

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: P971030

Luminaire Tested: **NAV-SB6C-830-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971030
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-SB6C-830-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43830 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 300.9
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

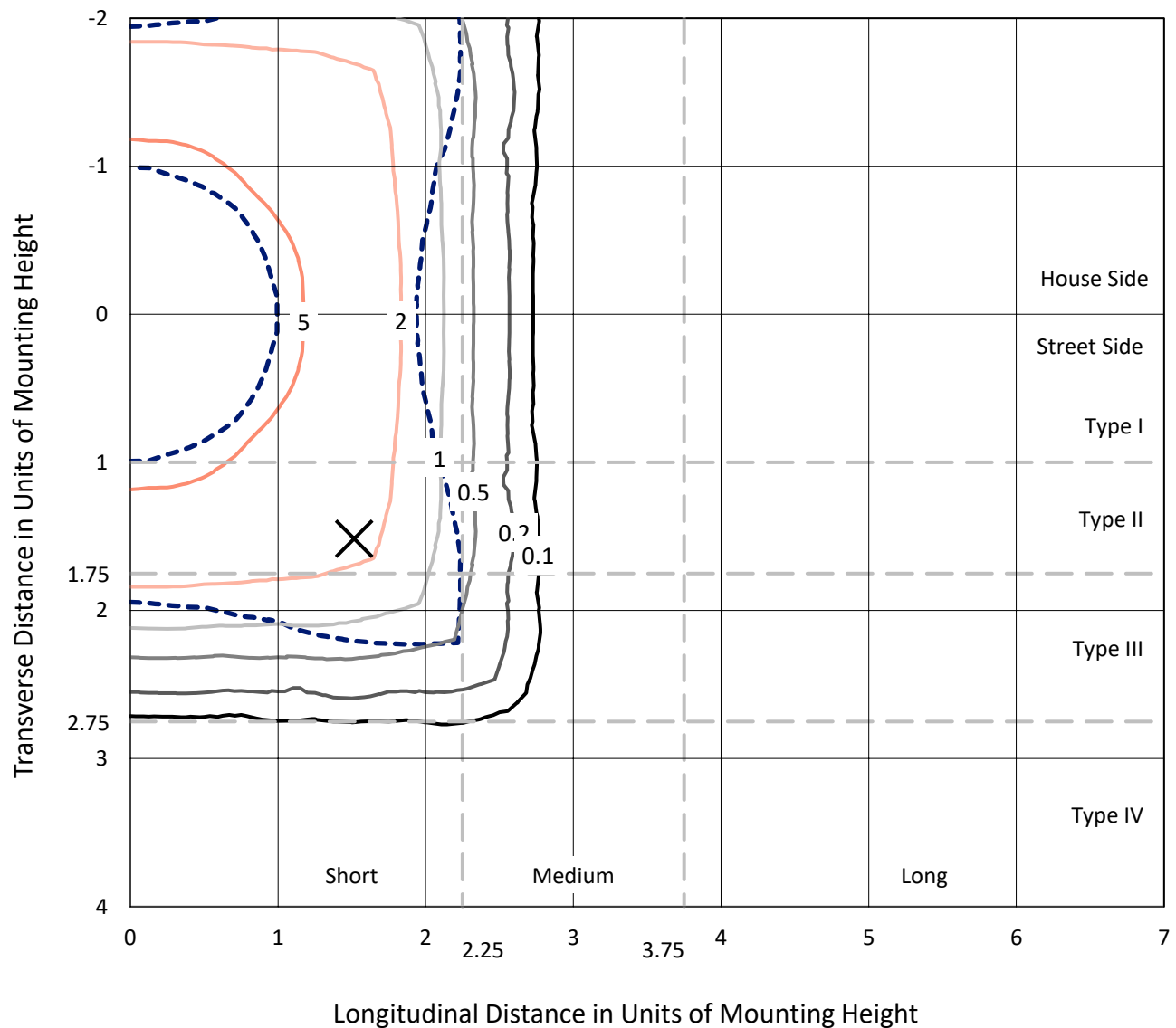


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Iso-Footcandle Lines of Horizontal Illumination

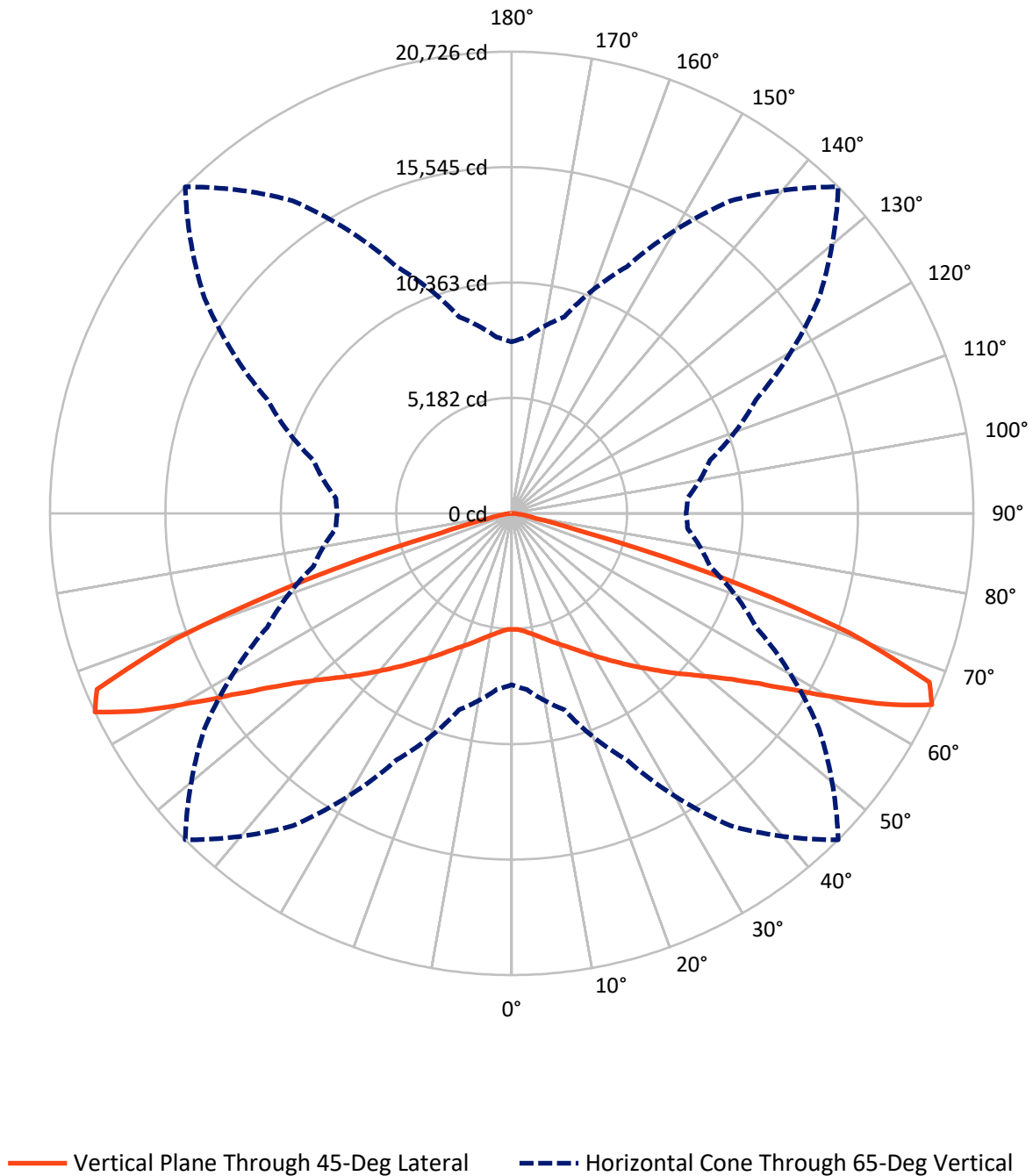
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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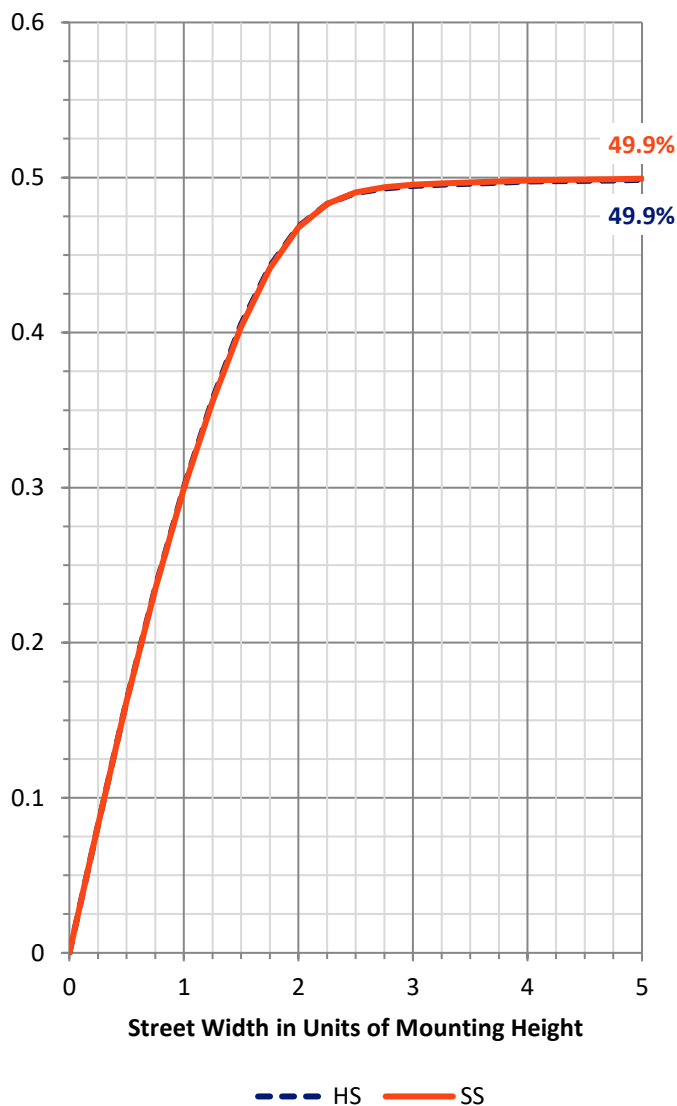
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21915.0	0.0	21915.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21915.0	0.0	21915.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	43830.0	0.0	43830.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.8	1.2
