

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: P971527

Luminaire Tested: **NAV-SB6D-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971527
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-SB6D-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55633.9 lumens
Efficiency: N/A
Efficacy: 126.4 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): 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



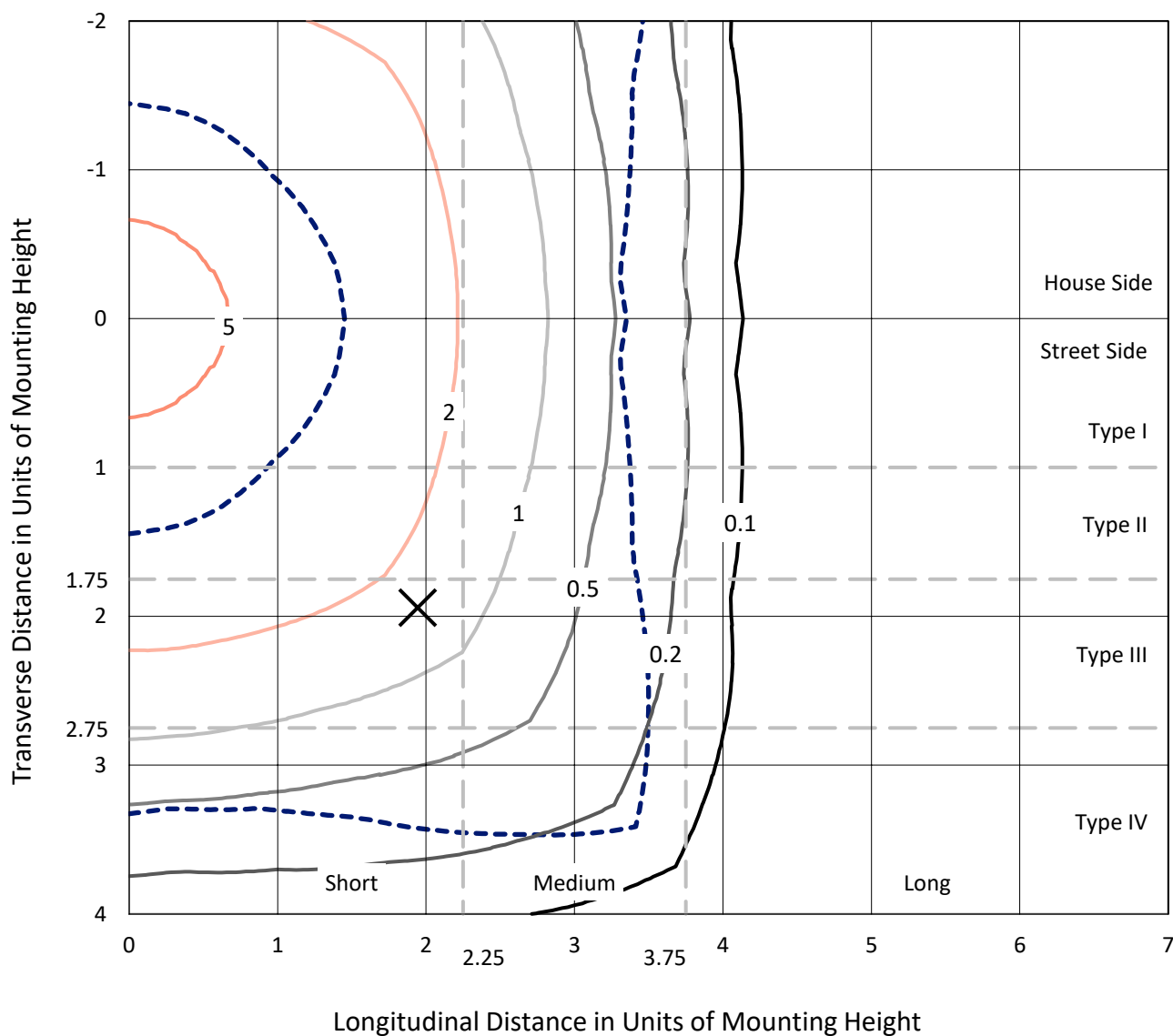
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

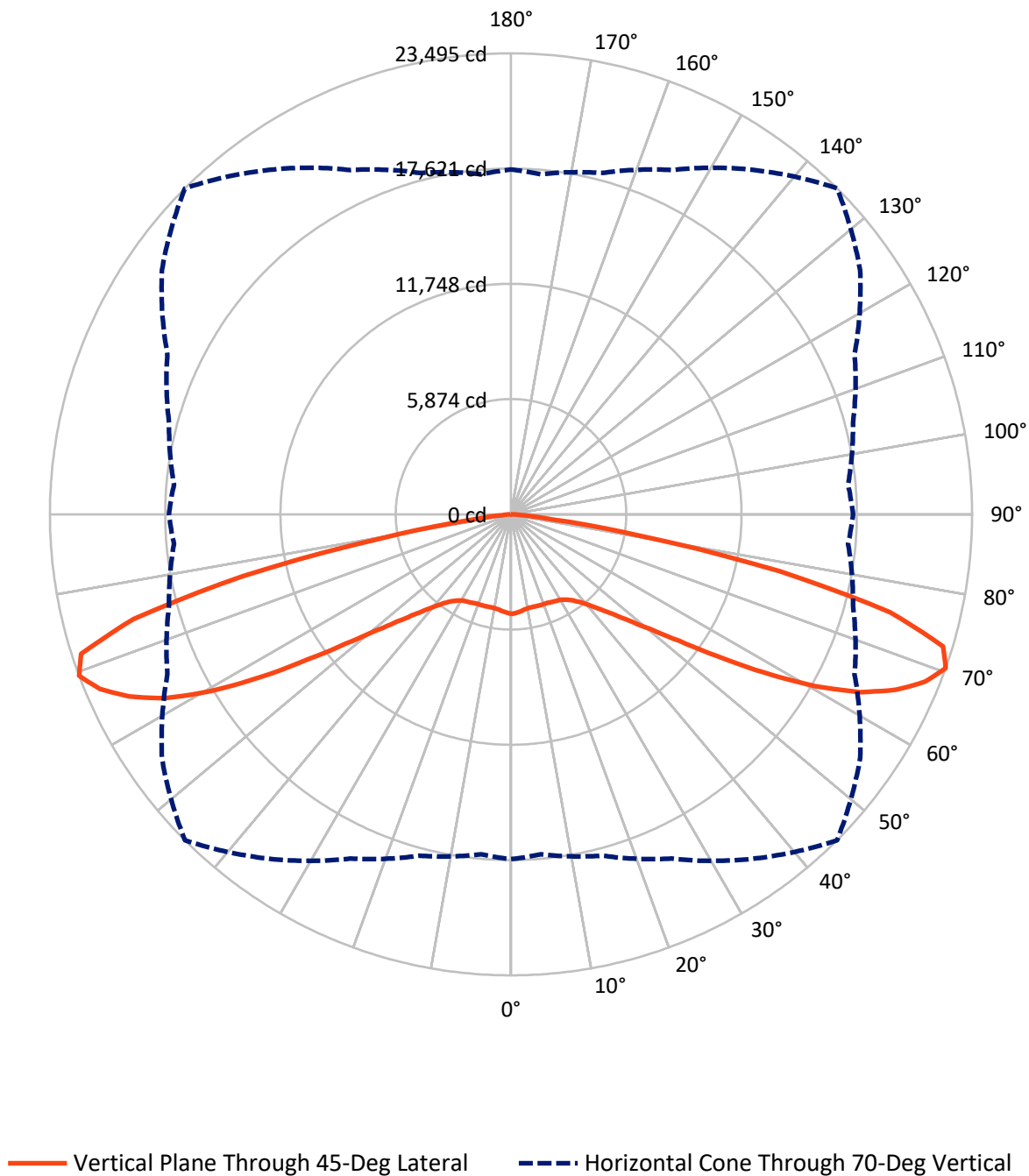


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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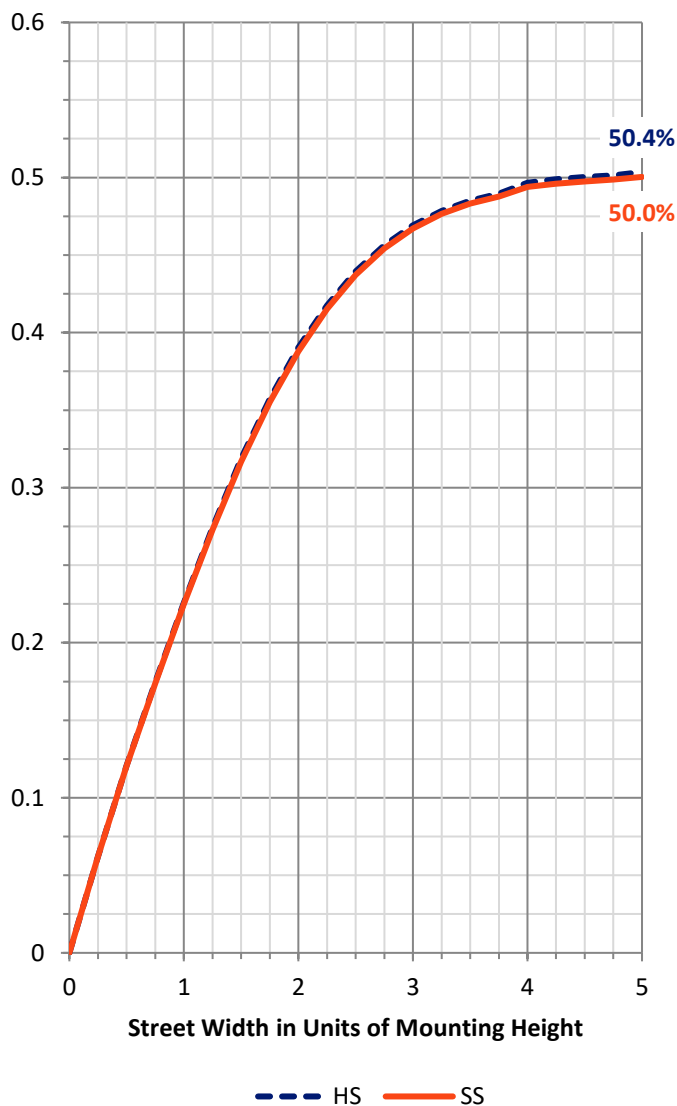
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27817.0	0.0	27817.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27817.0	0.0	27817.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	55633.9	0.0	55633.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.1	0.8
