

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: P964674

Luminaire Tested: **NAV-SB3C-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964674
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-SB3C-827-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20974.6 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 149.1
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

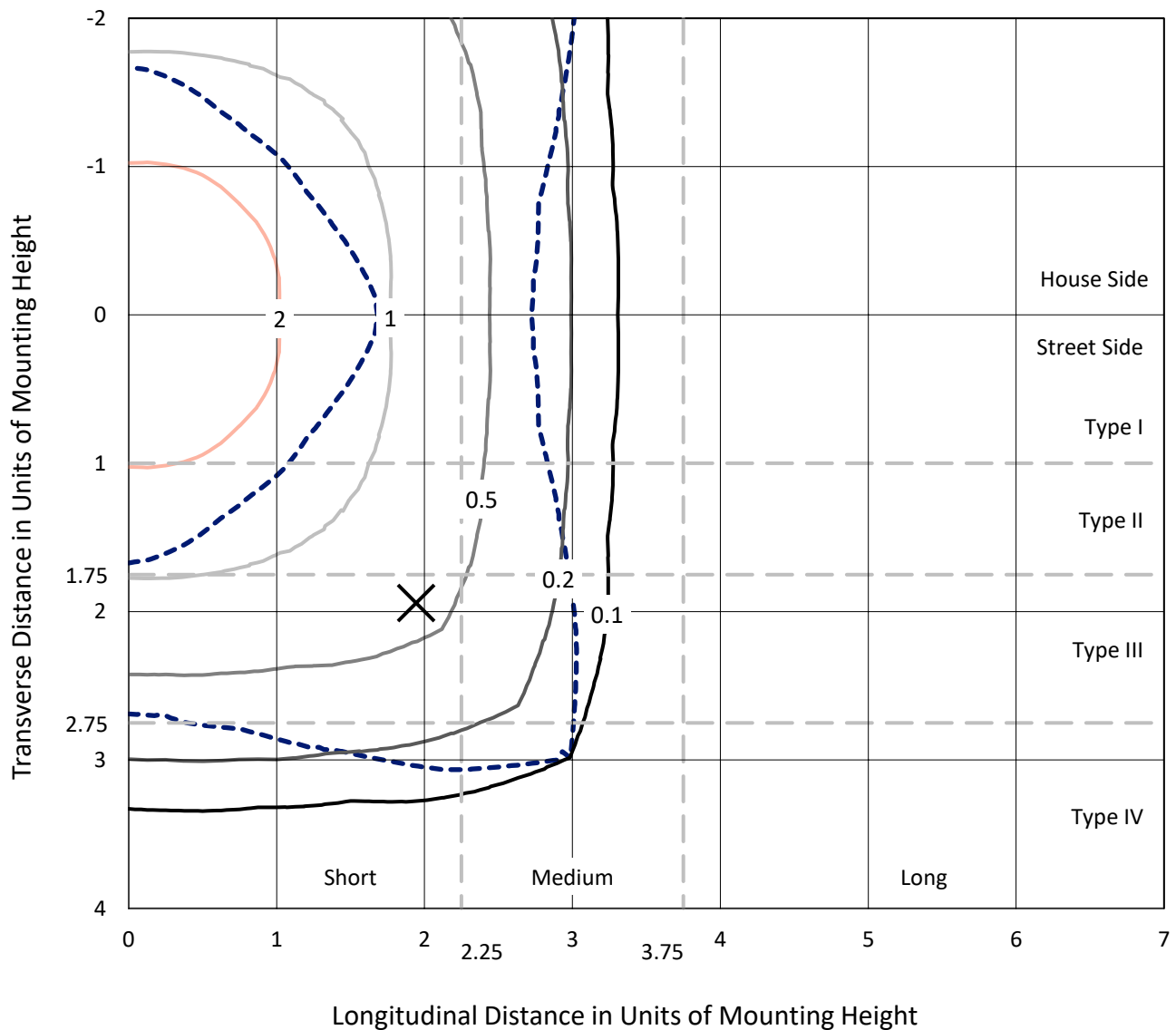


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Iso-Footcandle Lines of Horizontal Illumination

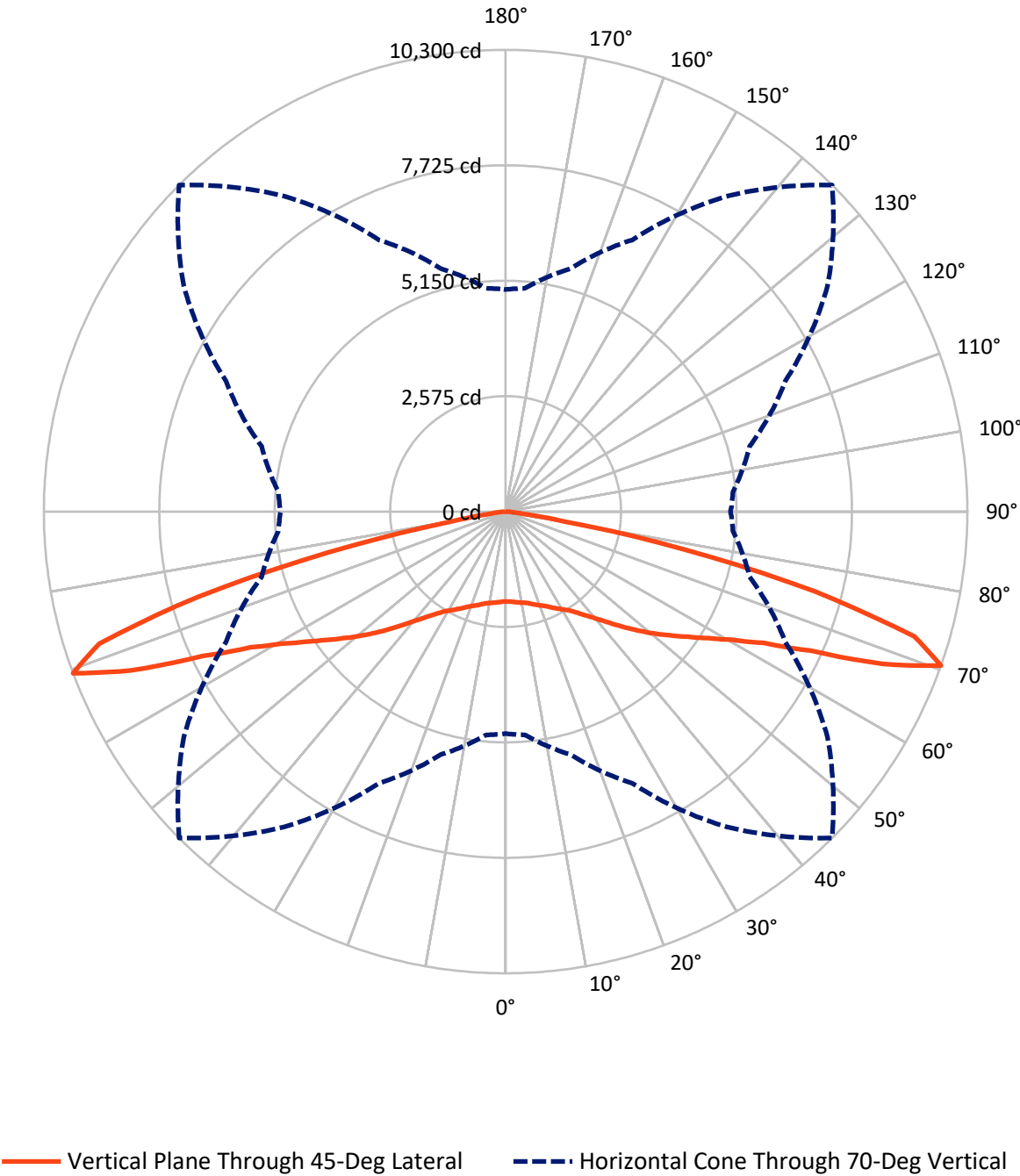
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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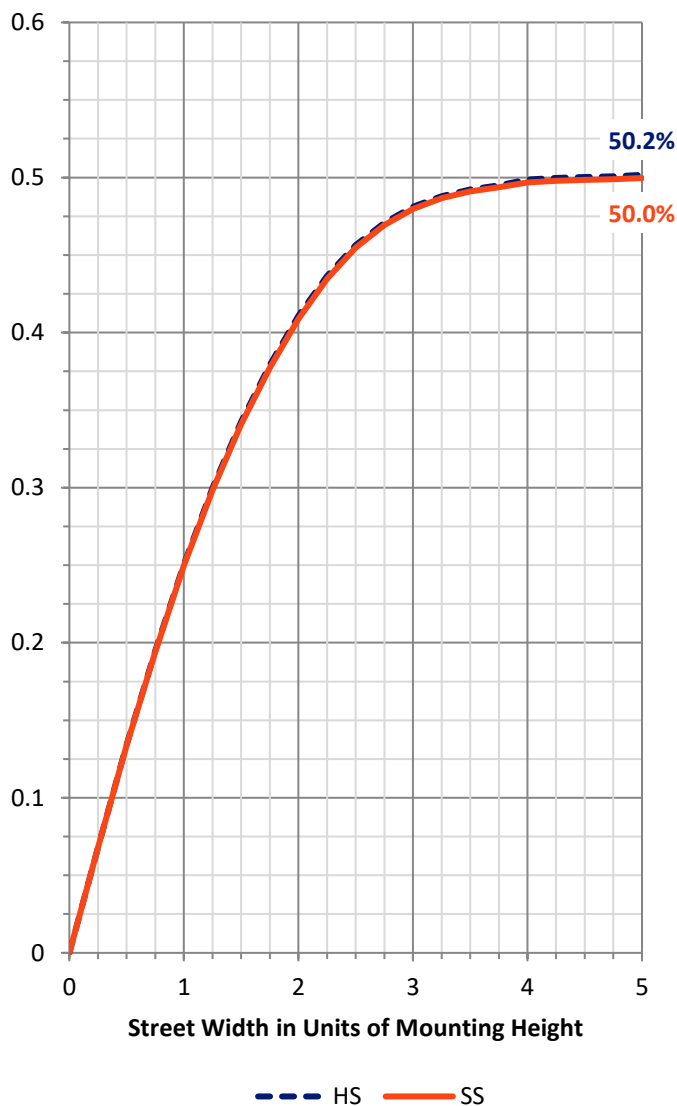
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10487.3	0.0	10487.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10487.3	0.0	10487.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	20974.6	0.0	20974.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.2	0.9
