

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: P967867

Luminaire Tested: **NAV-SB5A-830-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967867
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-SB5A-830-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21856.1 lumens
Efficiency: N/A
Efficacy: 154.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 141.7
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

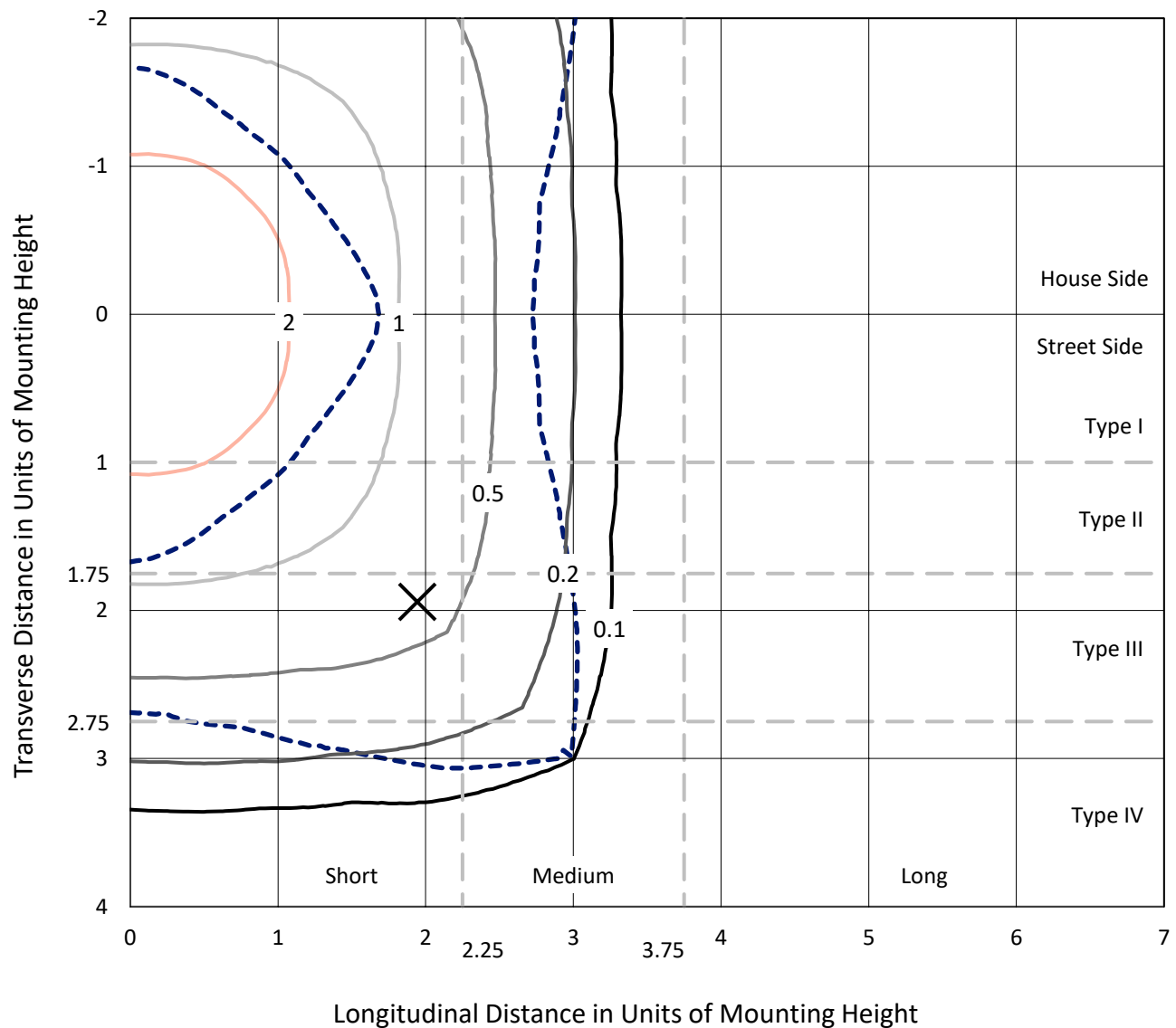


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Iso-Footcandle Lines of Horizontal Illumination

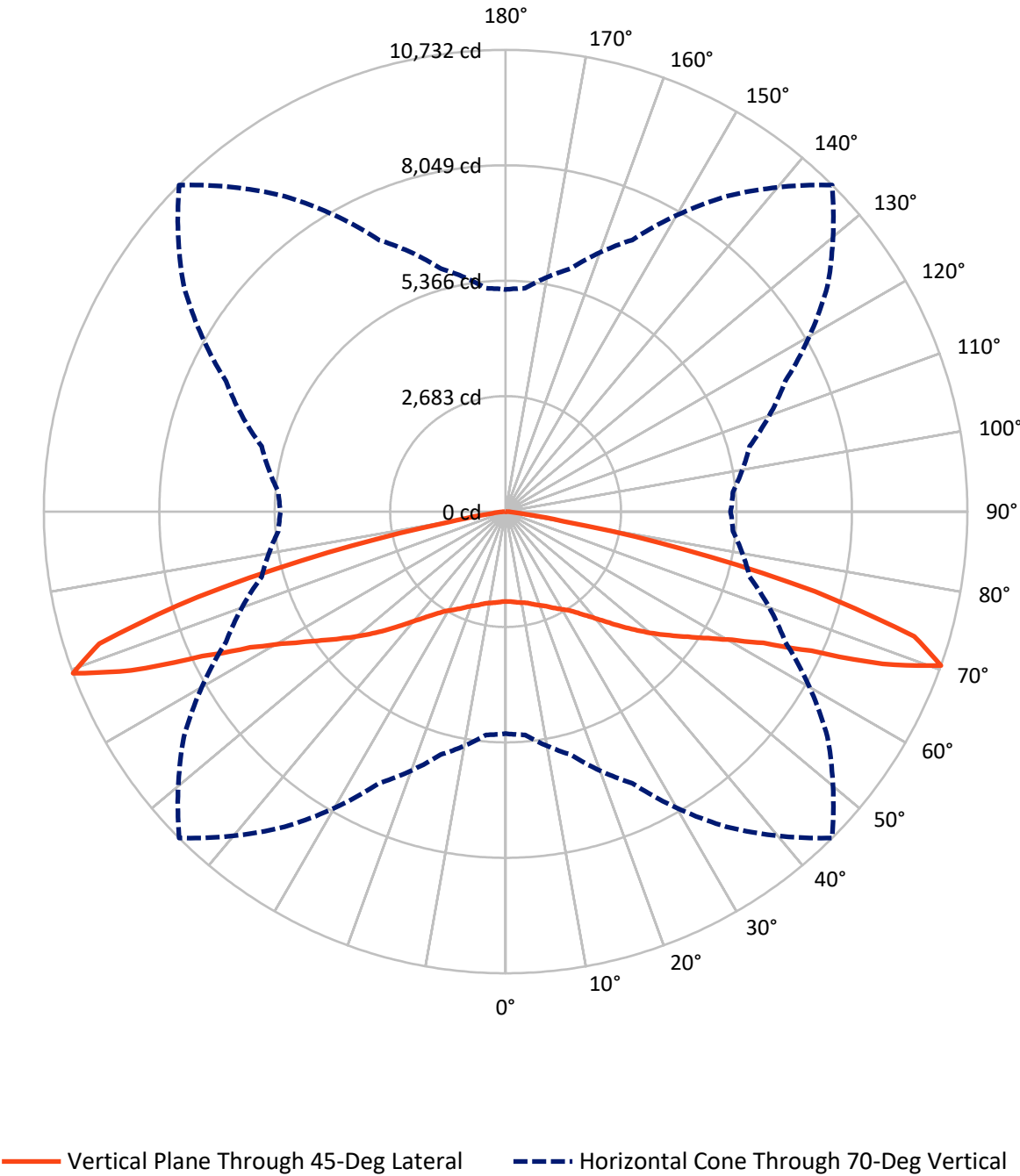
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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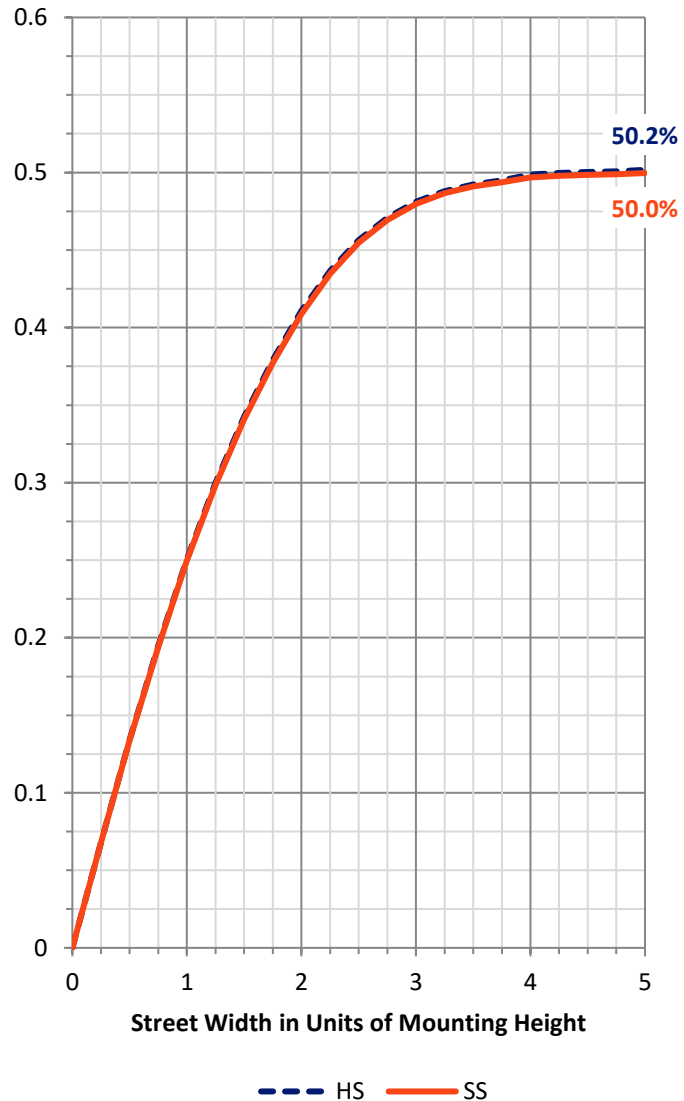
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10928.0	0.0	10928.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10928.0	0.0	10928.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21856.1	0.0	21856.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.4	0.9
