

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: P965082

Luminaire Tested: **NAV-SB3D-735-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965082
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-735-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32226 lumens
Efficiency: N/A
Efficacy: 147.8 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



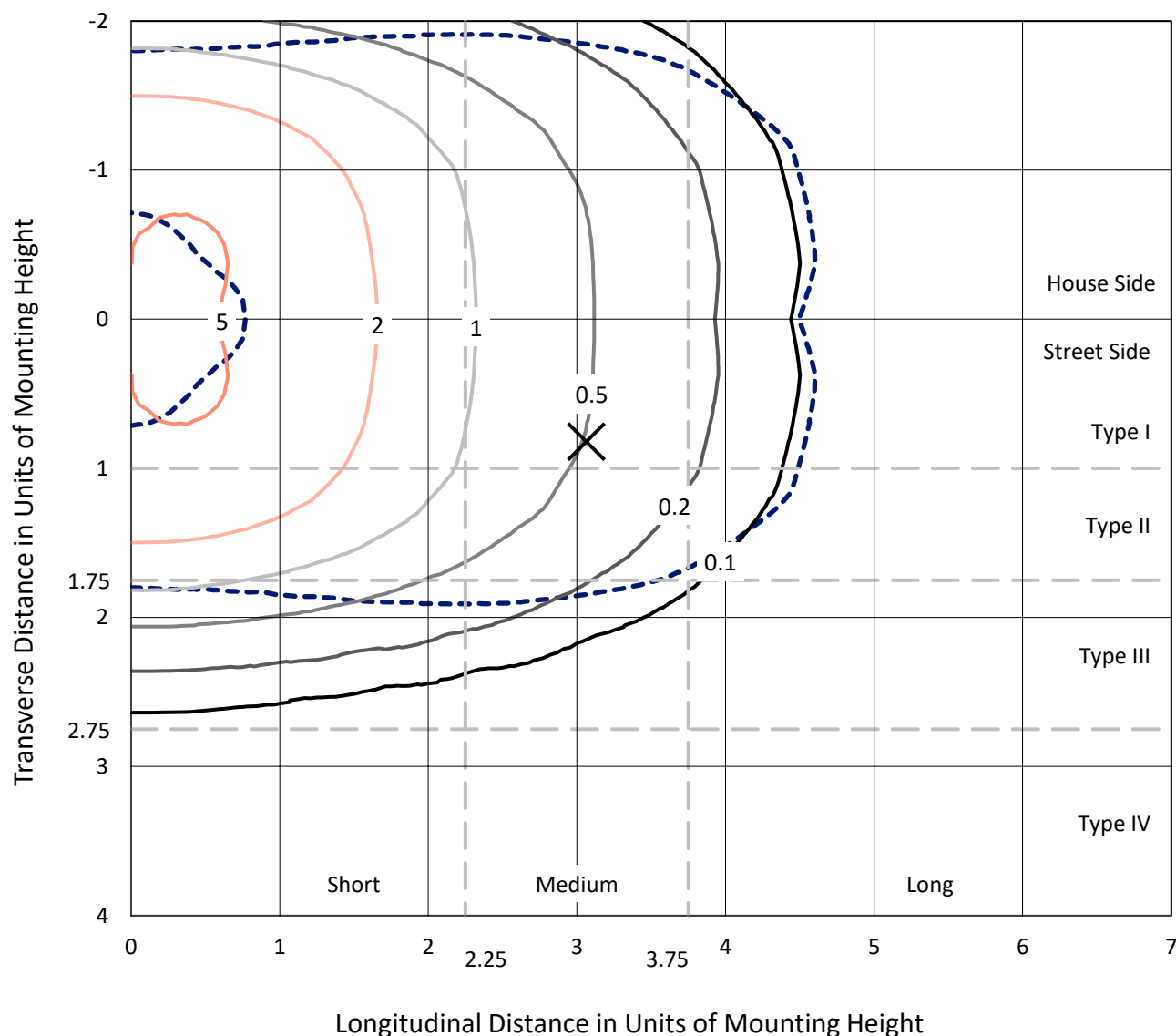
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

