

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: P966694

Luminaire Tested: **NAV-SB4C-740-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966694
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-SB4C-740-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33516.5 lumens
Efficiency: N/A
Efficacy: 167.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

Input Watts (W): 200.7
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



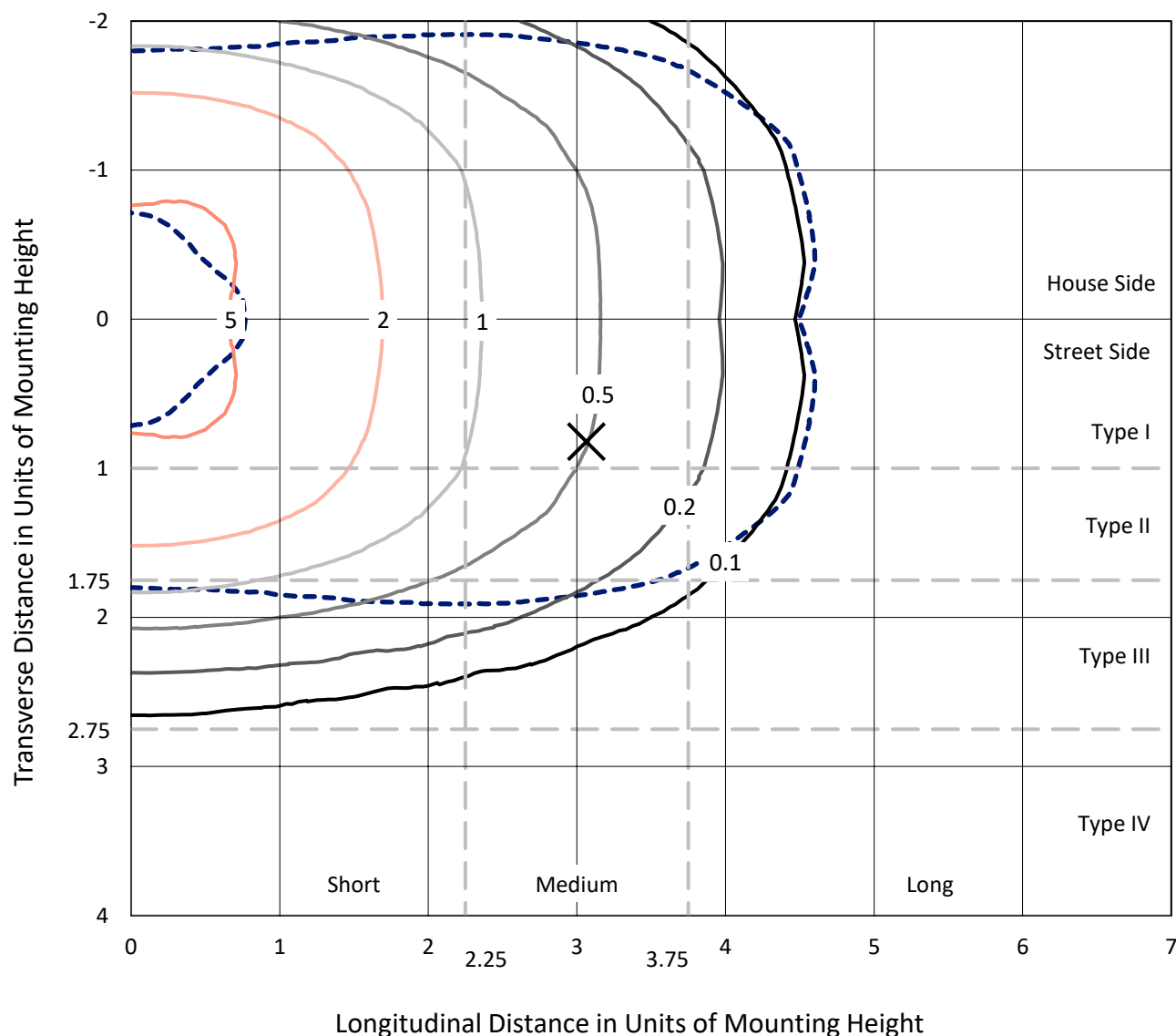
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

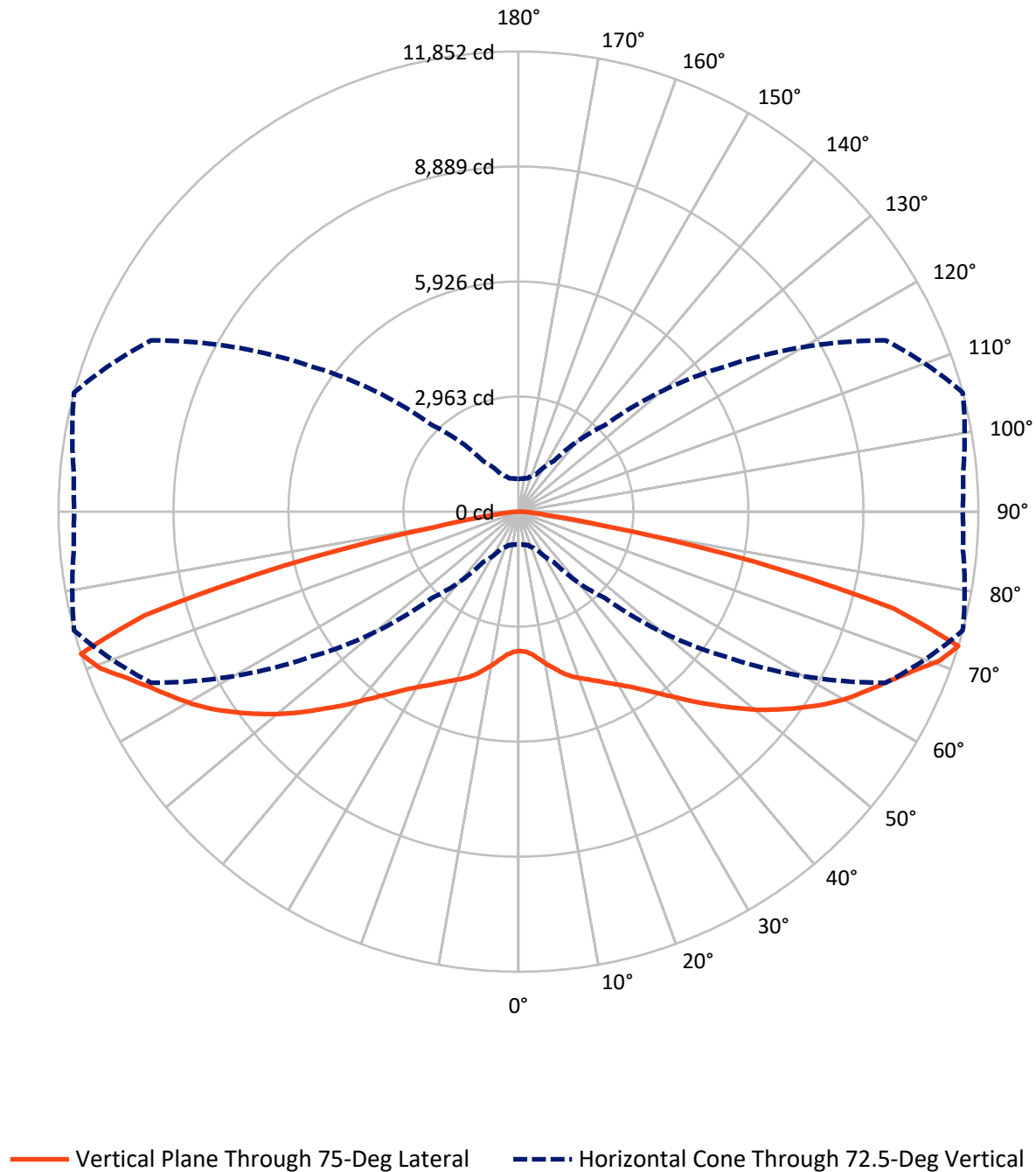
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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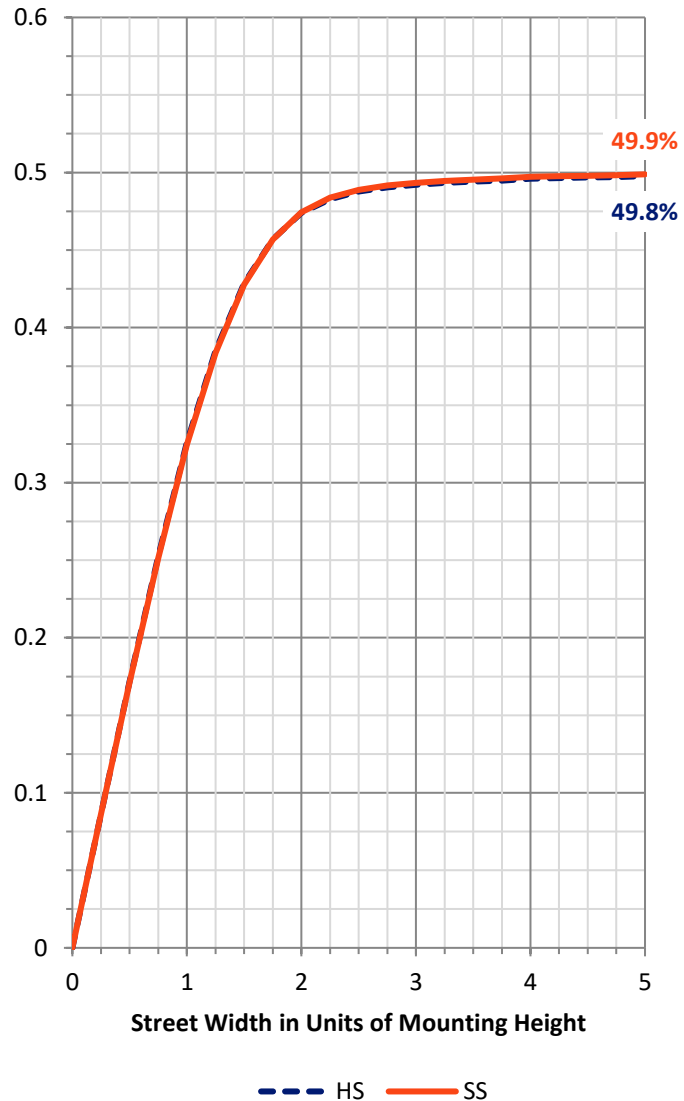
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16758.2	0.0	16758.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16758.2	0.0	16758.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	33516.5	0.0	33516.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.7	1.0