10°-20°	630.7	2.9
20°-30°	1127.1	5.2
30°-40°	1827.1	8.4
40°-50°	2976.0	13.6
50°-60°	4537.4	20.8
60°-70°	6750.2	30.9
70°-80°	3679.1	16.8
80°-90°	125.3	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°	21856.1	100.0
0°-180°	21856.1	100.0

Coefficient of Utilization



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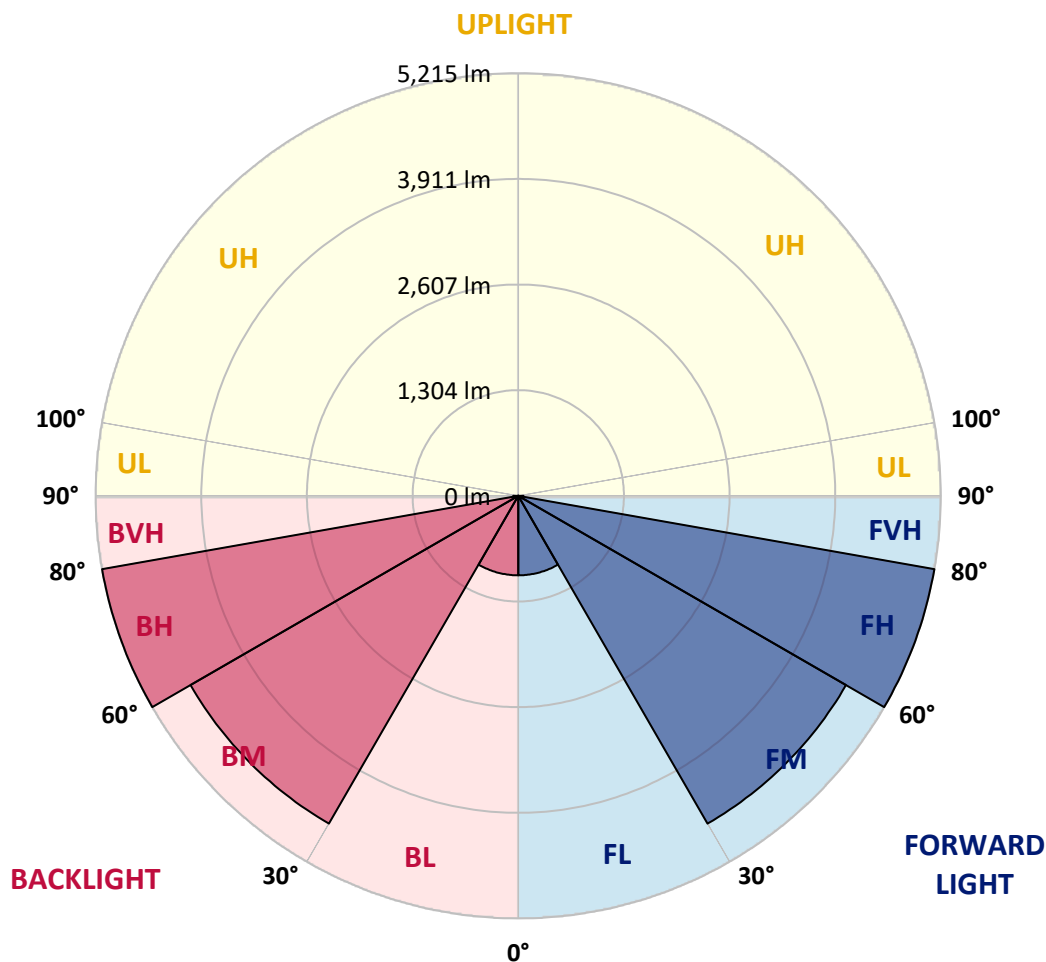
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	980.6	4.5			
FM	(30°-60°)	4670.2	21.4			
FH	(60°-80°)	5214.6	23.9			G3/7500
FVH	(80°-90°)	62.6	0.3			G1/100
BL	(0°-30°)	980.6	4.5	B2/1000		
BM	(30°-60°)	4670.2	21.4	B3/5000		
BH	(60°-80°)	5214.6	23.9	B5		G3/7500
BVH	(80°-90°)	62.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2093.6	2093.6	2093.6	2093.6	2093.6	2093.6	2093.6	2093.6	2093.6	2093.6	2093.6
2.5°	2103.5	2105.7	2101.2	2099.1	2096.8	2093.6	2094.7	2100.1	2104.5	2103.5	2104.5
