

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: P969448

Luminaire Tested: **NAV-SB5D-830-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5D-830-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49581.3 lumens
Efficiency: N/A
Efficacy: 135.9 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): 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

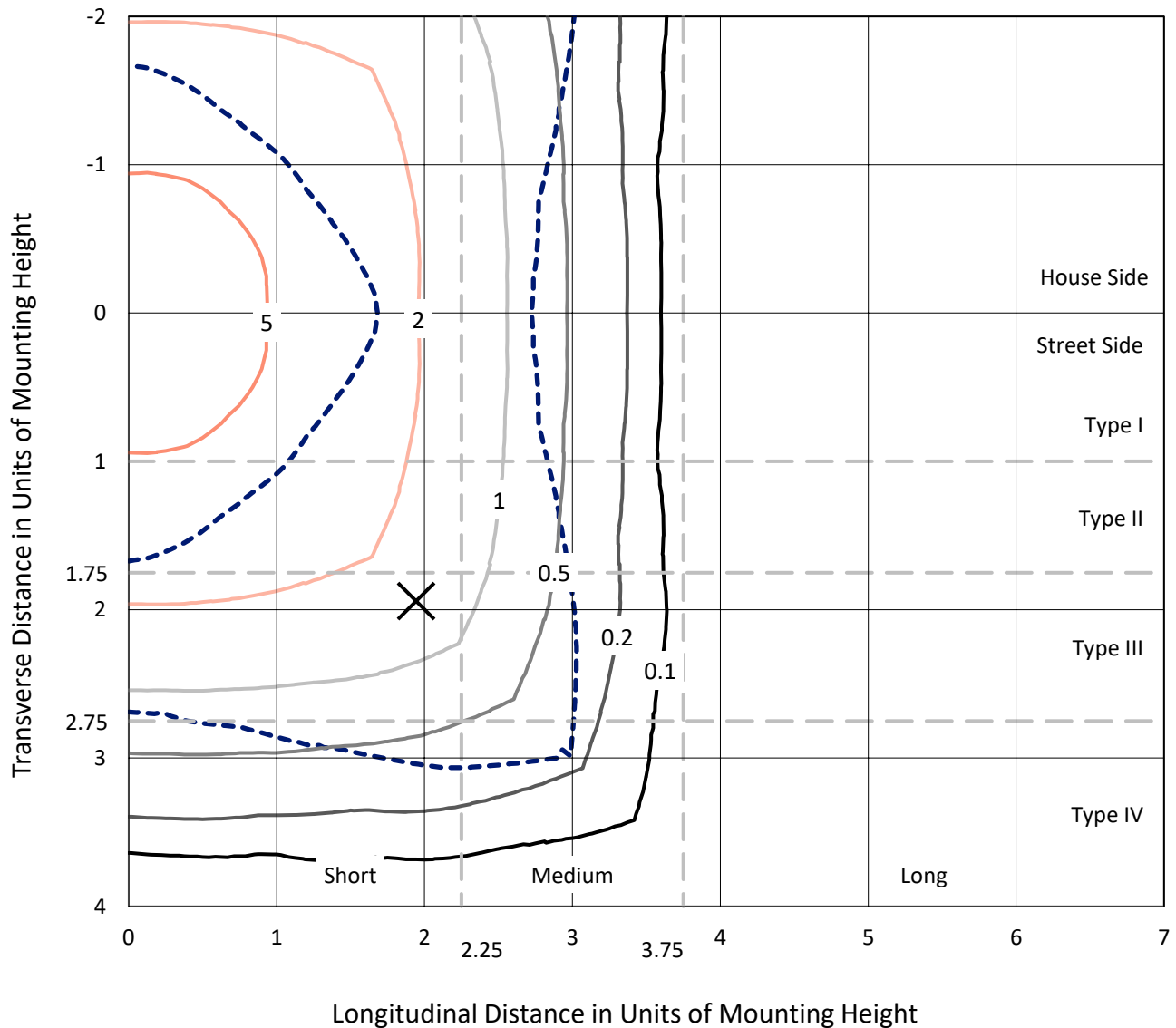


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Iso-Footcandle Lines of Horizontal Illumination

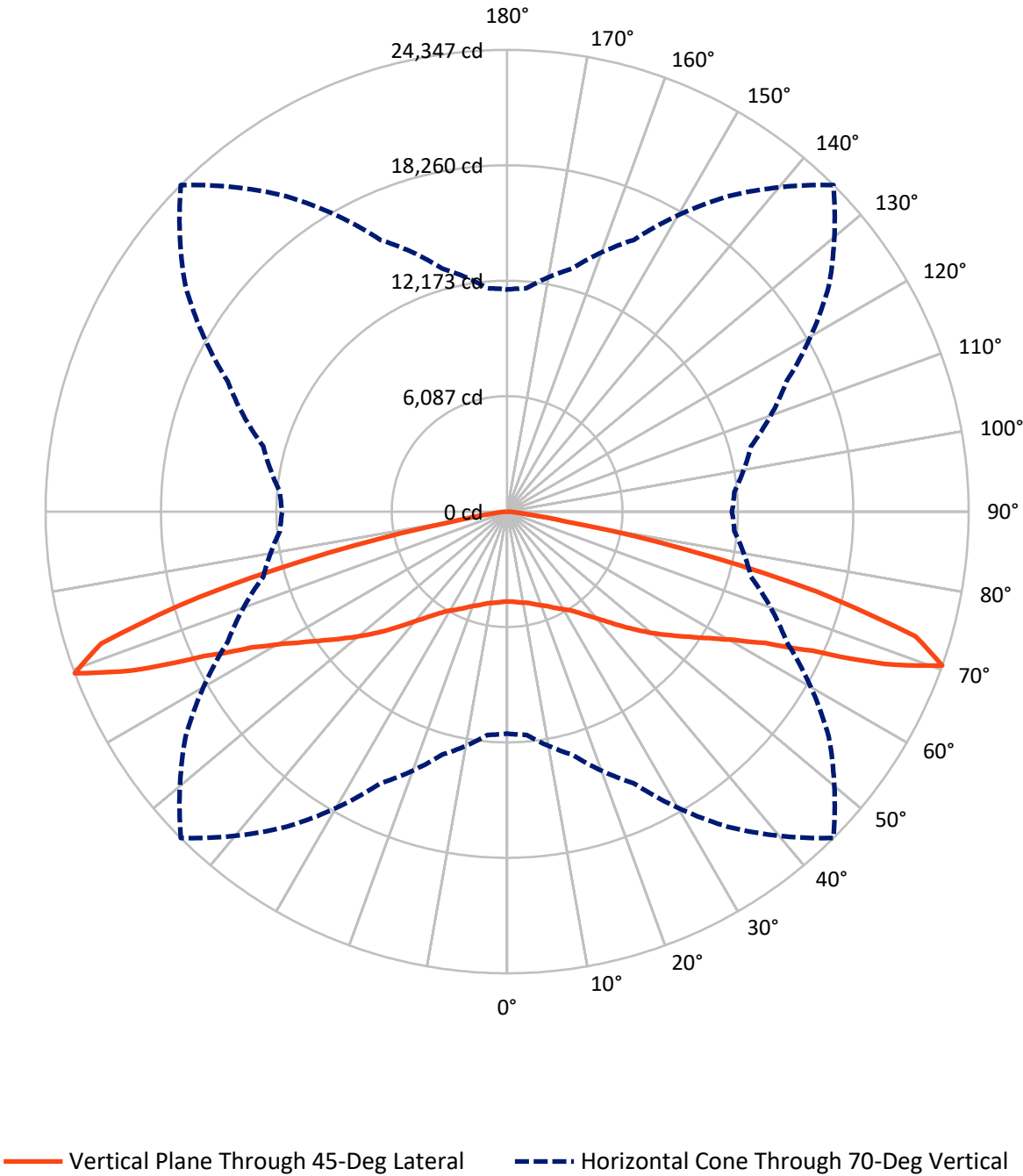
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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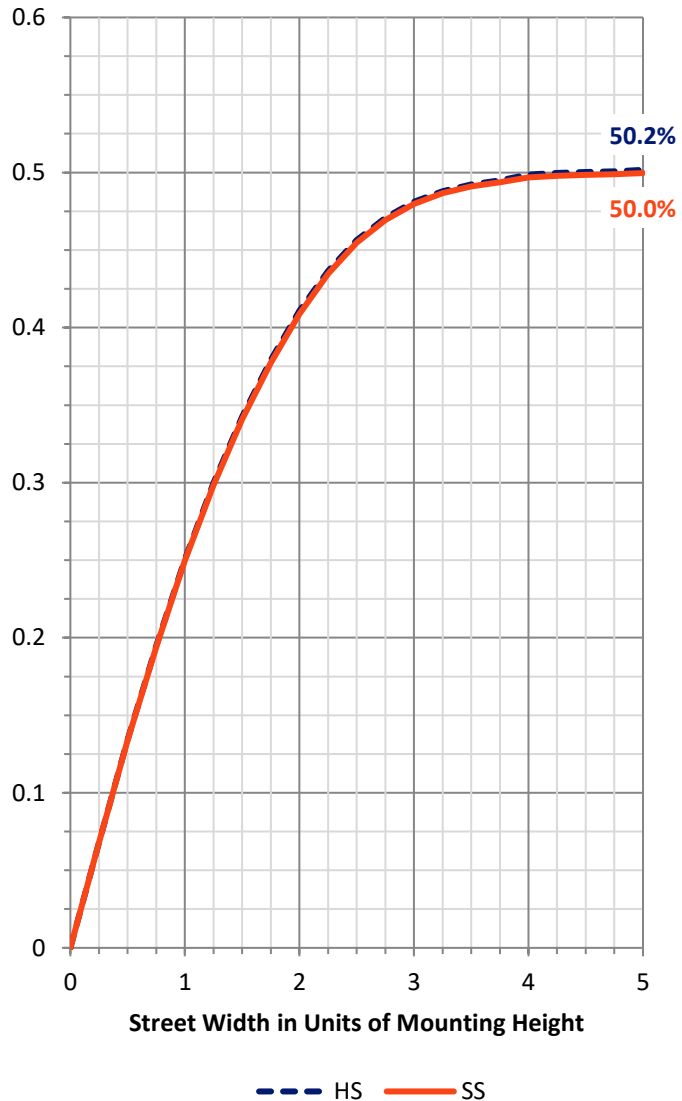
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24790.7	0.0	24790.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24790.7	0.0	24790.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	49581.3	0.0	49581.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.4	0.9
