

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: P964121

Luminaire Tested: **NAV-SB3B-760-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964121
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-SB3B-760-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18866.1 lumens
Efficiency: N/A
Efficacy: 172.8 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): 109.2
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



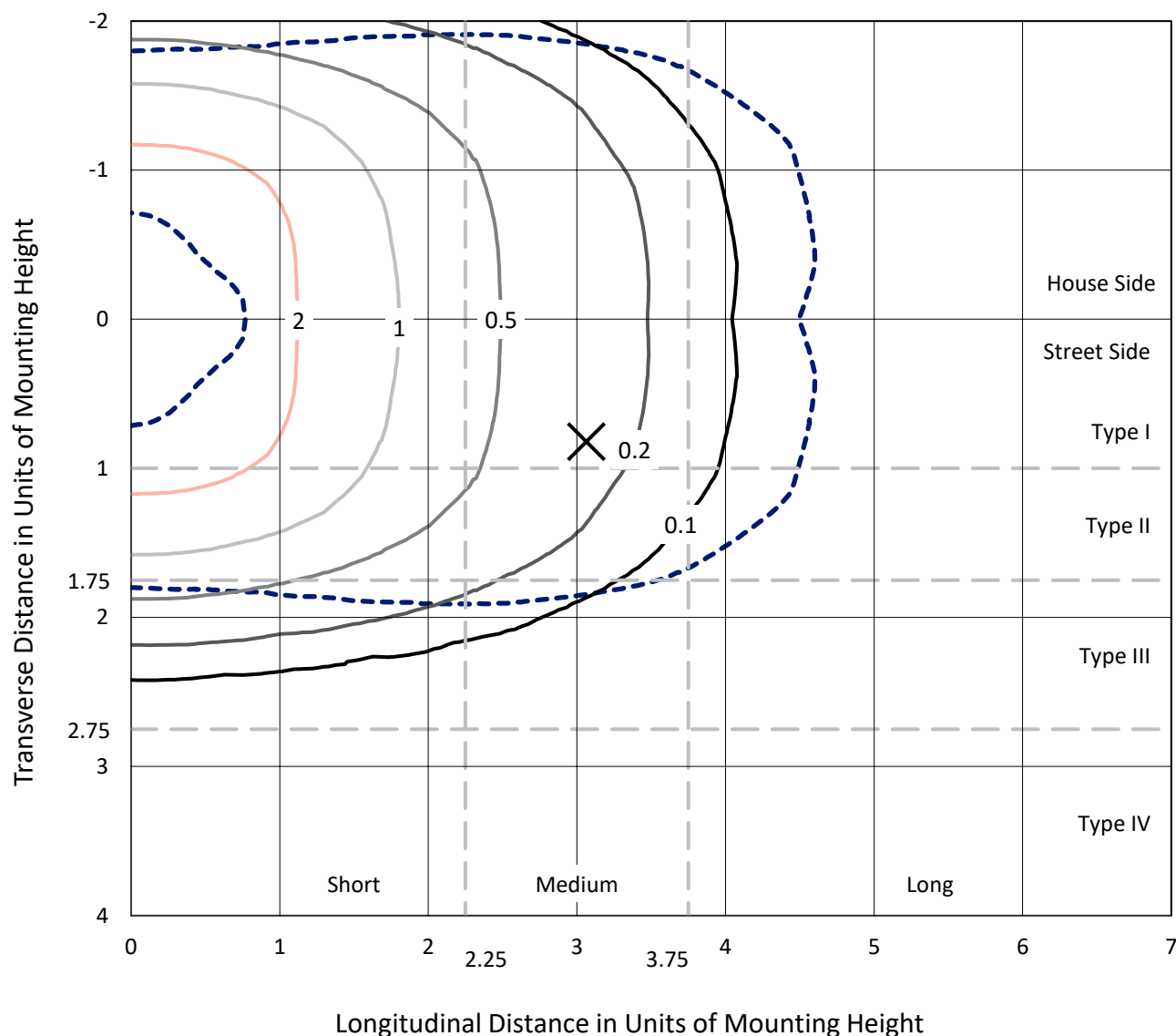
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

