

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: P970507

Luminaire Tested: **NAV-SB6B-830-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970507
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-SB6B-830-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32385.9 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

Input Watts (W): 220.4
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

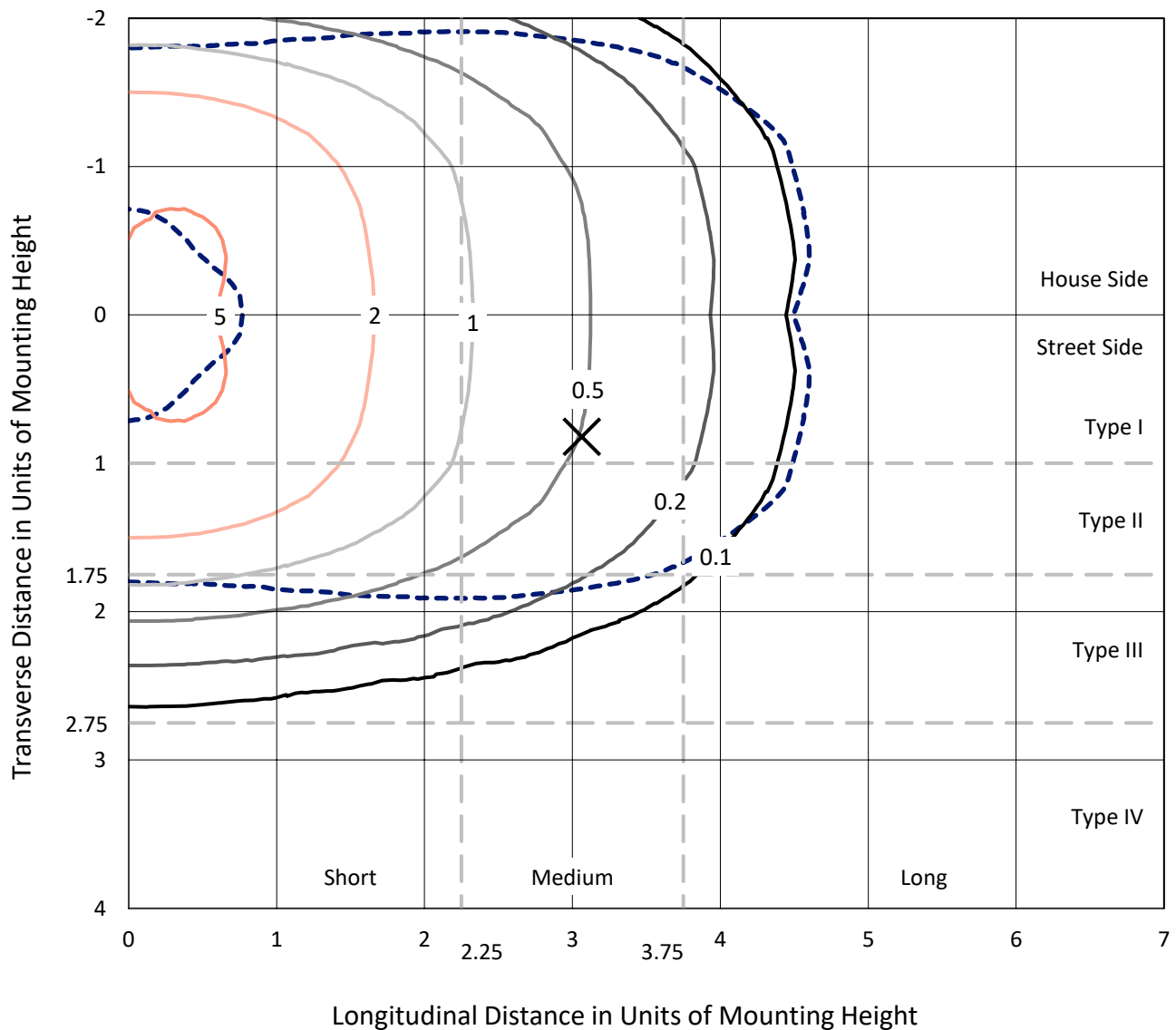


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Iso-Footcandle Lines of Horizontal Illumination

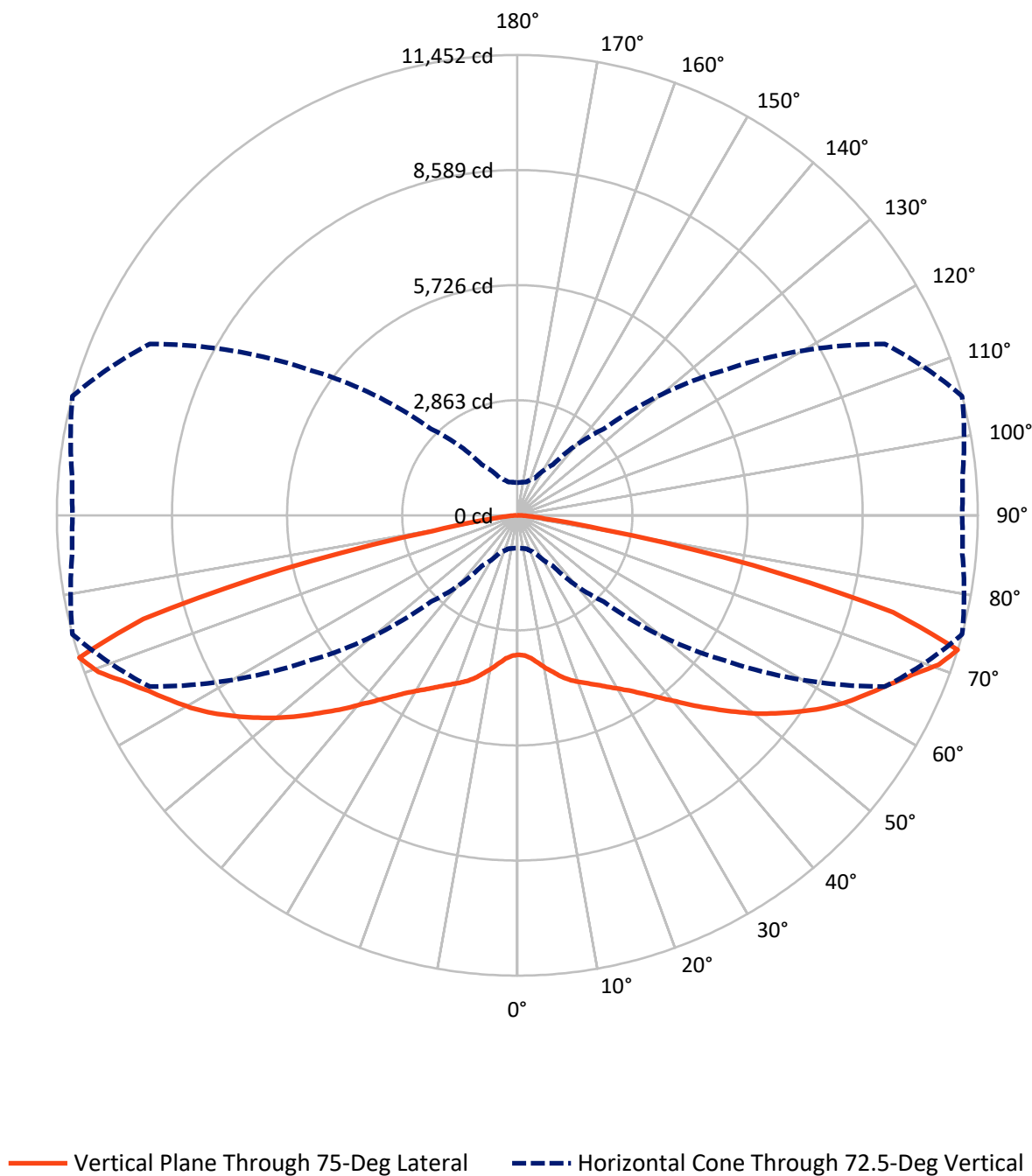
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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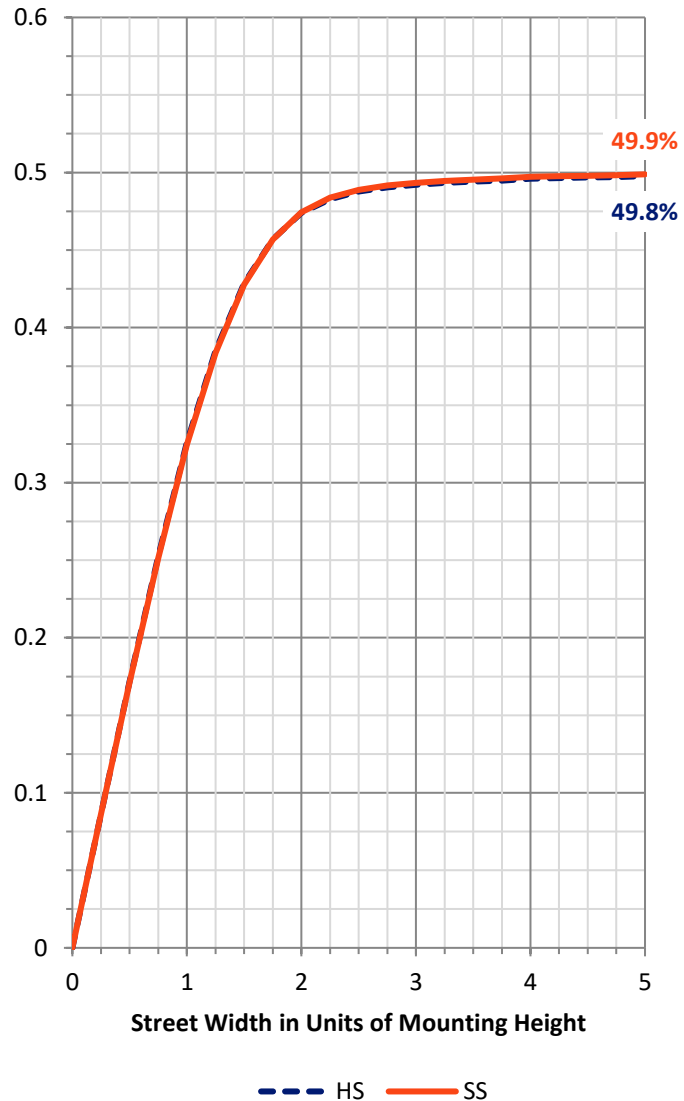
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16192.9	0.0	16192.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16192.9	0.0	16192.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	32385.9	0.0	32385.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.8	1.0
