

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: P965268

Luminaire Tested: **NAV-SB3D-835-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965268
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3D-835-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29891 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

Input Watts (W): 218.1
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



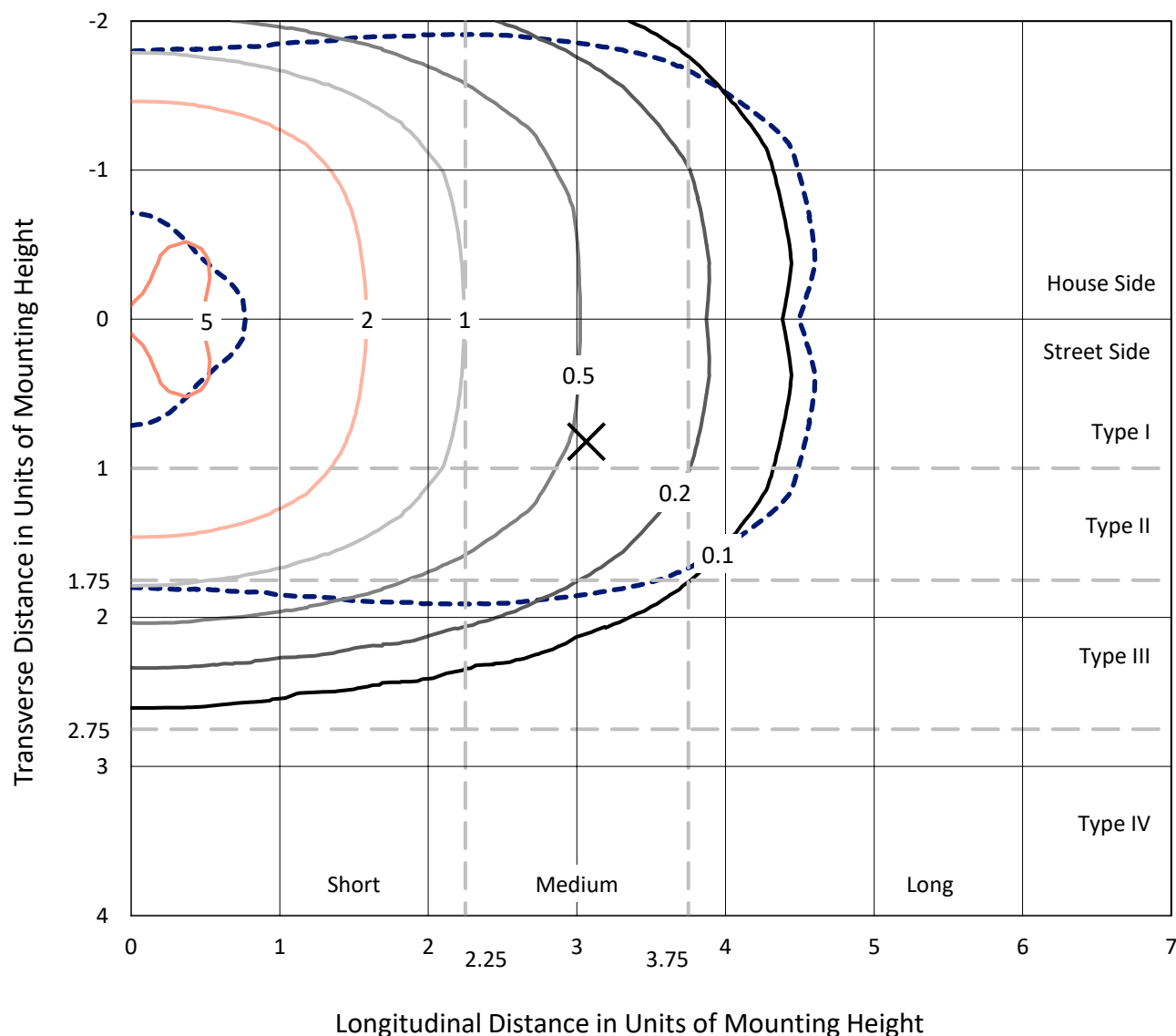
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

