

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: P966818

Luminaire Tested: **NAV-SB4C-830-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966818
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-830-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28466.3 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

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

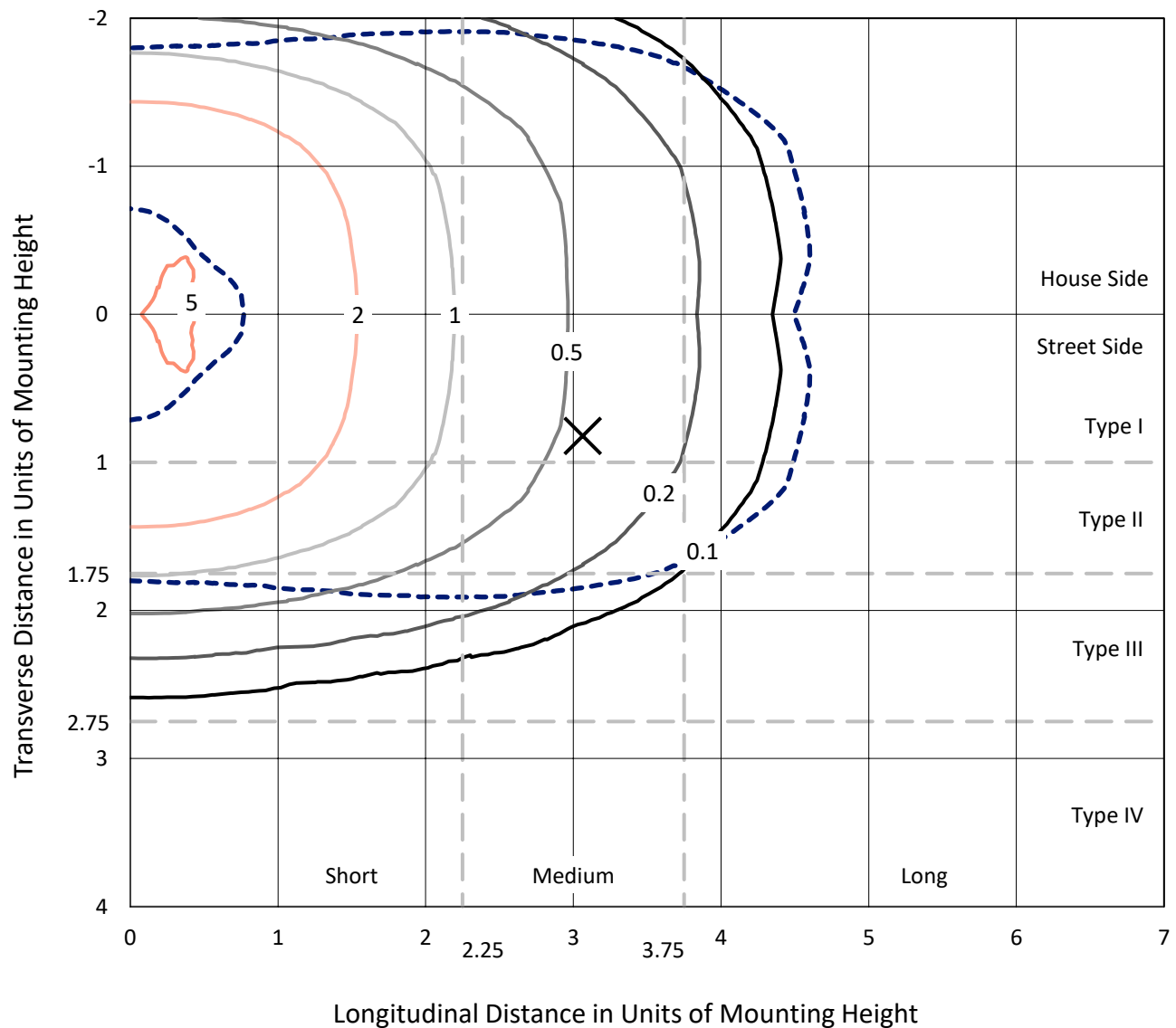


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Iso-Footcandle Lines of Horizontal Illumination

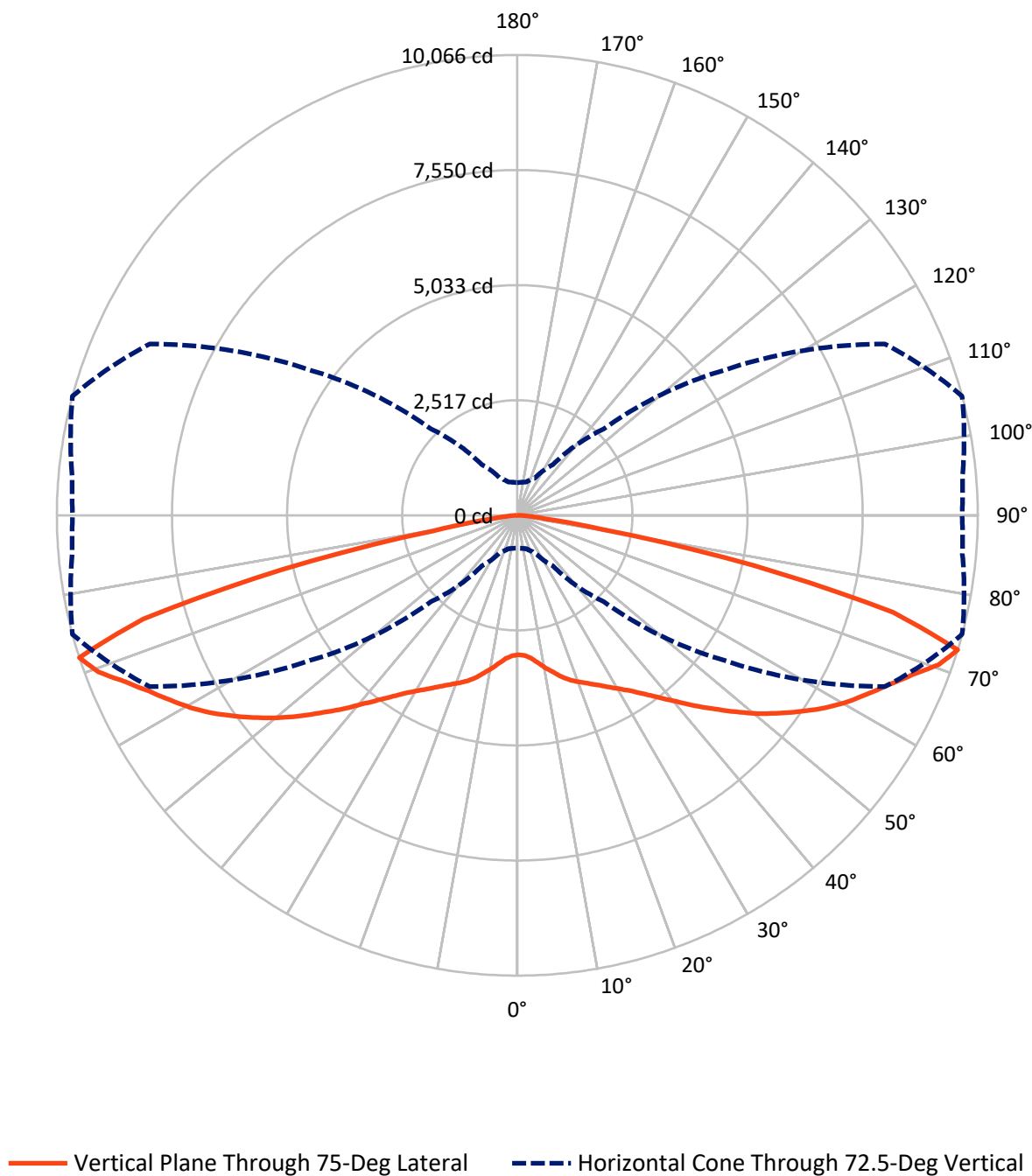
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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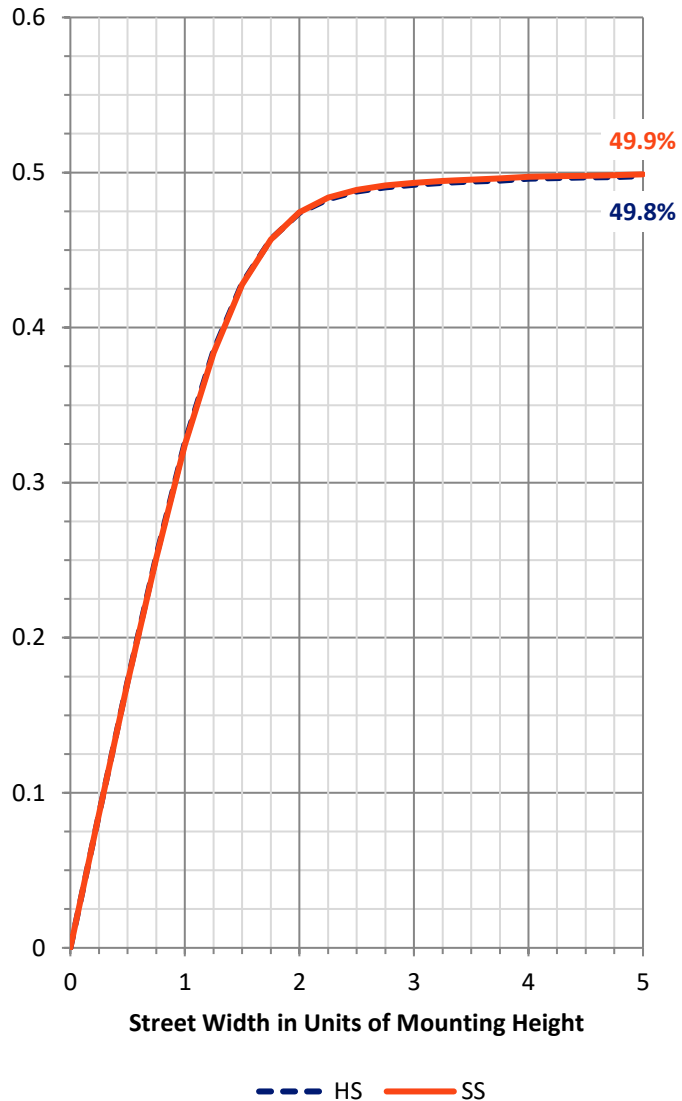
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14233.1	0.0	14233.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14233.1	0.0	14233.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	28466.3	0.0	28466.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.7	1.0
