

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: P967903

Luminaire Tested: **NAV-SB5A-835-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967903
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-SB5A-835-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22184 lumens
Efficiency: N/A
Efficacy: 156.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 141.7
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



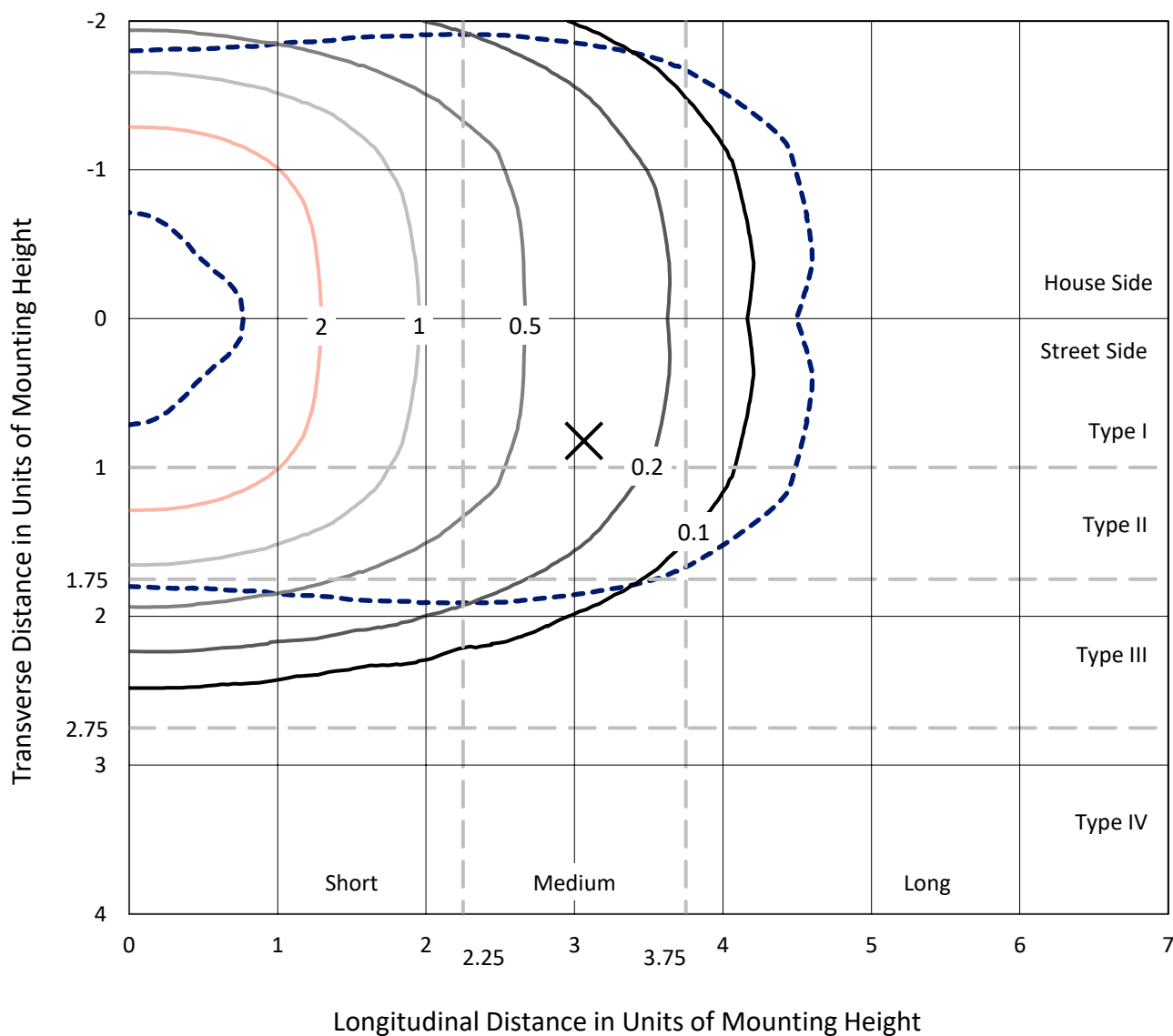
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

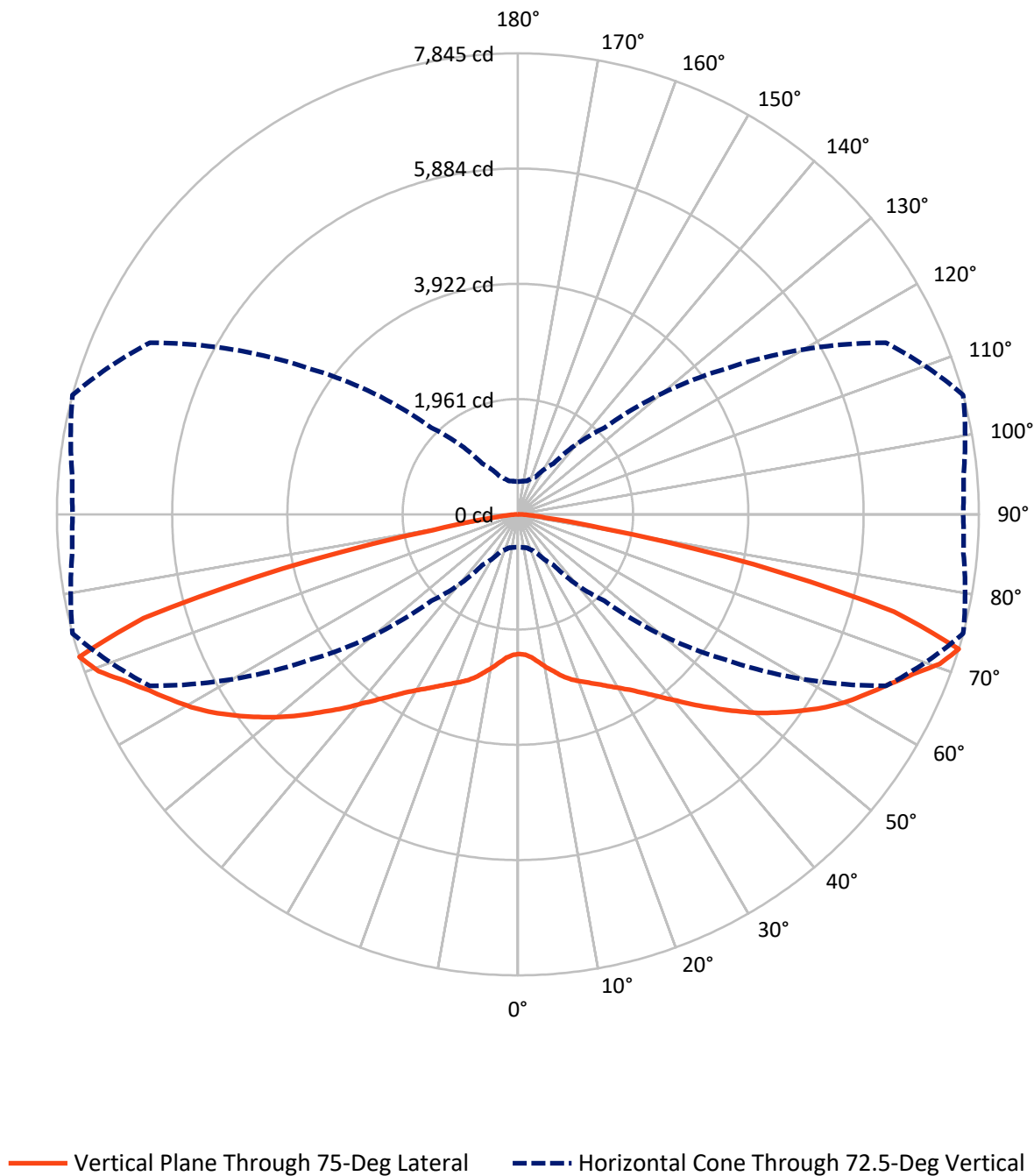


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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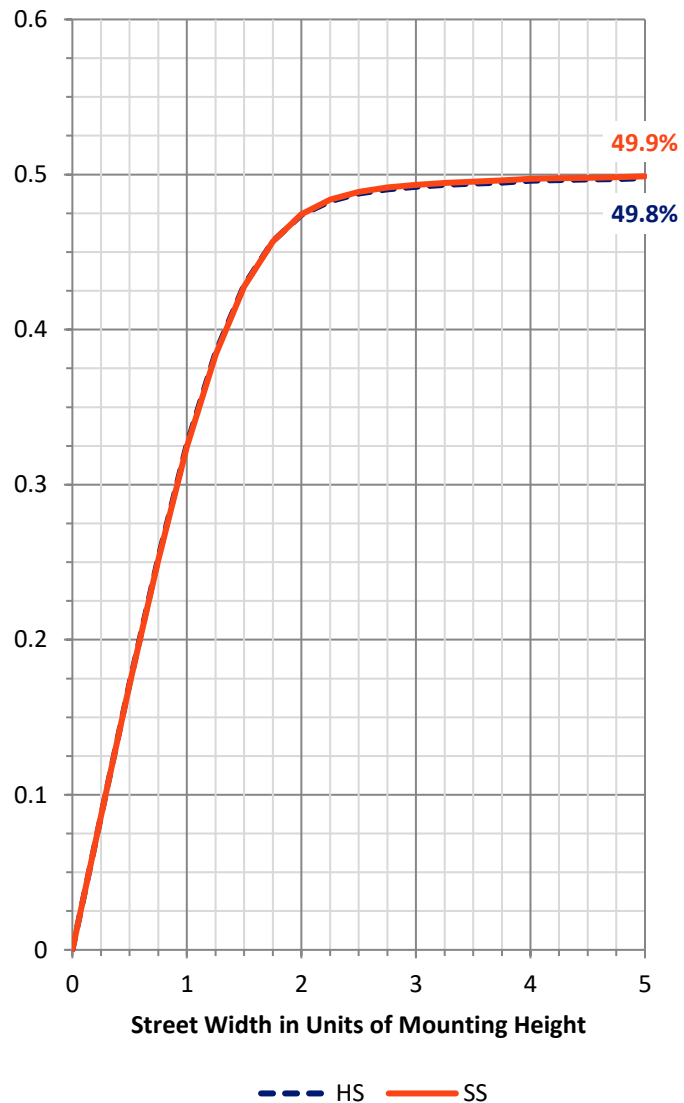
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11092.0	0.0	11092.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11092.0	0.0	11092.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22184.0	0.0	22184.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.8	1.0
