

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: P962478

Luminaire Tested: **NAV-SB2C-740-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962478
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-SB2C-740-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16724.9 lumens
Efficiency: N/A
Efficacy: 165.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 100.9
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

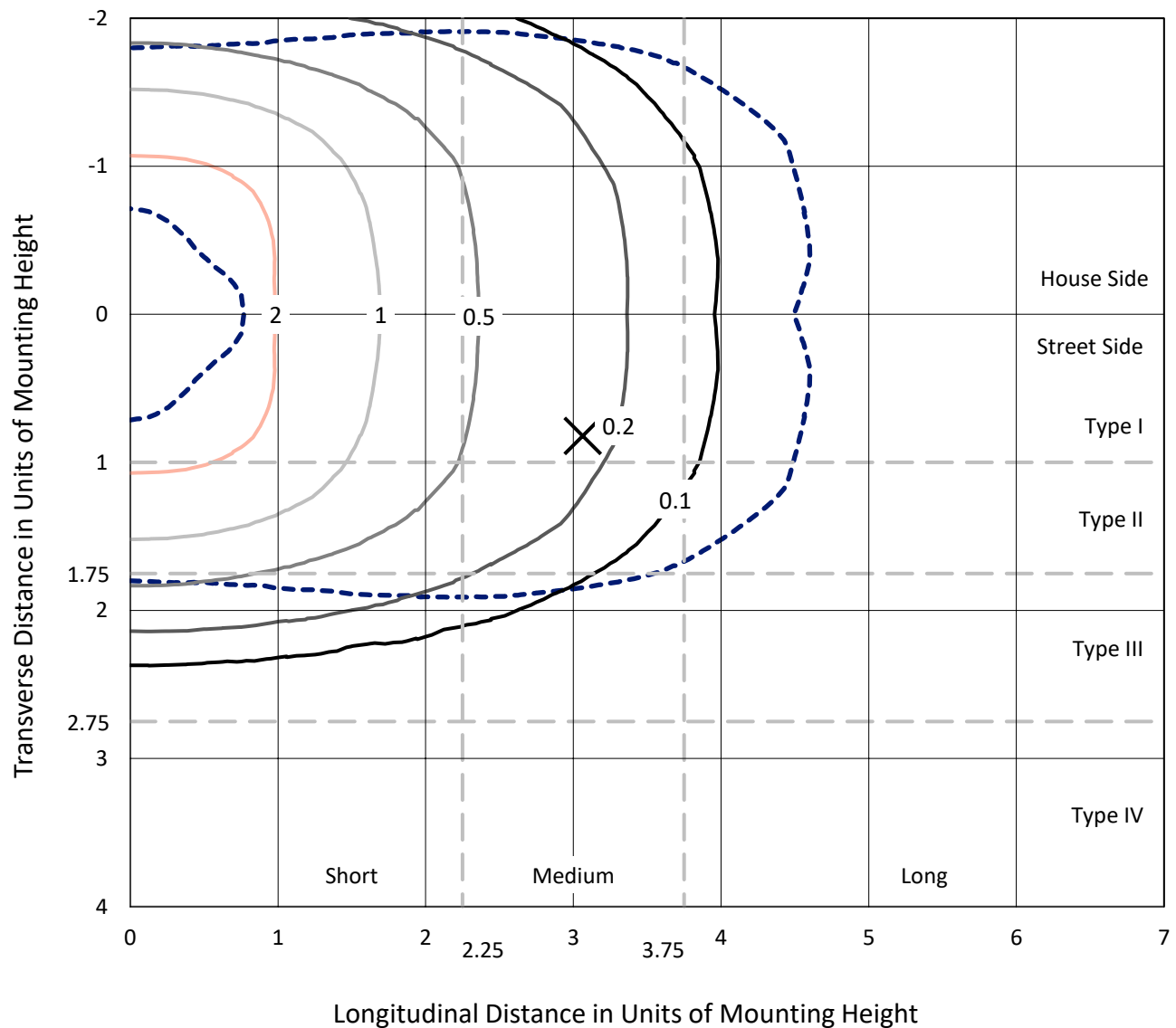


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Iso-Footcandle Lines of Horizontal Illumination

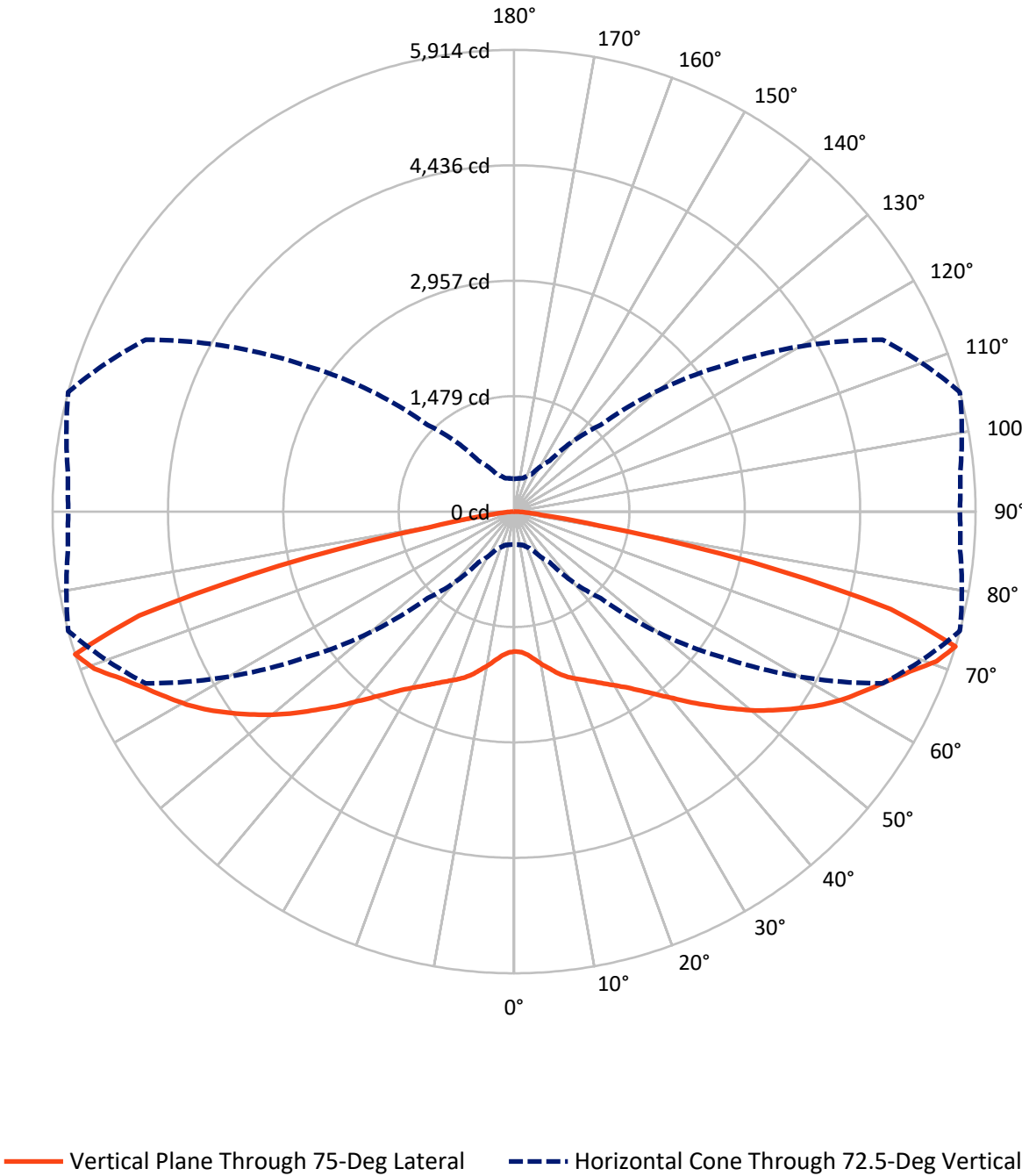
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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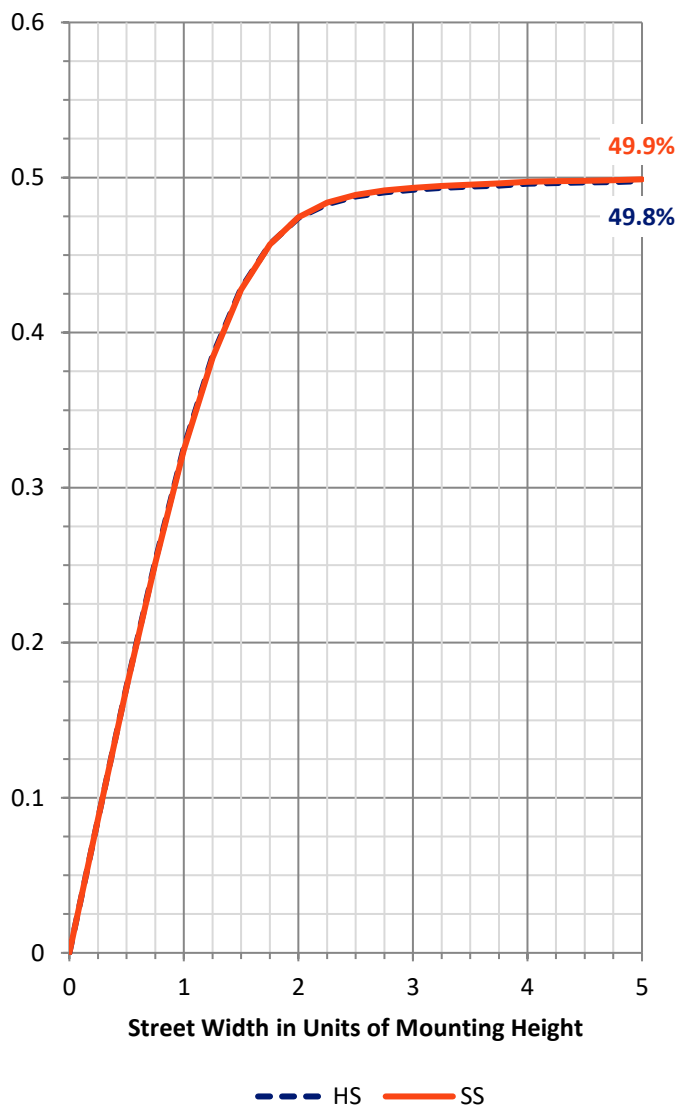
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8362.5	0.0	8362.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8362.5	0.0	8362.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16724.9	0.0	16724.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.5	1.0