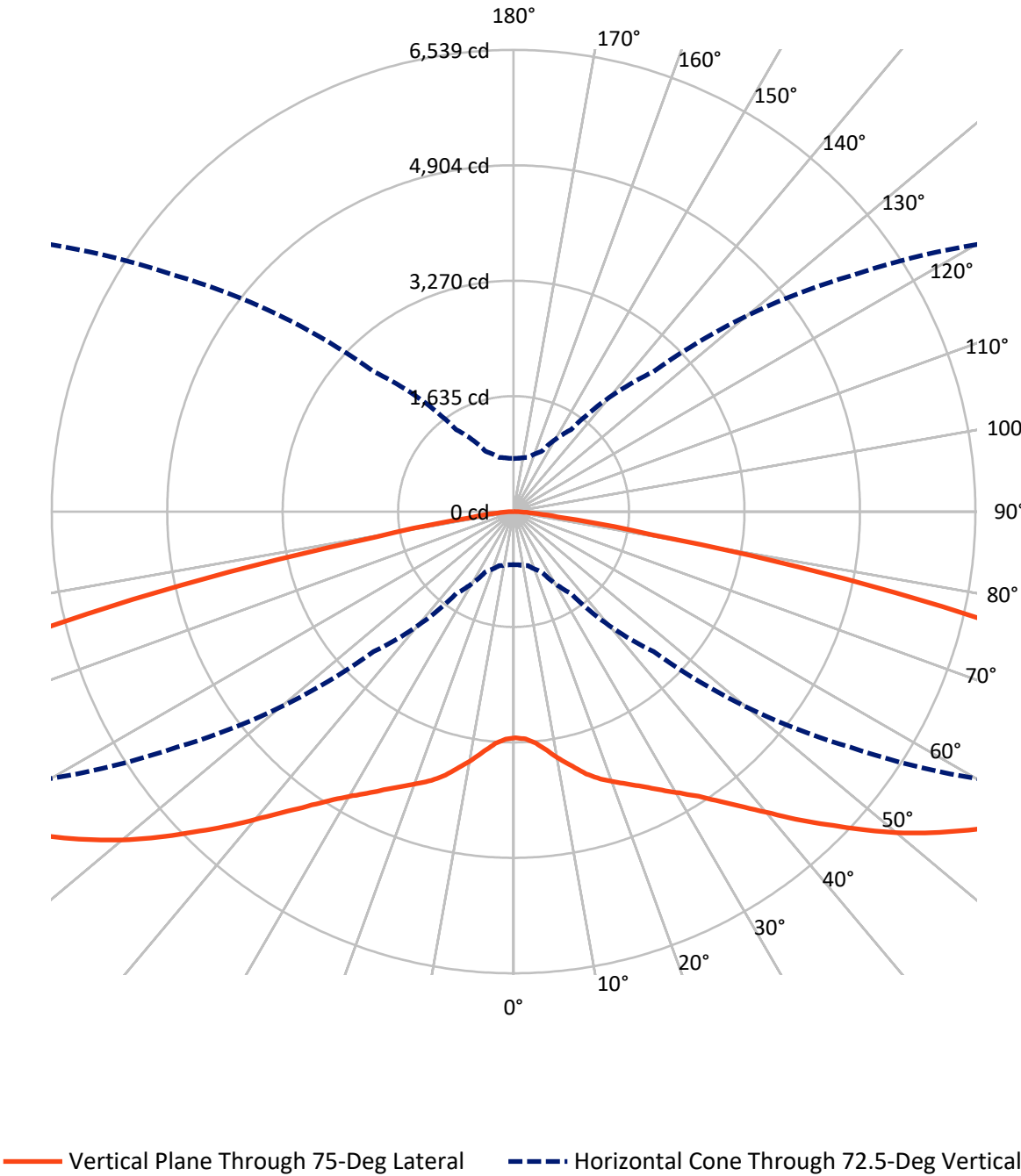


Based on 25 foot mounting height. Maximum calculated value = 5.6 fc

Type III - Medium - N/A

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Luminous Intensity Polar Plot



