

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: P970011

Luminaire Tested: **NAV-SB6A-835-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970011
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-SB6A-835-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26630.5 lumens
Efficiency: N/A
Efficacy: 155.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 170.9
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



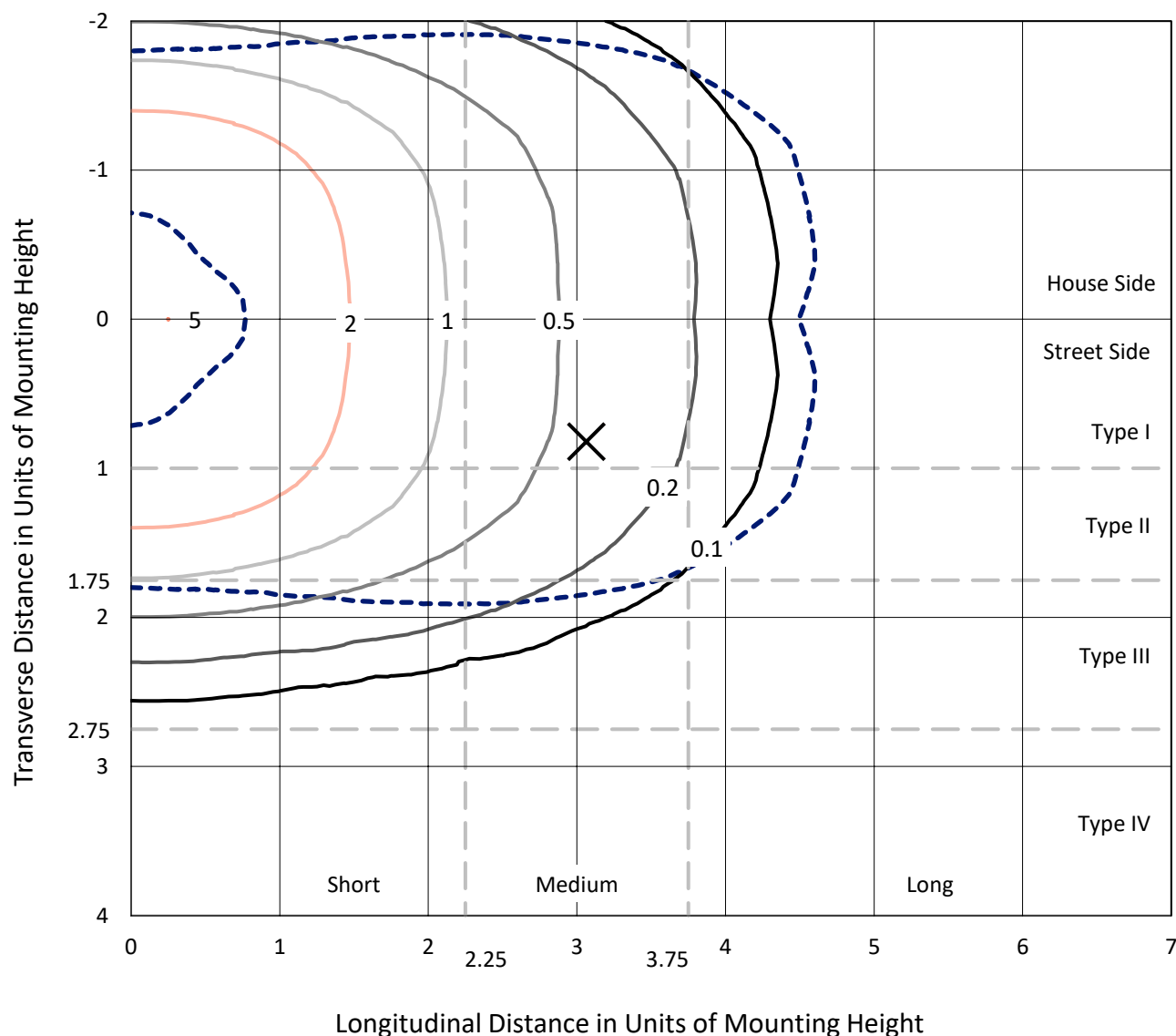
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

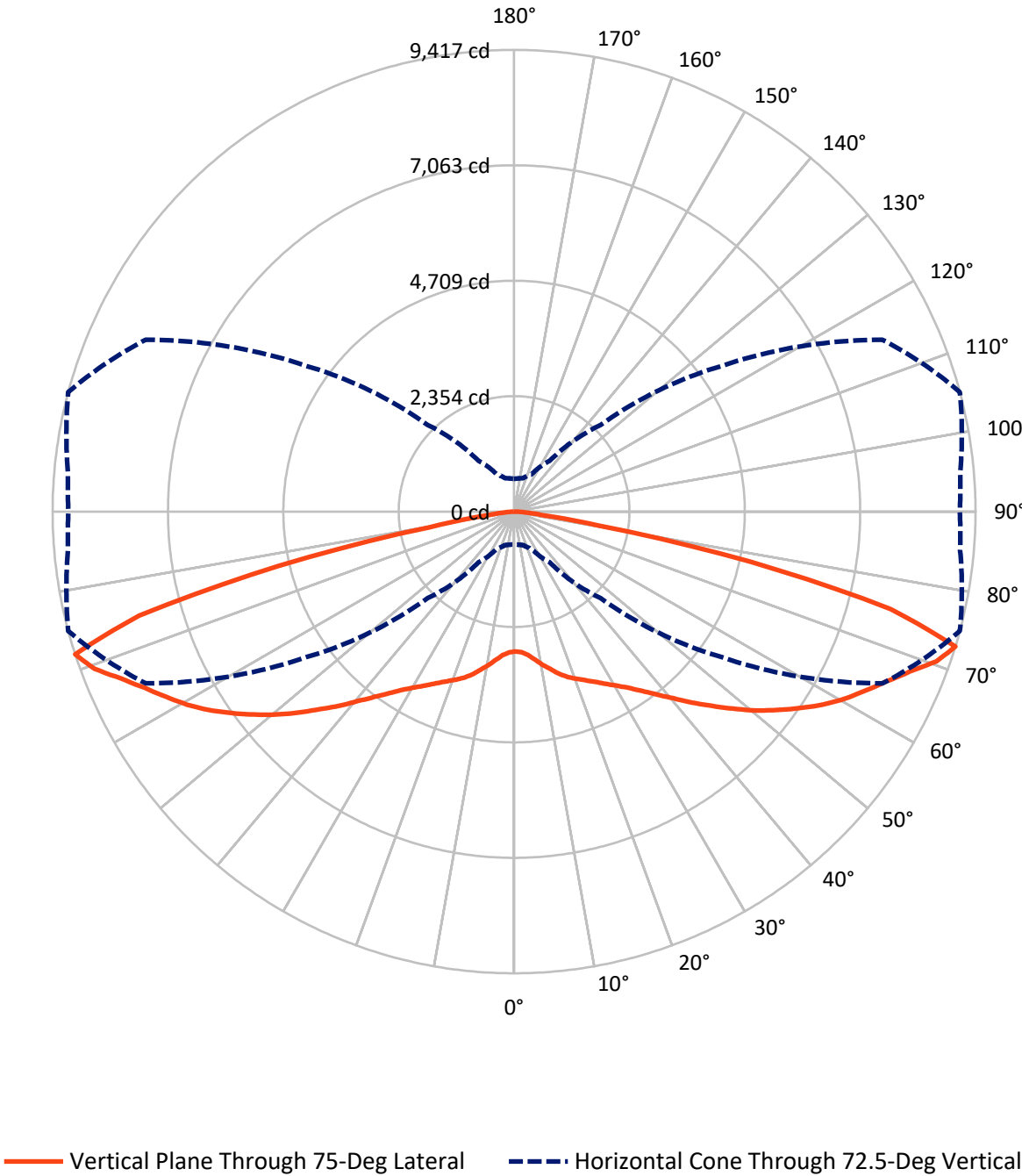
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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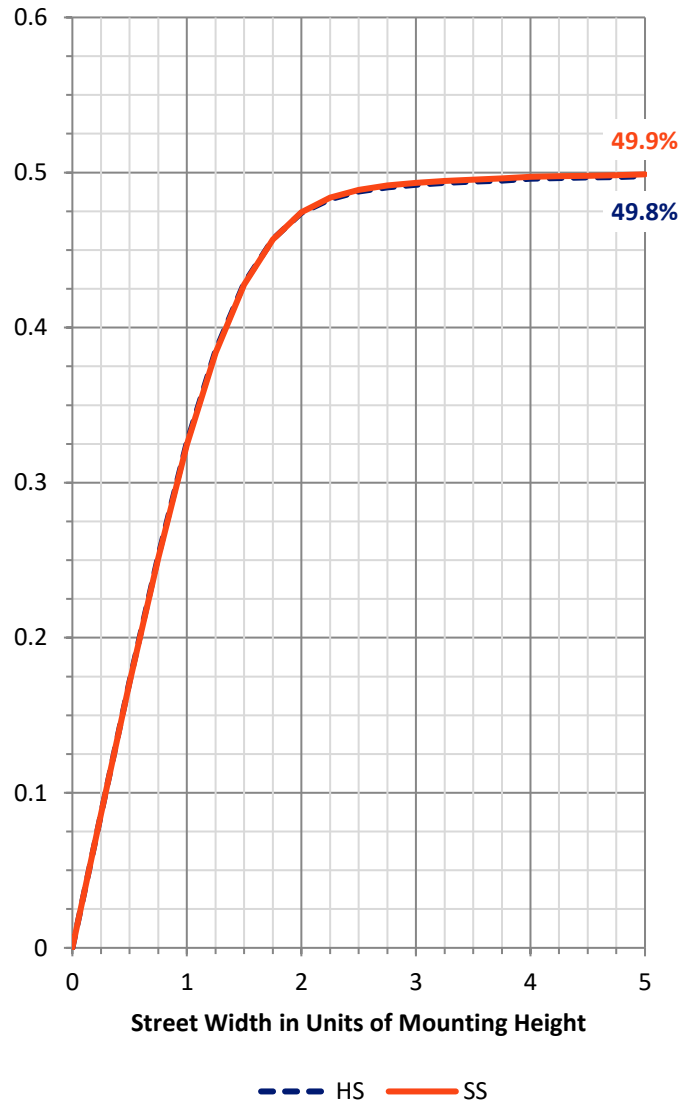
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13315.3	0.0	13315.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13315.3	0.0	13315.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	26630.5	0.0	26630.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.4	1.0