10°-20°	578.8	3.5
20°-30°	1118.5	6.7
30°-40°	1888.6	11.3
40°-50°	2995.1	17.9
50°-60°	4010.1	24.0
60°-70°	3816.3	22.8
70°-80°	1991.4	11.9
80°-90°	150.7	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°	16724.9	100.0
0°-180°	16724.9	100.0

Coefficient of Utilization



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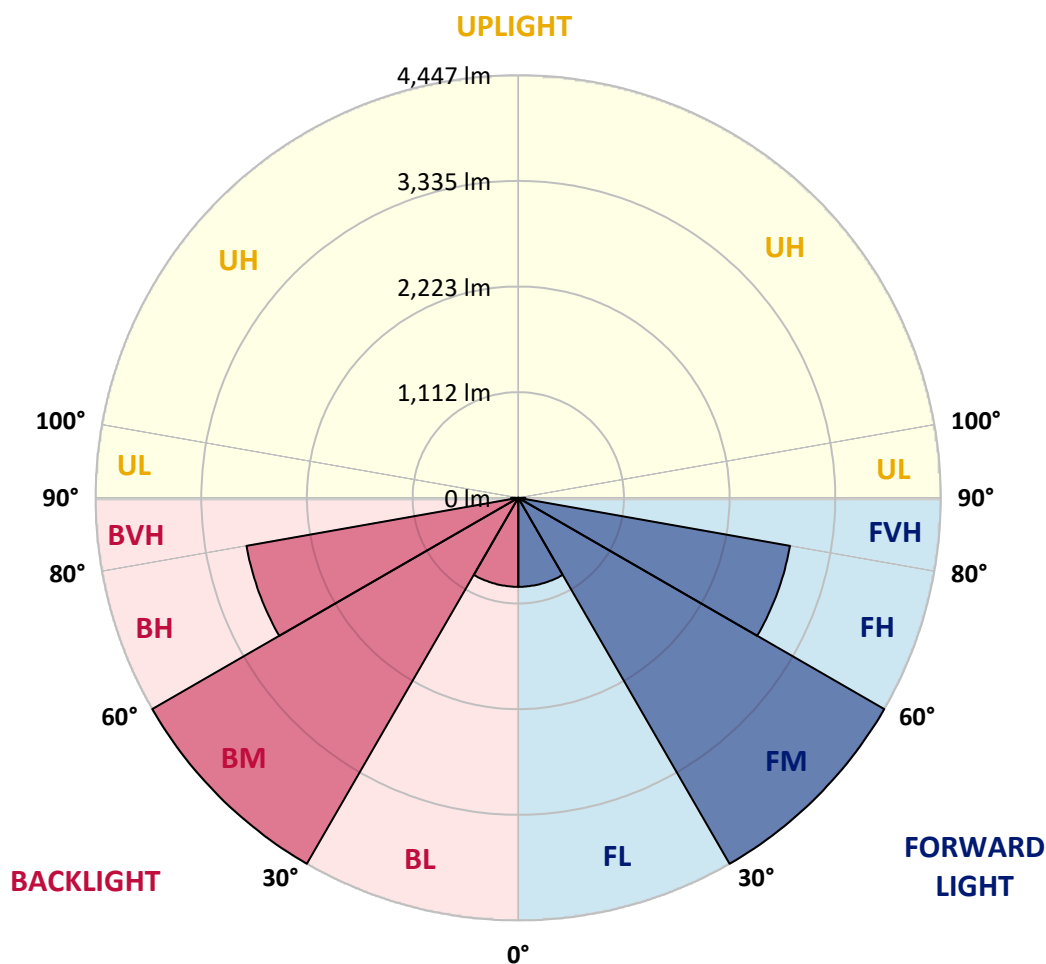
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	936.4	5.6			
FM	(30°-60°)	4446.9	26.6			
FH	(60°-80°)	2903.8	17.4			G2/5000
FVH	(80°-90°)	75.4	0.5			G1/100
BL	(0°-30°)	936.4	5.6	B2/1000		
BM	(30°-60°)	4446.9	26.6	B3/5000		
BH	(60°-80°)	2903.8	17.4	B4/5000		G4/5000
BVH	(80°-90°)	75.4	0.5			G1/100
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°	1791.5	1791.5	1791.5	1791.5	1791.5	1791.5	1791.5	1791.5	1791.5	1791.5	1791.5