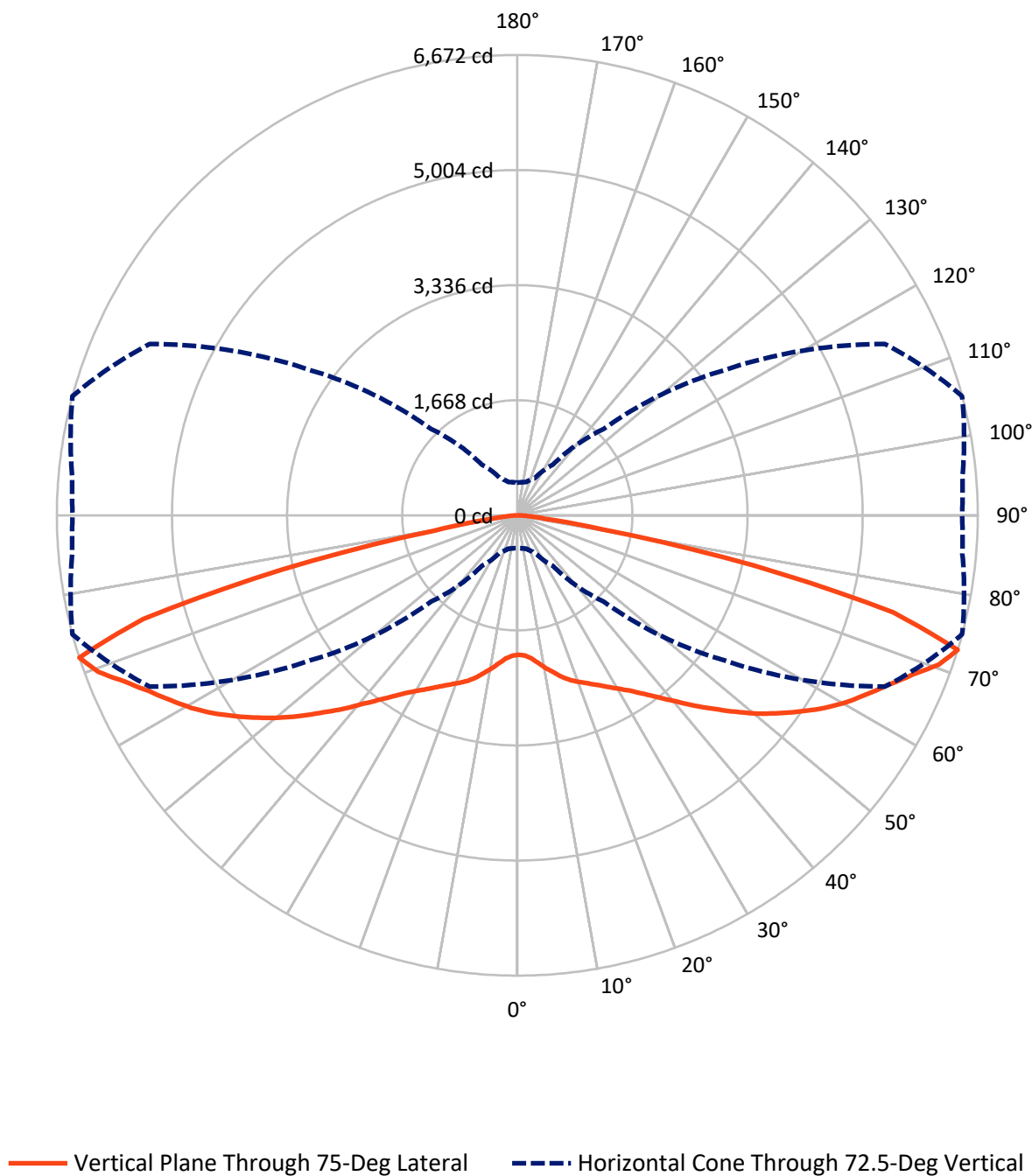


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc

Type III - Medium - N/A

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Luminous Intensity Polar Plot



