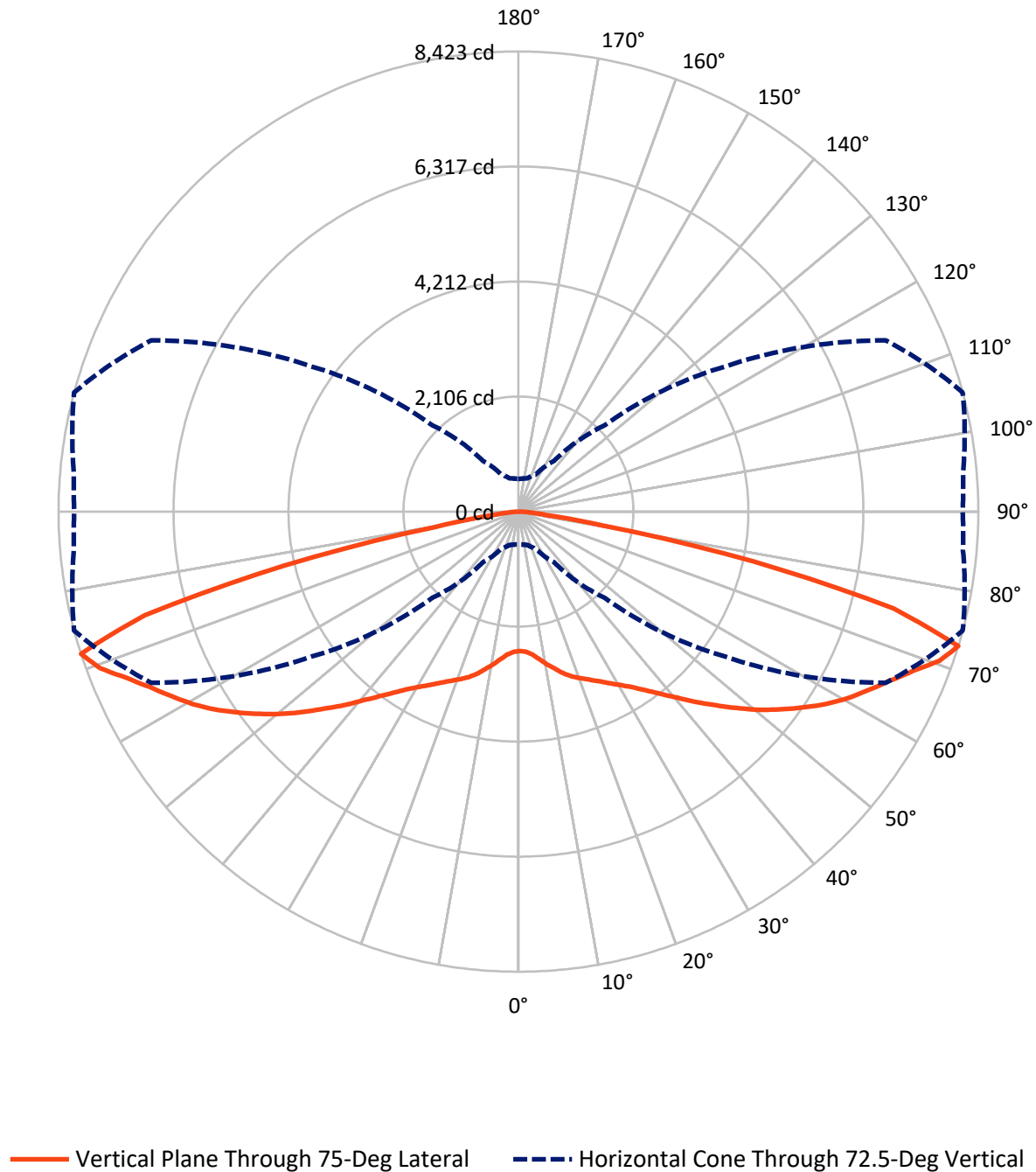


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc

Type III - Medium - N/A

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Luminous Intensity Polar Plot



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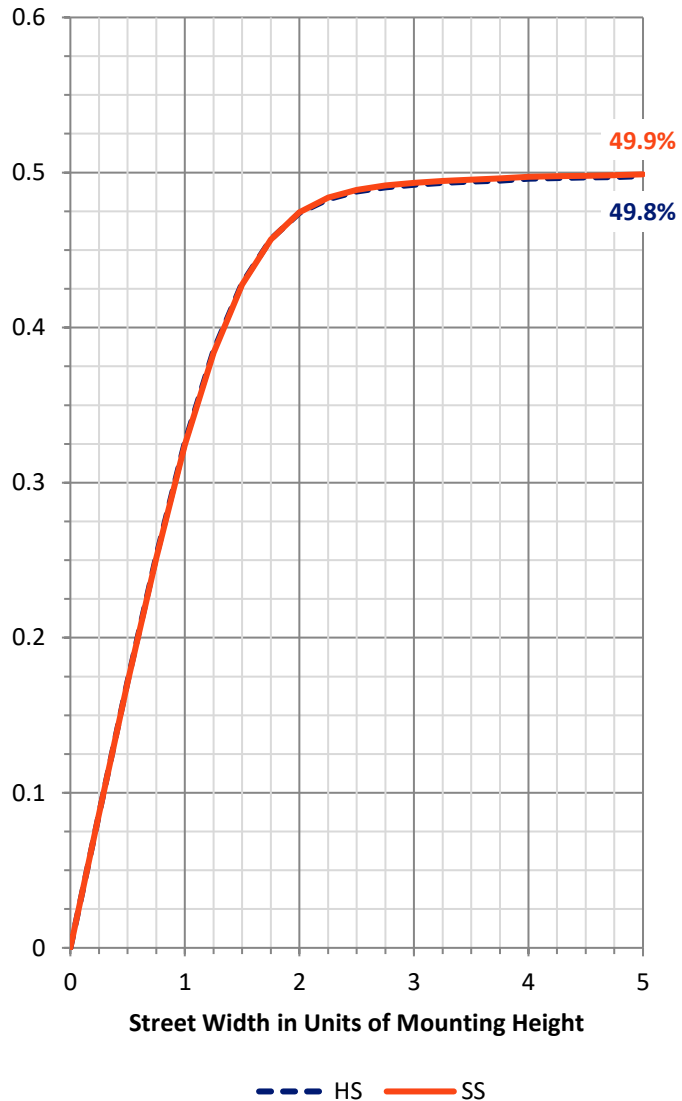
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11910.0	0.0	11910.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11910.0	0.0	11910.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23820.0	0.0	23820.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.9	1.0
10°-20°	824.4	3.5
20°-30°	1592.9	6.7
30°-40°	2689.8	11.3
40°-50°	4265.7	17.9
50°-60°	5711.2	24.0
60°-70°	5435.2	22.8
70°-80°	2836.2	11.9
80°-90°	214.7	0.9
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°	23820.0	100.0
0°-180°	23820.0	100.0

Coefficient of Utilization



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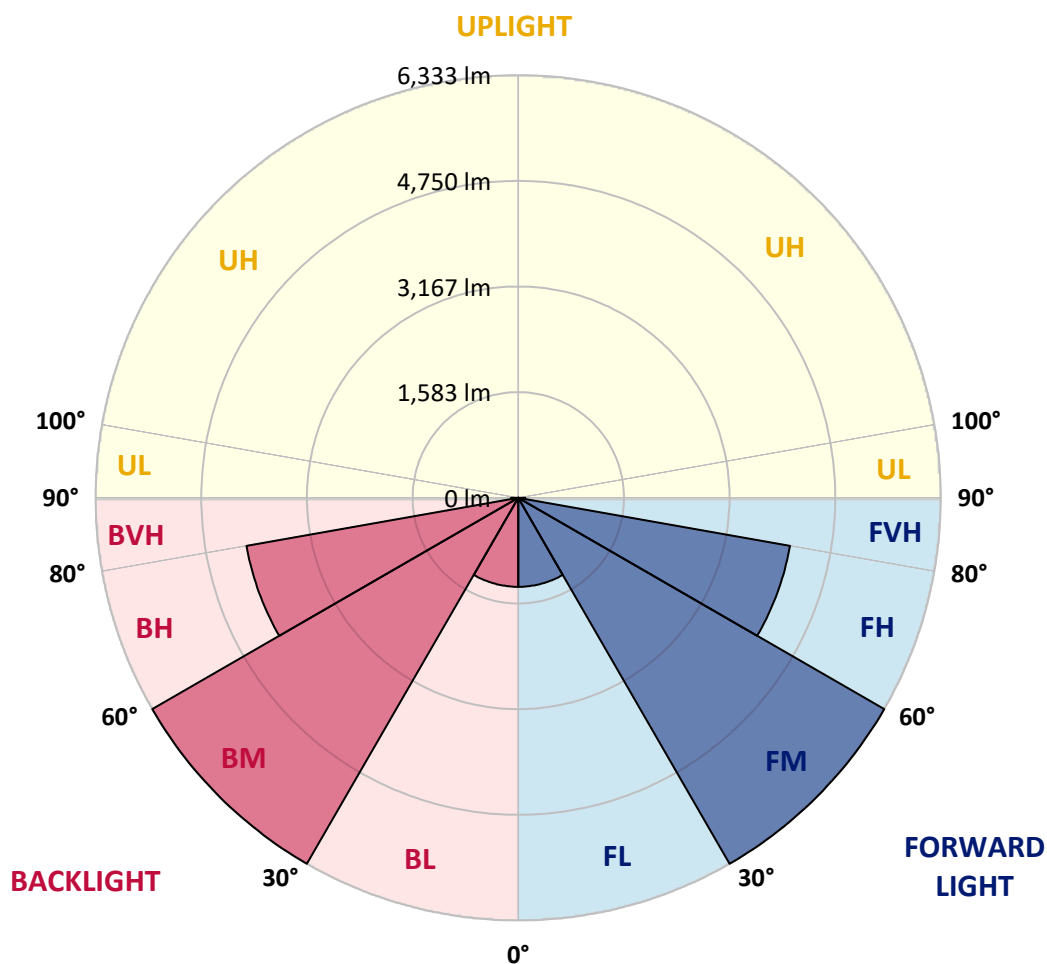
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1333.6	5.6			
FM	(30°-60°)	6333.3	26.6			
