

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: P966691

Luminaire Tested: **NAV-SB4C-740-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-740-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32923 lumens
Efficiency: N/A
Efficacy: 164.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

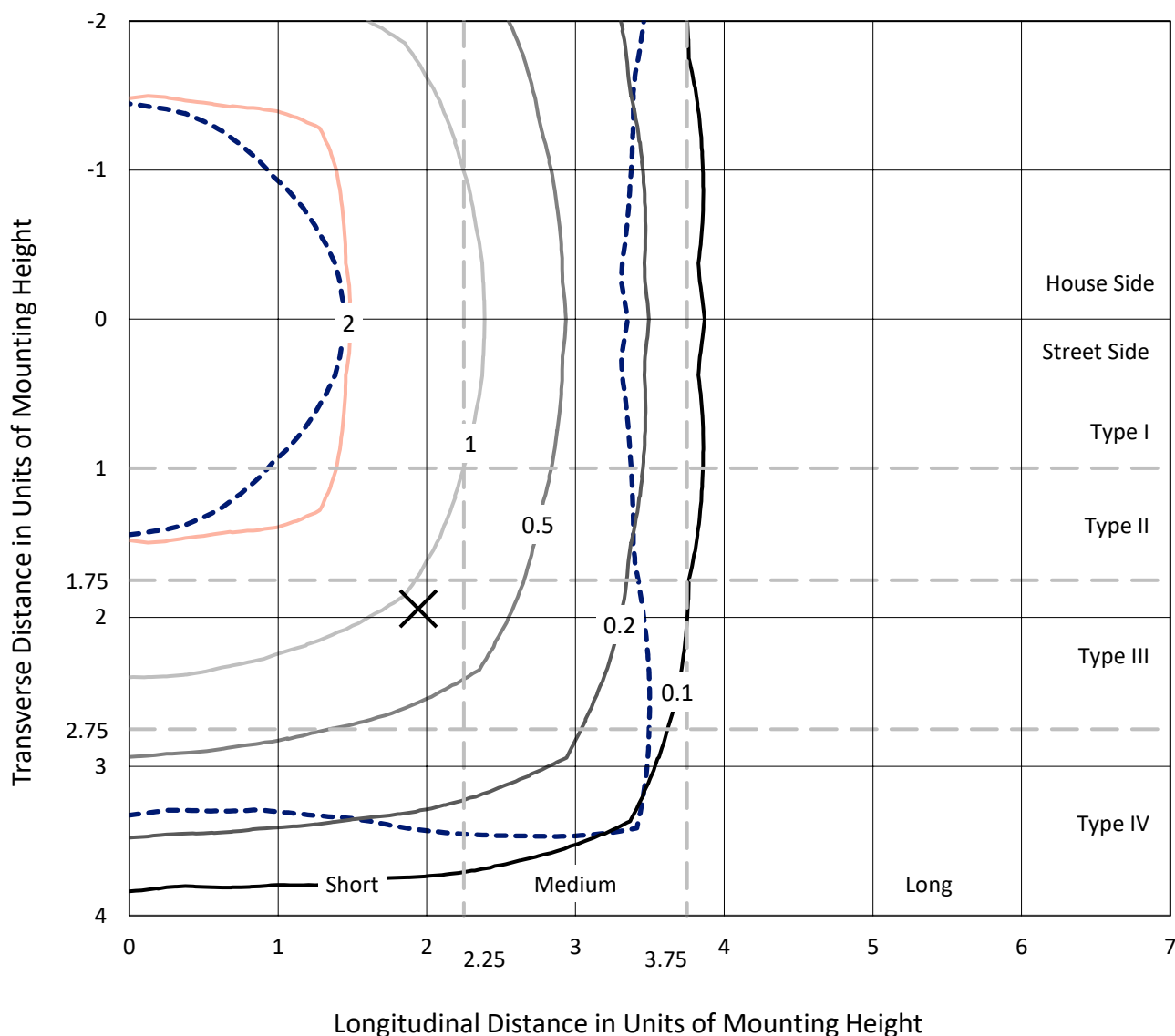
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

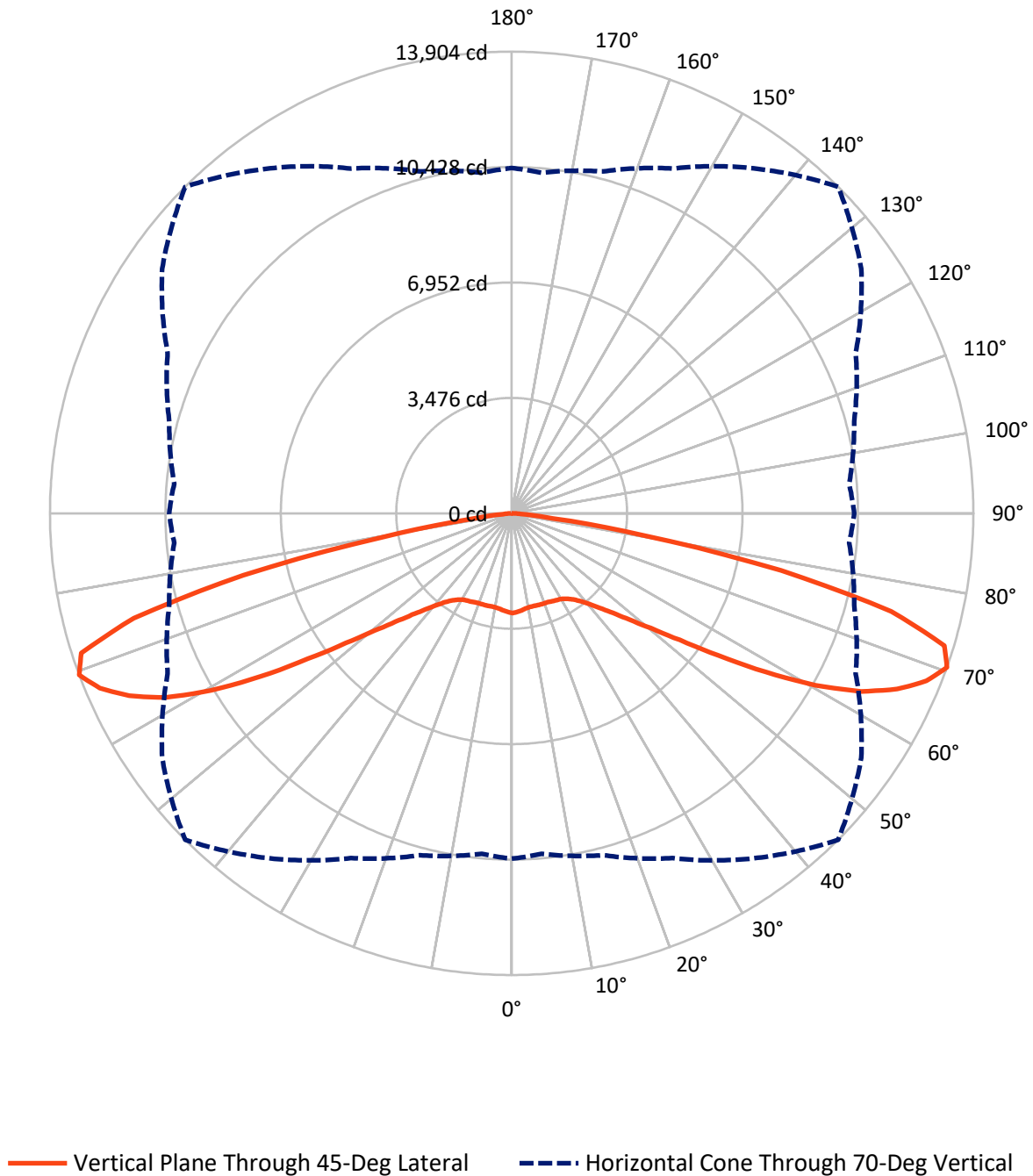
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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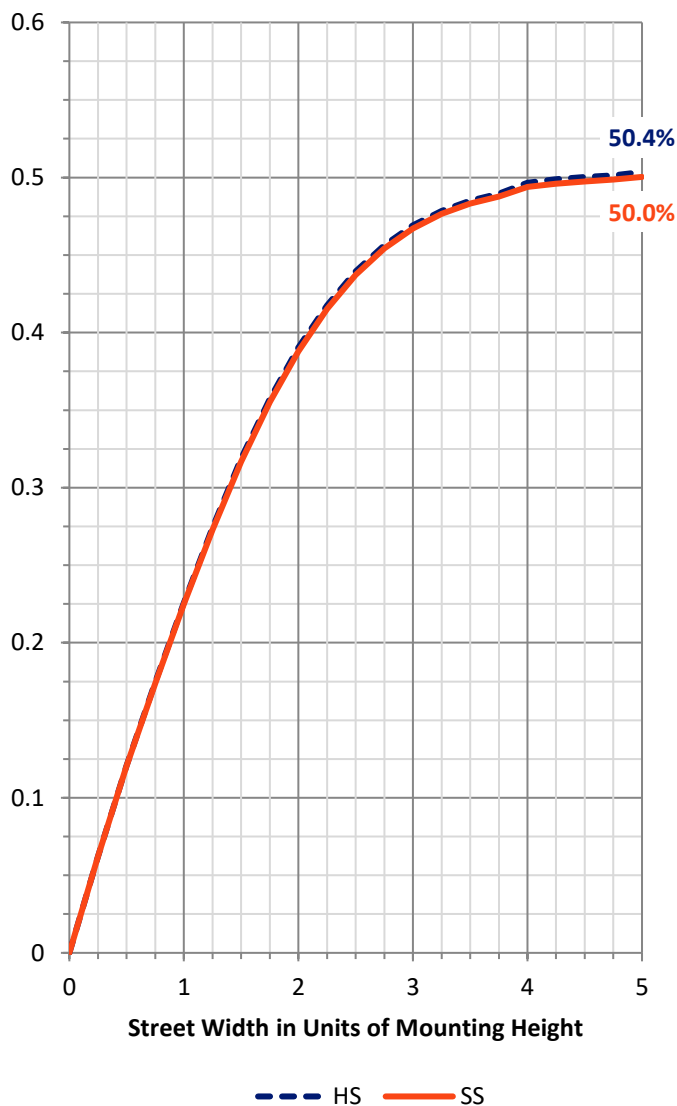
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16461.5	0.0	16461.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16461.5	0.0	16461.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32923.0	0.0	32923.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.4	0.8
10°-20°	820.3	2.5
20°-30°	1365.1	4.1