10°-20°	1386.2	2.5
20°-30°	2306.8	4.1
30°-40°	3488.6	6.3
40°-50°	5797.1	10.4
50°-60°	10939.0	19.7
60°-70°	18470.9	33.2
70°-80°	12137.3	21.8
80°-90°	635.9	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°	55633.9	100.0
0°-180°	55633.9	100.0

Coefficient of Utilization



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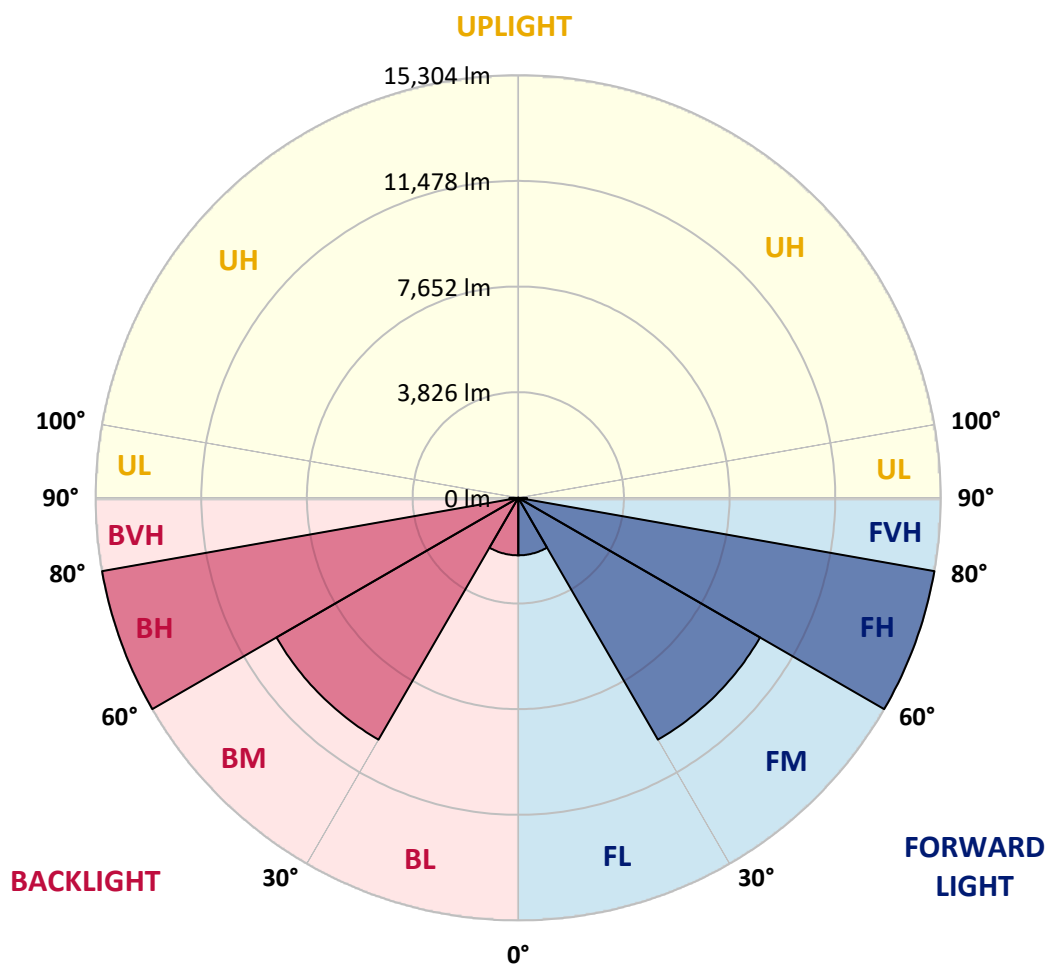
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2082.5	3.7			
FM	(30°-60°)	10112.4	18.2			
FH	(60°-80°)	15304.1	27.5			G5
FVH	(80°-90°)	317.9	0.6			G3/500
BL	(0°-30°)	2082.5	3.7	B3/2500		
BM	(30°-60°)	10112.4	18.2	B5		
BH	(60°-80°)	15304.1	27.5	B5		G5
BVH	(80°-90°)	317.9	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°	5075.0	5075.0	5075.0	5075.0	5075.0	5075.0	5075.0	5075.0	5075.0	5075.0	5075.0
2.5°	5043.1	5057.6	5051.8	5040.2	5040.2	5031.5	5040.2	5046.0	5054.7	5060.4	5057.6
5°	4976.6	4988.2	4985.3	4976.6	4979.6	4970.8	4976.6	4985.3	4991.0	4994.0	4994.0