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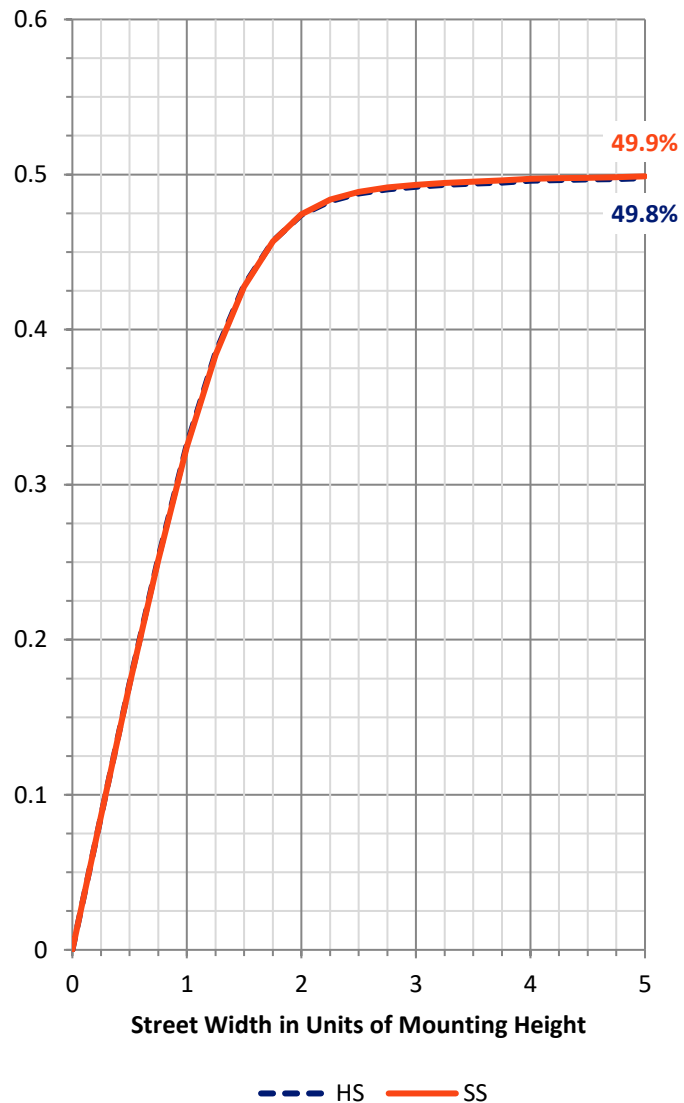
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9433.1	0.0	9433.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9433.1	0.0	9433.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	18866.1	0.0	18866.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.0	1.0
10°-20°	652.9	3.5
20°-30°	1261.6	6.7
30°-40°	2130.4	11.3
40°-50°	3378.5	17.9
50°-60°	4523.4	24.0
60°-70°	4304.9	22.8
70°-80°	2246.3	11.9
80°-90°	170.0	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°	18866.1	100.0
0°-180°	18866.1	100.0

