

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: P965113

Luminaire Tested: **NAV-SB3D-740-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965113
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-SB3D-740-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34094.6 lumens
Efficiency: N/A
Efficacy: 156.3 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): 218.1
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

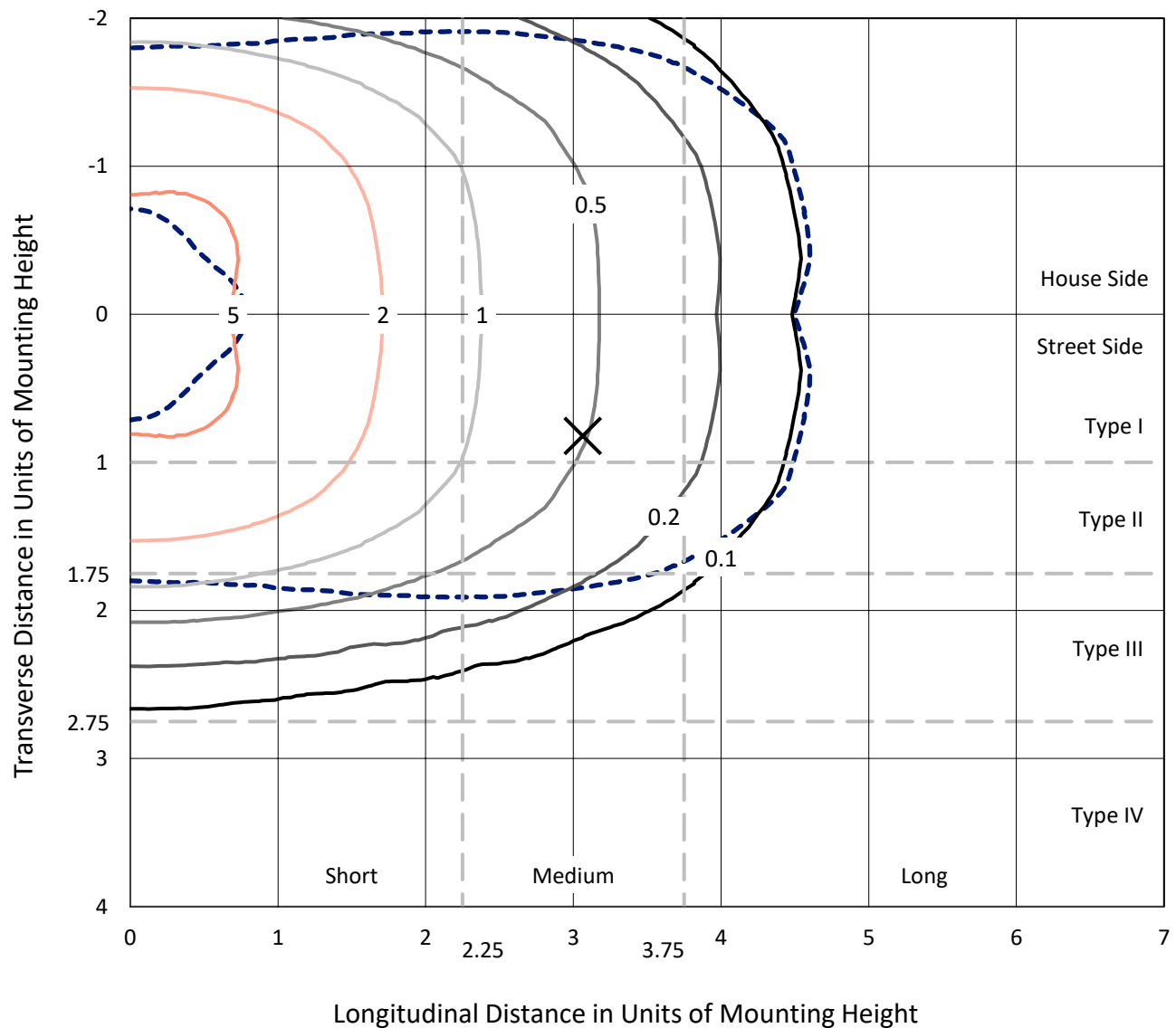


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Iso-Footcandle Lines of Horizontal Illumination

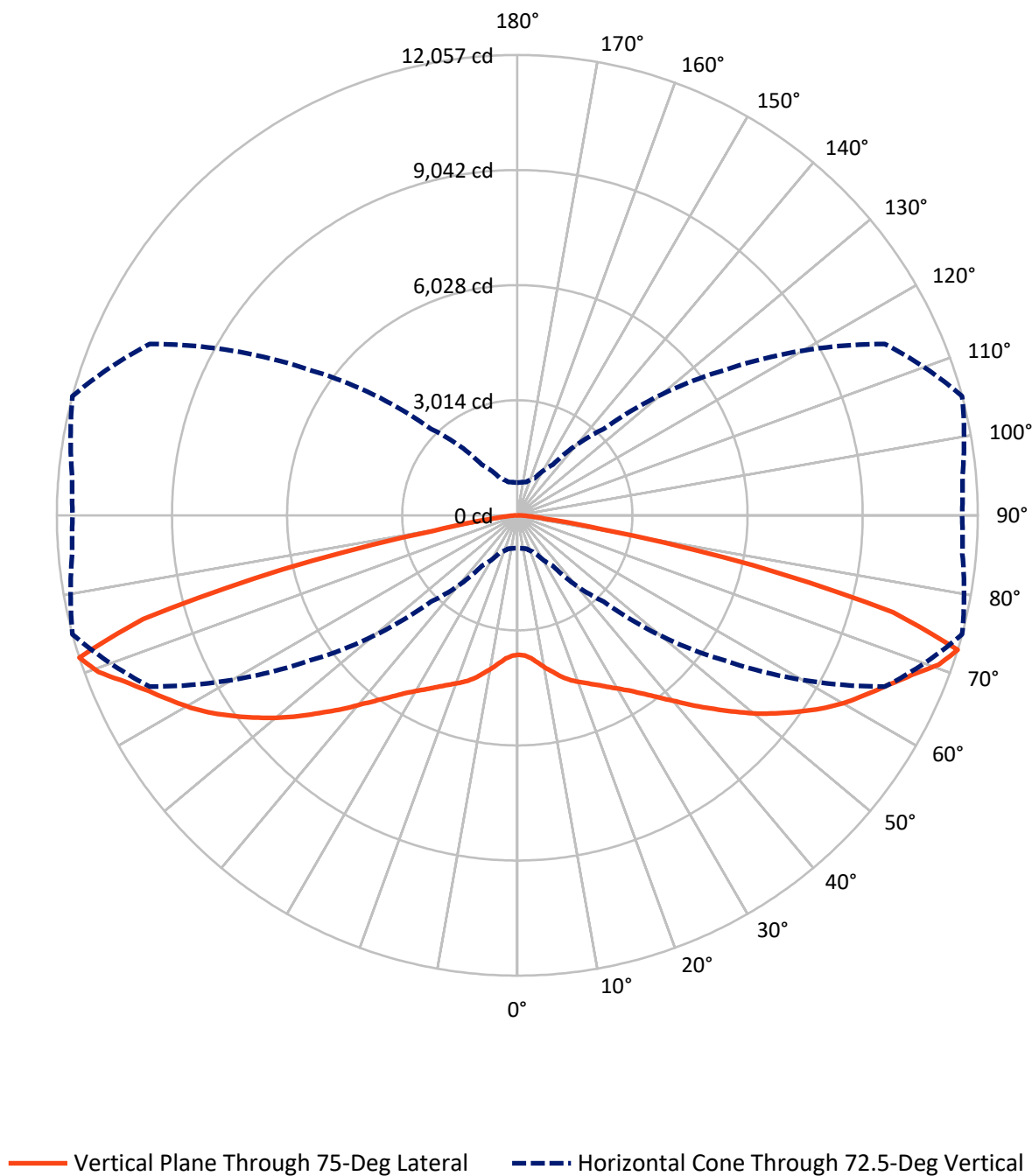
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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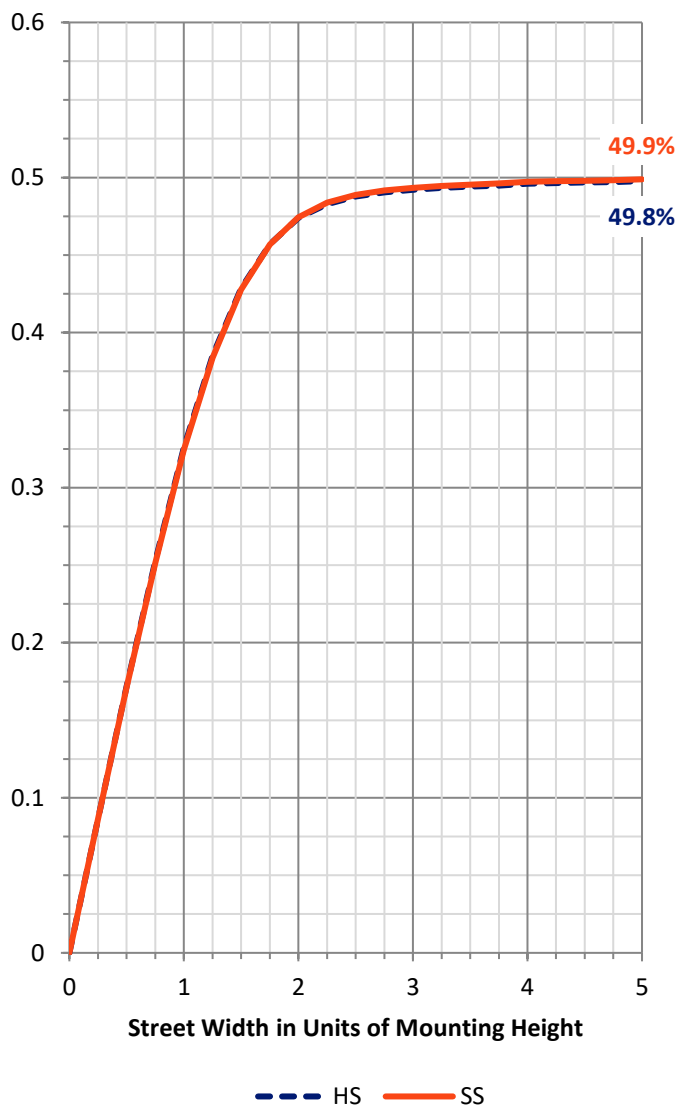
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17047.3	0.0	17047.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17047.3	0.0	17047.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	34094.6	0.0	34094.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.8	1.0