5°	2121.0	2123.2	2119.9	2118.8	2114.5	2113.3	2113.3	2118.8	2122.2	2119.9	2121.0
7.5°	2140.8	2144.1	2138.6	2137.4	2135.3	2133.1	2132.0	2137.4	2140.8	2140.8	2140.8
10°	2159.5	2162.8	2158.3	2155.1	2152.8	2152.8	2150.7	2155.1	2160.5	2159.5	2159.5
12.5°	2179.1	2181.4	2177.0	2174.7	2174.7	2178.1	2174.7	2177.0	2181.4	2179.1	2178.1
15°	2203.3	2204.4	2203.3	2206.6	2212.1	2223.0	2213.2	2211.0	2213.2	2207.7	2207.7
17.5°	2236.2	2238.4	2242.8	2250.5	2258.2	2278.0	2260.3	2254.9	2254.9	2243.9	2243.9
20°	2276.8	2280.1	2286.7	2299.9	2309.7	2328.4	2310.9	2303.2	2299.9	2285.6	2285.6
22.5°	2319.6	2325.1	2335.0	2352.6	2370.1	2387.6	2370.1	2356.9	2347.0	2328.4	2327.3
25°	2369.0	2375.5	2390.9	2419.5	2443.6	2468.8	2448.0	2421.7	2401.9	2375.5	2374.5
27.5°	2439.2	2446.9	2465.5	2500.7	2531.4	2553.4	2533.6	2499.6	2472.1	2440.3	2439.2
30°	2538.0	2545.7	2567.6	2604.9	2625.7	2640.0	2626.9	2600.5	2567.6	2531.4	2531.4