10°-20°	767.8	3.5
20°-30°	1483.5	6.7
30°-40°	2505.0	11.3
40°-50°	3972.7	17.9
50°-60°	5319.0	24.0
60°-70°	5062.0	22.8
70°-80°	2641.4	11.9
80°-90°	199.9	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°	22184.0	100.0
0°-180°	22184.0	100.0

Coefficient of Utilization



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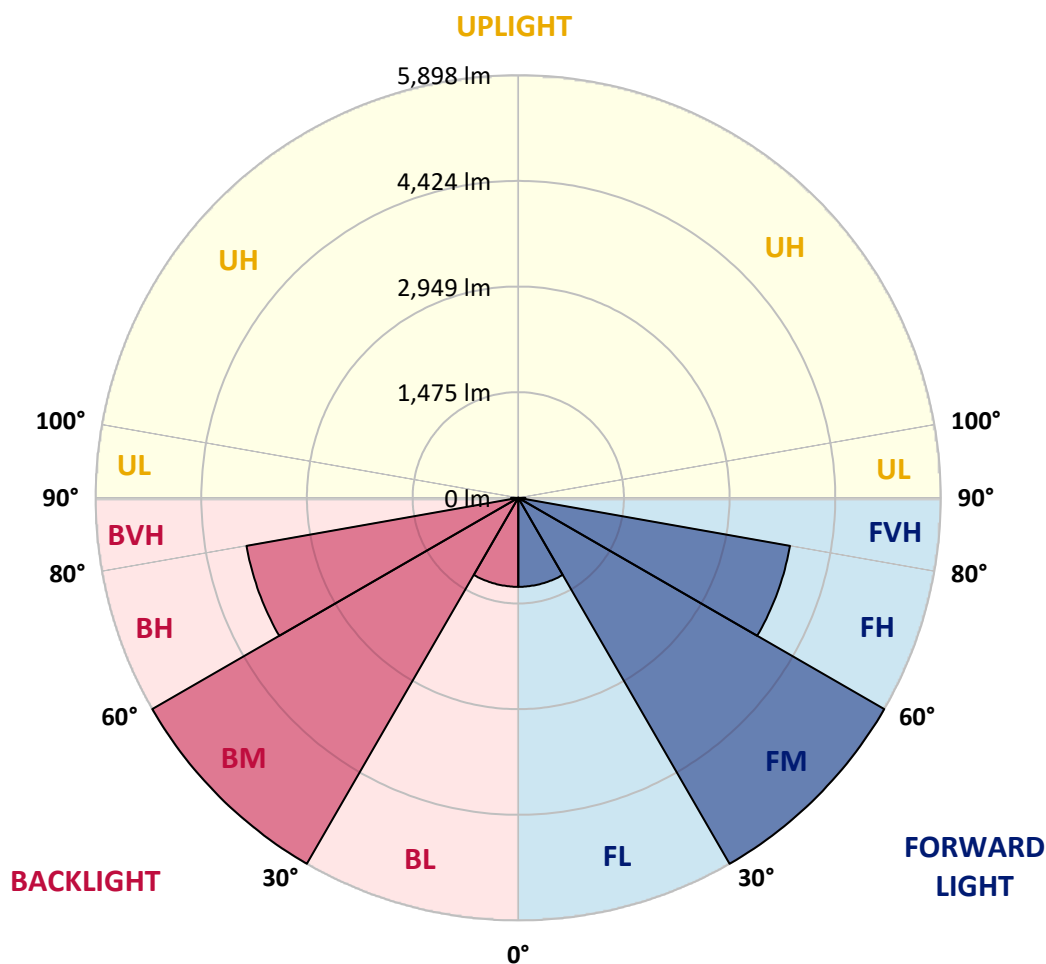
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1242.0	5.6			
FM	(30°-60°)	5898.3	26.6			
FH	(60°-80°)	3851.7	17.4			G2/5000
FVH	(80°-90°)	100.0	0.5			G1/100
BL	(0°-30°)	1242.0	5.6	B3/2500		
BM	(30°-60°)	5898.3	26.6	B4/8500		
BH	(60°-80°)	3851.7	17.4	B4/5000		G4/5000
BVH	(80°-90°)	100.0	0.5			G1/100
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°	2376.4	2376.4	2376.4	2376.4	2376.4	2376.4	2376.4	2376.4	2376.4	2376.4	2376.4
2.5°	2376.4	2374.0	2376.4	2378.6	2377.5	2377.5	2383.1	2386.5	2393.3	2392.1	2391.0