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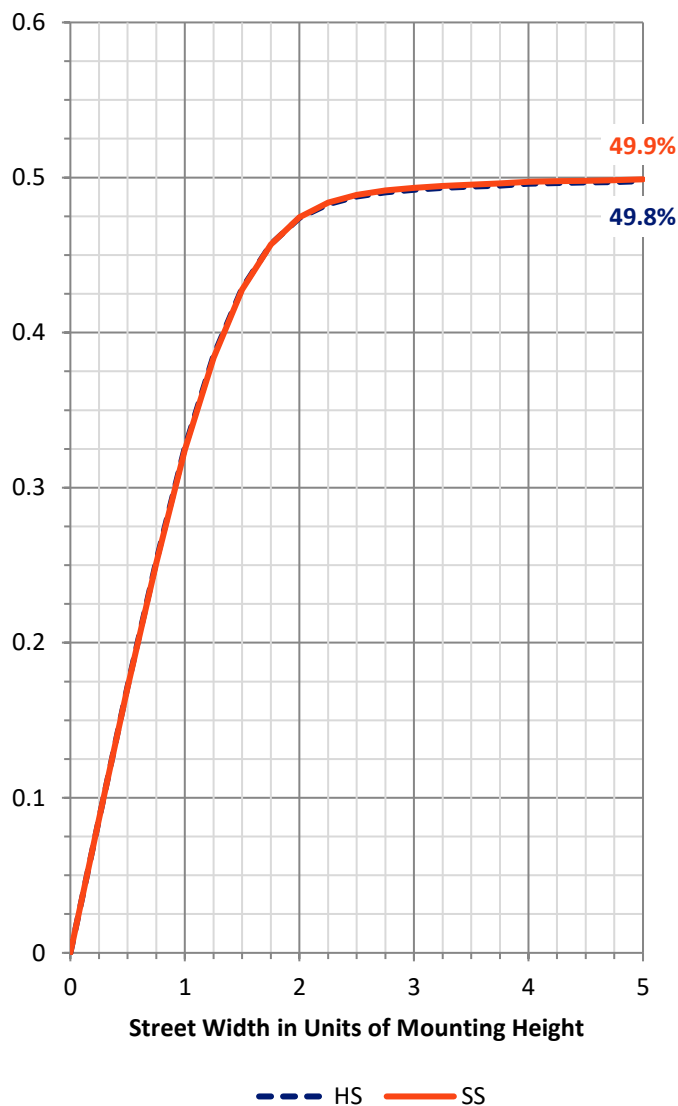
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14945.5	0.0	14945.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14945.5	0.0	14945.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29891.0	0.0	29891.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.7	1.0
10°-20°	1034.5	3.5
20°-30°	1998.9	6.7
30°-40°	3375.3	11.3
40°-50°	5352.8	17.9
50°-60°	7166.8	24.0
60°-70°	6820.5	22.8
70°-80°	3559.1	11.9
80°-90°	269.4	0.9
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°	29891.0	100.0
0°-180°	29891.0	100.0