30°-40°	2064.5	6.3
40°-50°	3430.6	10.4
50°-60°	6473.5	19.7
60°-70°	10930.7	33.2
70°-80°	7182.6	21.8
80°-90°	376.3	1.1
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°	32923.0	100.0
0°-180°	32923.0	100.0

Coefficient of Utilization



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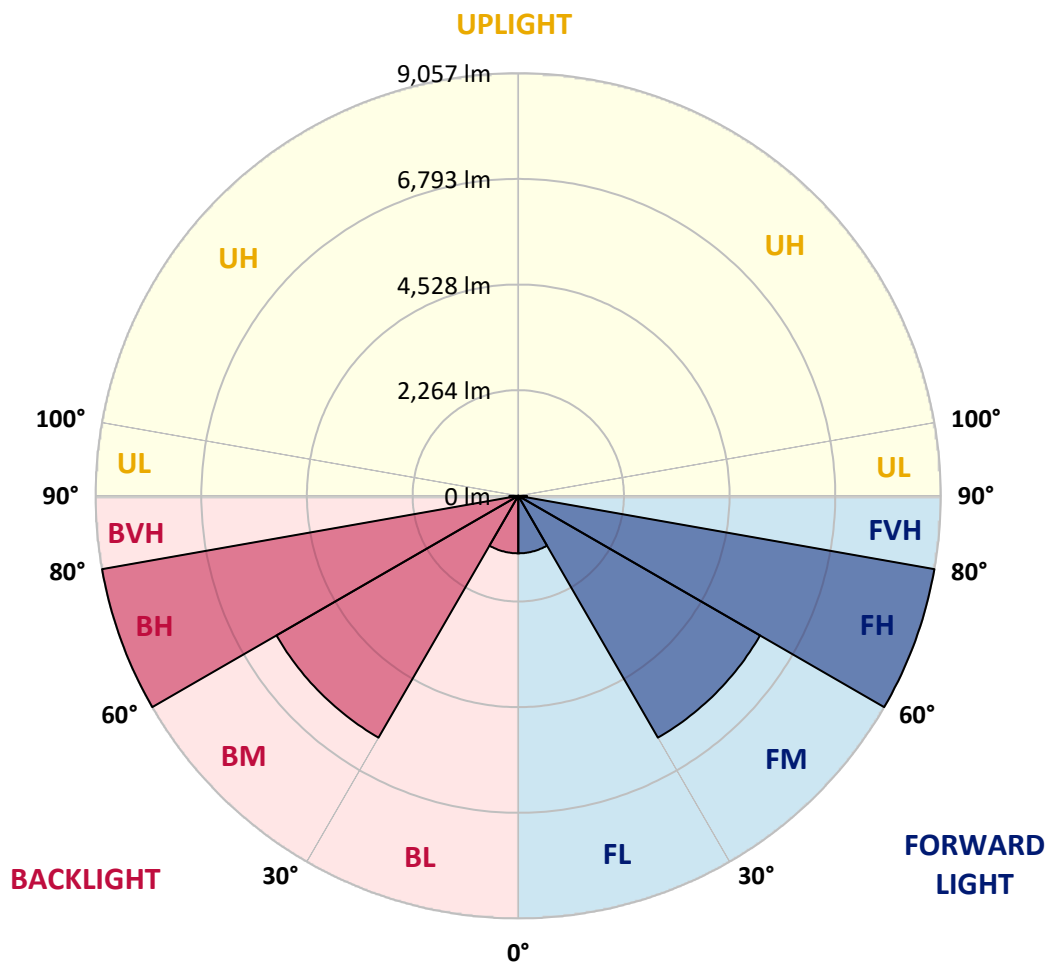
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1232.4	3.7			
FM	(30°-60°)	5984.3	18.2			
FH	(60°-80°)	9056.7	27.5			G4/12000
FVH	(80°-90°)	188.1	0.6			G2/225
BL	(0°-30°)	1232.4	3.7	B3/2500		
BM	(30°-60°)	5984.3	18.2	B4/8500		
BH	(60°-80°)	9056.7	27.5	B5		G4/12000
BVH	(80°-90°)	188.1	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2
2.5°	2984.4	2993.0	2989.5	2982.7	2982.7	2977.5	2982.7	2986.1	2991.3	2994.6	2993.0
5°	2945.0	2951.9	2950.2	2945.0	2946.8	2941.6	2945.0	2950.2	2953.6	2955.3	2955.3
7.5°	2910.8	2917.7	2914.3	2905.7	2905.7	2900.5	2902.3	2907.4	2912.5	2914.3	2914.3