10°-20°	1120.8	3.5
20°-30°	2165.8	6.7
30°-40°	3657.0	11.3
40°-50°	5799.6	17.9
50°-60°	7765.0	24.0
60°-70°	7389.8	22.8
70°-80°	3856.1	11.9
80°-90°	291.9	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°	32385.9	100.0
0°-180°	32385.9	100.0

Coefficient of Utilization



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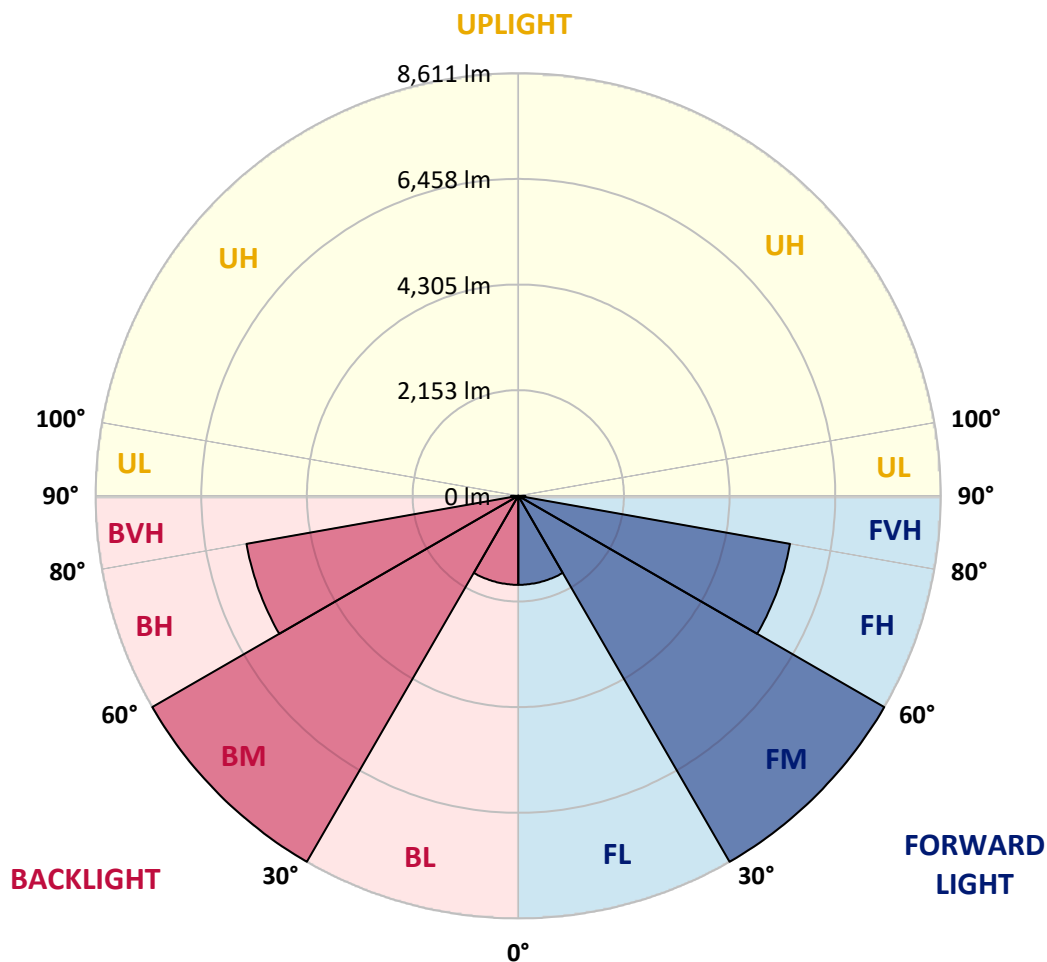
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1813.2	5.6			
FM	(30°-60°)	8610.8	26.6			
FH	(60°-80°)	5623.0	17.4			G3/7500
FVH	(80°-90°)	145.9	0.5			G2/225
BL	(0°-30°)	1813.2	5.6	B3/2500		
BM	(30°-60°)	8610.8	26.6	B5		
BH	(60°-80°)	5623.0	17.4	B5		G5
BVH	(80°-90°)	145.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3469.1	3469.1	3469.1	3469.1	3469.1	3469.1	3469.1	3469.1	3469.1	3469.1	3469.1
2.5°	3469.1	3465.8	3469.1	3472.4	3470.8	3470.8	3479.1	3484.0	3493.9	3492.3	3490.6
