

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: P969326

Luminaire Tested: **NAV-SB5D-740-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969326
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-SB5D-740-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56384.2 lumens
Efficiency: N/A
Efficacy: 154.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

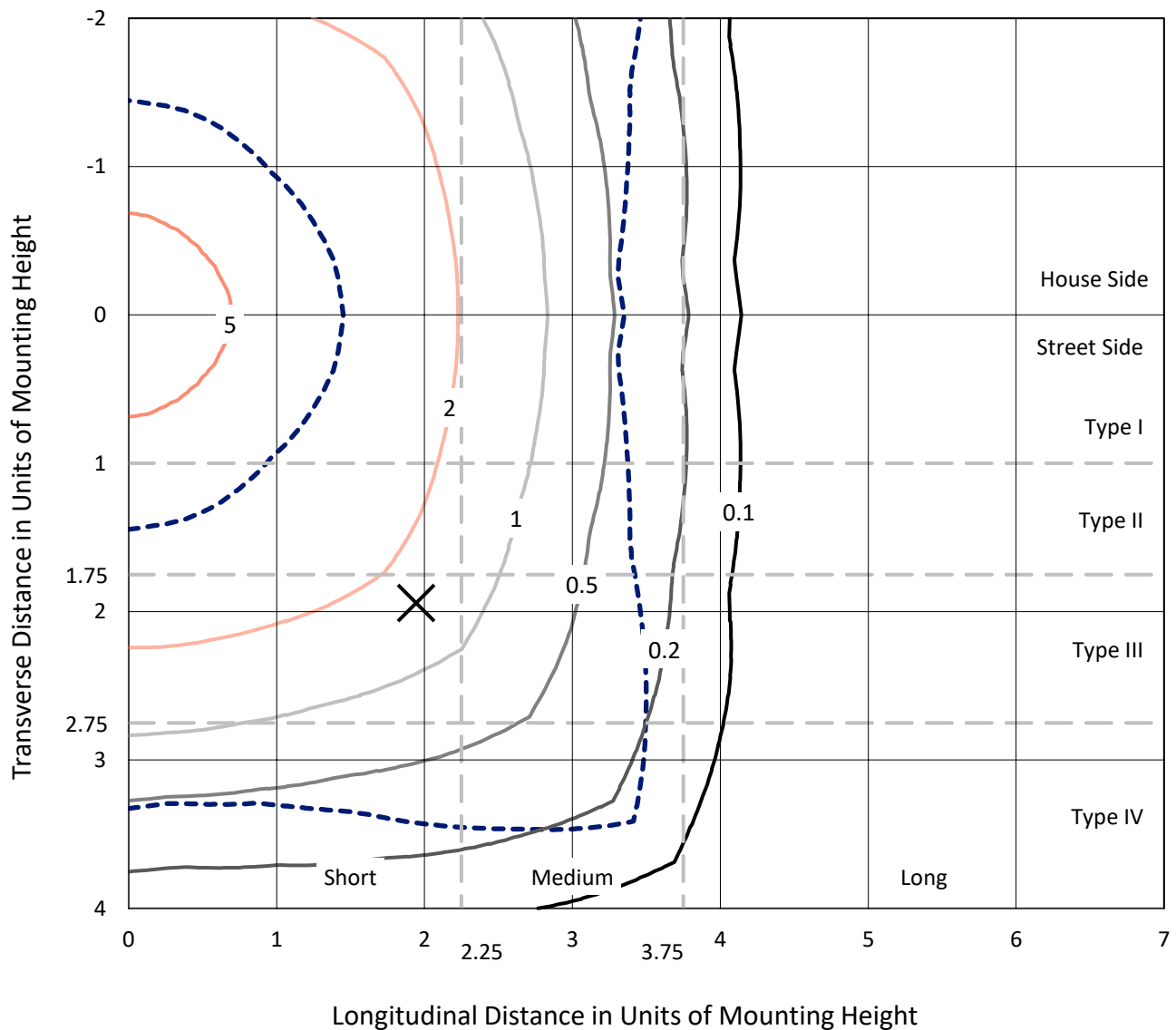
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

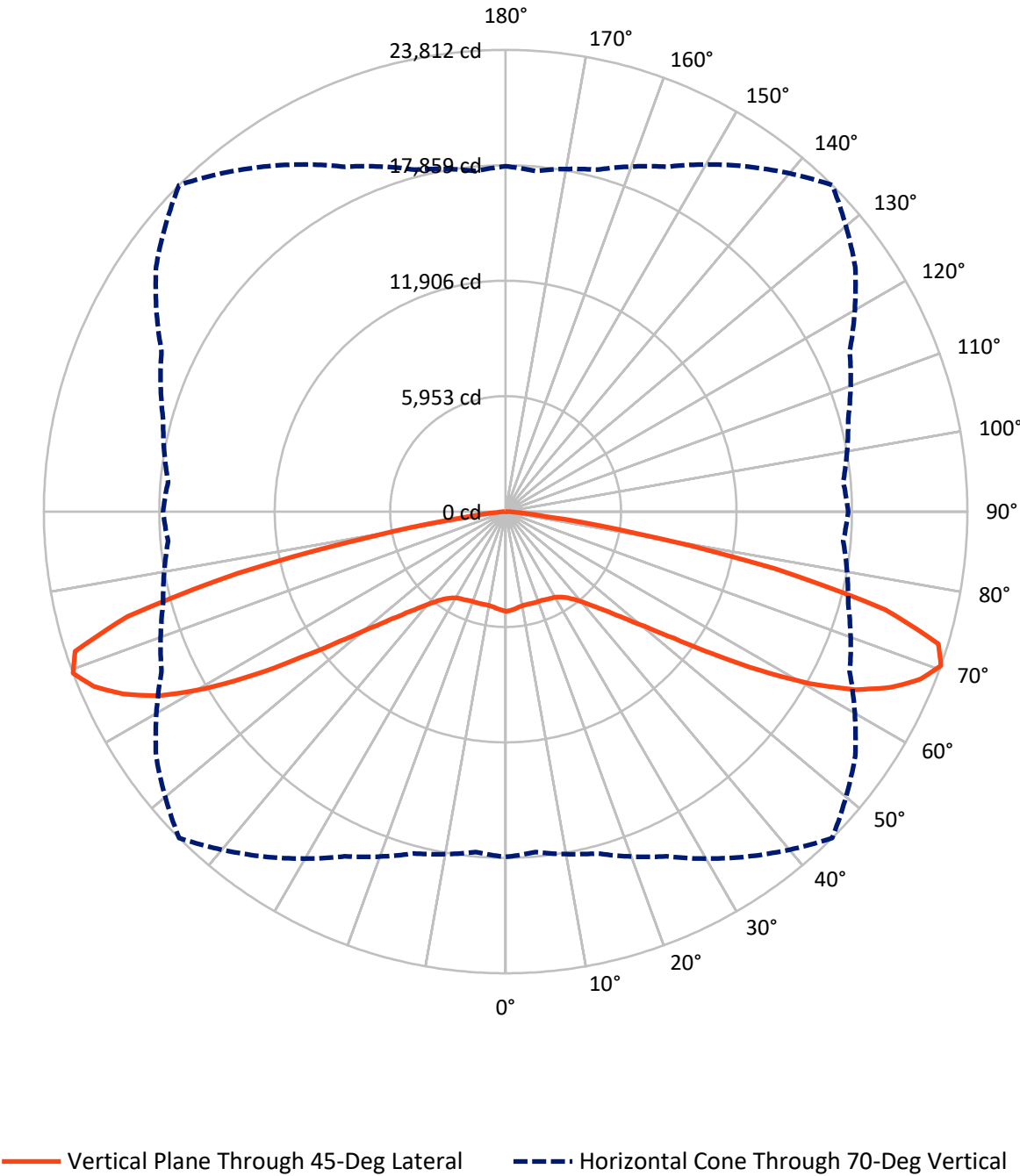
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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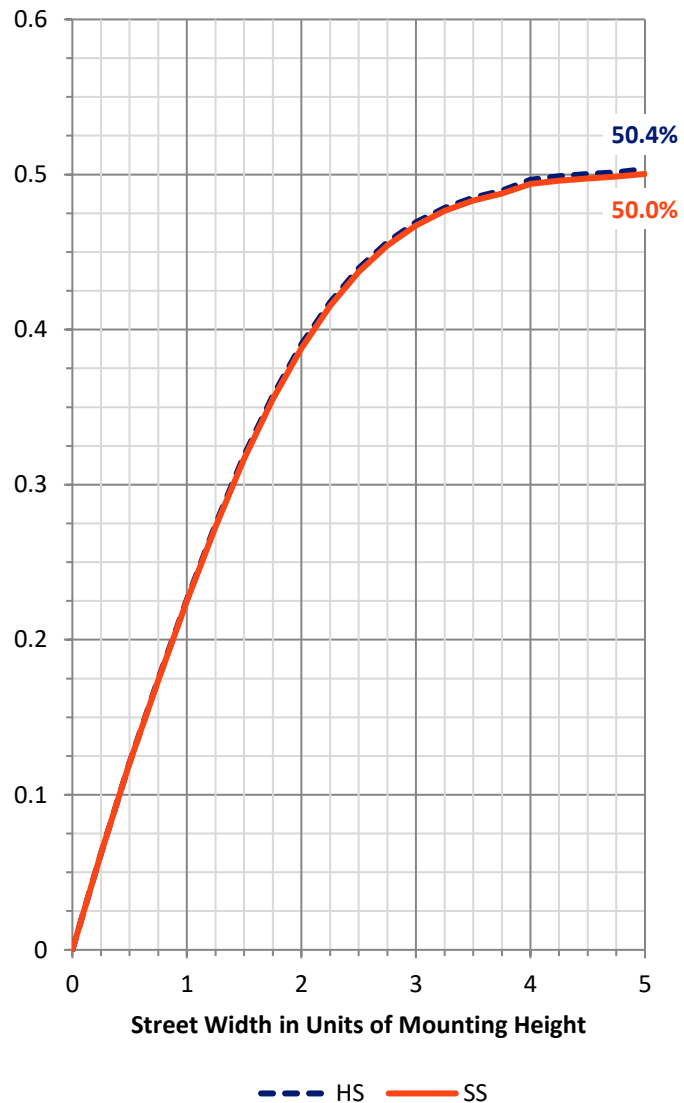
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28192.1	0.0	28192.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28192.1	0.0	28192.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	56384.2	0.0	56384.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.5	0.8