10°	2902.3	2909.2	2898.9	2885.2	2880.0	2873.2	2874.9	2880.0	2890.3	2895.4	2895.4
12.5°	2905.7	2910.8	2900.5	2880.0	2874.9	2868.1	2868.1	2873.2	2886.9	2893.7	2895.4
15°	2915.9	2921.1	2905.7	2883.4	2878.3	2873.2	2871.4	2878.3	2893.7	2905.7	2907.4
17.5°	2934.8	2939.9	2915.9	2885.2	2878.3	2880.0	2878.3	2883.4	2907.4	2929.7	2929.7
20°	2951.9	2955.3	2922.8	2885.2	2878.3	2880.0	2878.3	2888.6	2919.4	2950.2	2951.9
22.5°	2957.0	2960.5	2929.7	2897.2	2892.0	2893.7	2892.0	2902.3	2931.4	2962.1	2962.1
25°	2958.8	2963.9	2939.9	2914.3	2922.8	2926.3	2922.8	2924.5	2946.8	2974.1	2972.4
27.5°	2984.4	2991.3	2969.0	2946.8	2951.9	2950.2	2955.3	2960.5	2977.5	3005.0	2998.1
30°	3037.5	3042.6	3023.7	3001.5	2998.1	2986.1	3001.5	3018.6	3037.5	3061.5	3056.2
32.5°	3124.7	3135.0	3111.1	3087.1	3071.7	3064.9	3076.8	3106.0	3131.6	3157.2	3147.0
35°	3270.2	3277.0	3254.8	3210.3	3182.9	3182.9	3193.2	3230.8	3271.9	3304.4	3292.4