10°-20°	1430.8	2.9
20°-30°	2556.9	5.2
30°-40°	4144.7	8.4
40°-50°	6751.1	13.6
50°-60°	10293.2	20.8
60°-70°	15312.9	30.9
70°-80°	8346.1	16.8
80°-90°	284.2	0.6
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°	49581.3	100.0
0°-180°	49581.3	100.0

Coefficient of Utilization



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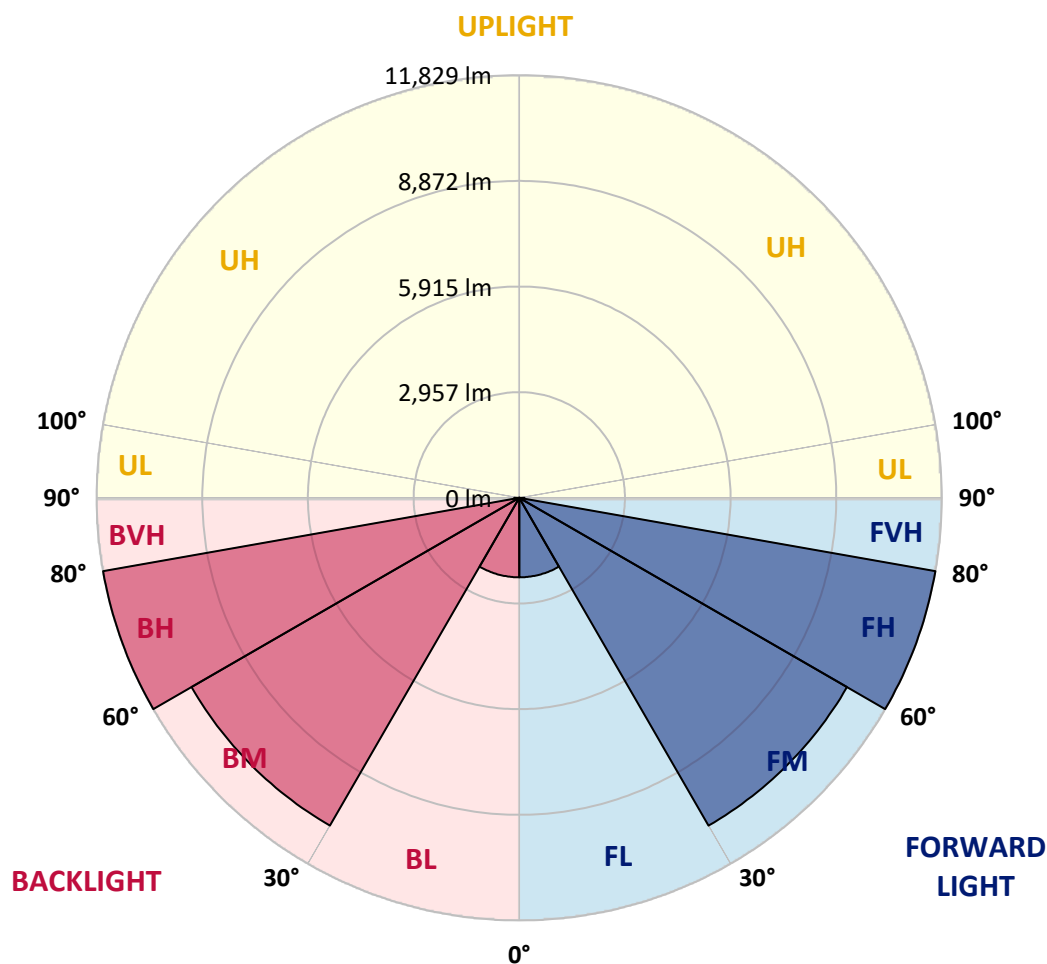
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2224.5	4.5			
FM	(30°-60°)	10594.5	21.4			
FH	(60°-80°)	11829.5	23.9			G4/12000
FVH	(80°-90°)	142.1	0.3			G2/225
BL	(0°-30°)	2224.5	4.5	B3/2500		
BM	(30°-60°)	10594.5	21.4	B5		
BH	(60°-80°)	11829.5	23.9	B5		G4/12000
BVH	(80°-90°)	142.1	0.3			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°	4749.3	4749.3	4749.3	4749.3	4749.3	4749.3	4749.3	4749.3	4749.3	4749.3	4749.3
2.5°	4771.8	4776.8	4766.8	4761.8	4756.8	4749.3	4751.9	4764.3	4774.2	4771.8	4774.2