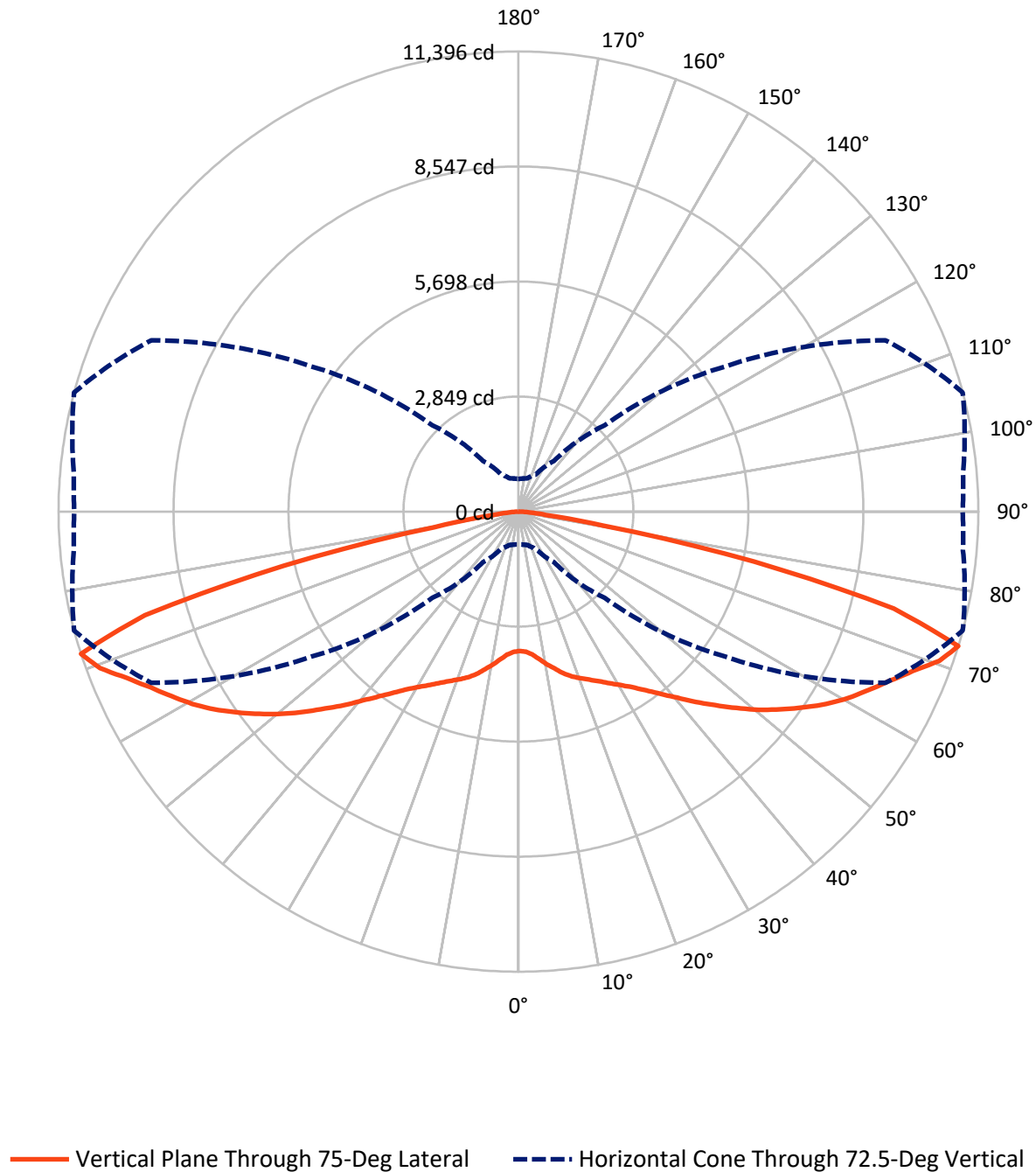


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc

Type III - Medium - N/A

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Luminous Intensity Polar Plot



