

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: P968244

Luminaire Tested: **NAV-SB5B-735-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968244
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-SB5B-735-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 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: 30023.3 lumens
Efficiency: N/A
Efficacy: 164.3 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): 182.7
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

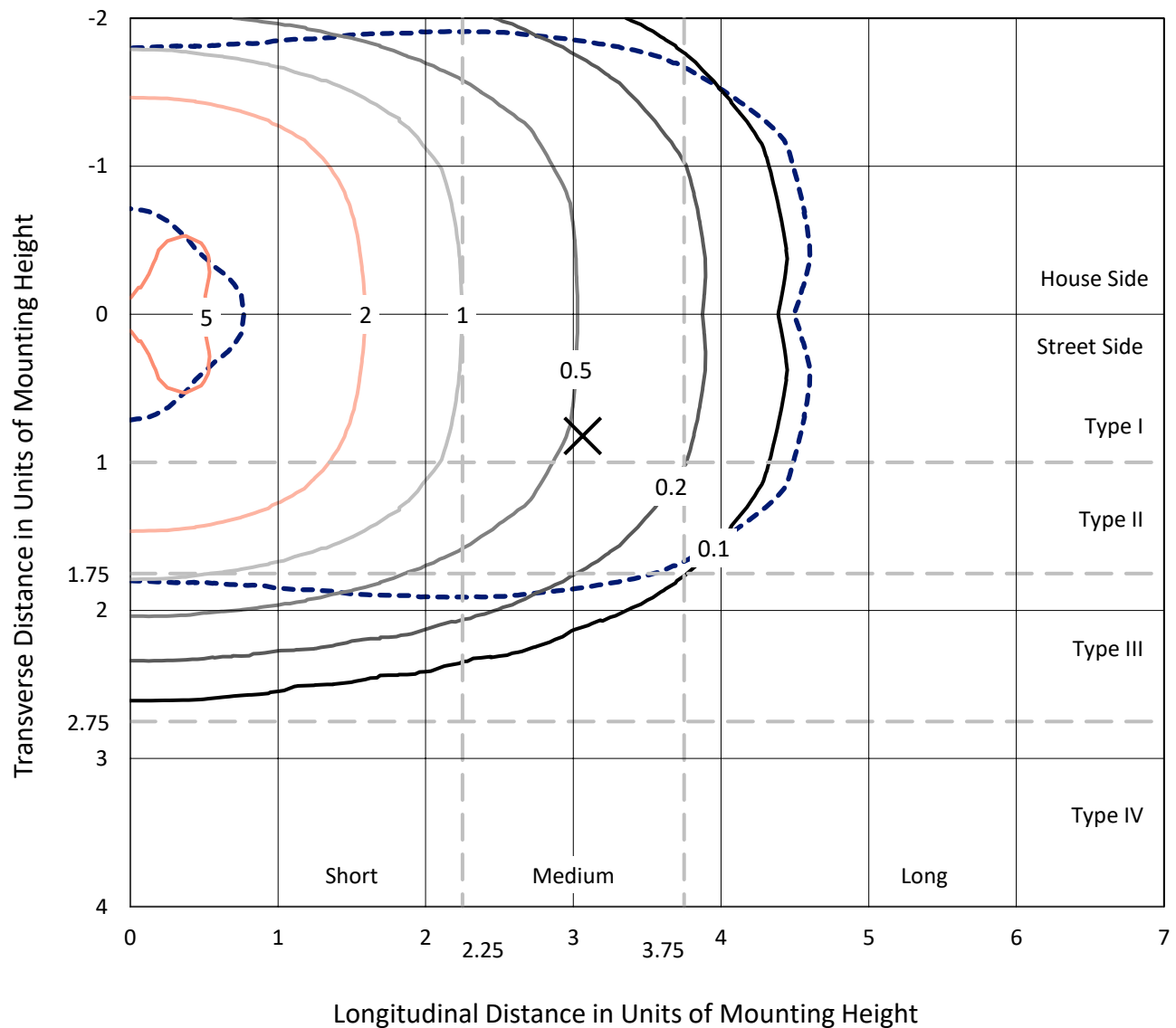


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

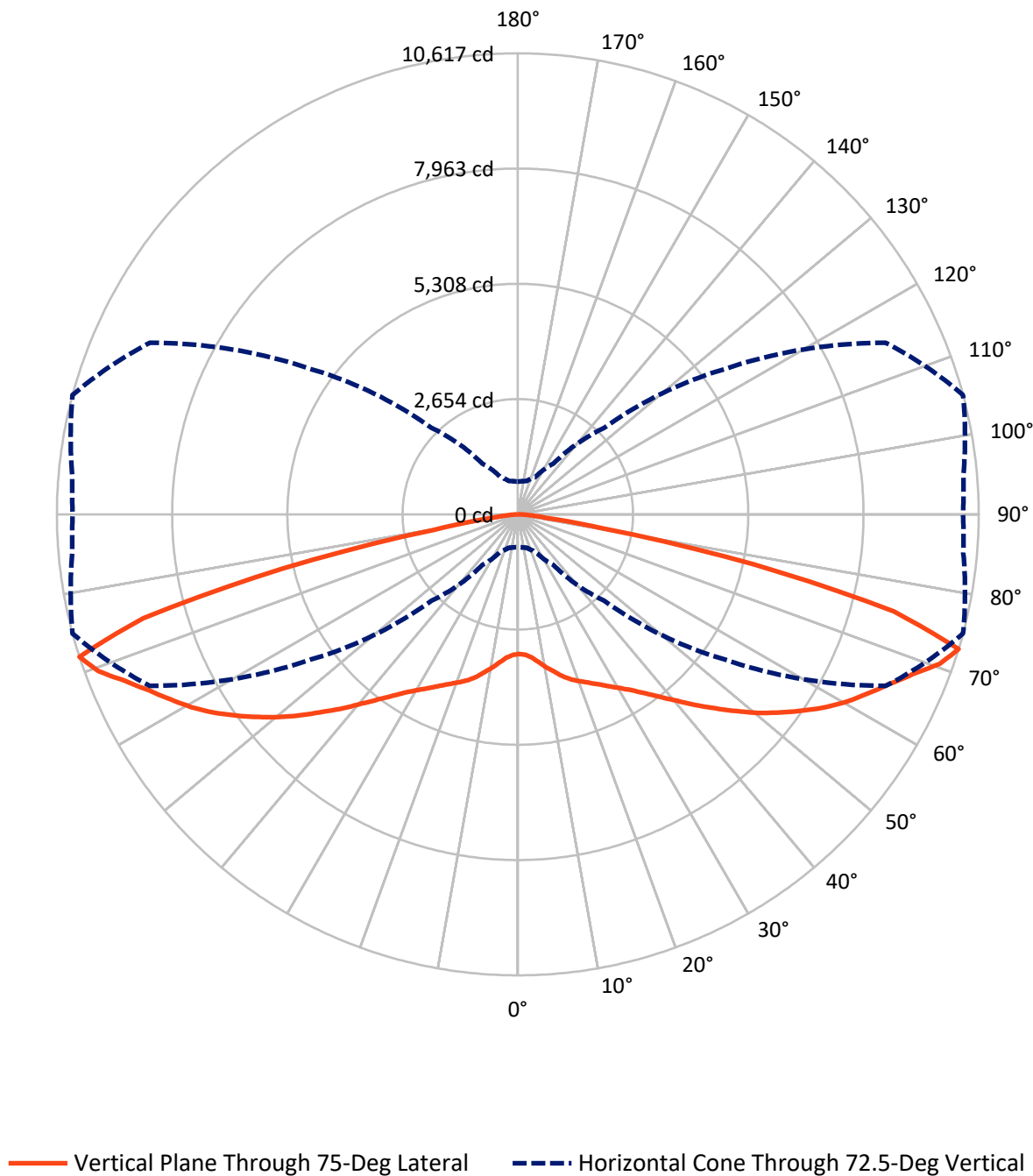


Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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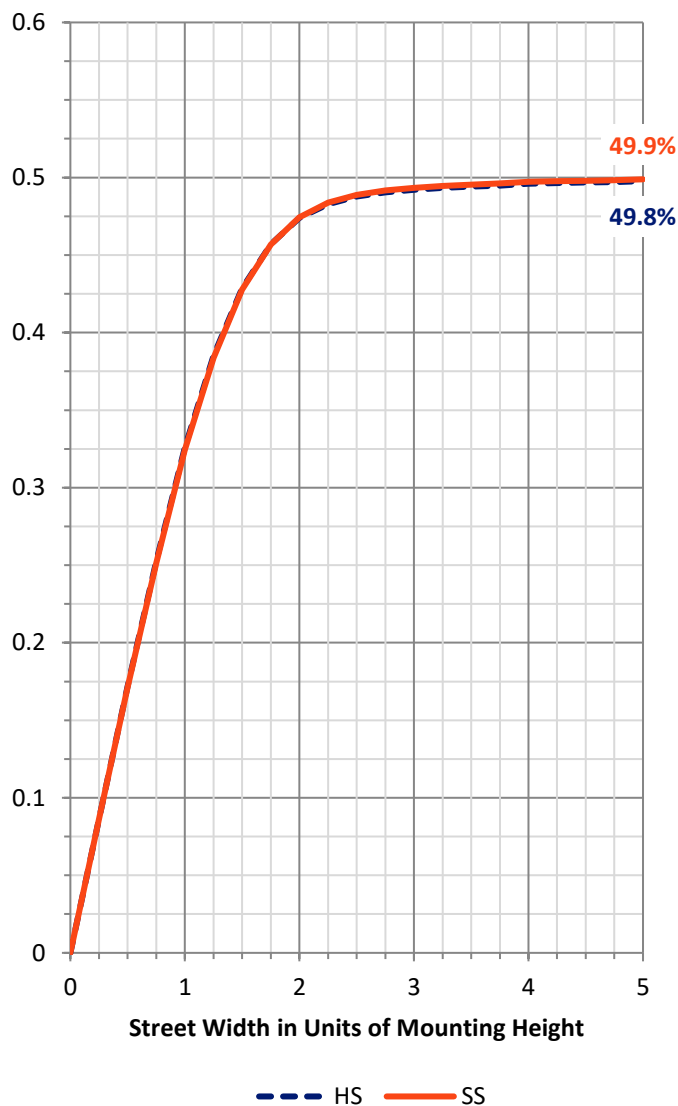
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15011.6	0.0	15011.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15011.6	0.0	15011.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	30023.3	0.0	30023.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.0	1.0
