

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: P969856

Luminaire Tested: **NAV-SB6A-740-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969856
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-SB6A-740-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30375.9 lumens
Efficiency: N/A
Efficacy: 177.7 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): 170.9
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



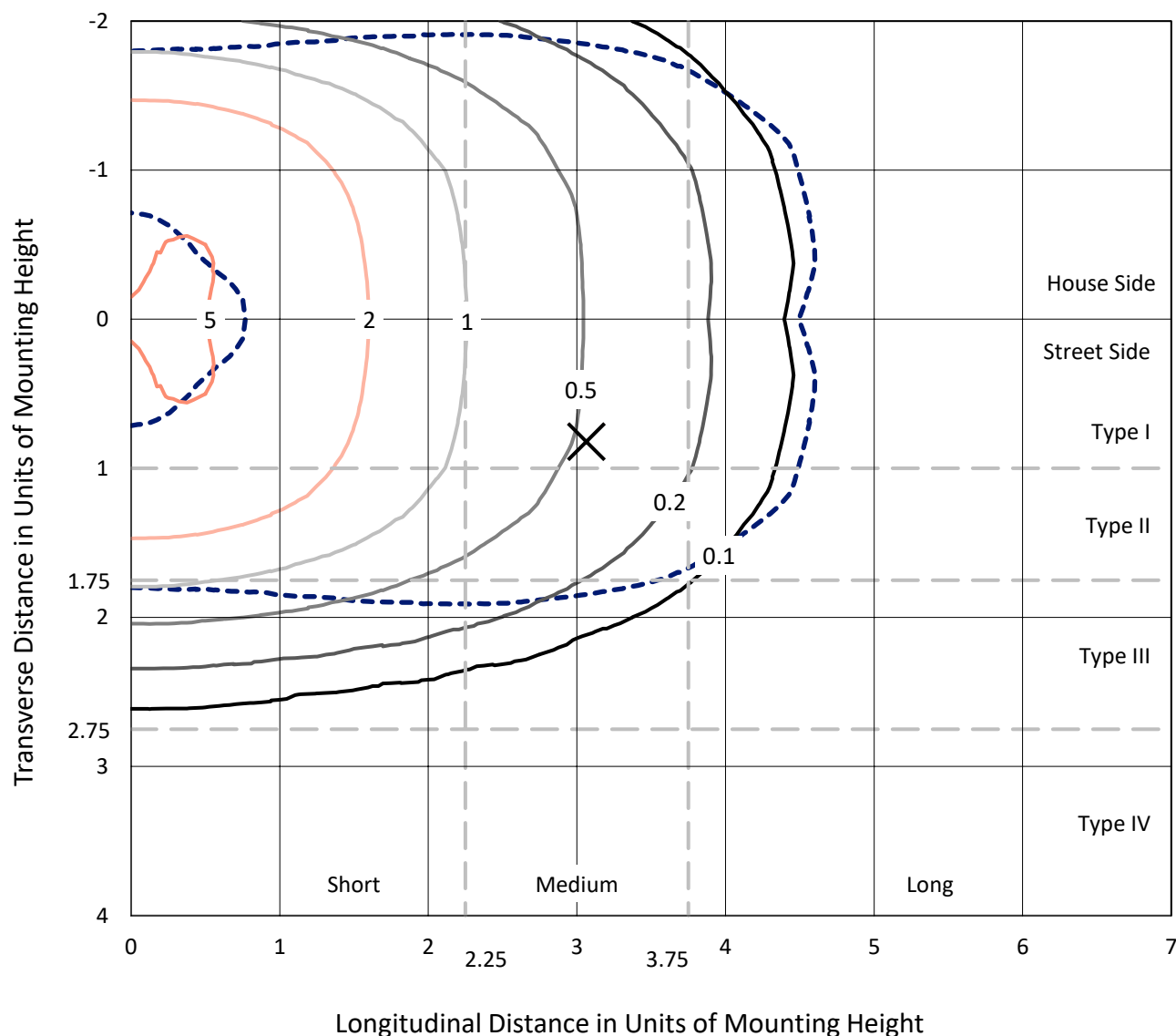
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

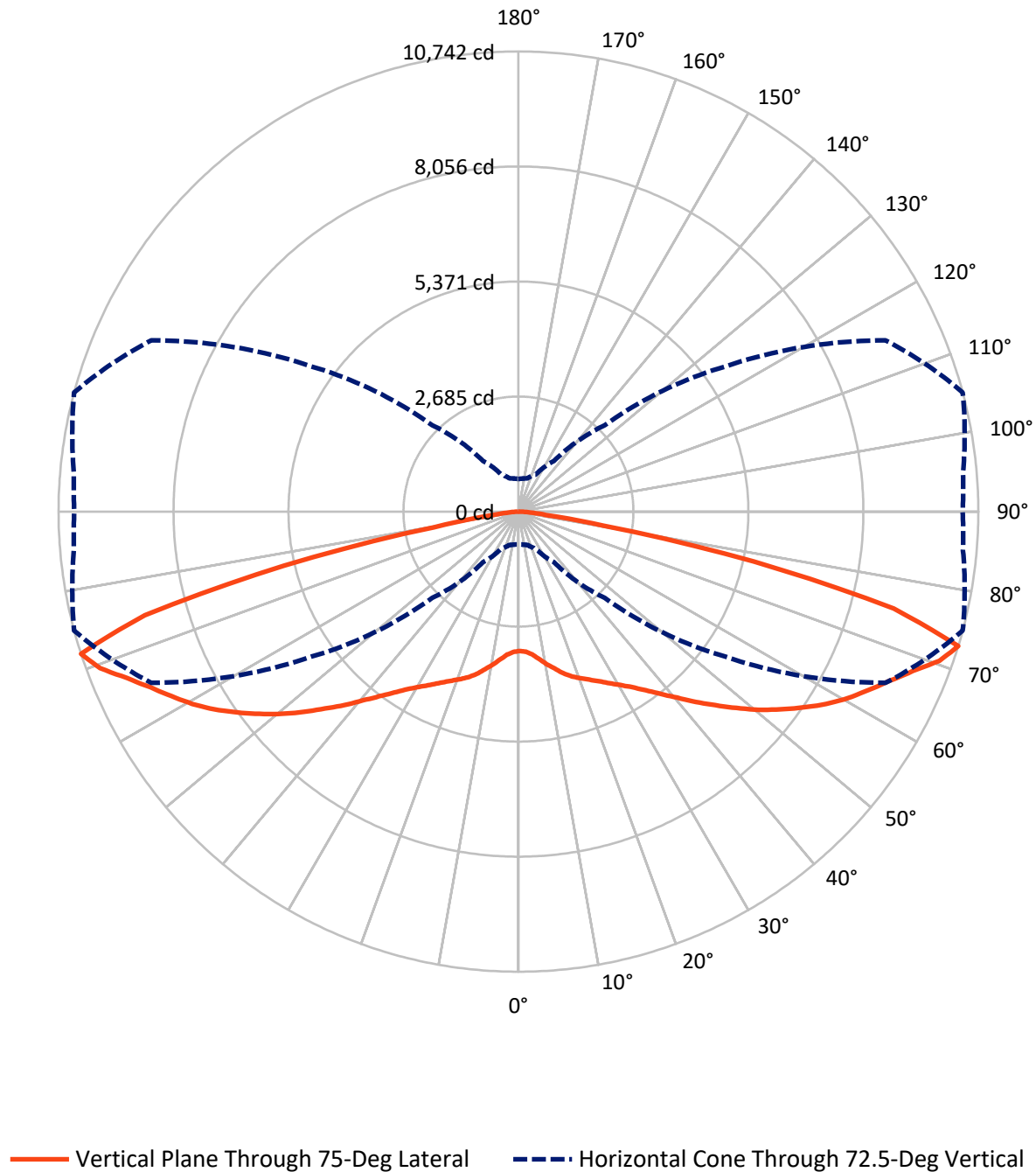
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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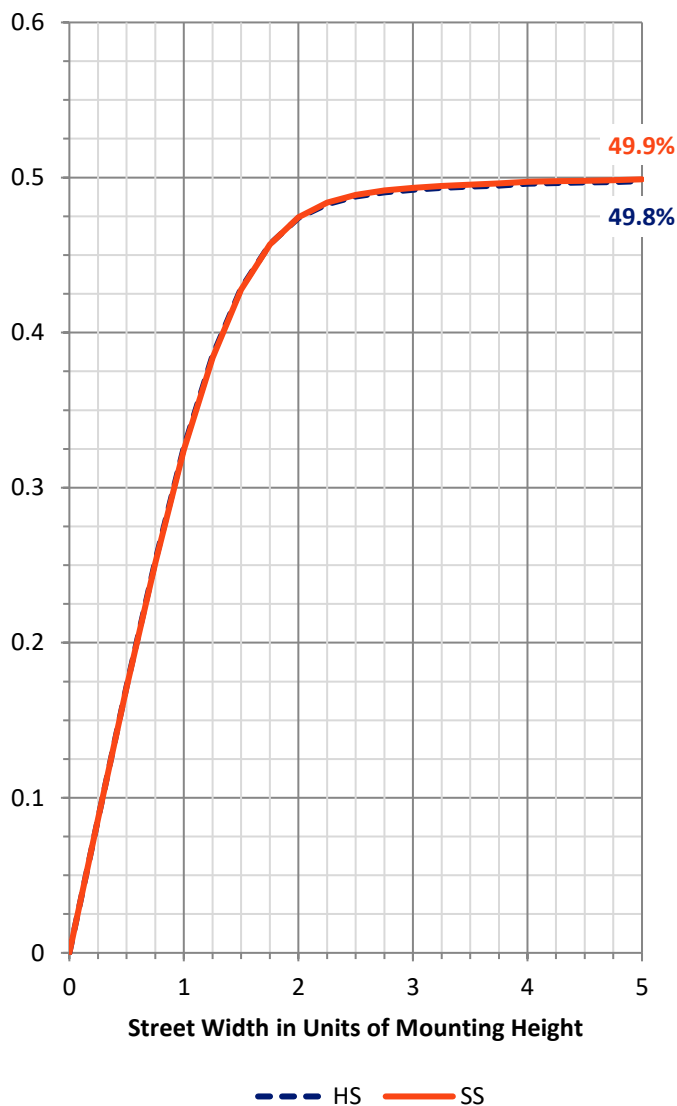
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15187.9	0.0	15187.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15187.9	0.0	15187.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	30375.9	0.0	30375.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.7	1.0
