

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: P971557

Luminaire Tested: **NAV-SB6D-830-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-830-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59555.6 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 440.1
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

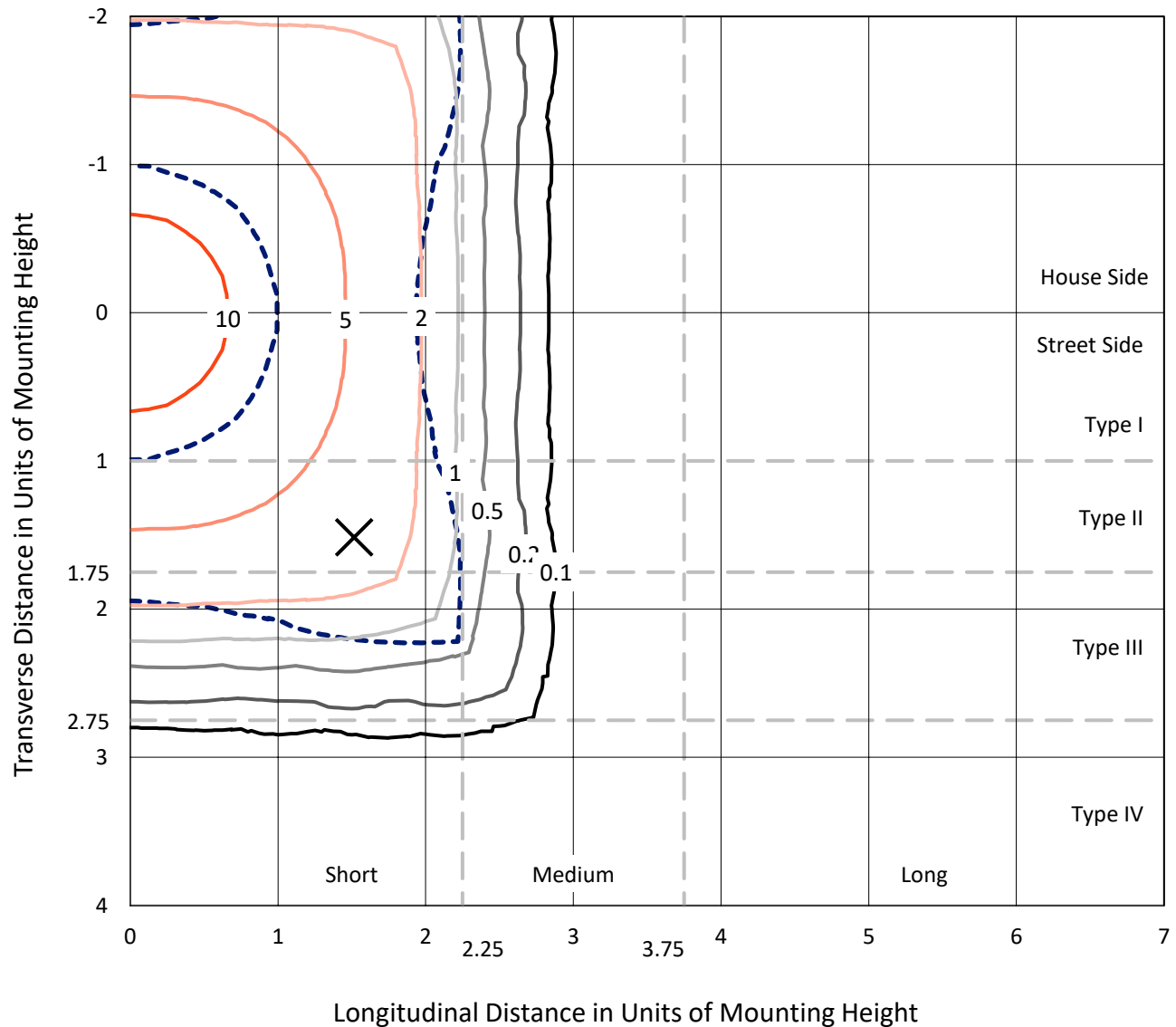


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Iso-Footcandle Lines of Horizontal Illumination

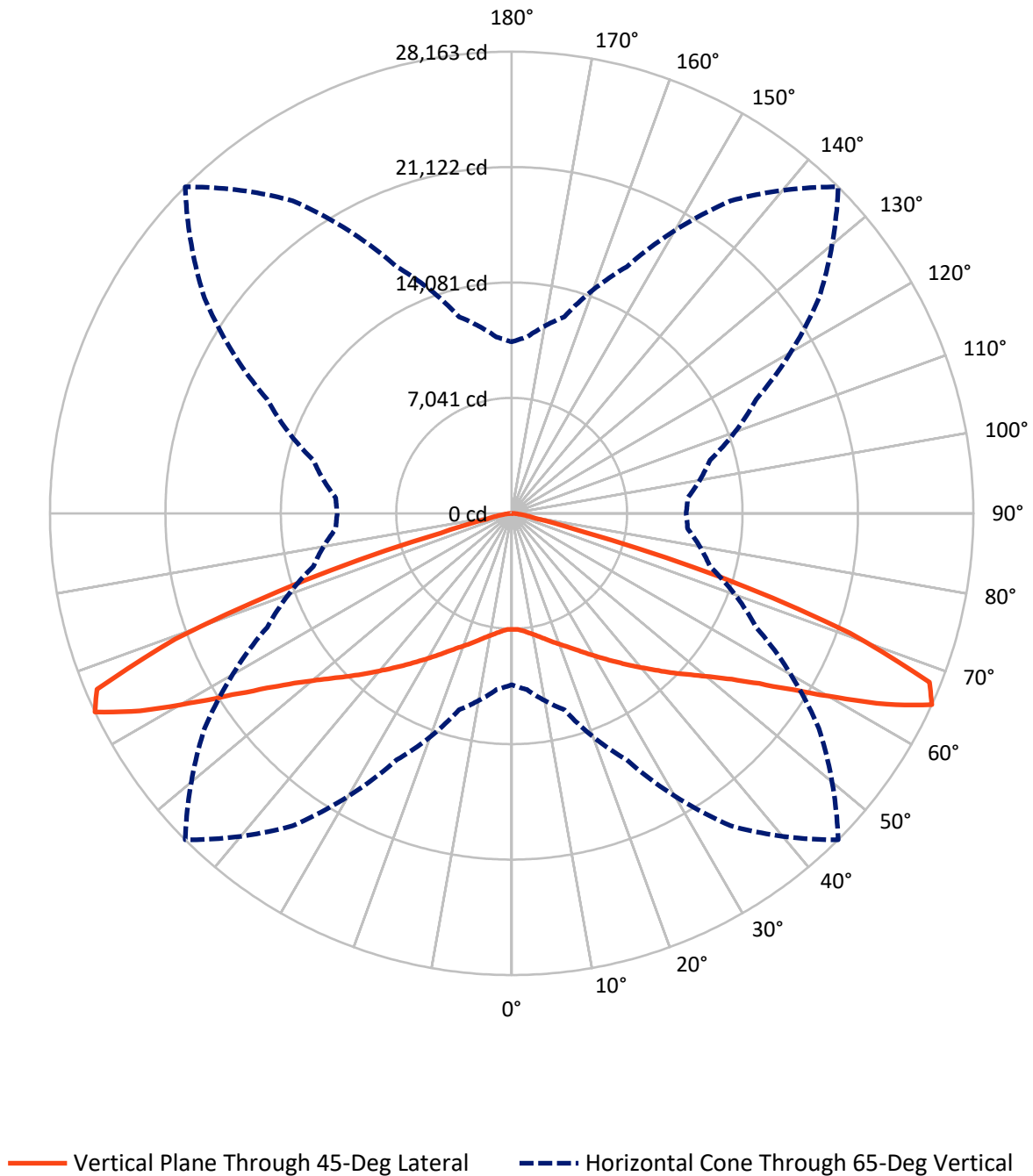
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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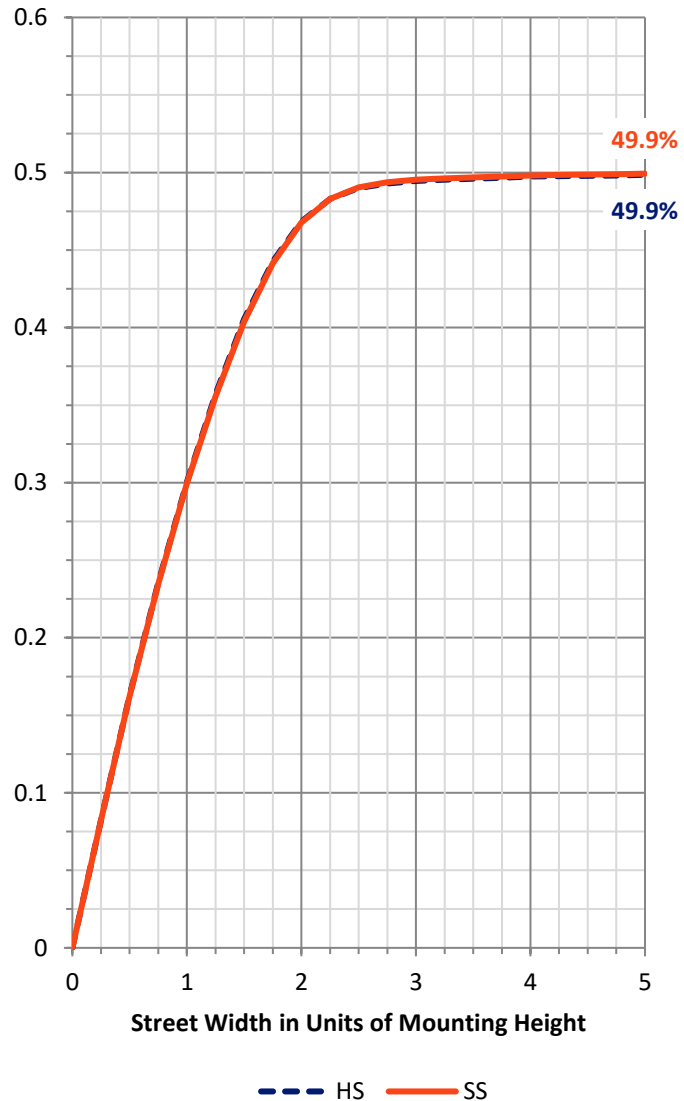
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29777.8	0.0	29777.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29777.8	0.0	29777.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	59555.6	0.0	59555.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	699.5	1.2