FH	(60°-80°)	4135.7	17.4			G2/5000
FVH	(80°-90°)	107.3	0.5			G2/225
BL	(0°-30°)	1333.6	5.6	B3/2500		
BM	(30°-60°)	6333.3	26.6	B4/8500		
BH	(60°-80°)	4135.7	17.4	B4/5000		G4/5000
BVH	(80°-90°)	107.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2551.5	2551.5	2551.5	2551.5	2551.5	2551.5	2551.5	2551.5	2551.5	2551.5	2551.5
2.5°	2551.5	2549.1	2551.5	2554.0	2552.8	2552.8	2558.8	2562.5	2569.8	2568.5	2567.3
5°	2534.5	2533.3	2543.0	2554.0	2562.5	2577.1	2595.3	2608.7	2625.7	2629.4	2629.4
7.5°	2526.0	2522.3	2539.3	2558.8	2585.6	2622.1	2657.3	2693.8	2723.0	2732.8	2735.2
10°	2532.1	2533.3	2556.5	2592.9	2635.5	2686.5	2736.4	2798.5	2839.8	2849.5	2859.2
12.5°	2560.0	2557.6	2596.5	2655.0	2713.3	2777.7	2836.2	2904.2	2949.2	2972.3	2982.0
15°	2611.2	2606.3	2661.0	2747.3	2832.5	2907.9	2955.3	3019.8	3072.0	3101.2	3112.2
17.5°	2672.0	2674.4	2746.2	2858.0	2969.9	3055.0	3100.0	3132.9	3173.0	3198.5	3210.7
20°	2779.0	2783.8	2864.1	2996.7	3124.4	3221.7	3258.2	3246.0	3256.9	3276.4	3291.0
22.5°	2922.5	2924.9	3014.9	3158.4	3292.2	3399.2	3423.5	3373.7	3343.2	3356.7	3366.4