Coefficient of Utilization



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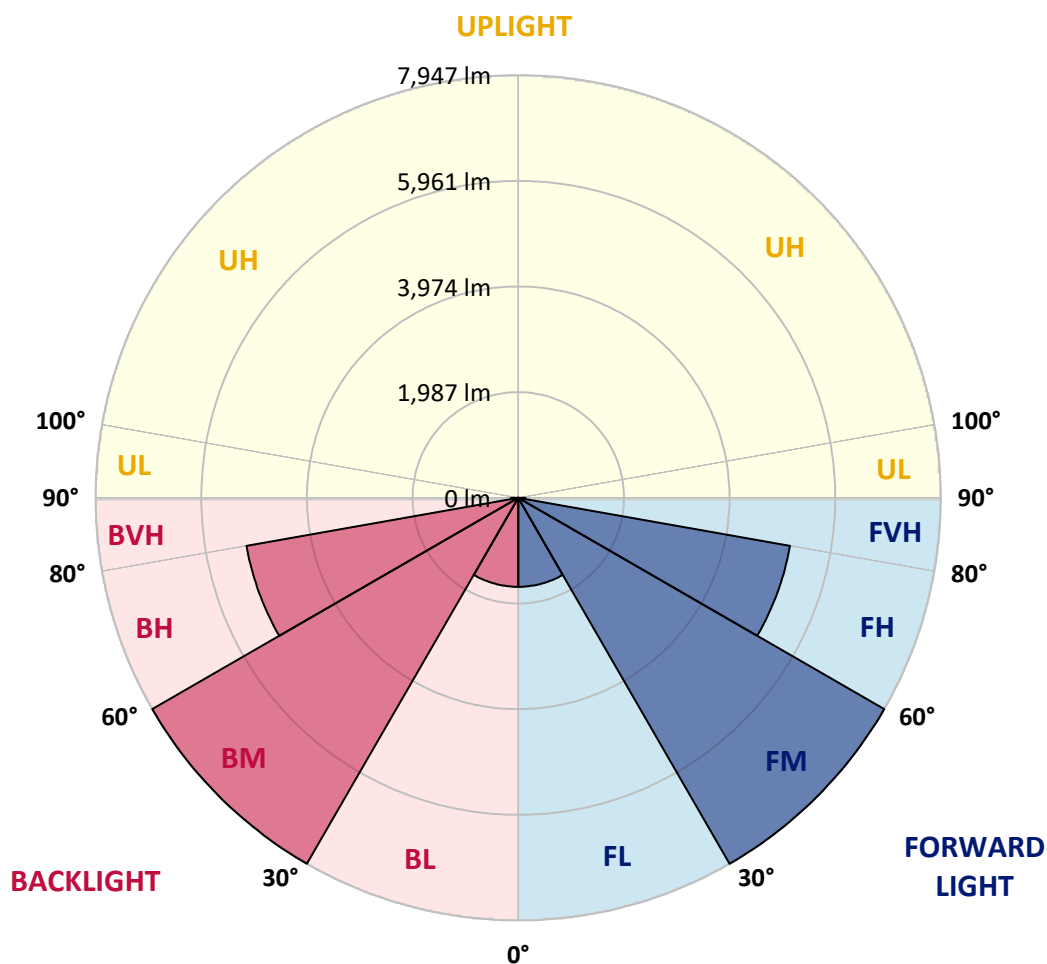
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1673.5	5.6			
FM	(30°-60°)	7947.5	26.6			
FH	(60°-80°)	5189.8	17.4			G3/7500
FVH	(80°-90°)	134.7	0.5			G2/225
BL	(0°-30°)	1673.5	5.6	B3/2500		
BM	(30°-60°)	7947.5	26.6	B4/8500		
BH	(60°-80°)	5189.8	17.4	B5		G5
BVH	(80°-90°)	134.7	0.5			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3201.9	3201.9	3201.9	3201.9	3201.9	3201.9	3201.9	3201.9	3201.9	3201.9	3201.9
2.5°	3201.9	3198.8	3201.9	3205.0	3203.4	3203.4	3211.0	3215.6	3224.8	3223.2	3221.7
5°	3180.5	3178.9	3191.1	3205.0	3215.6	3233.9	3256.8	3273.6	3295.0	3299.6	3299.6
7.5°	3169.8	3165.2	3186.6	3211.0	3244.6	3290.4	3334.6	3380.4	3417.0	3429.2	3432.3
10°	3177.4	3178.9	3207.9	3253.8	3307.2	3371.2	3433.9	3511.6	3563.5	3575.8	3588.0
12.5°	3212.6	3209.5	3258.4	3331.6	3404.8	3485.7	3559.0	3644.5	3701.0	3729.9	3742.2
15°	3276.6	3270.6	3339.2	3447.6	3554.4	3649.0	3708.6	3789.4	3855.0	3891.7	3905.5
17.5°	3353.0	3356.1	3446.0	3586.5	3726.9	3833.7	3890.2	3931.4	3981.7	4013.8	4029.1
20°	3487.3	3493.4	3594.1	3760.4	3920.7	4042.8	4088.5	4073.3	4087.1	4111.5	4129.7
22.5°	3667.3	3670.4	3783.4	3963.4	4131.3	4265.6	4296.1	4233.6	4195.4	4212.1	4224.4
25°	3876.4	3896.2	4009.2	4193.9	4366.3	4494.5	4508.3	4413.6	4319.0	4323.6	4331.2
27.5°	4131.3	4149.6	4264.1	4447.2	4622.8	4734.2	4732.6	4605.9	4467.1	4431.9	4442.7
30°	4407.5	4427.4	4544.8	4734.2	4897.4	4995.1	4973.7	4822.6	4624.3	4558.6	4566.3
32.5°	4735.6	4747.9	4866.9	5056.1	5207.2	5285.1	5240.8	5054.6	4807.4	4732.6	4750.9
35°	5132.5	5150.7	5239.3	5417.8	5550.6	5614.7	5539.9	5320.2	5042.4	4958.4	4970.6