5°	3445.9	3444.3	3457.5	3472.4	3484.0	3503.9	3528.7	3546.8	3570.0	3574.9	3574.9
7.5°	3434.4	3429.4	3452.6	3479.1	3515.4	3565.1	3612.9	3662.5	3702.3	3715.5	3718.8
10°	3442.7	3444.3	3475.8	3525.3	3583.2	3652.7	3720.4	3804.8	3861.0	3874.2	3887.4
12.5°	3480.7	3477.4	3530.3	3609.6	3689.1	3776.7	3856.0	3948.6	4009.8	4041.3	4054.5
15°	3550.1	3543.5	3617.9	3735.3	3851.0	3953.6	4018.1	4105.7	4176.8	4216.5	4231.4
17.5°	3632.8	3636.1	3733.7	3885.8	4037.9	4153.7	4214.9	4259.5	4314.0	4348.8	4365.4
20°	3778.4	3784.9	3894.1	4074.3	4247.9	4380.2	4429.8	4413.2	4428.2	4454.6	4474.4
22.5°	3973.4	3976.8	4099.1	4294.2	4476.1	4621.6	4654.7	4586.9	4545.6	4563.7	4576.9
25°	4199.9	4221.5	4343.8	4543.9	4730.8	4869.7	4884.5	4782.0	4679.5	4684.5	4692.8
27.5°	4476.1	4496.0	4620.0	4818.4	5008.6	5129.3	5127.6	4990.3	4839.8	4801.8	4813.4
30°	4775.4	4796.9	4924.2	5129.3	5306.2	5412.0	5388.8	5225.1	5010.2	4939.1	4947.4