10°-20°	605.3	2.9
20°-30°	1081.7	5.2
30°-40°	1753.4	8.4
40°-50°	2855.9	13.6
50°-60°	4354.4	20.8
60°-70°	6477.9	30.9
70°-80°	3530.7	16.8
80°-90°	120.2	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°	20974.6	100.0
0°-180°	20974.6	100.0

Coefficient of Utilization



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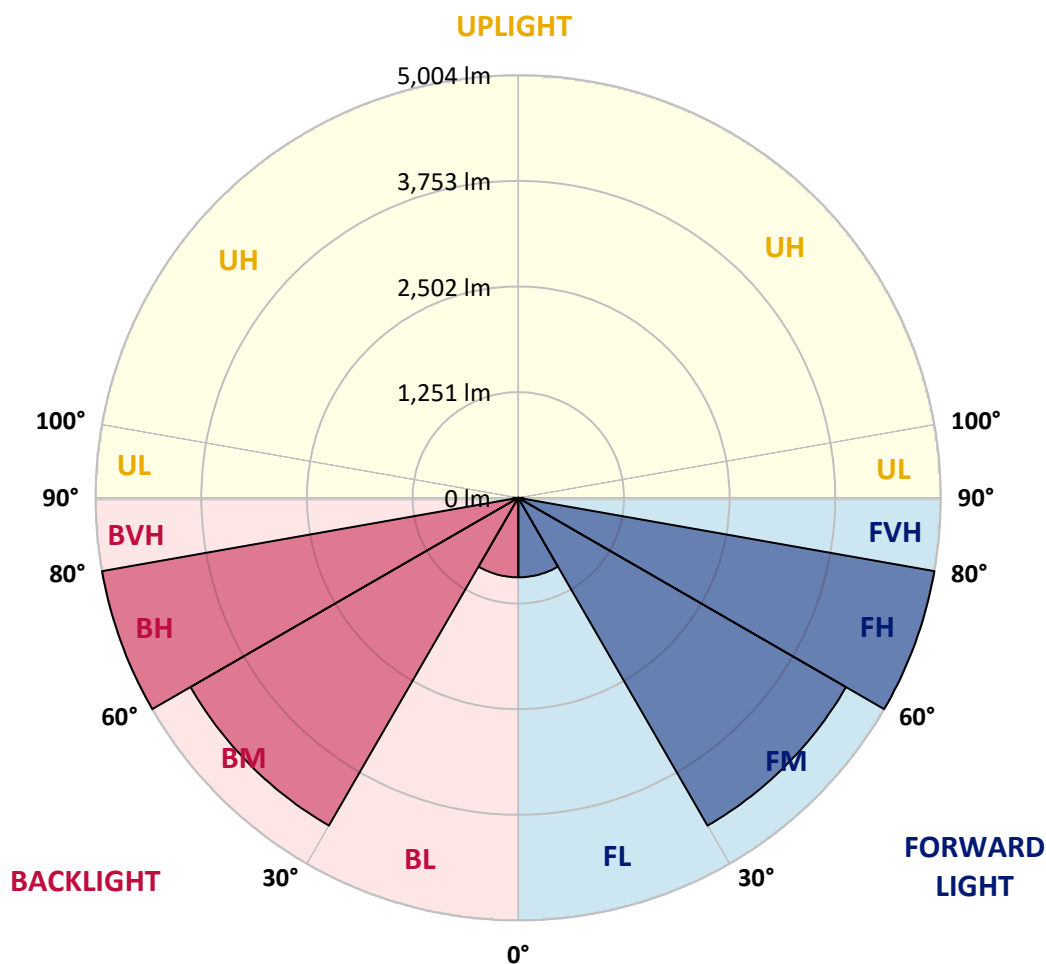
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	941.1	4.5			
FM	(30°-60°)	4481.8	21.4			
FH	(60°-80°)	5004.3	23.9			G3/7500
FVH	(80°-90°)	60.1	0.3			G1/100
BL	(0°-30°)	941.1	4.5	B2/1000		
BM	(30°-60°)	4481.8	21.4	B3/5000		
BH	(60°-80°)	5004.3	23.9	B5		G3/7500
BVH	(80°-90°)	60.1	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°	2009.1	2009.1	2009.1	2009.1	2009.1	2009.1	2009.1	2009.1	2009.1	2009.1	2009.1
2.5°	2018.6	2020.7	2016.5	2014.4	2012.3	2009.1	2010.2	2015.5	2019.7	2018.6	2019.7