10°-20°	1180.0	3.5
20°-30°	2280.0	6.7
30°-40°	3850.0	11.3
40°-50°	6105.6	17.9
50°-60°	8174.7	24.0
60°-70°	7779.7	22.8
70°-80°	4059.6	11.9
80°-90°	307.3	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°	34094.6	100.0
0°-180°	34094.6	100.0

Coefficient of Utilization



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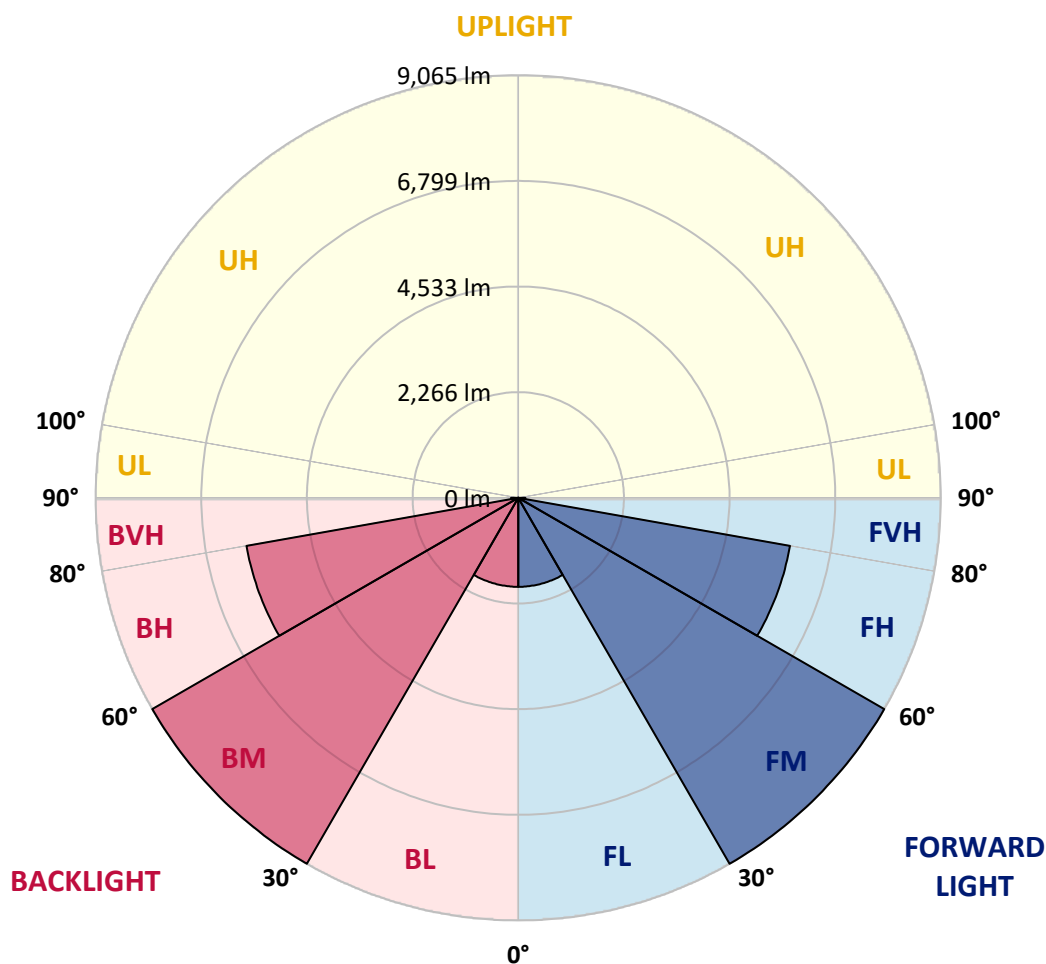
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1908.9	5.6			
FM	(30°-60°)	9065.1	26.6			
FH	(60°-80°)	5919.6	17.4			G3/7500
FVH	(80°-90°)	153.6	0.5			G2/225
BL	(0°-30°)	1908.9	5.6	B3/2500		
BM	(30°-60°)	9065.1	26.6	B5		
BH	(60°-80°)	5919.6	17.4	B5		G5
BVH	(80°-90°)	153.6	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°	3652.2	3652.2	3652.2	3652.2	3652.2	3652.2	3652.2	3652.2	3652.2	3652.2	3652.2
2.5°	3652.2	3648.7	3652.2	3655.7	3653.9	3653.9	3662.6	3667.8	3678.2	3676.5	3674.7