10°-20°	985.2	3.5
20°-30°	1903.6	6.7
30°-40°	3214.4	11.3
40°-50°	5097.7	17.9
50°-60°	6825.2	24.0
60°-70°	6495.4	22.8
70°-80°	3389.4	11.9
80°-90°	256.6	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°	28466.3	100.0
0°-180°	28466.3	100.0

Coefficient of Utilization



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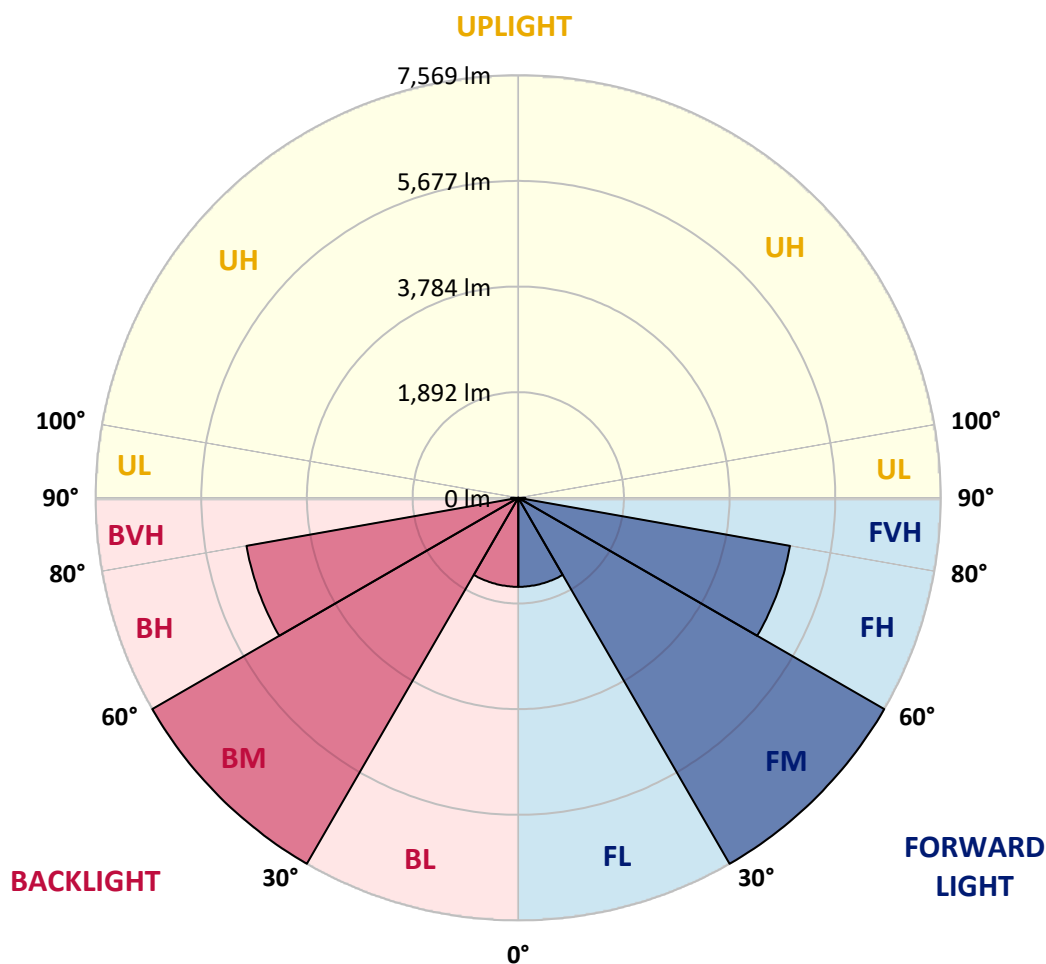
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1593.8	5.6			
FM	(30°-60°)	7568.7	26.6			
FH	(60°-80°)	4942.4	17.4			G2/5000
FVH	(80°-90°)	128.3	0.5			G2/225
BL	(0°-30°)	1593.8	5.6	B3/2500		
BM	(30°-60°)	7568.7	26.6	B4/8500		
BH	(60°-80°)	4942.4	17.4	B4/5000		G4/5000
BVH	(80°-90°)	128.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3049.3	3049.3	3049.3	3049.3	3049.3	3049.3	3049.3	3049.3	3049.3	3049.3	3049.3
2.5°	3049.3	3046.3	3049.3	3052.1	3050.7	3050.7	3058.0	3062.3	3071.0	3069.6	3068.1