10°-20°	1160.0	3.5
20°-30°	2241.4	6.7
30°-40°	3784.7	11.3
40°-50°	6002.1	17.9
50°-60°	8036.1	24.0
60°-70°	7647.8	22.8
70°-80°	3990.7	11.9
80°-90°	302.1	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°	33516.5	100.0
0°-180°	33516.5	100.0

Coefficient of Utilization



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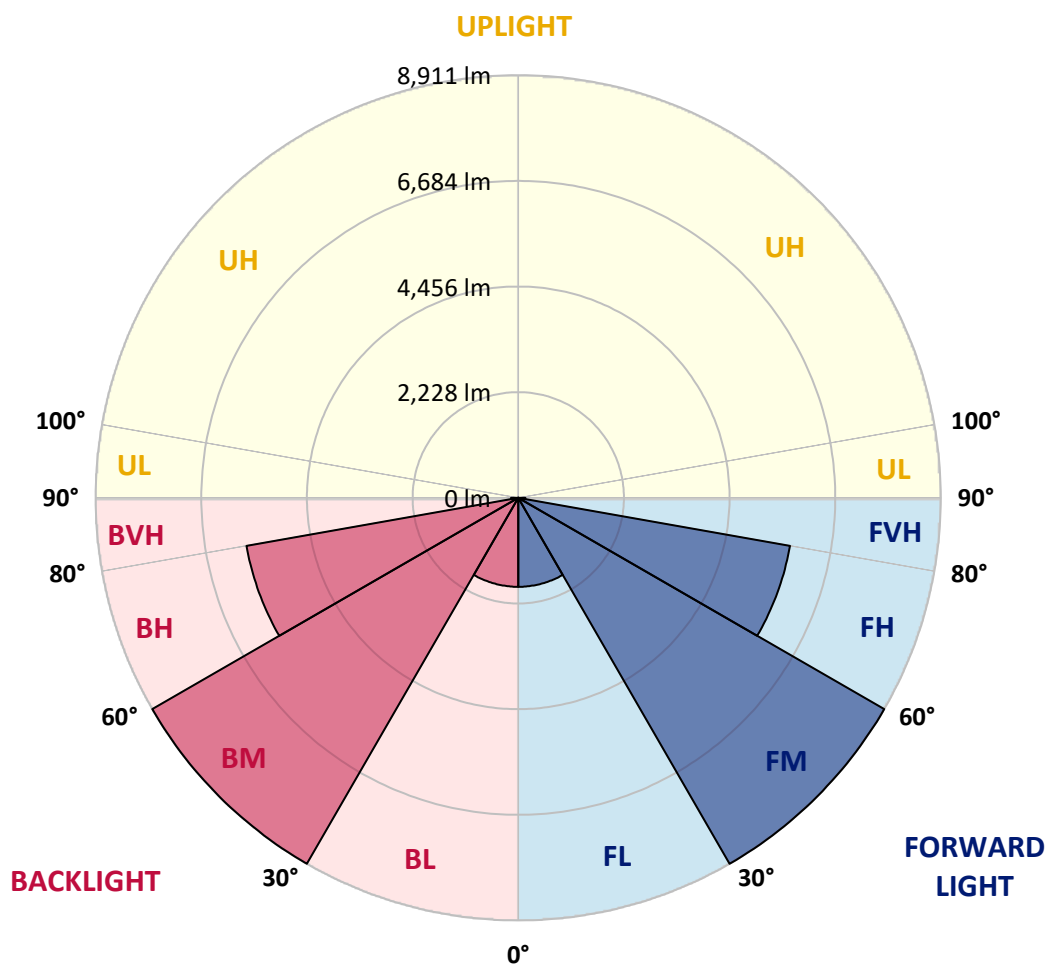
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1876.5	5.6			
FM	(30°-60°)	8911.4	26.6			
FH	(60°-80°)	5819.3	17.4			G3/7500
FVH	(80°-90°)	151.0	0.5			G2/225
BL	(0°-30°)	1876.5	5.6	B3/2500		
BM	(30°-60°)	8911.4	26.6	B5		
BH	(60°-80°)	5819.3	17.4	B5		G5
BVH	(80°-90°)	151.0	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°	3590.2	3590.2	3590.2	3590.2	3590.2	3590.2	3590.2	3590.2	3590.2	3590.2	3590.2
2.5°	3590.2	3586.8	3590.2	3593.6	3591.9	3591.9	3600.5	3605.6	3615.9	3614.2	3612.5