5°	3627.8	3626.0	3640.0	3655.7	3667.8	3688.7	3714.8	3734.0	3758.4	3763.6	3763.6
7.5°	3615.6	3610.4	3634.8	3662.6	3700.9	3753.1	3803.6	3855.8	3897.6	3911.5	3915.0
10°	3624.3	3626.0	3659.1	3711.3	3772.2	3845.4	3916.7	4005.5	4064.7	4078.6	4092.5
12.5°	3664.4	3660.9	3716.5	3800.1	3883.6	3975.9	4059.5	4157.0	4221.4	4254.5	4268.4
15°	3737.5	3730.5	3808.8	3932.4	4054.3	4162.2	4230.1	4322.3	4397.1	4439.0	4454.6
17.5°	3824.5	3828.0	3930.7	4090.8	4251.0	4372.9	4437.2	4484.3	4541.7	4578.3	4595.6
20°	3977.6	3984.6	4099.5	4289.2	4472.1	4611.3	4663.5	4646.1	4661.8	4689.7	4710.5
22.5°	4183.0	4186.5	4315.4	4520.8	4712.2	4865.5	4900.3	4828.9	4785.4	4804.5	4818.4
25°	4421.5	4444.2	4573.0	4783.7	4980.4	5126.5	5142.2	5034.3	4926.4	4931.6	4940.3
27.5°	4712.2	4733.1	4863.7	5072.6	5272.8	5399.9	5398.2	5253.6	5095.3	5055.2	5067.4
30°	5027.3	5050.0	5184.0	5399.9	5586.1	5697.6	5673.2	5500.9	5274.5	5199.7	5208.4