10°-20°	921.6	3.5
20°-30°	1780.9	6.7
30°-40°	3007.1	11.3
40°-50°	4769.0	17.9
50°-60°	6385.1	24.0
60°-70°	6076.6	22.8
70°-80°	3170.9	11.9
80°-90°	240.0	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°	26630.5	100.0
0°-180°	26630.5	100.0

Coefficient of Utilization



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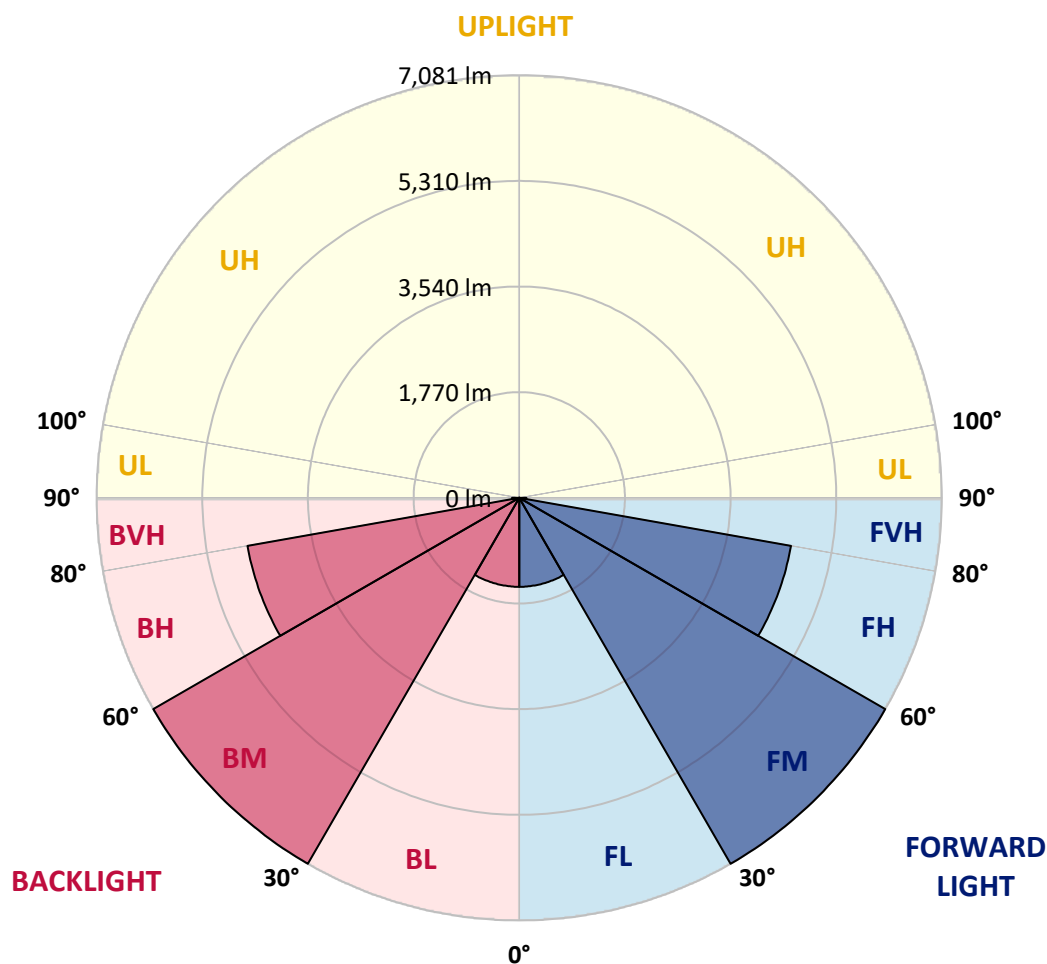
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1491.0	5.6			
FM	(30°-60°)	7080.6	26.6			
FH	(60°-80°)	4623.7	17.4			G2/5000
FVH	(80°-90°)	120.0	0.5			G2/225
BL	(0°-30°)	1491.0	5.6	B3/2500		
BM	(30°-60°)	7080.6	26.6	B4/8500		
BH	(60°-80°)	4623.7	17.4	B4/5000		G4/5000
BVH	(80°-90°)	120.0	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2852.6	2852.6	2852.6	2852.6	2852.6	2852.6	2852.6	2852.6	2852.6	2852.6	2852.6
2.5°	2852.6	2849.9	2852.6	2855.3	2854.0	2854.0	2860.8	2864.9	2873.0	2871.6	2870.3
