

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: P964552

Luminaire Tested: **NAV-SB3C-735-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23297.2 lumens
Efficiency: N/A
Efficacy: 156.3 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



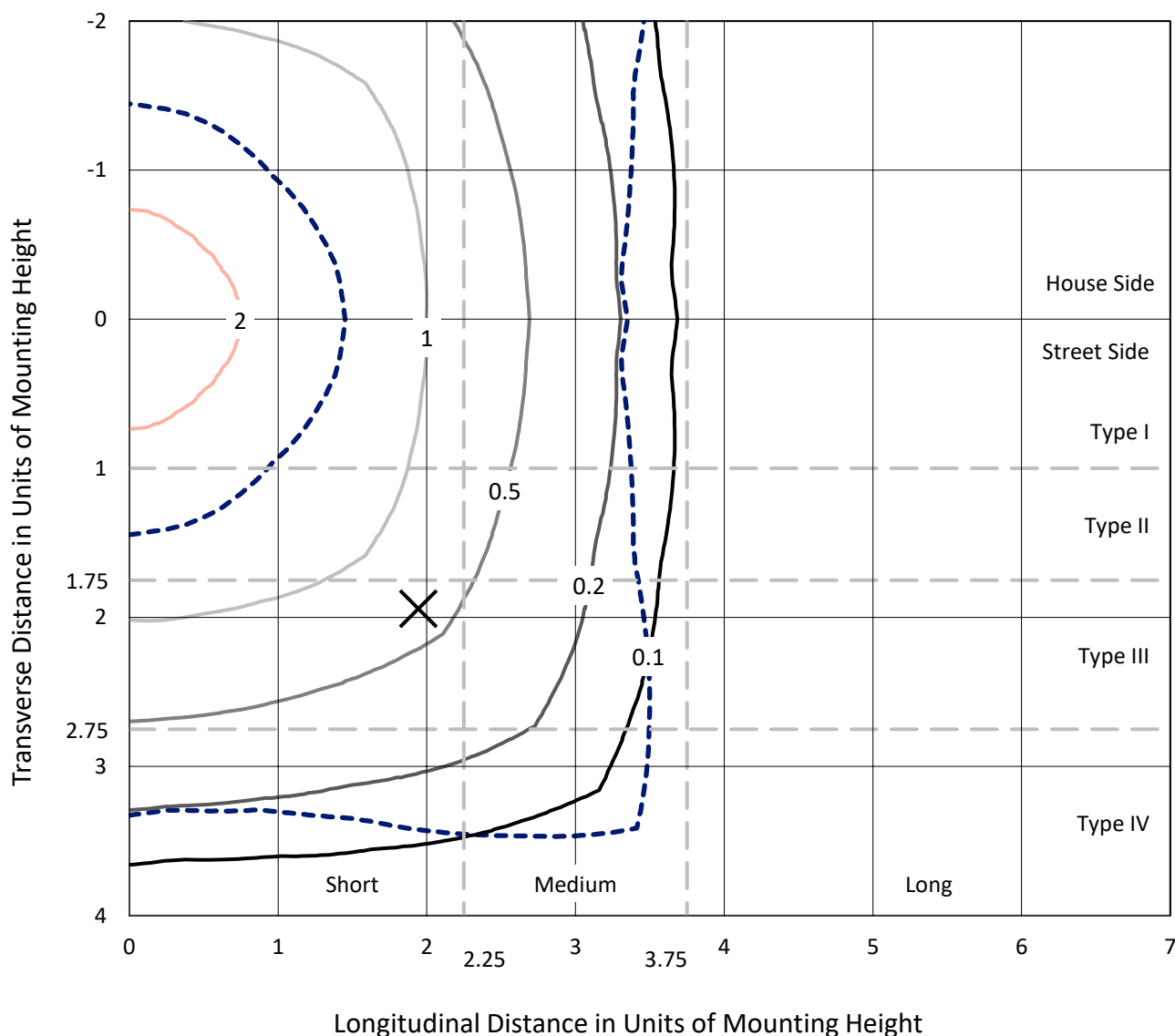
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

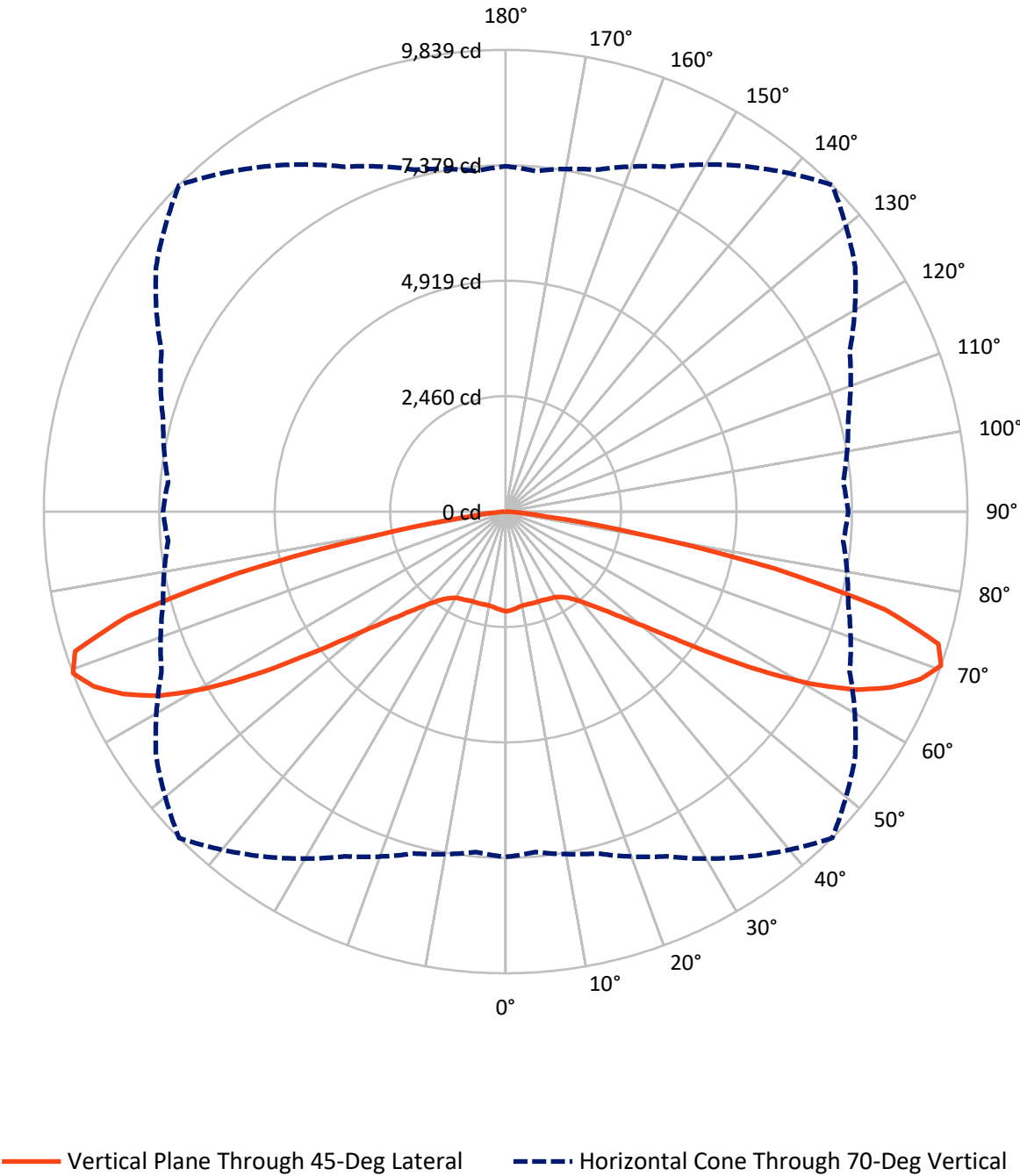


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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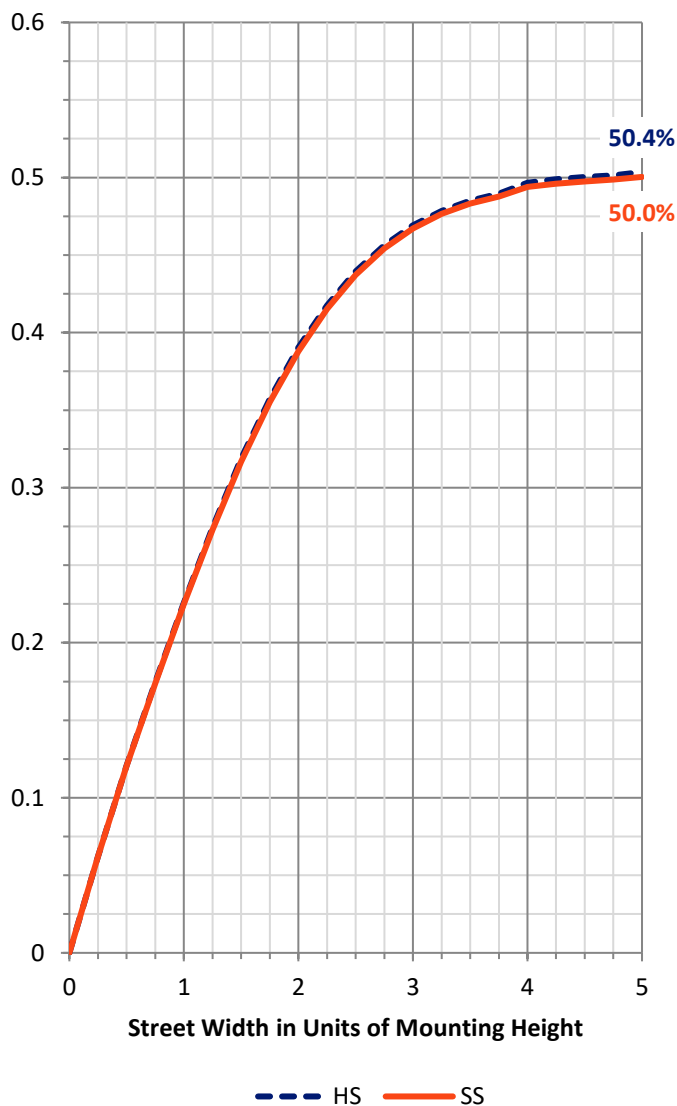
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11648.6	0.0	11648.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11648.6	0.0	11648.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	23297.2	0.0	23297.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.7	0.8
10°-20°	580.5	2.5
20°-30°	966.0	4.1
30°-40°	1460.9	6.3
40°-50°	2427.6	10.4