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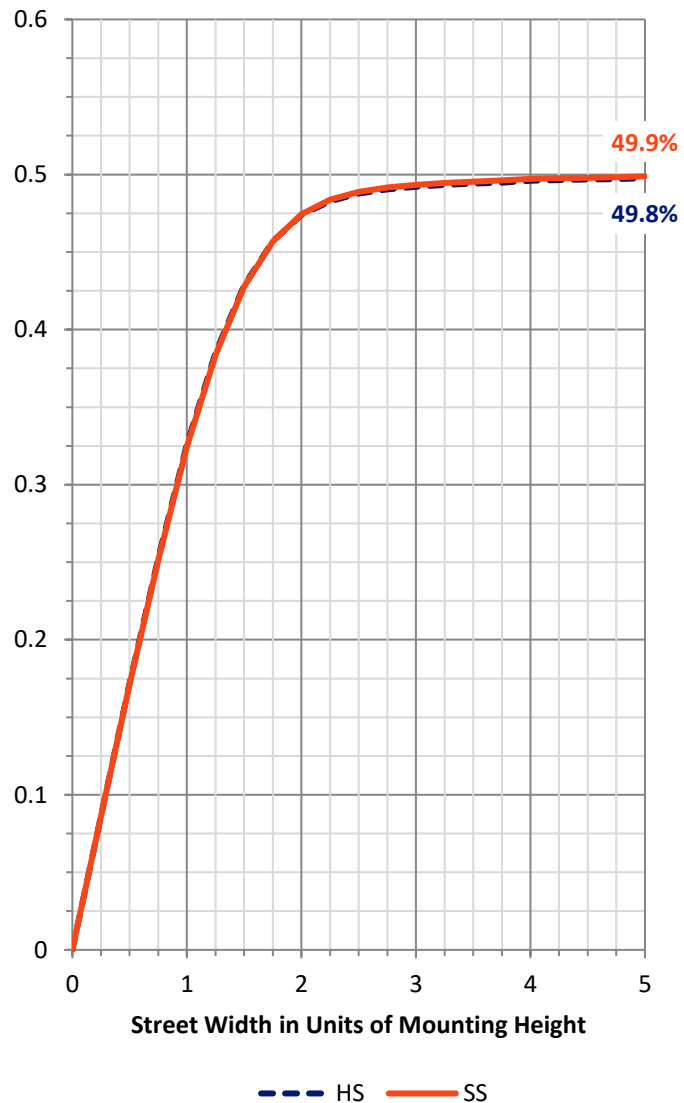
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16113.0	0.0	16113.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16113.0	0.0	16113.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32226.0	0.0	32226.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.2	1.0
10°-20°	1115.3	3.5
20°-30°	2155.1	6.7
30°-40°	3639.0	11.3
40°-50°	5771.0	17.9
50°-60°	7726.7	24.0
60°-70°	7353.3	22.8
70°-80°	3837.1	11.9
80°-90°	290.5	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°	32226.0	100.0
0°-180°	32226.0	100.0