32.5°	5130.9	5144.2	5273.1	5478.1	5641.8	5726.2	5678.2	5476.5	5208.6	5127.6	5147.4
35°	5560.8	5580.7	5676.6	5870.1	6013.9	6083.4	6002.3	5764.2	5463.2	5372.3	5385.6
37.5°	6051.9	6038.7	6147.8	6319.8	6438.8	6481.9	6371.1	6088.3	5754.2	5646.8	5666.6
40°	6564.5	6558.0	6677.0	6842.3	6906.8	6933.3	6769.5	6460.4	6089.9	5974.2	6012.2
42.5°	7029.1	7024.2	7184.6	7368.1	7445.8	7416.1	7209.4	6855.5	6478.5	6346.3	6379.3
45°	7401.2	7394.6	7591.4	7849.3	8001.5	7951.8	7674.1	7292.1	6872.1	6734.9	6766.2
47.5°	7687.3	7690.6	7902.2	8221.3	8487.6	8505.8	8148.6	7736.9	7305.3	7149.9	7196.2
50°	7893.9	7903.9	8130.4	8484.2	8848.0	9008.4	8633.1	8193.2	7753.4	7578.1	7631.0
52.5°	7945.2	7963.4	8236.3	8651.3	9079.6	9385.4	9125.9	8631.4	8178.4	8011.4	8054.3
55°	7672.4	7708.7	8054.3	8638.1	9221.7	9633.5	9559.0	9076.3	8606.6	8434.6	8482.6
57.5°	7045.7	7097.0	7500.4	8262.7	9190.4	9803.8	9894.7	9502.9	9034.9	8869.5	8907.6
60°	6167.6	6228.8	6615.8	7447.5	8747.1	9866.6	10131.2	9917.9	9428.5	9268.0	9302.8