10°-20°	1051.3	3.5
20°-30°	2031.3	6.7
30°-40°	3430.0	11.3
40°-50°	5439.7	17.9
50°-60°	7283.1	24.0
60°-70°	6931.1	22.8
70°-80°	3616.8	11.9
80°-90°	273.8	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°	30375.9	100.0
0°-180°	30375.9	100.0

Coefficient of Utilization



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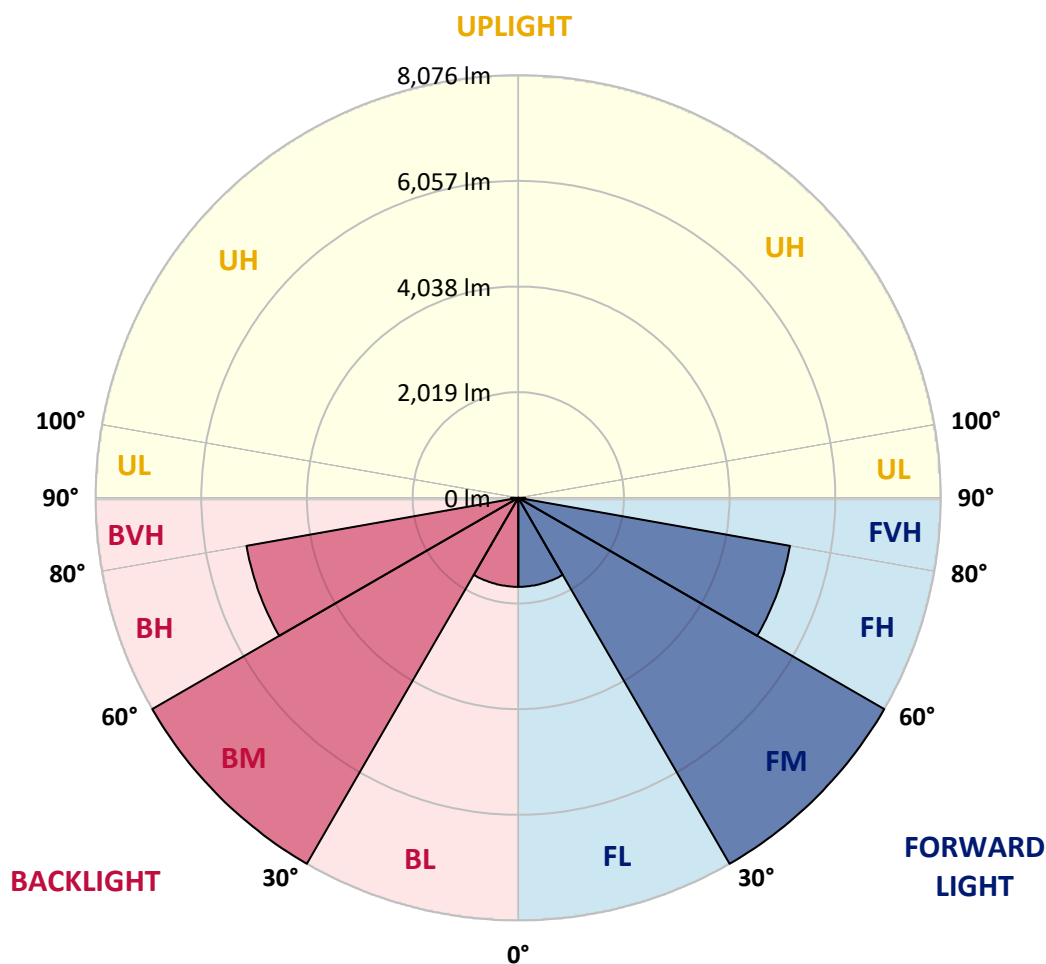
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1700.7	5.6			
FM	(30°-60°)	8076.4	26.6			
FH	(60°-80°)	5274.0	17.4			G3/7500
FVH	(80°-90°)	136.9	0.5			G2/225
BL	(0°-30°)	1700.7	5.6	B3/2500		
BM	(30°-60°)	8076.4	26.6	B4/8500		
BH	(60°-80°)	5274.0	17.4	B5		G5
BVH	(80°-90°)	136.9	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°	3253.8	3253.8	3253.8	3253.8	3253.8	3253.8	3253.8	3253.8	3253.8	3253.8	3253.8
2.5°	3253.8	3250.7	3253.8	3256.9	3255.4	3255.4	3263.1	3267.8	3277.0	3275.5	3274.0