10°-20°	2282.5	3.8
20°-30°	4309.6	7.2
30°-40°	7056.8	11.8
40°-50°	10941.6	18.4
50°-60°	16163.1	27.1
60°-70°	15385.8	25.8
70°-80°	2482.7	4.2
80°-90°	234.0	0.4
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°	59555.6	100.0
0°-180°	59555.6	100.0

Coefficient of Utilization



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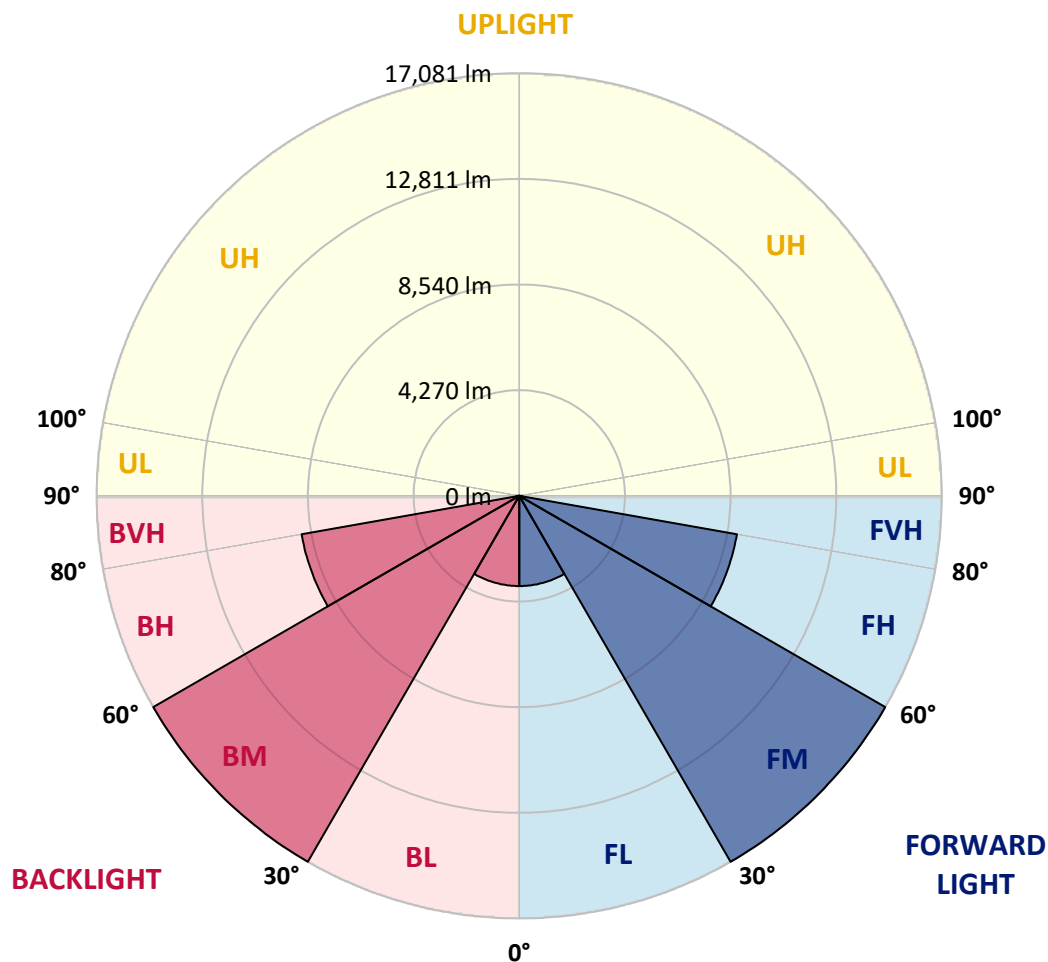
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3645.8	6.1			
FM	(30°-60°)	17080.8	28.7			
FH	(60°-80°)	8934.2	15.0			G4/12000
FVH	(80°-90°)	117.0	0.2			G2/225
BL	(0°-30°)	3645.8	6.1	B4/5000		
BM	(30°-60°)	17080.8	28.7	B5		
BH	(60°-80°)	8934.2	15.0	B5		G4/12000
BVH	(80°-90°)	117.0	0.2			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°	7087.7	7087.7	7087.7	7087.7	7087.7	7087.7	7087.7	7087.7	7087.7	7087.7	7087.7
2.5°	7135.5	7111.7	7129.6	7114.6	7102.6	7090.7	7096.7	7117.6	7126.5	7129.6	7129.6
5°	7231.2	7210.3	7219.2	7219.2	7198.3	7192.3	7195.3	7210.3	7228.2	7228.2	7228.2