2.5°	1791.5	1789.9	1791.5	1793.2	1792.4	1792.4	1796.6	1799.2	1804.3	1803.5	1802.7
5°	1779.6	1778.7	1785.6	1793.2	1799.2	1809.4	1822.2	1831.7	1843.7	1846.2	1846.2
7.5°	1773.6	1771.0	1783.0	1796.6	1815.5	1841.1	1865.8	1891.4	1911.9	1918.8	1920.4
10°	1777.9	1778.7	1795.0	1820.6	1850.4	1886.3	1921.4	1964.9	1993.9	2000.8	2007.6
12.5°	1797.5	1795.8	1823.2	1864.2	1905.1	1950.4	1991.4	2039.1	2070.8	2087.0	2093.9
15°	1833.4	1829.9	1868.4	1929.0	1988.8	2041.7	2075.0	2120.3	2157.0	2177.5	2185.2
17.5°	1876.1	1877.8	1928.1	2006.7	2085.3	2145.0	2176.7	2199.8	2227.9	2245.9	2254.4
20°	1951.2	1954.7	2010.9	2104.1	2193.7	2262.1	2287.7	2279.1	2286.8	2300.5	2310.8
22.5°	2051.9	2053.7	2116.9	2217.7	2311.6	2386.7	2403.8	2368.8	2347.5	2356.9	2363.6
25°	2169.0	2180.1	2243.3	2346.6	2443.1	2514.8	2522.5	2469.5	2416.6	2419.2	2423.4
27.5°	2311.6	2321.8	2385.9	2488.4	2586.6	2648.9	2648.0	2577.2	2499.5	2479.8	2485.8
30°	2466.1	2477.2	2543.0	2648.9	2740.2	2794.9	2783.0	2698.4	2587.4	2550.7	2554.9