Coefficient of Utilization



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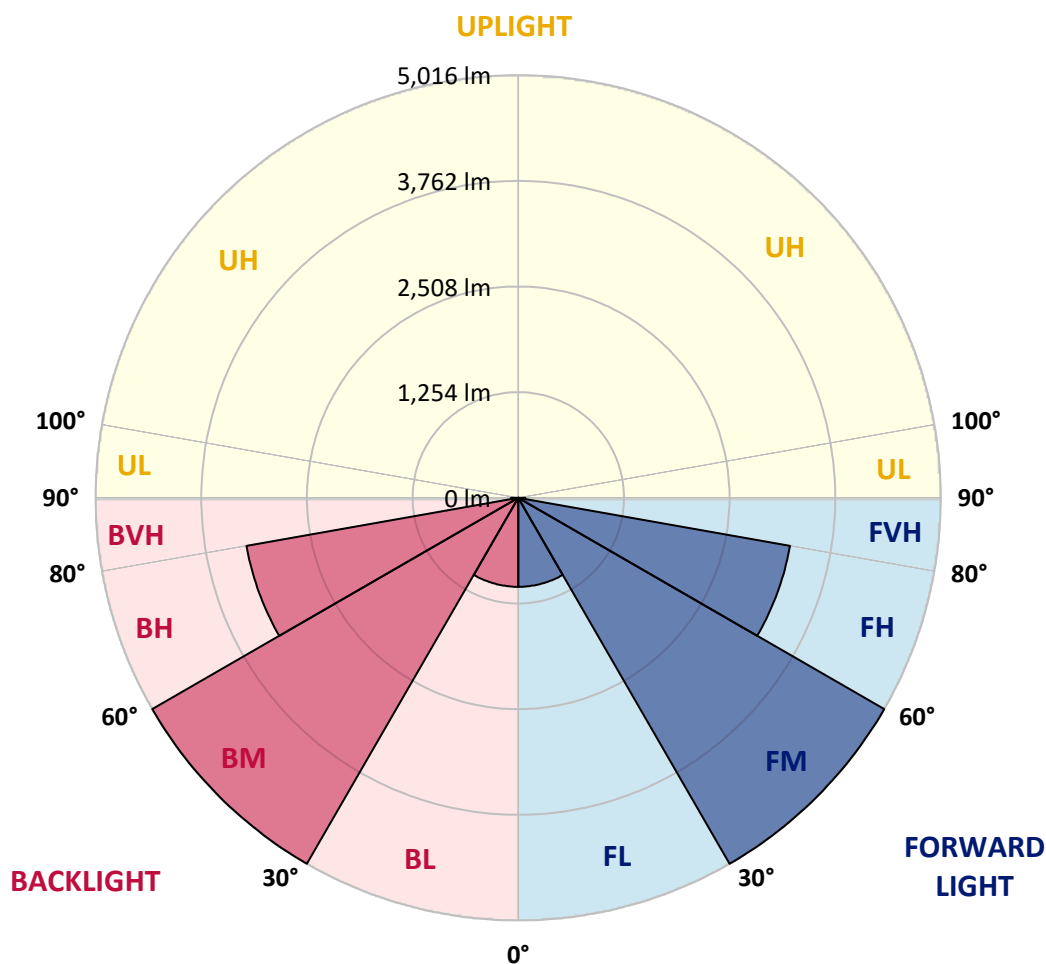
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1056.3	5.6			
FM	(30°-60°)	5016.2	26.6			
FH	(60°-80°)	3275.6	17.4			G2/5000
FVH	(80°-90°)	85.0	0.5			G1/100
BL	(0°-30°)	1056.3	5.6	B3/2500		
BM	(30°-60°)	5016.2	26.6	B4/8500		
BH	(60°-80°)	3275.6	17.4	B4/5000		G4/5000
BVH	(80°-90°)	85.0	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°	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9
2.5°	2020.9	2018.9	2020.9	2022.8	2021.9	2021.9	2026.7	2029.6	2035.3	2034.4	2033.4
5°	2007.5	2006.4	2014.1	2022.8	2029.6	2041.1	2055.5	2066.2	2079.6	2082.6	2082.6
7.5°	2000.7	1997.8	2011.3	2026.7	2047.8	2076.8	2104.7	2133.6	2156.7	2164.4	2166.3
10°	2005.5	2006.4	2024.8	2053.7	2087.4	2127.8	2167.4	2216.5	2249.2	2256.9	2264.6
12.5°	2027.7	2025.7	2056.6	2102.8	2149.0	2200.1	2246.3	2300.2	2335.9	2354.2	2361.9
15°	2068.1	2064.2	2107.6	2176.0	2243.4	2303.2	2340.7	2391.7	2433.1	2456.3	2464.9
17.5°	2116.2	2118.2	2175.0	2263.6	2352.3	2419.7	2455.3	2481.3	2513.1	2533.4	2543.0
20°	2201.0	2204.9	2268.4	2373.5	2474.6	2551.6	2580.5	2570.9	2579.6	2595.0	2606.6
22.5°	2314.7	2316.6	2387.9	2501.6	2607.5	2692.3	2711.5	2672.1	2648.0	2658.5	2666.2
25°	2446.7	2459.2	2530.4	2647.1	2755.8	2836.8	2845.4	2785.7	2726.0	2728.9	2733.7
27.5°	2607.5	2619.1	2691.3	2807.0	2917.7	2988.0	2987.1	2907.1	2819.5	2797.3	2804.0
30°	2781.8	2794.4	2868.6	2988.0	3091.1	3152.7	3139.3	3043.8	2918.7	2877.3	2882.1
32.5°	2989.0	2996.7	3071.8	3191.2	3286.7	3335.8	3307.8	3190.3	3034.2	2987.1	2998.6
35°	3239.4	3251.0	3306.9	3419.5	3503.3	3543.8	3496.6	3357.9	3182.6	3129.6	3137.3