32.5°	2665.3	2675.1	2699.2	2734.4	2738.8	2741.0	2736.5	2723.4	2699.2	2655.4	2656.5
35°	2826.5	2837.5	2865.0	2893.5	2889.1	2893.5	2886.9	2882.5	2865.0	2814.4	2814.4
37.5°	3024.1	3037.3	3065.8	3087.7	3076.7	3071.2	3072.3	3073.5	3063.5	3007.7	3007.7
40°	3253.4	3271.0	3291.8	3314.8	3296.2	3279.7	3290.7	3299.5	3290.7	3233.7	3233.7
42.5°	3489.3	3514.5	3536.5	3569.5	3554.1	3533.2	3548.6	3558.4	3539.7	3478.3	3482.7
45°	3751.6	3775.7	3804.2	3853.6	3842.6	3820.7	3842.6	3844.8	3813.0	3740.6	3748.2
47.5°	4022.6	4047.8	4090.6	4156.5	4152.1	4127.9	4156.5	4141.1	4100.5	4013.8	4008.4
50°	4279.4	4314.4	4380.3	4472.5	4481.2	4451.6	4490.0	4460.4	4392.3	4283.7	4281.5
52.5°	4520.8	4558.1	4662.3	4787.4	4819.2	4780.8	4832.4	4780.8	4678.7	4539.4	4526.2
55°	4774.2	4815.9	4939.9	5103.4	5167.0	5138.5	5186.8	5108.9	4964.1	4795.1	4772.0
57.5°	5072.6	5097.9	5246.1	5440.3	5547.8	5554.4	5576.3	5444.6	5269.1	5077.0	5050.7