32.5°	2649.7	2656.6	2723.2	2829.1	2913.6	2957.1	2932.4	2828.2	2689.9	2648.0	2658.2
35°	2871.7	2882.0	2931.5	3031.4	3105.7	3141.6	3099.8	2976.8	2821.4	2774.4	2781.2
37.5°	3125.3	3118.6	3174.9	3263.7	3325.2	3347.4	3290.1	3144.2	2971.7	2916.1	2926.4
40°	3390.1	3386.7	3448.2	3533.6	3566.9	3580.5	3496.0	3336.3	3145.0	3085.2	3104.8
42.5°	3630.0	3627.5	3710.3	3805.1	3845.2	3829.9	3723.1	3540.4	3345.7	3277.3	3294.5
45°	3822.2	3818.7	3920.4	4053.6	4132.2	4106.6	3963.1	3765.8	3549.0	3478.0	3494.2
47.5°	3969.9	3971.6	4080.9	4245.8	4383.2	4392.6	4208.1	3995.6	3772.6	3692.4	3716.2
50°	4076.6	4081.8	4198.8	4381.5	4569.3	4652.2	4458.3	4231.2	4004.1	3913.6	3940.9
52.5°	4103.1	4112.5	4253.4	4467.8	4688.9	4846.9	4712.8	4457.5	4223.5	4137.3	4159.4
55°	3962.2	3981.0	4159.4	4460.9	4762.4	4974.9	4936.5	4687.2	4444.7	4355.8	4380.6
57.5°	3638.5	3665.1	3873.4	4267.1	4746.2	5062.9	5109.9	4907.5	4665.9	4580.4	4600.1