37.5°	3525.5	3517.8	3581.4	3681.6	3750.9	3776.0	3711.4	3546.7	3352.2	3289.5	3301.1
40°	3824.1	3820.3	3889.6	3985.9	4023.5	4038.9	3943.6	3763.4	3547.6	3480.2	3502.4
42.5°	4094.8	4091.9	4185.3	4292.3	4337.5	4320.2	4199.7	3993.6	3774.0	3697.0	3716.2
45°	4311.6	4307.7	4422.3	4572.5	4661.2	4632.3	4470.4	4247.9	4003.2	3923.3	3941.6
47.5°	4478.1	4480.1	4603.4	4789.3	4944.4	4955.0	4746.9	4507.0	4255.7	4165.1	4192.0
50°	4598.6	4604.3	4736.3	4942.4	5154.3	5247.8	5029.2	4772.9	4516.7	4414.6	4445.4
52.5°	4628.4	4639.0	4797.9	5039.7	5289.2	5467.5	5316.2	5028.1	4764.2	4666.9	4692.0
55°	4469.5	4490.7	4692.0	5032.0	5372.0	5611.9	5568.5	5287.3	5013.7	4913.5	4941.5
57.5°	4104.4	4134.2	4369.3	4813.4	5353.8	5711.1	5764.1	5535.8	5263.2	5166.9	5189.1
60°	3592.9	3628.6	3854.0	4338.5	5095.6	5747.7	5901.8	5777.6	5492.5	5399.0	5419.3
62.5°	2821.4	2867.6	3137.3	3705.6	4550.4	5577.2	6019.3	5996.2	5698.6	5582.0	5595.6
65°	1809.9	1859.0	2143.3	2814.6	3823.1	5055.1	6056.0	6209.1	5916.3	5753.5	5773.7
67.5°	1091.3	1113.6	1254.2	1705.9	2794.4	4268.2	5745.8	6445.1	6170.6	5968.3	5983.7
70°	698.3	710.8	794.7	1001.7	1579.7	3114.2	4977.1	6489.4	6478.8	6188.8	6187.0
72.5°	474.0	477.8	499.9	593.4	893.9	1769.5	3670.9	5874.9	6671.5	6473.1	6442.2
75°	346.8	368.0	403.6	419.9	507.7	884.3	2103.7	4127.6	5622.5	5709.1	5499.2
77.5°	258.2	259.1	308.2	327.5	362.1	471.0	890.0	2304.1	3490.8	3665.2	3269.2
80°	218.6	207.0	206.1	263.9	272.6	293.8	397.8	795.6	1250.3	758.1	573.2
82.5°	182.0	169.5	153.1	206.1	185.9	180.1	172.4	323.7	397.8	195.6	166.7
85°	127.1	121.4	115.6	134.9	106.0	90.5	82.8	151.2	167.6	82.8	73.2
87.5°	54.9	56.8	57.8	59.8	44.3	31.8	31.8	42.3	42.3	32.8	24.1
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)