5°	3566.3	3564.5	3578.3	3593.6	3605.6	3626.1	3651.9	3670.6	3694.6	3699.7	3699.7
7.5°	3554.3	3549.2	3573.2	3600.5	3638.1	3689.5	3739.1	3790.4	3831.6	3845.2	3848.6
10°	3562.8	3564.5	3597.0	3648.4	3708.2	3780.2	3850.3	3937.6	3995.8	4009.5	4023.1
12.5°	3602.2	3598.8	3653.5	3735.7	3817.8	3908.5	3990.6	4086.5	4149.8	4182.3	4196.0
15°	3674.1	3667.2	3744.2	3865.7	3985.5	4091.6	4158.3	4249.0	4322.6	4363.7	4379.1
17.5°	3759.6	3763.1	3864.0	4021.5	4178.9	4298.6	4362.0	4408.2	4464.7	4500.6	4517.7
20°	3910.2	3917.0	4030.0	4216.5	4396.2	4533.2	4584.4	4567.3	4582.8	4610.1	4630.6
22.5°	4112.2	4115.6	4242.2	4444.1	4632.4	4783.0	4817.2	4747.0	4704.2	4723.1	4736.7
25°	4346.6	4368.9	4495.4	4702.5	4895.9	5039.6	5055.1	4948.9	4842.8	4847.9	4856.6
27.5°	4632.4	4652.9	4781.2	4986.6	5183.4	5308.3	5306.6	5164.6	5008.9	4969.5	4981.5
30°	4942.1	4964.4	5096.1	5308.3	5491.4	5600.9	5577.0	5407.6	5185.1	5111.5	5120.1
