

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: P971588

Luminaire Tested: **NAV-SB6D-835-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971588
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-SB6D-835-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61476.4 lumens
Efficiency: N/A
Efficacy: 139.7 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): 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

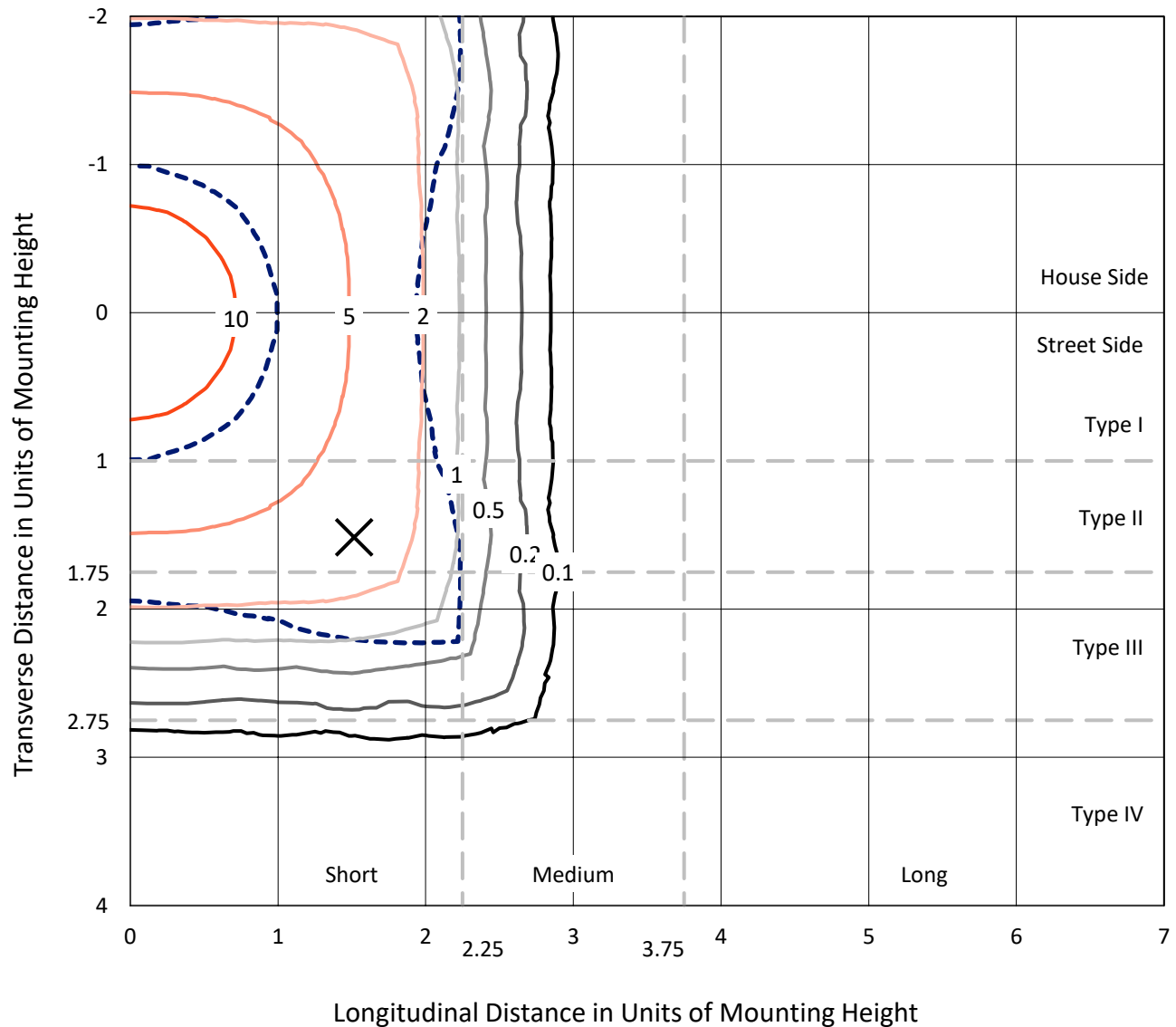


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Iso-Footcandle Lines of Horizontal Illumination

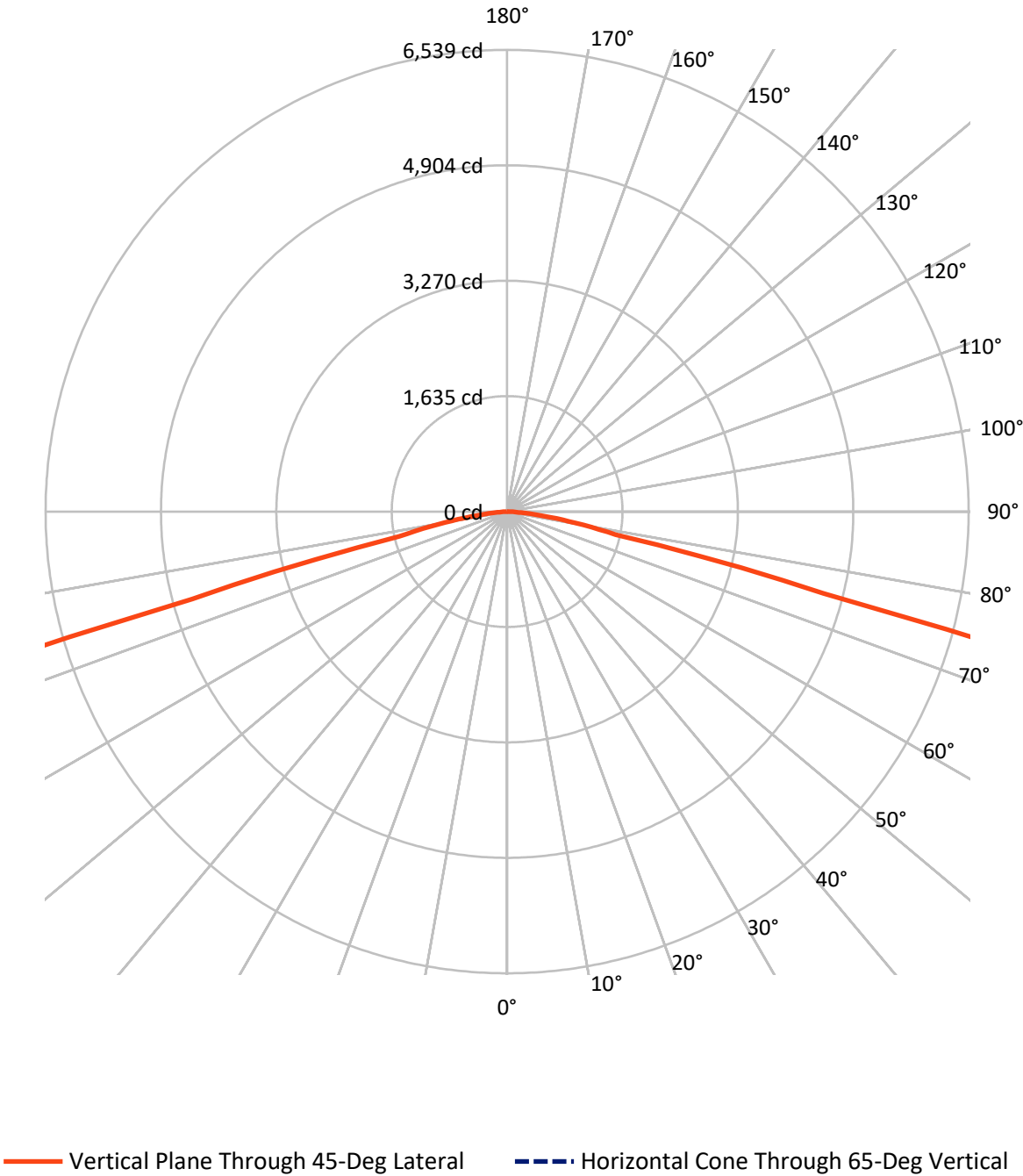
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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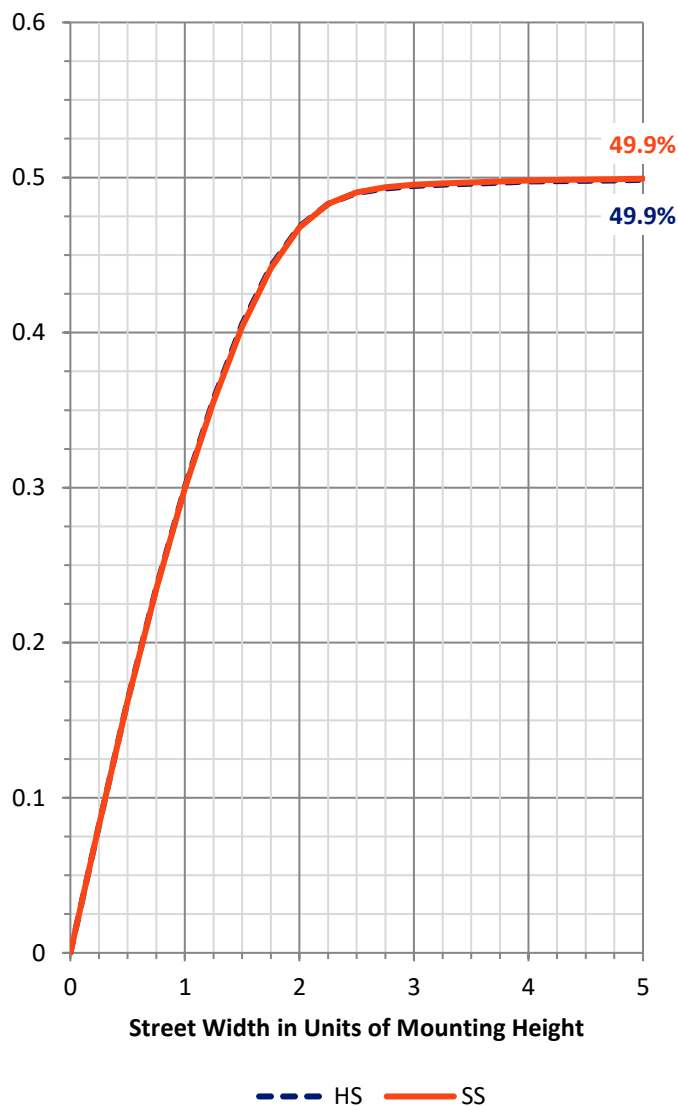
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	30738.2	0.0	30738.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30738.2	0.0	30738.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	61476.4	0.0	61476.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	722.0	1.2