5°	2360.5	2359.3	2368.4	2378.6	2386.5	2400.1	2417.1	2429.6	2445.4	2448.8	2448.8
7.5°	2352.5	2349.1	2365.0	2383.1	2408.0	2442.0	2474.9	2508.8	2536.1	2545.1	2547.3
10°	2358.2	2359.3	2380.9	2414.8	2454.5	2502.0	2548.5	2606.3	2644.7	2653.8	2662.8
12.5°	2384.3	2382.0	2418.2	2472.6	2526.9	2587.0	2641.3	2704.8	2746.7	2768.2	2777.2
15°	2431.8	2427.3	2478.2	2558.7	2637.9	2708.2	2752.3	2812.4	2861.1	2888.2	2898.5
17.5°	2488.5	2490.8	2557.6	2661.7	2766.0	2845.2	2887.1	2917.8	2955.1	2978.9	2990.2
20°	2588.1	2592.6	2667.4	2790.9	2909.8	3000.4	3034.4	3023.0	3033.3	3051.4	3065.0
22.5°	2721.8	2724.0	2807.9	2941.5	3066.1	3165.8	3188.5	3142.0	3113.6	3126.1	3135.2
25°	2877.0	2891.6	2975.5	3112.5	3240.5	3335.7	3345.9	3275.6	3205.4	3208.8	3214.5
27.5°	3066.1	3079.7	3164.7	3300.6	3430.8	3513.5	3512.4	3418.4	3315.3	3289.2	3297.1
30°	3271.1	3285.8	3373.1	3513.5	3634.6	3707.2	3691.3	3579.2	3431.9	3383.2	3388.9