5°	2035.4	2037.6	2034.4	2033.4	2029.2	2028.1	2028.1	2033.4	2036.6	2034.4	2035.4
7.5°	2054.4	2057.6	2052.4	2051.2	2049.2	2047.0	2046.0	2051.2	2054.4	2054.4	2054.4
10°	2072.3	2075.5	2071.3	2068.1	2066.0	2066.0	2063.9	2068.1	2073.4	2072.3	2072.3
12.5°	2091.3	2093.4	2089.2	2087.1	2087.1	2090.2	2087.1	2089.2	2093.4	2091.3	2090.2
15°	2114.5	2115.5	2114.5	2117.6	2122.9	2133.4	2123.9	2121.9	2123.9	2118.7	2118.7
17.5°	2146.0	2148.2	2152.4	2159.8	2167.1	2186.0	2169.2	2164.0	2164.0	2153.4	2153.4
20°	2185.0	2188.2	2194.5	2207.1	2216.6	2234.5	2217.7	2210.3	2207.1	2193.4	2193.4
22.5°	2226.1	2231.3	2240.9	2257.7	2274.5	2291.4	2274.5	2261.9	2252.4	2234.5	2233.5
25°	2273.4	2279.8	2294.5	2321.9	2345.1	2369.3	2349.3	2324.0	2305.0	2279.8	2278.7
27.5°	2340.9	2348.2	2366.1	2399.8	2429.2	2450.4	2431.4	2398.8	2372.5	2341.9	2340.9
30°	2435.6	2443.0	2464.0	2499.9	2519.9	2533.6	2520.9	2495.7	2464.0	2429.2	2429.2