10°-20°	2356.1	3.8
20°-30°	4448.6	7.2
30°-40°	7284.4	11.8
40°-50°	11294.6	18.4
50°-60°	16684.4	27.1
60°-70°	15882.0	25.8
70°-80°	2562.8	4.2
80°-90°	241.6	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°	61476.4	100.0
0°-180°	61476.4	100.0

Coefficient of Utilization



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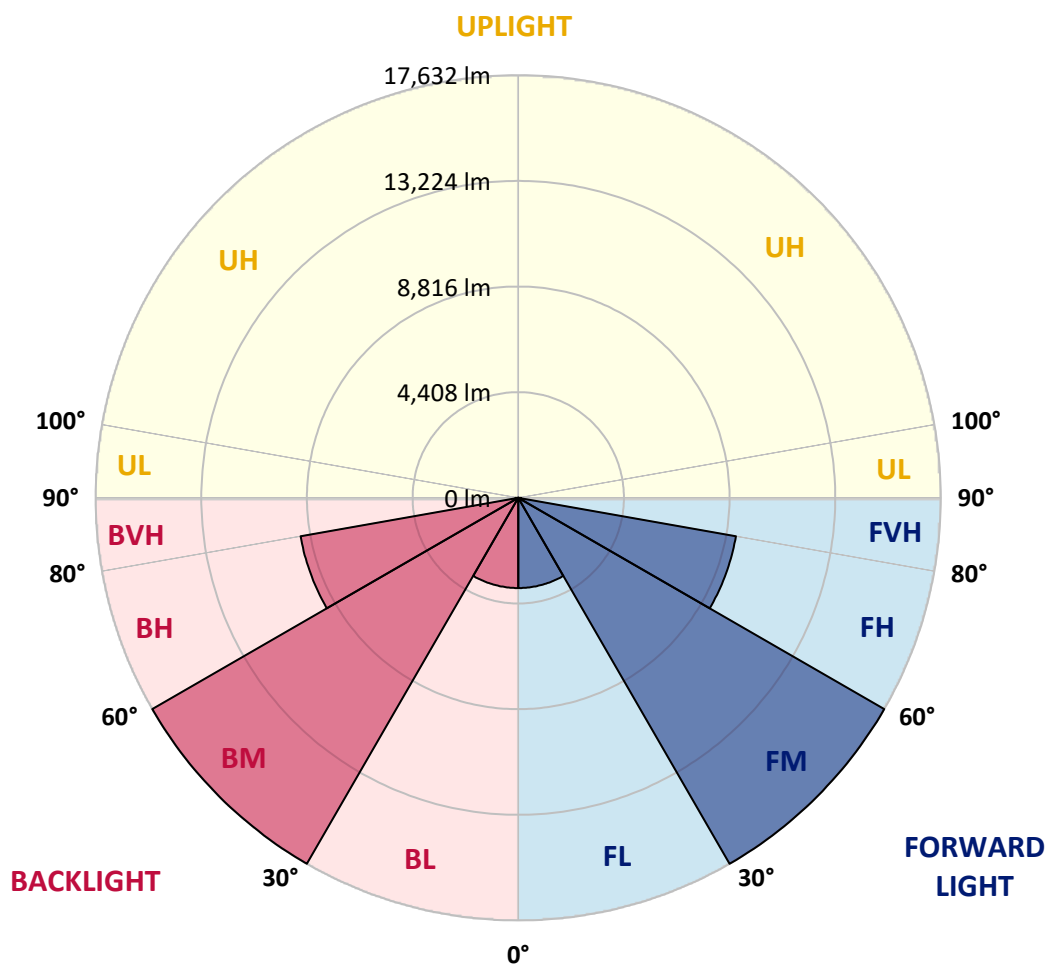
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3763.4	6.1			
FM	(30°-60°)	17631.7	28.7			
FH	(60°-80°)	9222.4	15.0			G4/12000
FVH	(80°-90°)	120.8	0.2			G2/225
BL	(0°-30°)	3763.4	6.1	B4/5000		
BM	(30°-60°)	17631.7	28.7	B5		
BH	(60°-80°)	9222.4	15.0	B5		G4/12000
BVH	(80°-90°)	120.8	0.2			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°	7316.3	7316.3	7316.3	7316.3	7316.3	7316.3	7316.3	7316.3	7316.3	7316.3	7316.3
2.5°	7365.6	7340.9	7359.5	7344.0	7331.7	7319.4	7325.6	7347.2	7356.4	7359.5	7359.5