5°	2833.6	2832.2	2843.0	2855.3	2864.9	2881.2	2901.6	2916.5	2935.5	2939.6	2939.6
7.5°	2824.1	2820.0	2839.0	2860.8	2890.7	2931.5	2970.9	3011.7	3044.4	3055.2	3057.9
10°	2830.8	2832.2	2858.0	2898.8	2946.5	3003.6	3059.3	3128.6	3174.8	3185.7	3196.6
12.5°	2862.1	2859.4	2902.9	2968.2	3033.5	3105.5	3170.7	3246.9	3297.2	3323.0	3333.9
15°	2919.2	2913.8	2975.0	3071.5	3166.7	3251.0	3304.0	3376.0	3434.6	3467.2	3479.5
17.5°	2987.3	2989.9	3070.2	3195.2	3320.4	3415.5	3465.8	3502.5	3547.4	3575.9	3589.6
20°	3106.9	3112.3	3202.0	3350.2	3493.0	3601.7	3642.5	3629.0	3641.2	3662.9	3679.3
22.5°	3267.3	3270.1	3370.6	3531.1	3680.7	3800.3	3827.5	3771.8	3737.8	3752.7	3763.6
25°	3453.6	3471.3	3571.9	3736.4	3890.1	4004.3	4016.5	3932.2	3847.8	3852.0	3858.8
27.5°	3680.7	3697.0	3799.0	3962.1	4118.4	4217.8	4216.3	4103.5	3979.8	3948.5	3958.0
30°	3926.8	3944.4	4049.2	4217.8	4363.2	4450.2	4431.2	4296.6	4119.8	4061.4	4068.1