Coefficient of Utilization



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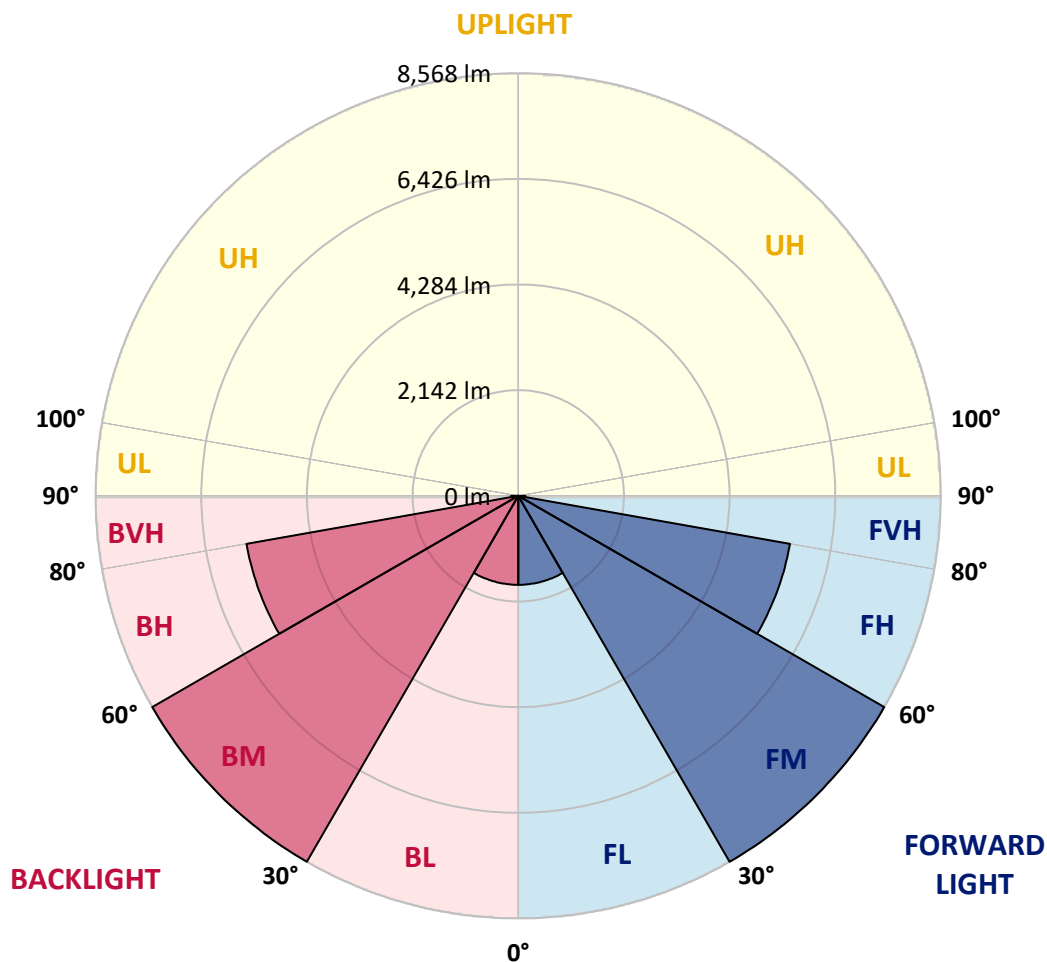
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1804.3	5.6			
FM	(30°-60°)	8568.3	26.6			
FH	(60°-80°)	5595.2	17.4			G3/7500
FVH	(80°-90°)	145.2	0.5			G2/225
BL	(0°-30°)	1804.3	5.6	B3/2500		
BM	(30°-60°)	8568.3	26.6	B5		
BH	(60°-80°)	5595.2	17.4	B5		G5
BVH	(80°-90°)	145.2	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°	3452.0	3452.0	3452.0	3452.0	3452.0	3452.0	3452.0	3452.0	3452.0	3452.0	3452.0
2.5°	3452.0	3448.7	3452.0	3455.3	3453.6	3453.6	3461.8	3466.8	3476.7	3475.1	3473.4
5°	3428.9	3427.3	3440.5	3455.3	3466.8	3486.5	3511.2	3529.3	3552.3	3557.3	3557.3
7.5°	3417.5	3412.5	3435.5	3461.8	3498.0	3547.4	3595.1	3644.5	3684.0	3697.2	3700.5
10°	3425.7	3427.3	3458.6	3508.0	3565.5	3634.6	3702.1	3785.9	3841.9	3855.1	3868.2
12.5°	3463.5	3460.2	3512.9	3591.8	3670.8	3758.1	3837.0	3929.1	3990.0	4021.3	4034.4
15°	3532.6	3526.0	3600.1	3716.9	3832.1	3934.1	3998.2	4085.4	4156.2	4195.7	4210.5
17.5°	3614.9	3618.1	3715.2	3866.6	4018.0	4133.2	4194.0	4238.5	4292.8	4327.3	4343.7
20°	3759.7	3766.3	3874.8	4054.2	4227.0	4358.6	4407.9	4391.5	4406.3	4432.6	4452.4
22.5°	3953.8	3957.1	4078.9	4273.0	4454.0	4598.8	4631.7	4564.2	4523.1	4541.3	4554.4
25°	4179.2	4200.7	4322.4	4521.5	4707.4	4845.6	4860.4	4758.4	4656.4	4661.3	4669.6
27.5°	4454.0	4473.7	4597.1	4794.6	4983.9	5103.9	5102.2	4965.7	4816.0	4778.1	4789.6
30°	4751.8	4773.2	4899.9	5103.9	5280.0	5385.2	5362.3	5199.3	4985.5	4914.7	4923.0
32.5°	5105.5	5118.7	5247.1	5451.1	5614.0	5697.9	5650.2	5449.4	5182.9	5102.2	5122.0
35°	5533.4	5553.1	5648.6	5841.1	5984.2	6053.3	5972.7	5735.8	5436.3	5345.8	5359.0