10°-20°	1039.1	3.5
20°-30°	2007.8	6.7
30°-40°	3390.2	11.3
40°-50°	5376.5	17.9
50°-60°	7198.5	24.0
60°-70°	6850.7	22.8
70°-80°	3574.8	11.9
80°-90°	270.6	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°	30023.3	100.0
0°-180°	30023.3	100.0

Coefficient of Utilization



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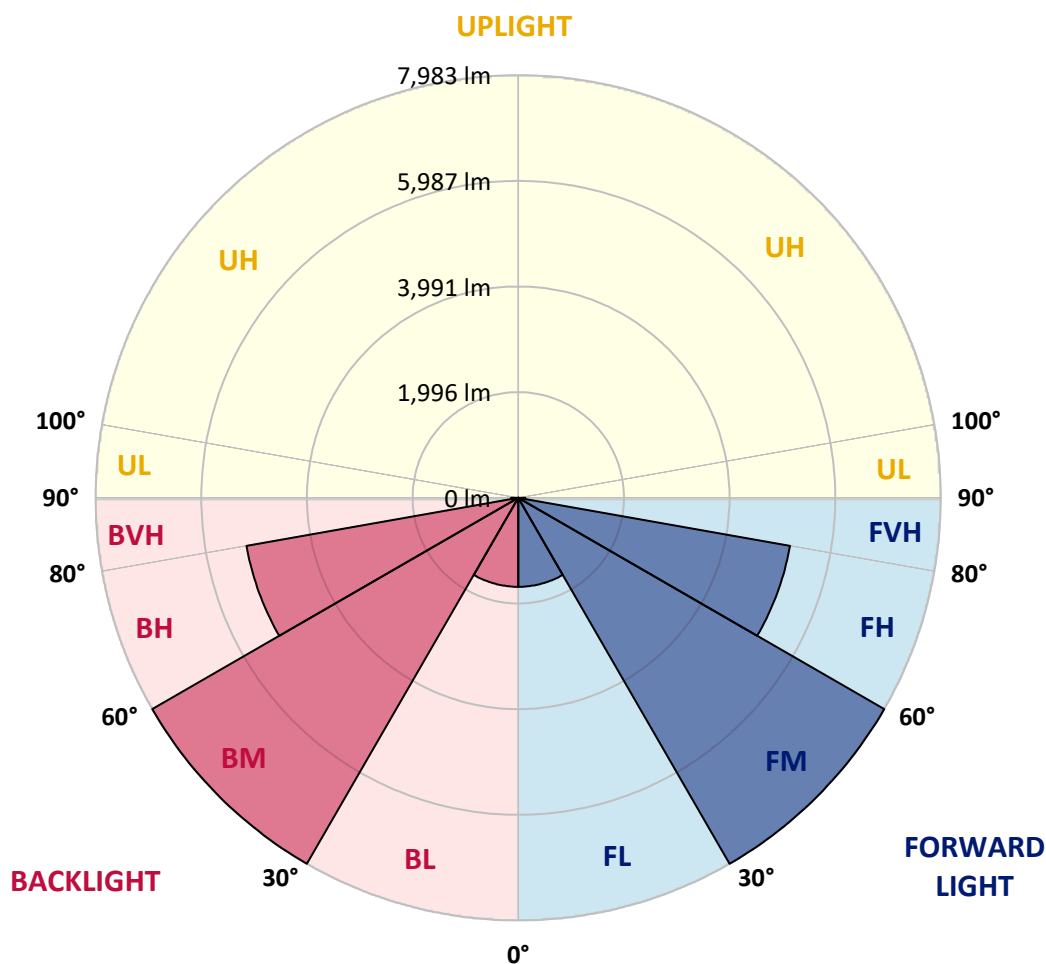
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1680.9	5.6			
FM	(30°-60°)	7982.6	26.6			
FH	(60°-80°)	5212.8	17.4			G3/7500
FVH	(80°-90°)	135.3	0.5			G2/225
BL	(0°-30°)	1680.9	5.6	B3/2500		
BM	(30°-60°)	7982.6	26.6	B4/8500		
BH	(60°-80°)	5212.8	17.4	B5		G5
BVH	(80°-90°)	135.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	3216.0	3216.0	3216.0	3216.0	3216.0	3216.0	3216.0	3216.0	3216.0	3216.0	3216.0
2.5°	3216.0	3213.0	3216.0	3219.1	3217.6	3217.6	3225.3	3229.9	3239.0	3237.5	3235.9