32.5°	4219.1	4230.0	4336.1	4504.6	4639.3	4708.5	4669.2	4503.2	4283.0	4216.3	4232.6
35°	4572.6	4588.9	4667.7	4826.8	4945.1	5002.3	4935.7	4739.8	4492.4	4417.5	4428.5
37.5°	4976.4	4965.5	5055.3	5196.6	5294.6	5329.9	5238.9	5006.3	4731.7	4643.4	4659.6
40°	5398.0	5392.5	5490.4	5626.3	5679.4	5701.2	5566.6	5312.3	5007.7	4912.5	4943.8
42.5°	5780.0	5775.9	5907.8	6058.8	6122.6	6098.1	5928.2	5637.2	5327.2	5218.5	5245.6
45°	6085.9	6080.5	6242.2	6454.4	6579.5	6538.7	6310.3	5996.1	5650.8	5538.0	5563.8
47.5°	6321.2	6323.8	6497.9	6760.3	6979.2	6994.2	6700.5	6362.0	6007.0	5879.3	5917.3
50°	6491.1	6499.2	6685.6	6976.6	7275.7	7407.6	7098.8	6737.2	6375.5	6231.4	6274.9
52.5°	6533.2	6548.2	6772.6	7113.8	7466.0	7717.5	7504.0	7097.5	6724.9	6587.7	6623.0
55°	6308.9	6338.8	6623.0	7102.9	7582.9	7921.5	7860.3	7463.2	7077.1	6935.8	6975.1
57.5°	5793.6	5835.7	6167.5	6794.3	7557.1	8061.5	8136.3	7814.1	7429.3	7293.3	7324.5
60°	5071.6	5121.9	5440.1	6124.0	7192.7	8113.2	8330.8	8155.3	7752.9	7621.0	7649.6