60°	5396.3	5431.5	5592.8	5825.4	5995.4	6050.4	6027.3	5831.9	5627.9	5407.3	5372.2
62.5°	5811.1	5849.6	6042.7	6321.4	6590.2	6726.3	6636.3	6353.2	6100.8	5836.3	5790.3
65°	6154.6	6197.4	6546.3	7043.4	7532.7	7806.0	7579.9	7058.8	6604.5	6231.4	6169.9
67.5°	5905.5	5958.1	6505.7	7418.6	8635.5	9450.8	8677.2	7530.6	6640.7	6134.8	6059.1
70°	5161.6	5210.9	5849.6	6965.5	8946.0	10732.4	9132.5	7170.6	5870.4	5304.2	5228.5
72.5°	3426.8	3585.9	4232.1	5570.9	7988.1	9931.3	8067.1	5457.8	3926.1	3419.1	3308.3
75°	1136.7	1264.0	1705.2	2888.0	5350.3	7427.4	5093.5	2555.5	1350.7	972.2	919.5
77.5°	286.4	330.3	455.4	826.3	2134.2	4228.8	1921.4	674.9	367.6	256.8	229.3
80°	139.4	153.6	219.5	275.4	534.3	1344.2	501.4	258.9	173.3	133.9	122.9
82.5°	76.8	77.9	124.0	155.8	198.6	347.8	206.3	151.4	99.8	81.2	81.2
85°	47.2	46.1	65.8	83.4	83.4	124.0	98.7	83.4	57.1	50.4	52.7
87.5°	18.7	18.7	24.2	26.3	23.1	31.8	25.2	27.5	21.9	20.8	21.9
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)