10°-20°	1679.8	3.8
20°-30°	3171.6	7.2
30°-40°	5193.5	11.8
40°-50°	8052.5	18.4
50°-60°	11895.3	27.1
60°-70°	11323.2	25.8
70°-80°	1827.1	4.2
80°-90°	172.2	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°	43830.0	100.0
0°-180°	43830.0	100.0

Coefficient of Utilization



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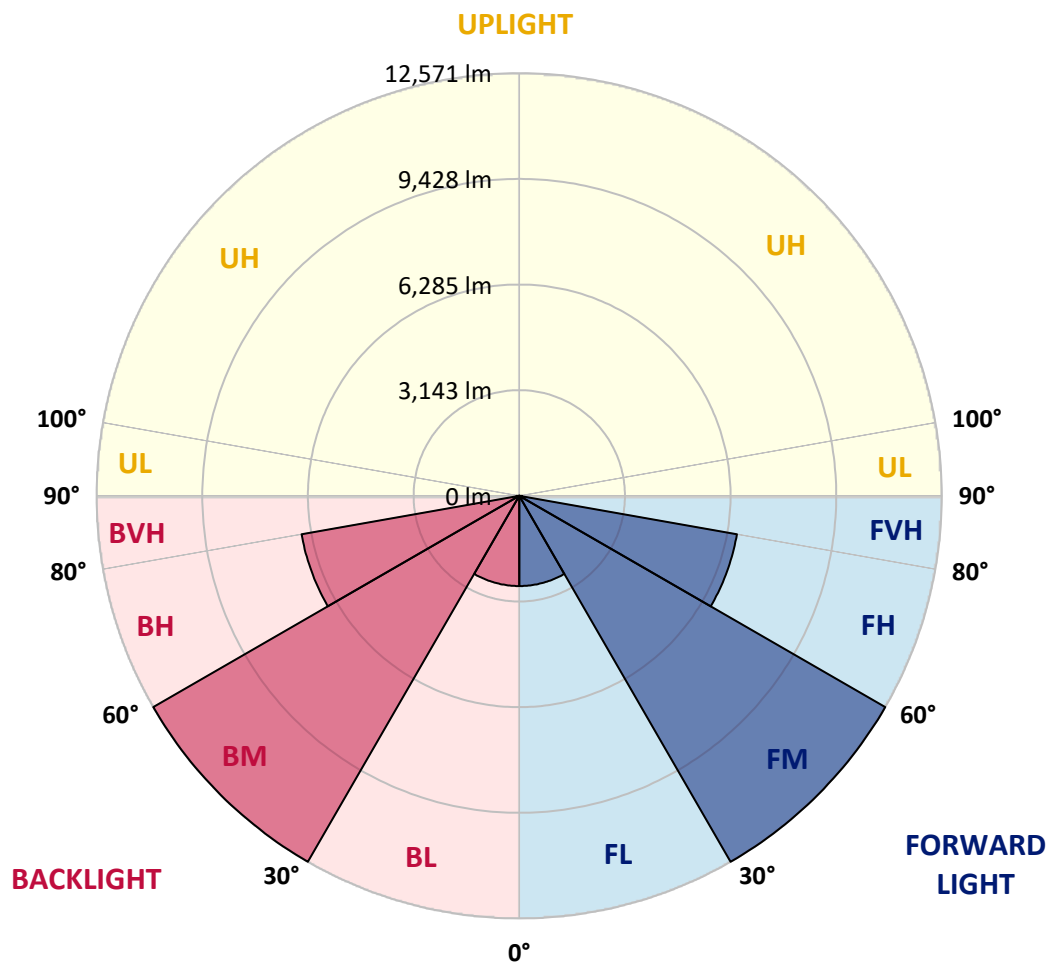
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2683.1	6.1			
FM	(30°-60°)	12570.6	28.7			
FH	(60°-80°)	6575.2	15.0			G3/7500
FVH	(80°-90°)	86.1	0.2			G1/100
BL	(0°-30°)	2683.1	6.1	B4/5000		
BM	(30°-60°)	12570.6	28.7	B5		
BH	(60°-80°)	6575.2	15.0	B5		G3/7500
BVH	(80°-90°)	86.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5216.2	5216.2	5216.2	5216.2	5216.2	5216.2	5216.2	5216.2	5216.2	5216.2	5216.2
2.5°	5251.4	5233.9	5247.0	5236.0	5227.2	5218.4	5222.8	5238.2	5244.8	5247.0	5247.0