5°	7464.4	7442.7	7452.1	7452.1	7430.4	7424.3	7427.4	7442.7	7461.3	7461.3	7461.3
7.5°	7624.8	7603.1	7624.8	7612.4	7593.9	7587.8	7584.7	7597.0	7624.8	7624.8	7615.5
10°	7819.1	7794.4	7806.7	7800.6	7778.9	7769.7	7766.6	7785.2	7809.8	7806.7	7800.6
12.5°	8031.9	8004.1	8019.6	8001.0	7994.9	7985.7	7985.7	7982.6	7998.0	7985.7	7991.8
15°	8269.4	8250.9	8257.1	8244.7	8254.0	8247.8	8223.2	8210.8	8217.0	8198.5	8201.5
17.5°	8550.0	8506.9	8528.5	8522.4	8522.4	8534.7	8494.6	8479.1	8491.5	8473.0	8488.4
20°	8873.9	8830.8	8840.0	8827.7	8812.2	8824.6	8775.2	8787.6	8796.9	8784.6	8812.2
22.5°	9228.7	9173.1	9170.1	9176.2	9142.3	9145.4	9111.4	9142.3	9160.8	9126.9	9160.8
25°	9592.7	9534.0	9574.1	9558.7	9515.5	9524.8	9500.1	9531.0	9546.3	9503.2	9552.5
27.5°	9978.2	9938.1	9975.1	9984.3	9931.9	9968.9	9931.9	9959.7	9975.1	9910.3	9959.7
30°	10428.6	10388.4	10422.3	10447.0	10385.3	10443.9	10413.1	10431.6	10434.7	10357.6	10403.9
32.5°	10918.9	10857.2	10943.6	10955.9	10888.1	10959.0	10918.9	10943.6	10959.0	10854.1	10925.1