37.5°	5585.7	5573.5	5674.2	5833.0	5942.8	5982.5	5880.2	5619.3	5311.0	5211.8	5230.2
40°	6058.8	6052.7	6162.6	6315.2	6374.8	6399.2	6248.1	5962.6	5620.8	5514.0	5549.0
42.5°	6487.6	6483.1	6631.1	6800.6	6872.2	6844.7	6654.0	6327.4	5979.4	5857.4	5887.9
45°	6831.0	6825.0	7006.6	7244.6	7385.0	7339.3	7082.9	6730.4	6342.7	6216.0	6245.0
47.5°	7095.0	7098.1	7293.5	7588.1	7833.8	7850.5	7520.8	7140.9	6742.6	6599.1	6641.8
50°	7285.8	7295.0	7504.1	7830.7	8166.5	8314.5	7968.0	7562.0	7156.1	6994.4	7043.2
52.5°	7333.2	7350.0	7601.8	7984.9	8380.1	8662.5	8422.8	7966.5	7548.3	7394.2	7433.9
55°	7081.3	7114.9	7433.9	7972.7	8511.4	8891.4	8822.7	8377.0	7943.6	7784.9	7829.2
57.5°	6502.9	6550.3	6922.6	7626.2	8482.4	9048.6	9132.4	8770.8	8338.9	8186.3	8221.4
60°	5692.5	5749.0	6106.1	6873.8	8073.3	9106.5	9350.8	9153.9	8702.1	8554.0	8586.1
62.5°	4470.1	4543.3	4970.6	5871.1	7209.5	8836.4	9536.9	9500.3	9028.7	8844.0	8865.4
65°	2867.6	2945.4	3395.7	4459.4	6057.3	8009.2	9594.9	9837.5	9373.6	9115.7	9147.7
67.5°	1729.2	1764.2	1987.1	2702.8	4427.4	6762.3	9103.5	10211.5	9776.6	9456.0	9480.4
70°	1106.5	1126.3	1259.1	1587.2	2502.8	4934.0	7885.6	10281.7	10264.9	9805.6	9802.5
72.5°	750.9	757.0	792.1	940.1	1416.2	2803.6	5816.2	9308.0	10570.1	10255.7	10206.9
75°	549.4	583.0	639.5	665.4	804.3	1401.0	3333.1	6539.6	8908.2	9045.5	8712.8
77.5°	409.0	410.5	488.4	518.9	573.8	746.3	1410.2	3650.5	5530.8	5807.0	5179.7
80°	346.4	328.1	326.6	418.2	431.9	465.5	630.3	1260.6	1980.9	1201.1	908.0
82.5°	288.4	268.7	242.6	326.6	294.6	285.4	273.2	512.8	630.3	309.9	264.0
85°	201.4	192.3	183.2	213.7	167.9	143.5	131.2	239.6	265.6	131.2	116.0
87.5°	87.0	90.0	91.5	94.6	70.2	50.3	50.3	67.1	67.1	51.9	38.1
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)