7.5°	7386.6	7365.6	7386.6	7374.6	7356.6	7350.7	7347.7	7359.6	7386.6	7386.6	7377.5
10°	7574.7	7550.9	7562.9	7556.8	7535.9	7527.0	7524.0	7541.8	7565.8	7562.9	7556.8
12.5°	7781.0	7754.0	7769.0	7751.0	7745.1	7736.1	7736.1	7733.1	7748.1	7736.1	7742.1
15°	8011.0	7993.1	7999.1	7987.1	7996.1	7990.1	7966.2	7954.2	7960.3	7942.3	7945.3
17.5°	8282.9	8241.1	8262.0	8256.1	8256.1	8268.0	8229.1	8214.2	8226.1	8208.2	8223.2
20°	8596.7	8554.9	8563.8	8551.9	8536.9	8548.9	8501.0	8513.0	8522.0	8510.1	8536.9
22.5°	8940.4	8886.5	8883.6	8889.5	8856.6	8859.6	8826.8	8856.6	8874.6	8841.8	8874.6
25°	9293.0	9236.2	9275.0	9260.1	9218.2	9227.2	9203.3	9233.1	9248.1	9206.2	9254.1
27.5°	9666.4	9627.6	9663.4	9672.4	9621.6	9657.4	9621.6	9648.5	9663.4	9600.7	9648.5
30°	10102.7	10063.9	10096.7	10120.6	10060.9	10117.6	10087.7	10105.7	10108.7	10033.9	10078.7
32.5°	10577.8	10518.0	10601.7	10613.7	10547.9	10616.6	10577.8	10601.7	10616.6	10515.1	10583.7