35°	11517.3	11440.2	11538.9	11523.5	11464.9	11523.5	11486.5	11523.5	11560.5	11434.1	11511.2
37.5°	12161.9	12081.8	12186.6	12158.9	12103.4	12143.5	12121.9	12146.6	12205.2	12069.5	12152.7
40°	12871.4	12772.7	12914.6	12865.2	12812.8	12806.7	12819.0	12834.4	12911.5	12760.3	12809.7
42.5°	13630.1	13525.3	13738.2	13661.0	13587.0	13537.7	13577.8	13608.6	13682.6	13513.0	13602.4
45°	14496.9	14376.6	14654.2	14561.7	14444.5	14342.7	14407.5	14453.7	14561.7	14358.1	14463.0
47.5°	15453.1	15317.4	15613.5	15585.7	15394.5	15172.4	15320.5	15453.1	15533.3	15286.5	15369.8
50°	16387.7	16282.8	16671.4	16705.3	16470.9	16159.4	16366.1	16566.6	16588.2	16264.3	16304.4
52.5°	17263.7	17158.8	17723.3	17936.1	17726.4	17356.2	17575.2	17778.7	17615.2	17195.8	17208.1
55°	17963.8	17877.4	18596.2	19145.2	19216.1	18910.7	19040.3	19034.1	18497.5	17852.7	17874.4
57.5°	18133.5	18121.2	19028.0	20190.8	20931.0	20968.1	20712.1	20058.1	18901.5	18034.8	17979.2