5°	3232.1	3230.5	3242.9	3256.9	3267.8	3286.4	3309.6	3326.7	3348.4	3353.1	3353.1
7.5°	3221.3	3216.6	3238.3	3263.1	3297.2	3343.8	3388.8	3435.3	3472.5	3484.9	3488.0
10°	3229.0	3230.5	3260.0	3306.5	3360.8	3426.0	3489.5	3568.6	3621.3	3633.7	3646.1
12.5°	3264.6	3261.5	3311.2	3385.7	3460.1	3542.3	3616.7	3703.5	3760.9	3790.4	3802.9
15°	3329.8	3323.6	3393.4	3503.4	3612.1	3708.2	3768.7	3850.9	3917.6	3954.9	3968.8
17.5°	3407.3	3410.5	3501.9	3644.6	3787.3	3895.9	3953.2	3995.1	4046.3	4078.9	4094.4
20°	3543.8	3550.0	3652.4	3821.4	3984.3	4108.3	4154.8	4139.4	4153.3	4178.1	4196.8
22.5°	3726.8	3730.0	3844.7	4027.7	4198.3	4334.8	4365.8	4302.2	4263.5	4280.5	4292.9
25°	3939.3	3959.5	4074.3	4261.8	4437.1	4567.4	4581.3	4485.2	4389.0	4393.8	4401.5
27.5°	4198.3	4217.0	4333.2	4519.3	4697.7	4810.9	4809.4	4680.7	4539.5	4503.8	4514.7
30°	4479.0	4499.1	4618.5	4810.9	4976.9	5076.1	5054.4	4900.8	4699.2	4632.6	4640.3