5°	5321.8	5306.3	5313.0	5313.0	5297.6	5293.2	5295.4	5306.3	5319.5	5319.5	5319.5
7.5°	5436.1	5420.7	5436.1	5427.3	5414.2	5409.7	5407.5	5416.3	5436.1	5436.1	5429.5
10°	5574.7	5557.0	5565.9	5561.4	5546.1	5539.5	5537.3	5550.5	5568.1	5565.9	5561.4
12.5°	5726.4	5706.6	5717.6	5704.4	5700.0	5693.4	5693.4	5691.2	5702.2	5693.4	5697.8
15°	5895.7	5882.6	5886.9	5878.2	5884.7	5880.3	5862.7	5854.0	5858.4	5845.2	5847.3
17.5°	6095.9	6065.0	6080.4	6076.1	6076.1	6084.8	6056.2	6045.2	6054.1	6040.8	6051.9
20°	6326.7	6296.0	6302.5	6293.8	6282.7	6291.6	6256.4	6265.2	6271.8	6263.0	6282.7
22.5°	6579.7	6540.0	6537.9	6542.3	6518.1	6520.2	6496.0	6518.1	6531.3	6507.1	6531.3
25°	6839.1	6797.4	6825.9	6814.9	6784.2	6790.7	6773.2	6795.1	6806.1	6775.4	6810.5
27.5°	7114.0	7085.4	7111.9	7118.4	7081.0	7107.5	7081.0	7100.8	7111.9	7065.6	7100.8
30°	7435.0	7406.4	7430.6	7448.3	7404.3	7446.1	7424.1	7437.3	7439.4	7384.5	7417.5
32.5°	7784.8	7740.8	7802.3	7811.1	7762.7	7813.4	7784.8	7802.3	7813.4	7738.5	7789.2