7.5°	4918.8	4930.4	4924.6	4910.1	4910.1	4901.4	4904.3	4913.0	4921.6	4924.6	4924.6
10°	4904.3	4915.9	4898.6	4875.4	4866.7	4855.1	4858.1	4866.7	4884.1	4892.7	4892.7
12.5°	4910.1	4918.8	4901.4	4866.7	4858.1	4846.5	4846.5	4855.1	4878.3	4889.9	4892.7
15°	4927.5	4936.1	4910.1	4872.5	4863.8	4855.1	4852.2	4863.8	4889.9	4910.1	4913.0
17.5°	4959.3	4968.0	4927.5	4875.4	4863.8	4866.7	4863.8	4872.5	4913.0	4950.5	4950.5
20°	4988.2	4994.0	4939.1	4875.4	4863.8	4866.7	4863.8	4881.2	4933.2	4985.3	4988.2
22.5°	4996.9	5002.6	4950.5	4895.6	4887.0	4889.9	4887.0	4904.3	4953.5	5005.5	5005.5
25°	4999.7	5008.5	4968.0	4924.6	4939.1	4944.8	4939.1	4941.9	4979.6	5025.8	5022.9
27.5°	5043.1	5054.7	5017.1	4979.6	4988.2	4985.3	4994.0	5002.6	5031.5	5077.8	5066.3
30°	5132.8	5141.4	5109.6	5072.0	5066.3	5046.0	5072.0	5100.9	5132.8	5173.3	5164.6
32.5°	5280.3	5297.6	5257.1	5216.6	5190.6	5179.0	5199.3	5248.4	5291.8	5335.2	5317.8
