

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: P971401

Luminaire Tested: **NAV-SB6D-735-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971401
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-SB6D-735-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66239.6 lumens
Efficiency: N/A
Efficacy: 150.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

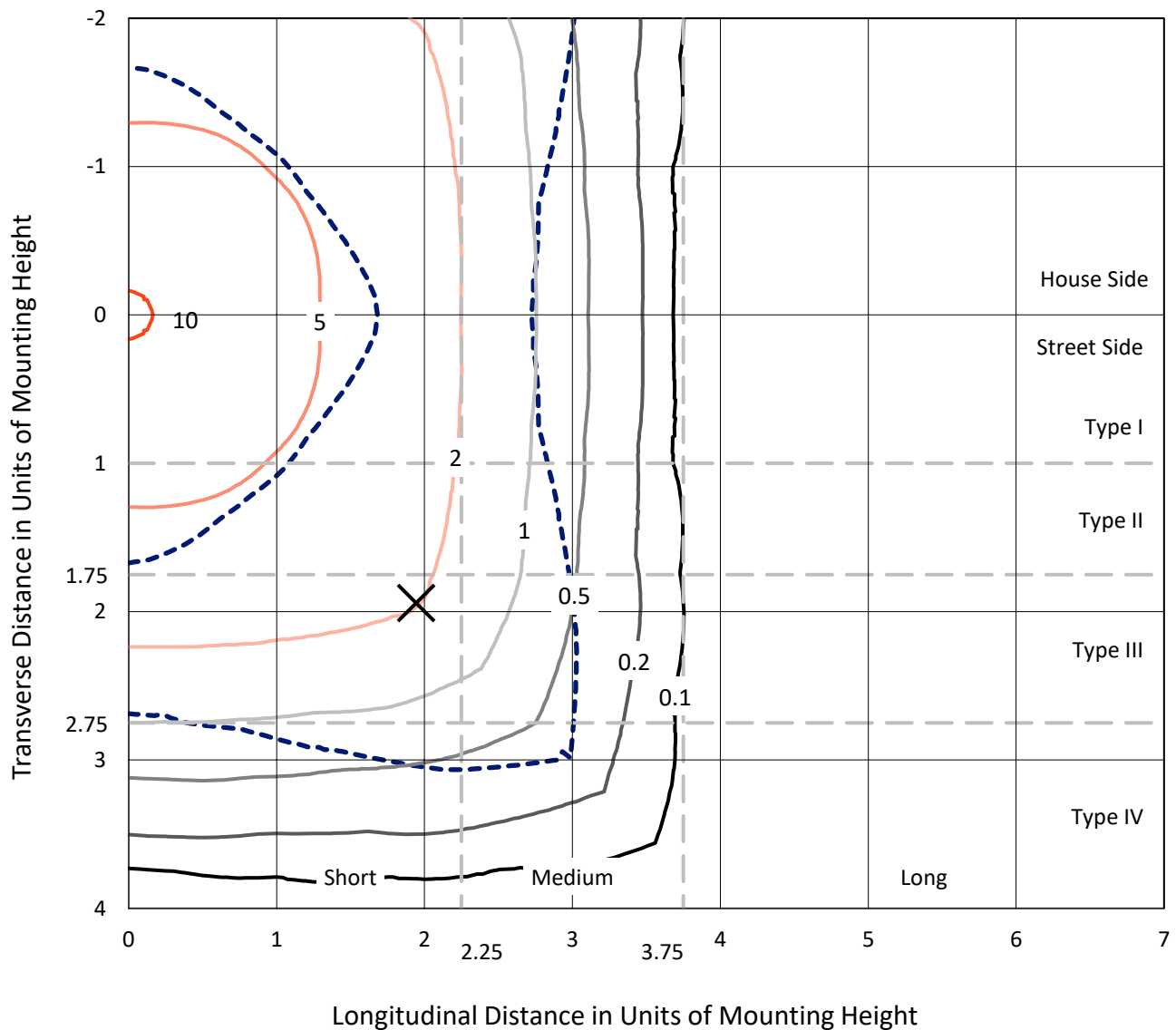
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

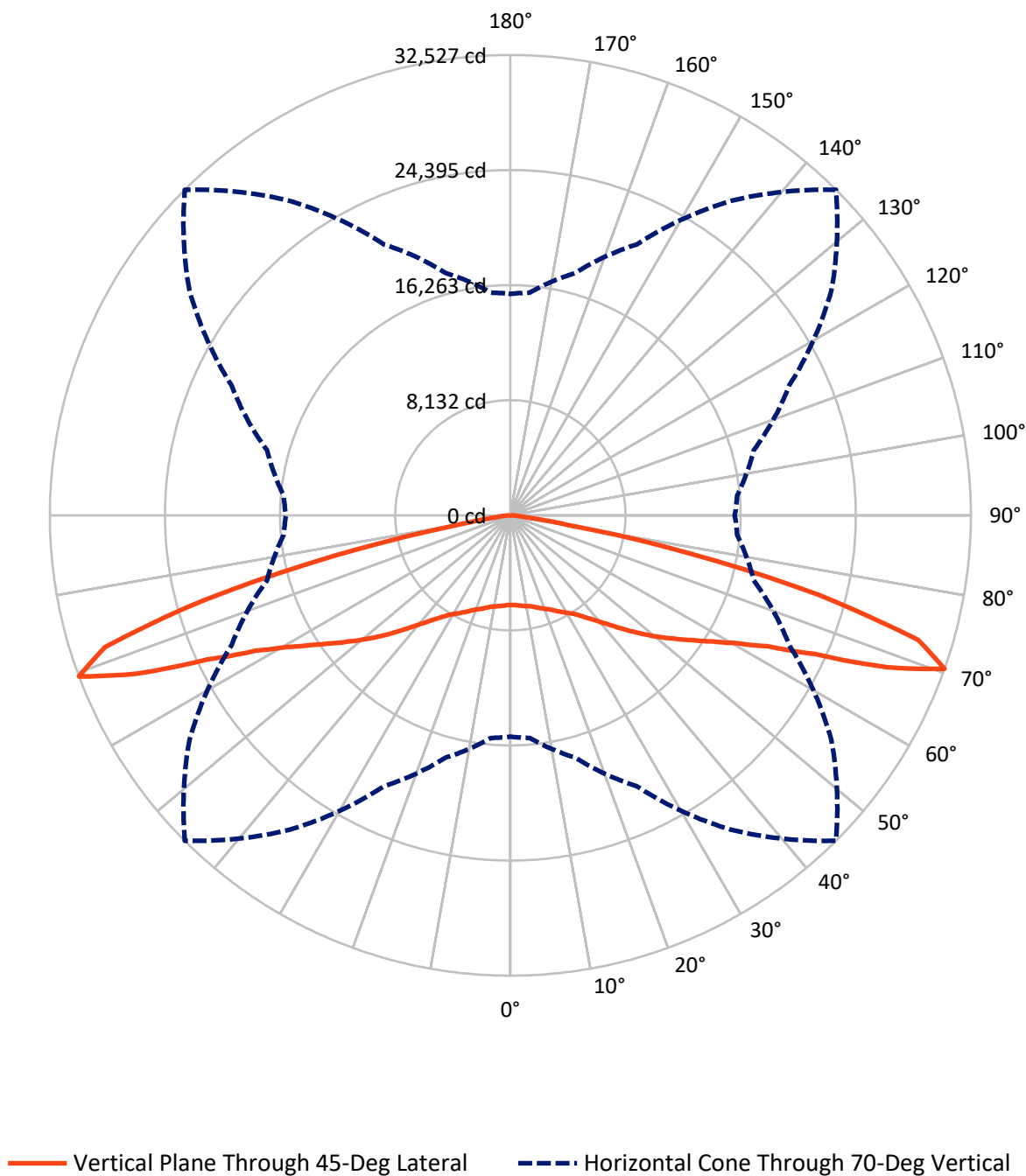
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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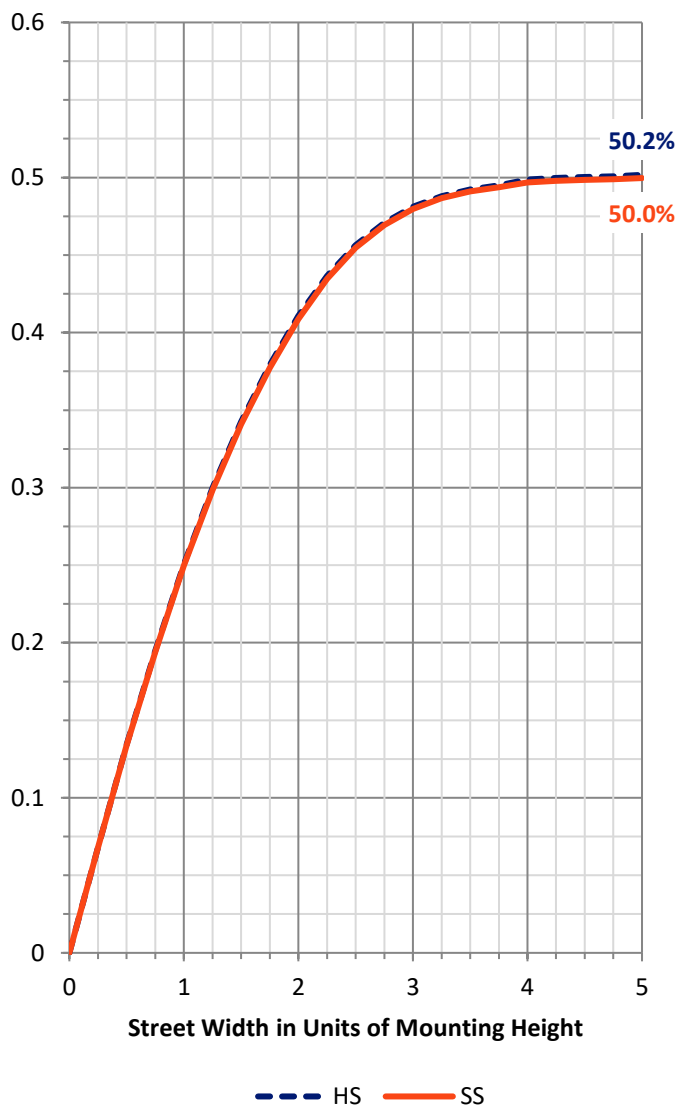
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	33119.8	0.0	33119.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	33119.8	0.0	33119.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	66239.6	0.0	66239.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.4	0.9
10°-20°	1911.5	2.9