5°	4811.6	4816.6	4809.1	4806.6	4796.7	4794.1	4794.1	4806.6	4814.1	4809.1	4811.6
7.5°	4856.4	4863.8	4851.4	4849.0	4843.9	4839.0	4836.5	4849.0	4856.4	4856.4	4856.4
10°	4898.7	4906.2	4896.2	4888.7	4883.8	4883.8	4878.8	4888.7	4901.2	4898.7	4898.7
12.5°	4943.6	4948.5	4938.6	4933.5	4933.5	4941.0	4933.5	4938.6	4948.5	4943.6	4941.0
15°	4998.3	5000.8	4998.3	5005.8	5018.2	5043.1	5020.7	5015.7	5020.7	5008.3	5008.3
17.5°	5072.9	5078.0	5087.9	5105.3	5122.7	5167.5	5127.8	5115.3	5115.3	5090.4	5090.4
20°	5165.1	5172.6	5187.4	5217.4	5239.7	5282.0	5242.3	5224.8	5217.4	5185.0	5185.0
22.5°	5262.1	5274.5	5297.0	5336.9	5376.6	5416.5	5376.6	5346.8	5324.4	5282.0	5279.6
25°	5374.2	5389.1	5424.0	5488.7	5543.4	5600.7	5553.3	5493.7	5448.8	5389.1	5386.6
27.5°	5533.5	5550.9	5593.2	5672.9	5742.6	5792.4	5747.6	5670.4	5608.2	5535.9	5533.5
30°	5757.5	5775.0	5824.7	5909.3	5956.6	5989.0	5959.1	5899.4	5824.7	5742.6	5742.6
32.5°	6046.3	6068.6	6123.5	6203.1	6213.0	6218.0	6208.0	6178.2	6123.5	6023.8	6026.3