5°	3194.6	3193.1	3205.3	3219.1	3229.9	3248.2	3271.2	3288.1	3309.5	3314.1	3314.1
7.5°	3183.9	3179.2	3200.7	3225.3	3259.0	3304.9	3349.4	3395.4	3432.2	3444.4	3447.5
10°	3191.5	3193.1	3222.2	3268.1	3321.8	3386.2	3449.0	3527.2	3579.3	3591.6	3603.9
12.5°	3226.8	3223.7	3272.7	3346.3	3419.9	3501.2	3574.7	3660.6	3717.3	3746.4	3758.7
15°	3291.2	3285.0	3354.0	3462.9	3570.2	3665.2	3725.0	3806.2	3872.1	3908.9	3922.7
17.5°	3367.7	3370.8	3461.3	3602.4	3743.3	3850.6	3907.4	3948.7	3999.3	4031.5	4046.9
20°	3502.7	3508.8	3609.9	3777.0	3938.0	4060.6	4106.7	4091.3	4105.1	4129.6	4148.1
22.5°	3683.5	3686.6	3800.1	3981.0	4149.6	4284.5	4315.1	4252.3	4214.0	4230.8	4243.1
25°	3893.6	3913.4	4026.9	4212.4	4385.7	4514.4	4528.2	4433.1	4338.1	4342.7	4350.4
27.5°	4149.6	4168.0	4283.0	4466.8	4643.1	4755.1	4753.5	4626.3	4486.8	4451.6	4462.2
30°	4427.0	4447.0	4564.9	4755.1	4919.1	5017.2	4995.7	4843.9	4644.7	4578.8	4586.5