37.5°	6022.1	6008.9	6117.5	6288.6	6407.1	6449.8	6339.6	6058.3	5725.9	5618.9	5638.6
40°	6532.1	6525.6	6643.9	6808.6	6872.7	6899.1	6736.1	6428.5	6059.9	5944.7	5982.5
42.5°	6994.5	6989.5	7149.2	7331.7	7409.1	7379.5	7173.8	6821.7	6446.5	6314.9	6347.8
45°	7364.6	7358.1	7553.8	7810.6	7961.9	7912.6	7636.1	7256.1	6838.2	6701.6	6732.8
47.5°	7649.3	7652.6	7863.2	8180.7	8445.7	8463.7	8108.4	7698.7	7269.2	7114.5	7160.6
50°	7855.0	7864.8	8090.2	8442.4	8804.3	8963.9	8590.4	8152.7	7715.2	7540.7	7593.4
52.5°	7906.0	7924.1	8195.6	8608.6	9034.8	9339.1	9080.8	8588.8	8138.0	7971.8	8014.6
55°	7634.5	7670.7	8014.6	8595.4	9176.2	9585.9	9511.9	9031.4	8564.2	8393.0	8440.8
57.5°	7010.9	7061.9	7463.4	8221.9	9144.9	9755.3	9845.8	9455.9	8990.3	8825.8	8863.6
60°	6137.2	6198.1	6583.2	7410.7	8704.0	9817.9	10081.2	9868.9	9381.9	9222.3	9256.9
62.5°	4819.2	4898.3	5359.0	6329.7	7772.7	9526.7	10281.9	10242.4	9734.0	9534.9	9557.9
65°	3091.6	3175.6	3661.0	4807.8	6530.5	8634.9	10344.4	10606.1	10105.9	9827.8	9862.3
67.5°	1864.2	1902.1	2142.2	2914.0	4773.2	7290.6	9814.6	11009.1	10540.2	10194.6	10221.0
70°	1192.9	1214.3	1357.4	1711.1	2698.4	5319.4	8501.7	11084.9	11066.7	10571.4	10568.2
72.5°	809.5	816.1	853.9	1013.5	1526.9	3022.5	6270.5	10035.1	11395.8	11056.9	11004.2
75°	592.3	628.5	689.4	717.4	867.2	1510.4	3593.4	7050.4	9604.0	9752.1	9393.4
77.5°	441.0	442.6	526.5	559.4	618.7	804.6	1520.3	3935.7	5962.8	6260.6	5584.4
80°	373.5	353.7	352.1	450.8	465.7	501.8	679.6	1359.0	2135.7	1294.9	979.0
82.5°	311.0	289.6	261.6	352.1	317.5	307.7	294.5	552.9	679.6	334.0	284.6
85°	217.2	207.4	197.4	230.3	181.0	154.7	141.6	258.3	286.3	141.6	125.0
87.5°	93.8	97.1	98.7	102.0	75.6	54.3	54.3	72.4	72.4	56.0	41.1
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)