37.5°	3475.6	3484.1	3444.7	3391.7	3350.6	3350.6	3364.4	3403.7	3465.3	3511.4	3494.3
40°	3725.4	3737.4	3687.7	3633.0	3593.6	3586.8	3603.9	3648.4	3706.6	3764.7	3746.0
42.5°	4026.6	4040.2	3975.3	3927.3	3896.5	3896.5	3905.0	3946.1	3999.1	4071.1	4066.0
45°	4411.6	4435.6	4346.6	4298.6	4269.5	4276.4	4281.5	4317.5	4365.4	4447.6	4444.1
47.5°	4870.2	4894.2	4800.1	4750.5	4745.3	4777.8	4757.2	4783.0	4808.6	4902.7	4875.3
50°	5390.5	5431.5	5366.5	5363.0	5373.4	5433.2	5385.2	5399.0	5369.9	5429.8	5393.9
52.5°	6027.0	6086.9	6075.0	6095.5	6210.2	6333.4	6223.8	6175.9	6066.4	6085.2	6021.9
55°	6798.8	6889.4	6906.6	7029.8	7289.9	7541.4	7308.8	7115.3	6882.7	6839.8	6773.1
57.5°	7676.6	7748.5	7830.7	8082.2	8568.2	9014.9	8568.2	8140.4	7774.2	7686.9	7625.3
60°	8621.3	8710.2	8789.0	9160.3	9882.4	10510.5	9868.8	9189.4	8705.1	8587.0	8484.3
62.5°	9636.0	9750.7	9805.5	10217.8	11059.7	11809.3	11071.7	10248.7	9711.4	9584.7	9482.1