20°-30°	3416.0	5.2
30°-40°	5537.3	8.4
40°-50°	9019.3	13.6
50°-60°	13751.4	20.8
60°-70°	20457.8	30.9
70°-80°	11150.2	16.8
80°-90°	379.7	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°	66239.6	100.0
0°-180°	66239.6	100.0

Coefficient of Utilization



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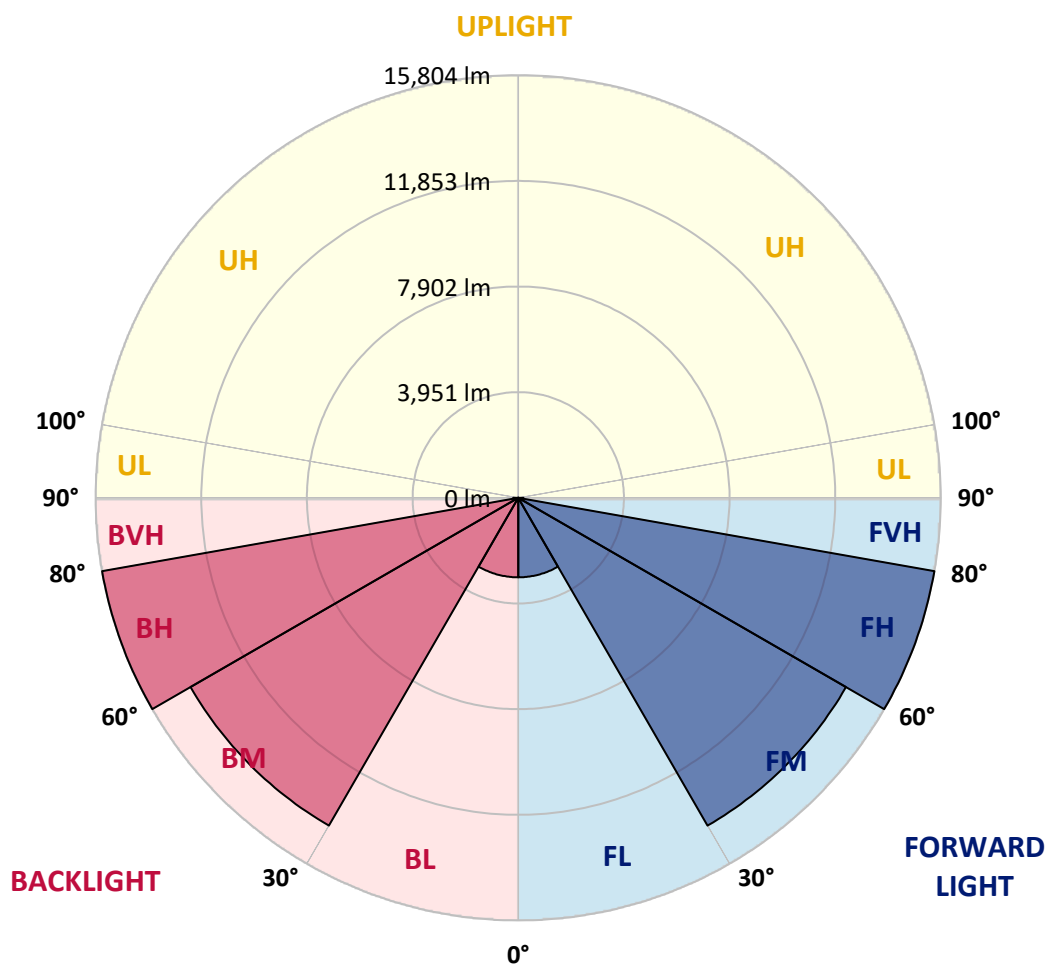
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2971.9	4.5			
FM	(30°-60°)	14154.0	21.4			
FH	(60°-80°)	15804.0	23.9			G5
FVH	(80°-90°)	189.9	0.3			G2/225
BL	(0°-30°)	2971.9	4.5	B4/5000		
BM	(30°-60°)	14154.0	21.4	B5		
BH	(60°-80°)	15804.0	23.9	B5		G5
BVH	(80°-90°)	189.9	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-G5

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6345.1	6345.1	6345.1	6345.1	6345.1	6345.1	6345.1	6345.1	6345.1	6345.1	6345.1
2.5°	6375.0	6381.6	6368.3	6361.7	6355.0	6345.1	6348.4	6365.0	6378.4	6375.0	6378.4
5°	6428.2	6434.8	6424.9	6421.5	6408.3	6404.9	6404.9	6421.5	6431.6	6424.9	6428.2