32.5°	4812.5	4824.9	4945.8	5138.1	5291.7	5370.8	5325.8	5136.6	4885.4	4809.4	4828.0
35°	5215.7	5234.3	5324.3	5505.7	5640.7	5705.8	5629.8	5406.5	5124.2	5038.9	5051.3
37.5°	5676.3	5663.9	5766.2	5927.6	6039.2	6079.6	5975.6	5710.5	5397.1	5296.4	5314.9
40°	6157.1	6150.9	6262.5	6417.6	6478.1	6502.9	6349.4	6059.4	5712.0	5603.5	5639.1
42.5°	6592.9	6588.3	6738.7	6910.9	6983.7	6955.9	6761.9	6430.0	6076.4	5952.4	5983.4
45°	6941.8	6935.7	7120.2	7362.2	7504.8	7458.3	7197.8	6839.5	6445.6	6316.9	6346.3
47.5°	7210.2	7213.2	7411.8	7711.1	7960.8	7977.9	7642.9	7256.7	6851.9	6706.2	6749.5
50°	7404.0	7413.3	7625.8	7957.7	8298.9	8449.4	8097.3	7684.7	7272.2	7107.8	7157.5
52.5°	7452.1	7469.2	7725.0	8114.3	8516.0	8802.9	8559.5	8095.8	7670.8	7514.2	7554.5
55°	7196.2	7230.4	7554.5	8101.9	8649.4	9035.6	8965.8	8512.9	8072.5	7911.2	7956.2
57.5°	6608.4	6656.5	7034.9	7749.9	8619.9	9195.3	9280.7	8913.1	8474.2	8319.1	8354.8
60°	5784.9	5842.3	6205.1	6985.3	8204.3	9254.2	9502.4	9302.3	8843.3	8692.8	8725.4