32.5°	5401.6	5415.6	5551.3	5767.2	5939.5	6028.3	5977.8	5765.4	5483.4	5398.2	5419.1
35°	5854.2	5875.1	5976.1	6179.7	6331.2	6404.3	6319.0	6068.3	5751.5	5655.7	5669.7
37.5°	6371.2	6357.3	6472.2	6653.3	6778.5	6823.8	6707.2	6409.5	6057.9	5944.7	5965.6
40°	6910.9	6903.9	7029.2	7203.3	7271.2	7299.0	7126.7	6801.2	6411.3	6289.4	6329.5
42.5°	7400.0	7394.8	7563.7	7756.9	7838.7	7807.3	7589.7	7217.2	6820.4	6681.1	6715.9
45°	7791.7	7784.8	7991.9	8263.4	8423.6	8371.4	8078.9	7676.8	7234.7	7090.1	7123.2
47.5°	8092.9	8096.4	8319.1	8655.1	8935.3	8954.5	8578.5	8145.1	7690.8	7527.1	7575.9
50°	8310.5	8320.8	8559.4	8931.8	9314.9	9483.7	9088.6	8625.5	8162.5	7978.0	8033.6
52.5°	8364.4	8383.6	8670.8	9107.7	9558.5	9880.6	9607.3	9086.8	8609.9	8434.0	8479.3
55°	8077.2	8115.4	8479.3	9093.8	9708.3	10141.8	10063.4	9555.0	9060.7	8879.7	8930.2
57.5°	7417.4	7471.4	7896.2	8698.7	9675.2	10321.0	10416.8	10004.2	9511.6	9337.5	9377.5
60°	6493.1	6557.4	6964.9	7840.4	9208.7	10387.1	10665.7	10441.2	9925.9	9757.0	9793.6