32.5°	5310.0	5323.7	5457.2	5669.4	5838.8	5926.0	5876.4	5667.6	5390.5	5306.6	5327.1
35°	5755.0	5775.5	5874.8	6075.0	6223.8	6295.8	6211.8	5965.4	5654.0	5559.9	5573.5
37.5°	6263.2	6249.5	6362.5	6540.4	6663.6	6708.1	6593.5	6300.9	5955.1	5843.9	5864.4
40°	6793.7	6786.8	6910.0	7081.2	7147.9	7175.3	7005.9	6685.9	6302.5	6182.8	6222.2
42.5°	7274.5	7269.4	7435.5	7625.4	7705.7	7675.0	7461.1	7094.8	6704.7	6567.8	6602.0
45°	7659.6	7652.8	7856.4	8123.3	8280.8	8229.4	7941.9	7546.7	7112.0	6969.9	7002.5
47.5°	7955.6	7959.0	8178.1	8508.3	8783.8	8802.7	8433.1	8007.0	7560.3	7399.5	7447.3
50°	8169.6	8179.8	8414.2	8780.5	9156.9	9322.9	8934.5	8479.3	8024.1	7842.7	7897.4
52.5°	8222.6	8241.4	8523.8	8953.3	9396.5	9713.1	9444.5	8932.8	8463.8	8291.0	8335.5
55°	7940.3	7977.9	8335.5	8939.6	9543.7	9969.8	9892.8	9393.1	8907.0	8729.1	8778.7
57.5°	7291.6	7344.7	7762.2	8551.2	9511.2	10146.1	10240.2	9834.6	9350.3	9179.2	9218.5
60°	6383.0	6446.3	6846.7	7707.5	9052.5	10211.0	10484.8	10264.1	9757.6	9591.5	9627.5