65°	10609.8	10703.9	10765.5	11205.3	12009.5	12760.7	12064.2	11253.2	10700.4	10534.4	10452.3
67.5°	11063.2	11114.6	11265.2	11763.1	12611.9	13469.2	12755.6	11816.2	11198.4	10907.5	10910.9
70°	10399.2	10294.9	10657.6	11455.1	12683.8	13903.9	12848.1	11431.1	10674.8	10202.4	10315.4
72.5°	8036.0	7856.3	8486.1	9849.9	11862.3	13626.7	11944.5	9926.9	8877.9	7919.7	8157.6
75°	4372.2	4168.6	5037.9	6762.8	9459.8	11811.1	9677.1	6956.3	5609.5	4339.7	4622.0
77.5°	1233.8	1156.8	1858.4	3271.9	5689.9	8292.7	5908.9	3343.8	2204.1	1307.4	1452.8
80°	378.2	366.2	496.3	985.6	2416.2	3971.8	2322.1	997.6	631.4	398.7	421.0
82.5°	224.2	205.3	246.4	359.4	616.0	1247.5	598.9	374.7	301.1	201.9	219.0
85°	128.3	119.8	145.4	174.6	207.0	265.3	172.8	177.9	160.8	107.8	113.0
87.5°	53.1	47.9	56.5	54.7	47.9	61.6	46.2	54.7	65.0	42.7	39.4
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)