10°-20°	1404.9	2.5
20°-30°	2337.9	4.1
30°-40°	3535.6	6.3
40°-50°	5875.3	10.4
50°-60°	11086.5	19.7
60°-70°	18720.1	33.2
70°-80°	12301.0	21.8
80°-90°	644.5	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°	56384.2	100.0
0°-180°	56384.2	100.0

Coefficient of Utilization



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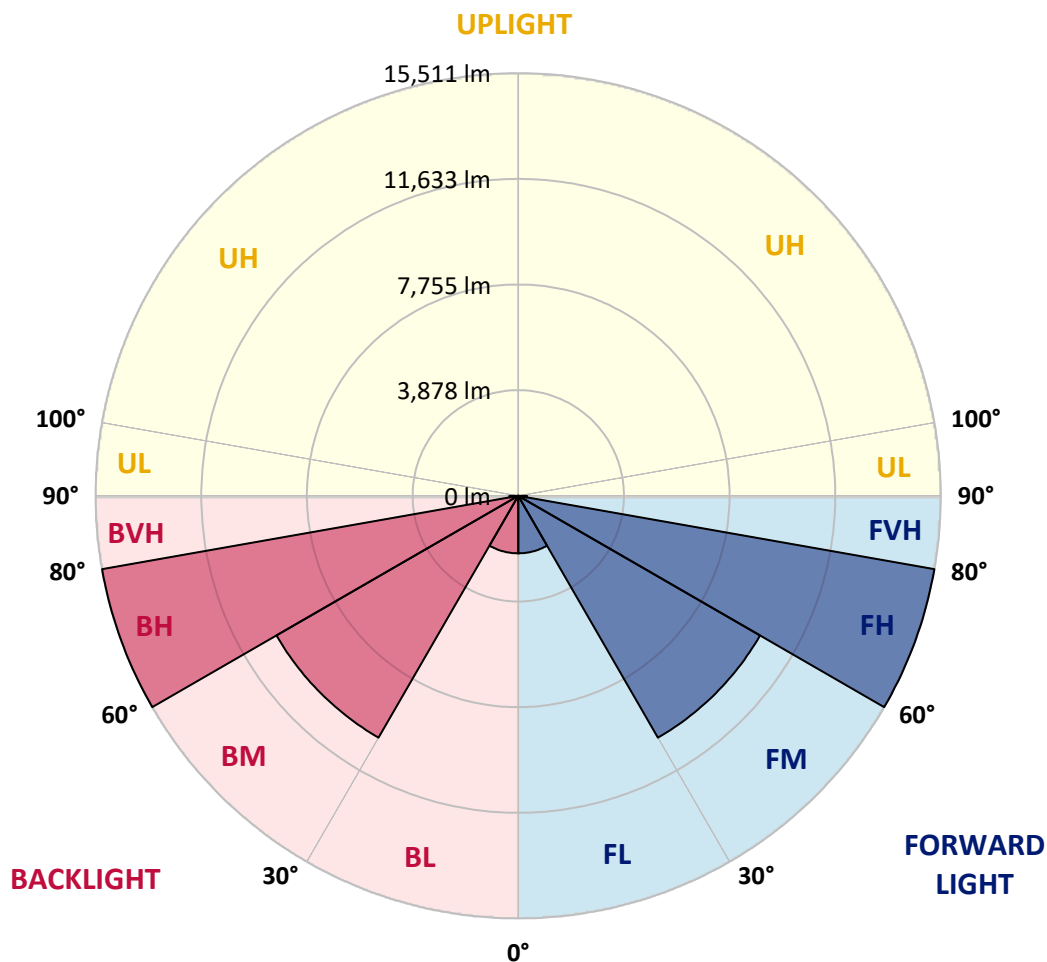
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2110.6	3.7			
FM	(30°-60°)	10248.7	18.2			
FH	(60°-80°)	15510.5	27.5			G5
FVH	(80°-90°)	322.2	0.6			G3/500
BL	(0°-30°)	2110.6	3.7	B3/2500		
BM	(30°-60°)	10248.7	18.2	B5		
BH	(60°-80°)	15510.5	27.5	B5		G5
BVH	(80°-90°)	322.2	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5143.3	5143.3	5143.3	5143.3	5143.3	5143.3	5143.3	5143.3	5143.3	5143.3	5143.3
2.5°	5111.2	5125.8	5120.0	5108.2	5108.2	5099.4	5108.2	5114.0	5122.8	5128.7	5125.8
5°	5043.7	5055.5	5052.5	5043.7	5046.7	5037.9	5043.7	5052.5	5058.4	5061.3	5061.3