32.5°	2557.8	2567.2	2590.4	2624.1	2628.3	2630.5	2626.3	2613.5	2590.4	2548.3	2549.4
35°	2712.6	2723.1	2749.5	2776.8	2772.6	2776.8	2770.5	2766.3	2749.5	2701.0	2701.0
37.5°	2902.1	2914.7	2942.2	2963.2	2952.6	2947.4	2948.4	2949.4	2940.0	2886.3	2886.3
40°	3122.1	3139.1	3159.0	3181.2	3163.3	3147.5	3158.0	3166.4	3158.0	3103.2	3103.2
42.5°	3348.6	3372.8	3393.9	3425.4	3410.7	3390.7	3405.5	3414.9	3397.1	3338.0	3342.2
45°	3600.2	3623.4	3650.7	3698.2	3687.6	3666.6	3687.6	3689.8	3659.2	3589.8	3597.1
47.5°	3860.4	3884.5	3925.6	3988.8	3984.6	3961.4	3988.8	3974.0	3935.1	3852.0	3846.6
50°	4106.8	4140.5	4203.6	4292.1	4300.5	4272.1	4308.9	4280.5	4215.2	4111.0	4108.8
52.5°	4338.4	4374.2	4474.2	4594.3	4624.8	4588.0	4637.5	4588.0	4490.0	4356.4	4343.6
55°	4581.6	4621.6	4740.6	4897.6	4958.6	4931.3	4977.6	4902.8	4763.8	4601.6	4579.6
57.5°	4868.0	4892.3	5034.5	5220.8	5324.1	5330.3	5351.4	5225.0	5056.5	4872.3	4847.0