62.5°	4542.6	4617.0	5051.3	5966.3	7326.5	8979.7	9691.6	9654.4	9175.2	8987.5	9009.2
65°	2914.2	2993.2	3450.8	4531.7	6155.5	8139.1	9750.5	9997.1	9525.6	9263.5	9296.1
67.5°	1757.2	1792.8	2019.2	2746.7	4499.1	6872.1	9251.1	10377.1	9935.1	9609.4	9634.2
70°	1124.4	1144.6	1279.5	1612.9	2543.4	5014.1	8013.6	10448.4	10431.4	9964.5	9961.5
72.5°	763.0	769.3	804.9	955.4	1439.2	2849.0	5910.5	9459.0	10741.6	10422.1	10372.5
75°	558.3	592.4	649.8	676.2	817.3	1423.7	3387.2	6645.6	9052.6	9192.2	8854.2
77.5°	415.6	417.2	496.3	527.3	583.1	758.4	1433.1	3709.8	5620.5	5901.2	5263.8
80°	352.1	333.4	331.9	425.0	438.9	473.0	640.5	1281.0	2013.1	1220.6	922.8
82.5°	293.2	273.0	246.6	331.9	299.3	290.0	277.6	521.1	640.5	314.9	268.3
85°	204.7	195.4	186.1	217.1	170.6	145.8	133.4	243.5	269.9	133.4	117.9
87.5°	88.4	91.5	93.1	96.1	71.3	51.1	51.1	68.3	68.3	52.7	38.7
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)