35°	11157.4	11082.8	11178.3	11163.5	11106.7	11163.5	11127.6	11163.5	11199.3	11076.8	11151.5
37.5°	11782.0	11704.3	11805.8	11779.0	11725.2	11764.0	11743.1	11767.0	11823.8	11692.4	11773.0
40°	12469.2	12373.6	12511.0	12463.3	12412.4	12406.5	12418.4	12433.4	12508.1	12361.7	12409.5
42.5°	13204.3	13102.7	13308.9	13234.2	13162.4	13114.7	13153.5	13183.3	13255.1	13090.8	13177.4
45°	14043.9	13927.4	14196.4	14106.7	13993.1	13894.5	13957.3	14002.1	14106.7	13909.5	14011.0
47.5°	14970.2	14838.7	15125.6	15098.8	14913.4	14698.3	14841.8	14970.2	15047.9	14808.9	14889.6
50°	15875.6	15774.0	16150.5	16183.4	15956.3	15654.5	15854.7	16048.9	16069.8	15756.1	15794.9
52.5°	16724.2	16622.6	17169.5	17375.6	17172.4	16813.9	17026.1	17223.3	17064.9	16658.5	16670.5
55°	17402.6	17318.9	18015.1	18547.0	18615.7	18319.8	18445.4	18439.4	17919.5	17294.9	17315.8
57.5°	17566.9	17555.0	18433.4	19560.0	20277.1	20312.9	20064.9	19431.4	18310.9	17471.2	17417.5
60°	16819.8	16894.6	18101.7	20088.8	22001.2	22796.0	21723.3	19915.5	17865.6	16700.3	16562.9