35°	5526.1	5537.6	5500.0	5424.8	5378.6	5378.6	5395.9	5459.6	5529.0	5583.9	5563.6
37.5°	5873.0	5887.5	5821.0	5731.4	5662.0	5662.0	5685.1	5751.6	5855.7	5933.7	5904.8
40°	6295.2	6315.4	6231.6	6139.0	6072.6	6061.0	6089.9	6165.1	6263.5	6361.8	6329.9
42.5°	6804.2	6827.3	6717.4	6636.5	6584.4	6584.4	6598.8	6668.2	6757.9	6879.4	6870.7
45°	7454.8	7495.3	7344.9	7264.0	7214.8	7226.4	7235.1	7295.7	7376.7	7515.5	7509.8
47.5°	8229.8	8270.2	8111.2	8027.4	8018.7	8073.6	8039.0	8082.3	8125.7	8284.8	8238.4
50°	9108.9	9178.3	9068.4	9062.6	9080.0	9181.1	9100.2	9123.3	9074.1	9175.4	9114.6
52.5°	10184.6	10285.8	10265.6	10300.2	10493.9	10702.2	10517.1	10436.1	10251.1	10282.9	10175.9
55°	11488.7	11641.9	11670.9	11879.1	12318.7	12743.7	12350.4	12023.7	11630.4	11558.1	11445.4
57.5°	12972.2	13093.7	13232.4	13657.5	14478.7	15233.4	14478.7	13755.8	13137.0	12989.5	12885.4
60°	14568.4	14718.8	14851.7	15479.2	16699.6	17760.8	16676.4	15528.4	14710.1	14510.5	14337.1