50°-60°	4580.8	19.7
60°-70°	7734.9	33.2
70°-80°	5082.6	21.8
80°-90°	266.3	1.1
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°	23297.2	100.0
0°-180°	23297.2	100.0

Coefficient of Utilization



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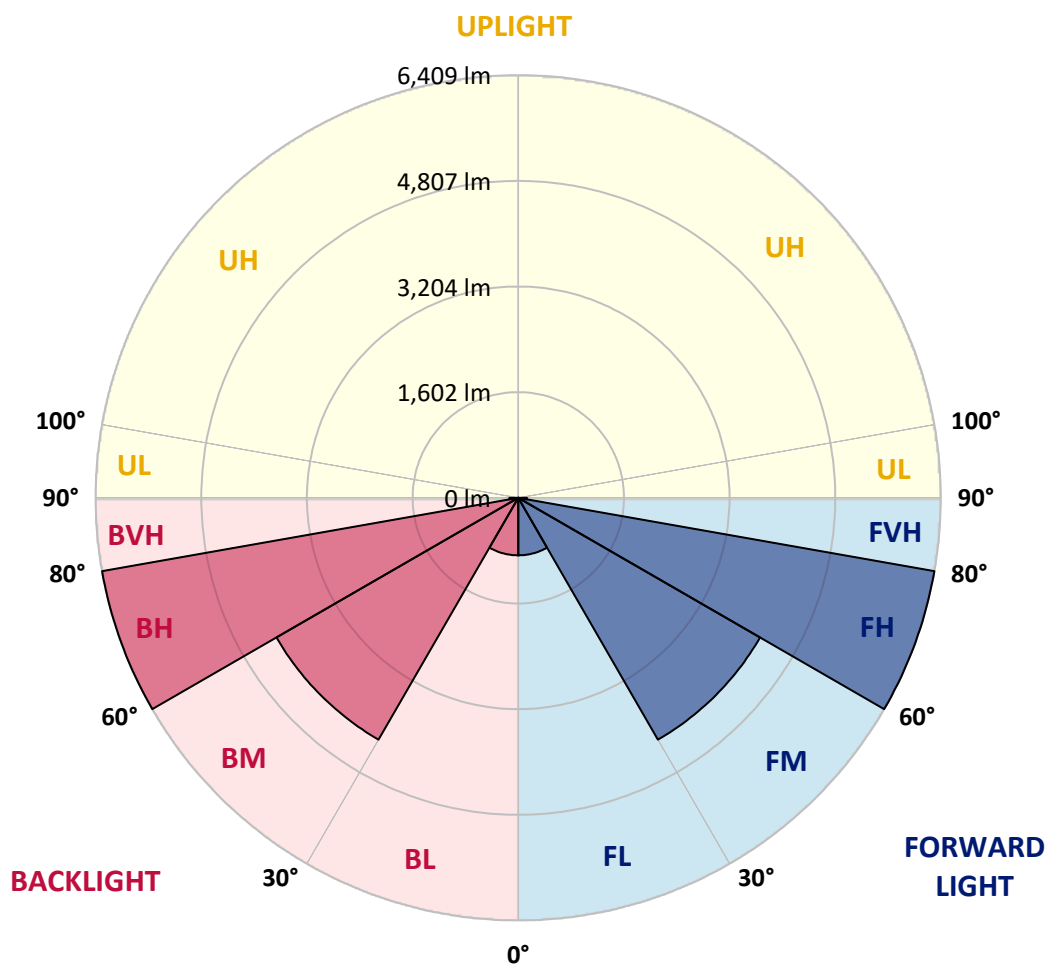
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	872.1	3.7			
FM	(30°-60°)	4234.6	18.2			
FH	(60°-80°)	6408.8	27.5			G3/7500
FVH	(80°-90°)	133.1	0.6			G2/225
BL	(0°-30°)	872.1	3.7	B2/1000		
BM	(30°-60°)	4234.6	18.2	B3/5000		
BH	(60°-80°)	6408.8	27.5	B5		G3/7500
BVH	(80°-90°)	133.1	0.6			G2/225
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°	2125.1	2125.1	2125.1	2125.1	2125.1	2125.1	2125.1	2125.1	2125.1	2125.1	2125.1
2.5°	2111.8	2118.0	2115.5	2110.7	2110.7	2107.0	2110.7	2113.0	2116.7	2119.1	2118.0
5°	2084.0	2088.8	2087.6	2084.0	2085.3	2081.6	2084.0	2087.6	2090.1	2091.3	2091.3