60°	3185.2	3216.8	3416.5	3846.1	4517.3	5095.4	5232.0	5121.8	4869.1	4786.2	4804.2
62.5°	2501.1	2542.1	2781.2	3285.0	4034.0	4944.2	5336.2	5315.6	5051.8	4948.5	4960.5
65°	1604.5	1648.1	1899.9	2495.2	3389.3	4481.4	5368.6	5504.5	5244.8	5100.5	5118.4
67.5°	967.5	987.2	1111.8	1512.3	2477.2	3783.8	5093.6	5713.7	5470.2	5290.9	5304.6
70°	619.1	630.2	704.5	888.1	1400.5	2760.7	4412.2	5752.9	5743.5	5486.5	5484.8
72.5°	420.1	423.5	443.2	526.0	792.4	1568.7	3254.3	5208.1	5914.2	5738.4	5711.1
75°	307.4	326.2	357.8	372.3	450.0	783.9	1865.0	3659.0	4984.4	5061.2	4875.1
77.5°	228.9	229.7	273.3	290.4	321.0	417.6	789.0	2042.6	3094.7	3249.1	2898.2
80°	193.8	183.6	182.8	234.0	241.7	260.5	352.7	705.3	1108.4	672.0	508.1
82.5°	161.4	150.3	135.8	182.8	164.8	159.7	152.8	286.9	352.7	173.3	147.7
85°	112.7	107.6	102.5	119.5	93.9	80.3	73.4	134.1	148.6	73.4	64.9
87.5°	48.7	50.4	51.2	53.0	39.3	28.2	28.2	37.6	37.6	29.0	21.3
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)