62.5°	5012.2	5094.5	5573.5	6583.2	8084.0	9908.2	10693.6	10652.5	10123.8	9916.8	9940.7
65°	3215.4	3302.8	3807.6	5000.3	6792.0	8980.6	10758.7	11030.7	10510.6	10221.3	10257.3
67.5°	1938.9	1978.2	2228.0	3030.6	4964.4	7582.5	10207.7	11450.0	10962.3	10602.9	10630.3
70°	1240.7	1262.9	1411.8	1779.7	2806.4	5532.5	8842.1	11528.7	11509.9	10994.9	10991.4
72.5°	841.9	848.8	888.2	1054.1	1588.0	3143.6	6521.6	10437.0	11852.2	11499.7	11444.8
75°	616.0	653.7	717.0	746.1	901.8	1570.9	3737.4	7332.7	9988.6	10142.6	9769.6
77.5°	458.6	460.3	547.6	581.8	643.4	836.8	1581.2	4093.3	6201.6	6511.3	5808.0
80°	388.5	367.9	366.2	468.8	484.3	521.9	706.7	1413.5	2221.2	1346.7	1018.2
82.5°	323.4	301.1	272.1	366.2	330.3	320.0	306.3	575.0	706.7	347.4	296.0
85°	225.9	215.7	205.3	239.5	188.2	160.8	147.2	268.7	297.8	147.2	130.1
87.5°	97.6	101.0	102.7	106.1	78.7	56.5	56.5	75.3	75.3	58.2	42.7
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)