5°	3028.9	3027.4	3039.1	3052.1	3062.3	3079.8	3101.5	3117.5	3137.9	3142.2	3142.2
7.5°	3018.7	3014.3	3034.7	3058.0	3090.0	3133.5	3175.7	3219.3	3254.2	3265.9	3268.7
10°	3026.0	3027.4	3055.1	3098.7	3149.5	3210.6	3270.2	3344.3	3393.7	3405.4	3416.9
12.5°	3059.4	3056.5	3103.0	3172.8	3242.6	3319.6	3389.4	3470.8	3524.6	3552.1	3563.7
15°	3120.5	3114.7	3180.1	3283.3	3385.0	3475.1	3531.7	3608.8	3671.3	3706.2	3719.3
17.5°	3193.2	3196.1	3281.8	3415.5	3549.3	3650.9	3704.8	3744.0	3792.0	3822.4	3837.0
20°	3321.0	3326.8	3422.8	3581.2	3733.8	3850.1	3893.7	3879.1	3892.2	3915.5	3932.9
22.5°	3492.6	3495.5	3603.0	3774.5	3934.4	4062.3	4091.4	4031.7	3995.4	4011.4	4023.0
25°	3691.6	3710.5	3818.1	3994.0	4158.2	4280.3	4293.4	4203.2	4113.1	4117.5	4124.8
27.5°	3934.4	3951.8	4060.8	4235.2	4402.4	4508.5	4507.0	4386.4	4254.2	4220.7	4230.9
30°	4197.5	4216.3	4328.3	4508.5	4664.0	4757.0	4736.6	4592.8	4403.8	4341.3	4348.6