32.5°	3514.6	3523.6	3612.0	3752.5	3864.7	3922.4	3889.6	3751.4	3567.8	3512.4	3526.0
35°	3809.1	3822.7	3888.4	4021.0	4119.5	4167.0	4111.6	3948.4	3742.3	3680.0	3689.1
37.5°	4145.5	4136.5	4211.2	4329.0	4410.6	4440.0	4364.1	4170.4	3941.6	3868.0	3881.6
40°	4496.7	4492.1	4573.7	4686.9	4731.1	4749.2	4637.1	4425.3	4171.5	4092.3	4118.3
42.5°	4814.9	4811.6	4921.4	5047.1	5100.3	5080.0	4938.3	4696.0	4437.7	4347.1	4369.8
45°	5069.8	5065.2	5200.0	5376.7	5480.9	5447.0	5256.6	4995.0	4707.3	4613.3	4634.8
47.5°	5265.7	5268.0	5412.9	5631.6	5813.9	5826.4	5581.7	5299.7	5004.0	4897.6	4929.3
50°	5407.3	5414.0	5569.2	5811.6	6060.8	6170.7	5913.6	5612.3	5311.0	5191.0	5227.2
52.5°	5442.4	5454.8	5641.8	5926.0	6219.4	6428.9	6251.2	5912.5	5602.1	5487.7	5517.2
55°	5255.5	5280.4	5517.2	5917.0	6316.9	6598.8	6547.9	6217.1	5895.5	5777.7	5810.5
57.5°	4826.2	4861.4	5137.7	5659.8	6295.3	6715.5	6777.8	6509.4	6188.8	6075.6	6101.6