7.5°	6488.0	6498.1	6481.4	6478.1	6471.4	6464.8	6461.5	6478.1	6488.0	6488.0	6488.0
10°	6544.6	6554.6	6541.2	6531.3	6524.6	6524.6	6518.0	6531.3	6547.9	6544.6	6544.6
12.5°	6604.5	6611.1	6597.8	6591.2	6591.2	6601.1	6591.2	6597.8	6611.1	6604.5	6601.1
15°	6677.7	6681.0	6677.7	6687.6	6704.2	6737.4	6707.5	6700.9	6707.5	6690.9	6690.9
17.5°	6777.4	6784.1	6797.3	6820.7	6843.9	6903.8	6850.6	6833.9	6833.9	6800.7	6800.7
20°	6900.4	6910.4	6930.3	6970.3	7000.2	7056.7	7003.5	6980.2	6970.3	6927.1	6927.1
22.5°	7030.2	7046.8	7076.7	7129.9	7183.1	7236.3	7183.1	7143.2	7113.3	7056.7	7053.4
25°	7179.8	7199.7	7246.2	7332.7	7405.9	7482.4	7419.3	7339.4	7279.6	7199.7	7196.4
27.5°	7392.6	7415.9	7472.5	7578.8	7671.9	7738.4	7678.6	7575.5	7492.3	7395.9	7392.6
30°	7691.9	7715.2	7781.7	7894.8	7957.9	8001.2	7961.3	7881.4	7781.7	7671.9	7671.9
32.5°	8077.6	8107.5	8180.7	8287.1	8300.4	8307.1	8293.8	8253.9	8180.7	8047.7	8051.1