60°	17362.4	17439.5	18685.5	20736.8	22710.8	23531.2	22423.9	20557.8	18441.9	17239.0	17097.1
62.5°	15055.2	15258.8	16760.9	20070.5	24148.2	26480.0	23796.5	19799.1	16554.3	14984.3	14891.7
65°	10789.4	11144.1	12803.6	17128.0	24018.6	29070.9	23599.1	16989.2	12926.9	11116.3	10983.7
67.5°	4895.0	5255.9	6665.5	11727.0	20878.6	28367.7	20829.2	11850.4	6998.6	5274.4	5197.3
70°	1773.6	1835.3	2288.6	4694.5	13343.3	22602.8	13914.0	4728.4	2433.7	1955.5	1930.9
72.5°	1073.4	1082.6	1178.2	1681.0	4636.0	13722.7	4833.3	1736.6	1202.9	1067.2	1085.7
75°	681.6	675.5	839.0	1027.2	1644.0	4629.7	1724.3	1027.2	835.9	761.9	768.0
77.5°	490.5	505.8	601.5	768.0	1036.4	1570.0	1017.8	734.1	601.5	493.5	502.8
80°	367.1	376.3	438.0	598.4	728.0	977.7	647.7	542.8	453.5	308.4	317.6
82.5°	265.3	265.3	286.9	434.9	444.1	527.5	351.7	382.4	299.2	219.0	219.0
85°	157.3	154.3	178.9	259.1	231.3	194.3	160.4	234.4	188.2	135.7	132.6
87.5°	55.6	58.6	55.6	74.0	61.7	52.5	49.3	64.8	52.5	46.2	43.2
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)