32.5°	4756.6	4768.8	4888.4	5078.5	5230.3	5308.5	5264.0	5076.9	4828.7	4753.5	4771.9
35°	5155.1	5173.6	5262.5	5441.8	5575.2	5639.5	5564.4	5343.7	5064.7	4980.4	4992.7
37.5°	5610.4	5598.1	5699.3	5858.8	5969.1	6009.0	5906.3	5644.2	5334.5	5234.9	5253.2
40°	6085.6	6079.5	6189.9	6343.1	6403.0	6427.5	6275.7	5989.1	5645.7	5538.4	5573.6
42.5°	6516.3	6511.7	6660.4	6830.6	6902.7	6875.1	6683.4	6355.4	6005.9	5883.3	5913.9
45°	6861.2	6855.1	7037.5	7276.7	7417.7	7371.7	7114.2	6760.1	6370.8	6243.5	6272.6
47.5°	7126.4	7129.5	7325.8	7621.6	7868.4	7885.2	7554.1	7172.4	6772.4	6628.3	6671.2
50°	7318.1	7327.3	7537.2	7865.3	8202.6	8351.3	8003.3	7595.6	7187.8	7025.2	7074.3
52.5°	7365.5	7382.5	7635.4	8020.1	8417.2	8700.7	8460.0	8001.8	7581.7	7426.9	7466.8
55°	7112.7	7146.4	7466.8	8007.9	8549.0	8930.7	8861.7	8414.1	7978.8	7819.3	7863.8
57.5°	6531.7	6579.3	6953.3	7659.9	8519.9	9088.6	9172.9	8809.6	8375.8	8222.4	8257.7