35°	8566.5	8599.8	8682.9	8769.4	8756.1	8769.4	8749.4	8736.1	8682.9	8529.9	8529.9
37.5°	9165.1	9205.0	9291.4	9357.9	9324.7	9308.1	9311.4	9314.8	9284.9	9115.2	9115.2
40°	9860.1	9913.3	9976.5	10046.3	9989.9	9939.9	9973.1	9999.8	9973.1	9800.2	9800.2
42.5°	10575.1	10651.6	10718.1	10817.8	10771.3	10708.2	10754.7	10784.6	10728.1	10541.8	10555.1
45°	11369.9	11443.1	11529.5	11679.2	11645.9	11579.4	11645.9	11652.6	11556.2	11336.7	11360.0
47.5°	12191.3	12267.8	12397.5	12597.0	12583.7	12510.5	12597.0	12550.5	12427.4	12164.7	12148.1
50°	12969.5	13075.9	13275.4	13554.8	13581.4	13491.6	13608.0	13518.2	13312.0	12982.8	12976.1
52.5°	13701.1	13814.1	14130.0	14509.2	14605.6	14489.2	14645.5	14489.2	14180.0	13757.7	13717.7
55°	14469.3	14595.7	14971.5	15466.9	15659.8	15573.3	15719.7	15483.5	15044.6	14532.4	14462.6
57.5°	15373.8	15450.3	15899.3	16487.8	16813.8	16833.7	16900.2	16501.2	15969.1	15387.1	15307.4
60°	16354.8	16461.3	16950.1	17655.1	18170.6	18336.8	18267.0	17675.1	17056.5	16388.1	16281.7