60°	5178.7	5212.4	5367.2	5590.5	5753.6	5806.3	5784.2	5596.8	5400.9	5189.3	5155.5
62.5°	5576.7	5613.6	5798.9	6066.4	6324.4	6454.9	6368.6	6096.9	5854.7	5601.0	5556.7
65°	5906.4	5947.5	6282.2	6759.3	7228.9	7491.1	7274.2	6774.0	6338.1	5980.1	5921.1
67.5°	5667.3	5717.9	6243.3	7119.4	8287.2	9069.6	8327.2	7226.9	6372.8	5887.4	5814.7
70°	4953.4	5000.8	5613.6	6684.5	8585.2	10299.5	8764.3	6881.4	5633.6	5090.3	5017.6
72.5°	3288.5	3441.2	4061.5	5346.1	7666.0	9530.9	7741.7	5237.6	3767.7	3281.2	3174.8
75°	1090.9	1213.1	1636.4	2771.5	5134.5	7127.8	4888.1	2452.4	1296.2	933.0	882.4
77.5°	274.8	316.9	437.0	792.9	2048.2	4058.3	1843.9	647.6	352.8	246.4	220.1
80°	133.8	147.4	210.6	264.3	512.8	1290.0	481.2	248.5	166.4	128.4	118.0
82.5°	73.7	74.7	119.0	149.5	190.5	333.8	197.9	145.3	95.8	77.9	77.9
85°	45.3	44.2	63.1	80.1	80.1	119.0	94.8	80.1	54.7	48.5	50.5
87.5°	17.9	17.9	23.2	25.3	22.1	30.5	24.2	26.3	21.0	20.0	21.0
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)