35°	8211.4	8156.3	8226.8	8215.8	8174.0	8215.8	8189.3	8215.8	8242.1	8152.0	8207.0
37.5°	8671.0	8613.8	8688.5	8668.7	8629.2	8657.8	8642.4	8659.9	8701.7	8605.0	8664.3
40°	9176.7	9106.4	9207.6	9172.3	9135.0	9130.6	9139.4	9150.4	9205.3	9097.6	9132.8
42.5°	9717.7	9643.0	9794.7	9739.8	9687.0	9651.7	9680.3	9702.3	9755.1	9634.2	9697.9
45°	10335.7	10249.9	10447.8	10381.8	10298.3	10225.7	10271.9	10304.8	10381.8	10236.7	10311.5
47.5°	11017.4	10920.7	11131.7	11111.9	10975.6	10817.2	10922.8	11017.4	11074.5	10898.6	10958.0
50°	11683.7	11608.9	11886.0	11910.2	11743.1	11521.0	11668.3	11811.3	11826.7	11595.7	11624.3
52.5°	12308.2	12233.5	12635.9	12787.6	12638.1	12374.2	12530.3	12675.5	12558.9	12259.8	12268.6
55°	12807.4	12745.9	13258.3	13649.7	13700.3	13482.5	13574.9	13570.5	13187.9	12728.2	12743.6
57.5°	12928.3	12919.6	13566.1	14395.2	14923.0	14949.3	14766.8	14300.6	13476.0	12858.0	12818.4