62.5°	5098.8	5182.3	5669.7	6696.7	8223.4	10079.0	10878.1	10836.3	10298.4	10087.7	10112.1
65°	3270.9	3359.6	3873.2	5086.6	6909.1	9135.6	10944.2	11221.0	10691.8	10397.6	10434.2
67.5°	1972.3	2012.4	2266.5	3082.9	5050.0	7713.3	10383.7	11647.5	11151.4	10785.9	10813.6
70°	1262.1	1284.7	1436.1	1810.4	2854.8	5627.9	8994.6	11727.5	11708.5	11184.5	11181.0
72.5°	856.5	863.5	903.4	1072.4	1615.4	3197.8	6634.1	10616.9	12056.6	11698.0	11642.3
75°	626.7	665.0	729.4	759.0	917.4	1598.1	3801.8	7459.2	10160.9	10317.5	9938.1
77.5°	466.5	468.2	557.1	591.8	654.6	851.3	1608.4	4164.0	6308.6	6623.7	5908.2
80°	395.1	374.2	372.5	476.9	492.6	530.9	718.9	1437.9	2259.5	1370.0	1035.8
82.5°	329.0	306.4	276.8	372.5	336.0	325.5	311.6	584.9	718.9	353.4	301.1
85°	229.8	219.4	208.9	243.7	191.5	163.6	149.8	273.3	302.9	149.8	132.3
87.5°	99.2	102.7	104.4	107.9	80.1	57.4	57.4	76.6	76.6	59.1	43.6
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)