62.5°	17611.9	17728.3	18313.6	19158.3	19973.0	20385.4	20112.7	19254.7	18489.8	17688.4	17548.7
65°	18652.7	18782.5	19840.0	21346.4	22829.6	23657.6	22972.6	21393.0	20016.2	18885.5	18699.3
67.5°	17897.8	18057.5	19716.9	22483.8	26171.7	28642.6	26298.1	22823.0	20126.0	18592.9	18363.5
70°	15643.1	15792.8	17728.3	21110.3	27112.9	32526.8	27678.2	21732.2	17791.4	16075.5	15846.1
72.5°	10385.6	10867.8	12826.4	16883.6	24209.7	30099.1	24449.1	16541.0	11898.7	10362.2	10026.4
75°	3445.2	3830.9	5167.8	8752.8	16215.2	22510.3	15437.0	7745.1	4093.7	2946.4	2786.8
77.5°	868.0	1001.0	1380.1	2504.1	6468.2	12816.5	5822.9	2045.2	1114.1	778.2	695.1
80°	422.3	465.6	665.1	834.7	1619.5	4073.8	1519.8	784.8	525.4	405.7	372.5
82.5°	232.8	236.2	375.8	472.2	601.9	1054.2	625.1	458.9	302.6	246.1	246.1
85°	143.0	139.7	199.6	252.8	252.8	375.8	299.3	252.8	172.9	152.9	159.6
87.5°	56.6	56.6	73.2	79.8	69.8	96.5	76.5	83.1	66.5	63.1	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)