62.5°	4843.2	4922.6	5385.6	6361.2	7811.3	9573.9	10332.9	10293.3	9782.3	9582.2	9605.4
65°	3107.0	3191.3	3679.1	4831.6	6562.9	8677.8	10395.8	10658.7	10156.0	9876.6	9911.2
67.5°	1873.5	1911.5	2152.9	2928.4	4796.9	7326.8	9863.3	11063.7	10592.6	10245.3	10271.7
70°	1198.8	1220.3	1364.2	1719.6	2711.8	5345.9	8543.8	11139.8	11121.7	10623.9	10620.6
72.5°	813.5	820.1	858.2	1018.5	1534.5	3037.6	6301.6	10084.9	11452.3	11111.7	11058.8
75°	595.3	631.6	692.8	721.0	871.5	1517.9	3611.3	7085.4	9651.7	9800.4	9440.0
77.5°	443.1	444.8	529.1	562.2	621.8	808.6	1527.9	3955.3	5992.4	6291.7	5612.1
80°	375.4	355.5	353.8	453.0	467.9	504.3	683.0	1365.8	2146.2	1301.3	983.9
82.5°	312.5	291.0	262.9	353.8	319.1	309.2	296.0	555.6	683.0	335.7	286.1
85°	218.2	208.4	198.4	231.4	181.9	155.4	142.2	259.6	287.7	142.2	125.7
87.5°	94.3	97.6	99.2	102.5	76.1	54.5	54.5	72.8	72.8	56.2	41.3
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)