62.5°	16283.1	16476.9	16569.4	17266.3	18689.0	19955.6	18709.3	17318.4	16410.4	16196.4	16022.9
65°	17928.6	18087.6	18191.7	18934.8	20294.0	21563.4	20386.5	19015.8	18081.8	17801.3	17662.5
67.5°	18694.9	18781.6	19036.1	19877.5	21311.8	22760.5	21554.7	19967.2	18923.2	18431.7	18437.5
70°	17572.9	17396.5	18009.6	19357.0	21433.3	23495.0	21710.9	19316.5	18038.5	17240.3	17431.1
72.5°	13579.4	13275.8	14340.0	16644.7	20045.3	23026.6	20184.1	16774.7	15002.1	13382.8	13784.7
75°	7388.3	7044.2	8513.1	11428.0	15985.3	19958.5	16352.5	11754.8	9479.0	7333.4	7810.5
77.5°	2085.0	1954.8	3140.4	5529.0	9614.9	14013.2	9985.0	5650.4	3724.5	2209.3	2455.1
80°	639.1	618.8	838.6	1665.6	4083.1	6711.6	3924.0	1685.8	1067.0	673.7	711.3
82.5°	378.8	347.0	416.4	607.2	1041.0	2108.0	1012.1	633.2	508.9	341.2	370.1
85°	216.9	202.4	245.8	295.0	349.9	448.2	292.0	300.7	271.8	182.1	190.9
87.5°	89.7	81.0	95.4	92.6	81.0	104.1	78.1	92.6	109.9	72.3	66.5
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)