7.5°	2059.7	2064.7	2062.2	2056.1	2056.1	2052.6	2053.7	2057.4	2061.0	2062.2	2062.2
10°	2053.7	2058.6	2051.3	2041.6	2038.0	2033.2	2034.3	2038.0	2045.3	2048.9	2048.9
12.5°	2056.1	2059.7	2052.6	2038.0	2034.3	2029.5	2029.5	2033.2	2042.8	2047.6	2048.9
15°	2063.4	2067.0	2056.1	2040.4	2036.8	2033.2	2032.0	2036.8	2047.6	2056.1	2057.4
17.5°	2076.8	2080.3	2063.4	2041.6	2036.8	2038.0	2036.8	2040.4	2057.4	2073.1	2073.1
20°	2088.8	2091.3	2068.2	2041.6	2036.8	2038.0	2036.8	2044.1	2065.9	2087.6	2088.8
22.5°	2092.4	2094.9	2073.1	2050.1	2046.5	2047.6	2046.5	2053.7	2074.3	2096.1	2096.1
25°	2093.7	2097.4	2080.3	2062.2	2068.2	2070.7	2068.2	2069.5	2085.3	2104.6	2103.4
27.5°	2111.8	2116.7	2100.9	2085.3	2088.8	2087.6	2091.3	2094.9	2107.0	2126.4	2121.5
30°	2149.4	2153.0	2139.7	2124.0	2121.5	2113.0	2124.0	2136.1	2149.4	2166.3	2162.8
32.5°	2211.1	2218.4	2201.5	2184.5	2173.6	2168.8	2177.2	2197.8	2215.9	2234.2	2226.9