7.5°	4985.1	4996.9	4990.9	4976.4	4976.4	4967.6	4970.4	4979.2	4988.1	4990.9	4990.9
10°	4970.4	4982.2	4964.6	4941.1	4932.4	4920.6	4923.6	4932.4	4949.9	4958.7	4958.7
12.5°	4976.4	4985.1	4967.6	4932.4	4923.6	4911.9	4911.9	4920.6	4944.1	4955.8	4958.7
15°	4993.9	5002.7	4976.4	4938.2	4929.4	4920.6	4917.7	4929.4	4955.8	4976.4	4979.2
17.5°	5026.2	5034.9	4993.9	4941.1	4929.4	4932.4	4929.4	4938.2	4979.2	5017.4	5017.4
20°	5055.5	5061.3	5005.6	4941.1	4929.4	4932.4	4929.4	4947.1	4999.7	5052.5	5055.5
22.5°	5064.2	5070.1	5017.4	4961.7	4952.9	4955.8	4952.9	4970.4	5020.2	5073.0	5073.0
25°	5067.2	5076.0	5034.9	4990.9	5005.6	5011.5	5005.6	5008.6	5046.7	5093.5	5090.7
27.5°	5111.2	5122.8	5084.7	5046.7	5055.5	5052.5	5061.3	5070.1	5099.4	5146.3	5134.6
30°	5202.0	5210.8	5178.5	5140.5	5134.6	5114.0	5140.5	5169.8	5202.0	5243.0	5234.3
32.5°	5351.4	5369.1	5328.1	5287.0	5260.6	5248.9	5269.4	5319.2	5363.2	5407.2	5389.6
35°	5600.6	5612.3	5574.2	5498.0	5451.1	5451.1	5468.7	5533.2	5603.5	5659.2	5638.6