25°	3089.1	3104.9	3194.9	3342.0	3479.5	3581.7	3592.6	3517.2	3441.7	3445.4	3451.5
27.5°	3292.2	3306.8	3398.0	3543.9	3683.8	3772.6	3771.4	3670.4	3559.7	3531.7	3540.4
30°	3512.4	3528.2	3621.7	3772.6	3902.7	3980.6	3963.6	3843.1	3685.0	3632.7	3638.9
32.5°	3773.8	3783.6	3878.4	4029.2	4149.6	4211.6	4176.4	4027.9	3830.9	3771.4	3785.9
35°	4090.1	4104.6	4175.1	4317.4	4423.3	4474.3	4414.8	4239.6	4018.3	3951.4	3961.1
37.5°	4451.3	4441.5	4521.8	4648.3	4735.8	4767.4	4686.0	4478.0	4232.3	4153.3	4167.9
40°	4828.3	4823.3	4911.0	5032.5	5080.0	5099.5	4979.0	4751.6	4479.1	4394.1	4422.1
42.5°	5170.0	5166.3	5284.3	5419.3	5476.5	5454.5	5302.5	5042.3	4765.0	4667.7	4692.0
45°	5443.7	5438.8	5583.5	5773.2	5885.1	5848.6	5644.3	5363.3	5054.5	4953.5	4976.6
47.5°	5654.0	5656.5	5812.2	6046.9	6242.7	6256.0	5993.4	5690.5	5373.0	5258.8	5292.8
50°	5806.0	5813.4	5980.0	6240.2	6507.8	6625.7	6349.7	6026.2	5702.7	5573.7	5612.7
52.5°	5843.7	5857.2	6057.7	6363.1	6678.1	6903.1	6712.1	6348.4	6015.2	5892.4	5924.0
55°	5643.0	5669.8	5924.0	6353.4	6782.6	7085.4	7030.8	6675.6	6330.2	6203.7	6239.0