60°	4224.8	4266.7	4531.7	5101.5	5991.7	6758.5	6939.8	6793.7	6458.4	6348.5	6372.3
62.5°	3317.5	3371.9	3689.1	4357.4	5350.7	6558.1	7077.9	7050.8	6700.8	6563.7	6579.6
65°	2128.3	2186.0	2520.2	3309.6	4495.5	5944.2	7121.0	7301.1	6956.8	6765.3	6789.1
67.5°	1283.3	1309.3	1474.7	2005.9	3285.8	5018.8	6756.3	7578.6	7255.8	7018.0	7036.0
70°	821.1	835.9	934.4	1177.9	1857.5	3661.9	5852.4	7630.7	7618.2	7277.3	7275.0
72.5°	557.3	561.8	587.8	697.7	1051.1	2080.6	4316.6	6908.1	7844.7	7611.4	7575.2
75°	407.7	432.7	474.6	493.8	597.0	1039.8	2473.7	4853.5	6611.4	6713.2	6466.3
77.5°	303.5	304.7	362.4	385.1	425.9	553.9	1046.5	2709.3	4104.7	4309.7	3844.3
80°	257.1	243.5	242.4	310.4	320.5	345.4	467.8	935.6	1470.2	891.4	673.9
82.5°	214.1	199.4	180.1	242.4	218.6	211.8	202.7	380.6	467.8	229.9	196.0
85°	149.5	142.7	135.9	158.6	124.6	106.5	97.4	177.8	197.1	97.4	86.1
87.5°	64.6	66.8	68.0	70.2	52.1	37.4	37.4	49.8	49.8	38.5	28.3
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)