37.5°	5952.3	5966.9	5899.5	5808.7	5738.3	5738.3	5761.7	5829.2	5934.6	6013.8	5984.5
40°	6380.1	6400.6	6315.6	6221.9	6154.5	6142.7	6172.0	6248.3	6347.9	6447.6	6415.3
42.5°	6895.9	6919.4	6808.0	6725.9	6673.2	6673.2	6687.8	6758.2	6849.0	6972.2	6963.3
45°	7555.4	7596.4	7444.0	7362.0	7312.0	7323.8	7332.6	7394.1	7476.2	7616.9	7611.0
47.5°	8340.7	8381.8	8220.6	8135.6	8126.8	8182.5	8147.3	8191.3	8235.3	8396.5	8349.5
50°	9231.7	9302.1	9190.7	9184.8	9202.3	9304.9	9222.9	9246.3	9196.5	9299.1	9237.6
52.5°	10322.0	10424.5	10404.0	10439.1	10635.5	10846.6	10659.0	10576.9	10389.3	10421.6	10313.1
55°	11643.7	11799.0	11828.3	12039.3	12484.8	12915.6	12517.0	12185.8	11787.3	11714.0	11599.7
57.5°	13147.2	13270.2	13410.9	13841.7	14674.0	15439.0	14674.0	13941.3	13314.1	13164.7	13059.2
60°	14764.8	14917.2	15052.0	15688.0	16924.8	18000.3	16901.3	15737.8	14908.4	14706.3	14530.4