60°	5717.8	5774.4	6133.2	6904.2	8109.1	9146.8	9392.1	9194.4	8740.6	8592.0	8624.1
62.5°	4489.9	4563.4	4992.7	5897.0	7241.4	8875.5	9579.1	9542.3	9068.7	8883.2	8904.6
65°	2880.4	2958.5	3410.7	4479.1	6084.1	8044.7	9637.4	9881.1	9415.1	9156.0	9188.2
67.5°	1736.8	1772.0	1995.9	2714.8	4447.0	6792.3	9143.7	10256.7	9819.8	9497.9	9522.4
70°	1111.3	1131.3	1264.6	1594.2	2513.9	4955.9	7920.5	10327.2	10310.3	9848.9	9845.8
72.5°	754.2	760.3	795.6	944.2	1422.5	2816.0	5841.9	9349.1	10616.8	10301.1	10252.0
75°	551.9	585.6	642.3	668.3	807.8	1407.2	3347.9	6568.5	8947.5	9085.5	8751.3
77.5°	410.8	412.4	490.6	521.2	576.4	749.6	1416.4	3666.7	5555.2	5832.7	5202.7
80°	348.0	329.5	328.0	420.0	433.8	467.5	633.0	1266.2	1989.7	1206.4	912.0
82.5°	289.8	269.8	243.7	328.0	295.8	286.7	274.4	515.1	633.0	311.2	265.2
85°	202.3	193.1	184.0	214.6	168.6	144.1	131.8	240.7	266.7	131.8	116.5
87.5°	87.3	90.4	91.9	95.0	70.5	50.6	50.6	67.4	67.4	52.1	38.3
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)