32.5°	4509.9	4521.6	4634.9	4815.1	4959.1	5033.2	4991.0	4813.7	4578.3	4507.0	4524.5
35°	4887.8	4905.2	4989.6	5159.6	5286.0	5347.1	5275.9	5066.6	4802.0	4722.1	4733.8
37.5°	5319.4	5307.9	5403.8	5554.9	5659.5	5697.4	5600.0	5351.4	5057.9	4963.4	4980.8
40°	5770.0	5764.2	5868.8	6014.2	6070.9	6094.1	5950.2	5678.5	5352.9	5251.2	5284.6
42.5°	6178.4	6174.1	6315.0	6476.4	6544.7	6518.5	6336.9	6025.9	5694.5	5578.2	5607.3
45°	6505.5	6499.6	6672.6	6899.4	7033.0	6989.5	6745.2	6409.5	6040.3	5919.7	5947.4
47.5°	6756.9	6759.8	6945.8	7226.4	7460.4	7476.4	7162.4	6800.5	6421.1	6284.6	6325.3
50°	6938.5	6947.2	7146.4	7457.4	7777.2	7918.1	7588.3	7201.6	6815.0	6661.0	6707.5
52.5°	6983.6	6999.6	7239.5	7604.3	7980.6	8249.5	8021.3	7586.7	7188.5	7041.7	7079.6
55°	6743.8	6775.8	7079.6	7592.6	8105.7	8467.5	8402.1	7977.8	7565.0	7413.8	7456.0
57.5°	6192.9	6238.0	6592.7	7262.6	8078.0	8617.3	8697.2	8352.7	7941.4	7796.0	7829.5
60°	5421.2	5475.0	5815.1	6546.2	7688.5	8672.5	8905.0	8717.5	8287.3	8146.4	8176.8