62.5°	3982.5	4047.7	4428.5	5230.7	6423.2	7872.5	8496.6	8464.0	8043.9	7879.4	7898.3
65°	2554.8	2624.2	3025.3	3973.0	5396.5	7135.6	8548.3	8764.5	8351.2	8121.4	8149.9
67.5°	1540.5	1571.8	1770.3	2408.0	3944.4	6024.7	8110.5	9097.6	8710.1	8424.6	8446.3
70°	985.7	1003.5	1121.8	1414.1	2229.9	4395.8	7025.5	9160.1	9145.2	8736.0	8733.2
72.5°	668.9	674.4	705.7	837.5	1261.8	2497.7	5181.8	8292.7	9417.1	9137.1	9093.5
75°	489.4	519.4	569.7	592.9	716.6	1248.1	2969.5	5826.2	7936.5	8058.9	7762.4
77.5°	364.4	365.7	435.1	462.3	511.3	664.9	1256.3	3252.3	4927.5	5173.6	4614.8
80°	308.6	292.3	291.0	372.6	384.8	414.7	561.6	1123.1	1764.8	1070.1	809.0
82.5°	257.0	239.3	216.2	291.0	262.4	254.3	243.3	456.8	561.6	276.0	235.2
85°	179.5	171.3	163.2	190.3	149.5	127.8	117.0	213.5	236.6	117.0	103.3
87.5°	77.5	80.3	81.6	84.3	62.5	44.9	44.9	59.9	59.9	46.2	34.0
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)