62.5°	16502.8	16699.1	16792.9	17499.2	18941.1	20224.8	18961.6	17552.0	16631.8	16414.9	16239.0
65°	18170.4	18331.5	18437.0	19190.3	20567.6	21854.2	20661.4	19272.3	18325.7	18041.3	17900.7
67.5°	18946.9	19034.9	19292.8	20145.7	21599.2	23067.5	21845.4	20236.5	19178.5	18680.3	18686.2
70°	17809.9	17631.1	18252.4	19618.1	21722.3	23811.9	22003.7	19577.1	18281.7	17472.9	17666.3
72.5°	13762.6	13454.9	14533.4	16869.1	20315.6	23337.2	20456.2	17001.0	15204.4	13563.3	13970.6
75°	7487.9	7139.2	8627.9	11582.1	16200.9	20227.7	16573.1	11913.3	9606.8	7432.3	7915.8
77.5°	2113.0	1981.1	3182.7	5603.5	9744.6	14202.2	10119.7	5726.6	3774.8	2239.0	2488.2
80°	647.7	627.2	849.9	1688.1	4138.1	6802.1	3977.0	1708.6	1081.5	682.9	721.0
82.5°	384.0	351.7	422.0	615.4	1055.0	2136.5	1025.7	641.9	515.8	345.8	375.2
85°	219.8	205.1	249.1	298.9	354.6	454.3	296.0	304.8	275.5	184.6	193.4
87.5°	90.8	82.1	96.8	93.8	82.1	105.5	79.1	93.8	111.4	73.3	67.4
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)