35°	2314.0	2319.0	2303.2	2271.7	2252.3	2252.3	2259.6	2286.3	2315.3	2338.3	2329.8
37.5°	2459.4	2465.4	2437.6	2400.0	2371.0	2371.0	2380.7	2408.5	2452.1	2484.8	2472.7
40°	2636.2	2644.7	2609.5	2570.8	2542.9	2538.1	2550.2	2581.7	2622.9	2664.1	2650.8
42.5°	2849.3	2859.0	2813.0	2779.1	2757.2	2757.2	2763.3	2792.4	2829.9	2880.8	2877.2
45°	3121.7	3138.8	3075.7	3041.9	3021.3	3026.1	3029.7	3055.2	3089.0	3147.2	3144.8
47.5°	3446.3	3463.3	3396.6	3361.5	3357.9	3380.9	3366.4	3384.6	3402.7	3469.3	3449.9
50°	3814.4	3843.4	3797.4	3795.1	3802.3	3844.7	3810.7	3820.5	3799.9	3842.3	3816.8
52.5°	4264.9	4307.3	4298.7	4313.3	4394.5	4481.6	4404.1	4370.2	4292.7	4306.0	4261.2
55°	4811.0	4875.2	4887.3	4974.5	5158.5	5336.6	5171.8	5035.0	4870.4	4840.0	4792.8
57.5°	5432.2	5483.0	5541.2	5719.2	6063.1	6379.2	6063.1	5760.4	5501.3	5439.5	5395.9
60°	6100.7	6163.6	6219.3	6482.1	6993.1	7437.5	6983.4	6502.7	6159.9	6076.4	6003.7