35°	6412.2	6437.0	6499.3	6564.0	6554.1	6564.0	6549.0	6539.1	6499.3	6384.7	6384.7
37.5°	6860.2	6890.0	6954.8	7004.5	6979.7	6967.2	6969.7	6972.3	6949.8	6822.9	6822.9
40°	7380.4	7420.3	7467.5	7519.8	7477.5	7440.2	7465.1	7485.0	7465.1	7335.6	7335.6
42.5°	7915.7	7972.9	8022.7	8097.3	8062.4	8015.2	8050.0	8072.5	8030.2	7890.8	7900.7
45°	8510.6	8565.3	8630.0	8742.0	8717.1	8667.4	8717.1	8722.1	8650.0	8485.7	8503.1
47.5°	9125.4	9182.7	9279.7	9429.1	9419.1	9364.3	9429.1	9394.2	9302.1	9105.5	9093.0
50°	9707.9	9787.5	9936.9	10146.0	10165.8	10098.6	10185.7	10118.6	9964.2	9717.8	9712.8
52.5°	10255.4	10340.1	10576.6	10860.4	10932.5	10845.4	10962.4	10845.4	10613.9	10297.8	10267.9
55°	10830.5	10925.1	11206.3	11577.3	11721.6	11656.9	11766.4	11589.7	11261.1	10877.8	10825.5
57.5°	11507.6	11564.8	11900.9	12341.4	12585.4	12600.3	12650.0	12351.4	11953.1	11517.5	11457.8
60°	12241.9	12321.5	12687.4	13215.1	13600.9	13725.4	13673.1	13230.1	12767.1	12266.7	12187.0