62.5°	4257.0	4326.8	4733.8	5591.3	6865.9	8415.2	9082.3	9047.5	8598.3	8422.5	8442.8
65°	2730.9	2805.1	3233.9	4246.9	5768.6	7627.4	9137.6	9368.7	8926.8	8681.2	8711.7
67.5°	1646.7	1680.2	1892.4	2574.0	4216.3	6440.1	8669.6	9724.8	9310.5	9005.3	9028.6
70°	1053.7	1072.7	1199.0	1511.6	2383.6	4698.9	7509.8	9791.6	9775.6	9338.2	9335.3
72.5°	715.0	720.9	754.3	895.3	1348.8	2669.9	5538.9	8864.3	10066.3	9766.9	9720.4
75°	523.3	555.2	609.0	633.7	766.0	1334.2	3174.2	6227.9	8483.5	8614.3	8297.5
77.5°	389.5	390.9	465.0	494.2	546.5	710.7	1343.0	3476.6	5267.2	5530.2	4932.9
80°	329.9	312.5	311.0	398.2	411.3	443.3	600.2	1200.5	1886.5	1143.8	864.8
82.5°	274.7	255.8	231.1	311.0	280.5	271.8	260.1	488.3	600.2	295.0	251.4
85°	191.9	183.2	174.5	203.5	159.9	136.6	124.9	228.2	252.9	124.9	110.5
87.5°	82.8	85.8	87.2	90.1	66.8	48.0	48.0	64.0	64.0	49.4	36.3
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)