62.5°	6818.7	6899.9	6938.6	7230.5	7826.2	8356.6	7834.7	7252.3	6872.0	6782.4	6709.8
65°	7507.7	7574.3	7617.9	7929.2	8498.3	9029.8	8537.0	7963.0	7571.9	7454.4	7396.3
67.5°	7828.6	7864.9	7971.5	8323.9	8924.6	9531.2	9026.3	8361.4	7924.3	7718.5	7720.9
70°	7358.8	7285.0	7541.6	8105.9	8975.4	9838.8	9091.6	8089.0	7553.7	7219.6	7299.4
72.5°	5686.5	5559.4	6005.0	6970.1	8394.1	9642.6	8452.3	7024.6	6282.3	5604.2	5772.5
75°	3094.0	2949.8	3565.0	4785.6	6694.0	8357.8	6847.8	4922.5	3969.4	3070.9	3270.7
77.5°	873.1	818.6	1315.1	2315.3	4026.3	5868.1	4181.3	2366.1	1559.6	925.2	1028.1
80°	267.6	259.1	351.2	697.5	1709.8	2810.5	1643.2	706.0	446.8	282.2	297.9
82.5°	158.7	145.3	174.4	254.3	435.9	882.7	423.8	265.2	213.1	142.9	155.0
85°	90.8	84.8	102.9	123.5	146.5	187.7	122.3	126.0	113.9	76.3	79.9
87.5°	37.5	33.9	40.0	38.7	33.9	43.6	32.7	38.7	46.0	30.2	27.9
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)