62.5°	14584.8	14782.0	16237.2	19443.4	23393.6	25652.6	23053.0	19180.4	16036.9	14516.0	14426.5
65°	10452.2	10795.9	12403.5	16592.8	23268.1	28162.6	22861.7	16458.3	12523.0	10769.1	10640.5
67.5°	4742.1	5091.7	6457.2	11360.7	20226.2	27481.3	20178.5	11480.2	6780.0	5109.6	5034.9
70°	1718.1	1777.9	2217.2	4547.8	12926.4	21896.6	13479.2	4580.7	2357.6	1894.4	1870.5
72.5°	1039.9	1048.8	1141.4	1628.5	4491.0	13293.9	4682.3	1682.3	1165.3	1033.9	1051.8
75°	660.4	654.4	812.7	995.1	1592.6	4485.1	1670.3	995.1	809.7	738.1	744.0
77.5°	475.1	490.1	582.7	744.0	1004.0	1520.9	986.0	711.1	582.7	478.1	487.1
80°	355.6	364.6	424.4	579.6	705.2	947.2	627.5	525.9	439.2	298.8	307.8
82.5°	257.0	257.0	277.9	421.3	430.3	511.0	340.6	370.5	289.9	212.2	212.2
85°	152.4	149.4	173.3	251.0	224.1	188.3	155.4	227.1	182.2	131.5	128.5
87.5°	53.8	56.8	53.8	71.8	59.8	50.8	47.8	62.7	50.8	44.8	41.8
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)