60°	12378.6	12433.6	13322.0	14784.4	16191.8	16776.8	15987.3	14656.9	13148.3	12290.7	12189.5
62.5°	10733.7	10878.8	11949.8	14309.4	17216.6	18879.1	16965.9	14115.9	11802.5	10683.2	10617.2
65°	7692.4	7945.3	9128.3	12211.4	17124.3	20726.3	16825.2	12112.5	9216.3	7925.5	7830.9
67.5°	3489.9	3747.2	4752.2	8360.9	14885.6	20224.9	14850.4	8448.9	4989.7	3760.4	3705.5
70°	1264.4	1308.4	1631.7	3347.0	9513.2	16114.8	9920.1	3371.2	1735.1	1394.2	1376.6
72.5°	765.3	771.8	840.1	1198.5	3305.2	9783.7	3445.9	1238.1	857.6	760.9	774.1
75°	486.0	481.6	598.2	732.3	1172.1	3300.8	1229.3	732.3	595.9	543.1	547.6
77.5°	349.6	360.7	428.9	547.6	738.9	1119.3	725.7	523.4	428.9	351.9	358.4
80°	261.7	268.2	312.3	426.6	519.0	697.1	461.8	387.0	323.3	219.9	226.5
82.5°	189.1	189.1	204.5	310.1	316.6	376.1	250.7	272.6	213.3	156.1	156.1
85°	112.1	110.0	127.5	184.7	164.9	138.6	114.4	167.2	134.2	96.8	94.6
87.5°	39.6	41.8	39.6	52.8	44.0	37.4	35.2	46.2	37.4	33.0	30.7
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)