57.5°	5182.1	5219.8	5516.5	6077.2	6759.6	7210.8	7277.6	6989.4	6645.2	6523.6	6551.6
60°	4536.3	4581.3	4866.0	5477.7	6433.6	7256.9	7451.5	7294.6	6934.6	6816.7	6842.2
62.5°	3562.2	3620.6	3961.1	4678.6	5745.2	7041.6	7599.9	7570.8	7194.9	7047.8	7064.8
65°	2285.2	2347.2	2706.0	3553.7	4827.0	6382.5	7646.1	7839.5	7469.8	7264.3	7289.8
67.5°	1377.9	1405.9	1583.4	2153.8	3528.2	5388.9	7254.5	8137.5	7790.8	7535.5	7554.9
70°	881.7	897.5	1003.4	1264.8	1994.5	3931.9	6284.0	8193.4	8180.0	7814.0	7811.5
72.5°	598.4	603.2	631.2	749.2	1128.6	2234.1	4634.8	7417.5	8423.2	8172.7	8133.8
75°	437.8	464.5	509.6	530.2	640.9	1116.4	2656.2	5211.3	7098.8	7208.3	6943.1
77.5°	326.0	327.2	389.2	413.5	457.3	594.7	1123.7	2909.1	4407.4	4627.6	4127.7
80°	276.0	261.5	260.2	333.2	344.2	370.9	502.2	1004.6	1578.6	957.1	723.6
82.5°	229.9	214.0	193.4	260.2	234.7	227.4	217.7	408.7	502.2	246.9	210.4
85°	160.5	153.2	146.0	170.3	133.8	114.3	104.6	191.0	211.7	104.6	92.5
87.5°	69.3	71.8	73.0	75.4	56.0	40.2	40.2	53.5	53.5	41.3	30.4
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)