62.5°	13182.7	13269.9	13707.9	14340.3	14950.0	15258.8	15054.6	14412.4	13839.9	13240.0	13135.5
65°	13961.8	14058.9	14850.5	15978.1	17088.3	17708.1	17195.3	16013.0	14982.4	14136.1	13996.7
67.5°	13396.9	13516.3	14758.4	16829.4	19589.9	21439.4	19684.5	17083.3	15064.6	13917.0	13745.4
70°	11709.2	11821.1	13269.9	15801.4	20294.4	24346.7	20717.5	16266.9	13317.2	12032.8	11861.0
72.5°	7773.7	8134.7	9600.8	12637.6	18121.3	22529.7	18300.6	12381.3	8906.3	7756.3	7504.9
75°	2578.8	2867.5	3868.2	6551.6	12137.3	16849.4	11554.8	5797.3	3064.2	2205.4	2086.0
77.5°	649.6	749.3	1033.0	1874.3	4841.5	9593.4	4358.6	1530.8	833.8	582.5	520.3
80°	316.1	348.5	497.8	624.7	1212.3	3049.3	1137.5	587.4	393.3	303.7	278.8
82.5°	174.2	176.7	281.3	353.4	450.6	789.0	468.0	343.5	226.5	184.2	184.2
85°	107.0	104.6	149.3	189.2	189.2	281.3	224.1	189.2	129.5	114.5	119.5
87.5°	42.3	42.3	54.7	59.8	52.3	72.2	57.3	62.2	49.8	47.3	49.8
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)