

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: P961947

Luminaire Tested: **NAV-SB2B-740-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-740-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12796.1 lumens
Efficiency: N/A
Efficacy: 173.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 73.9
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

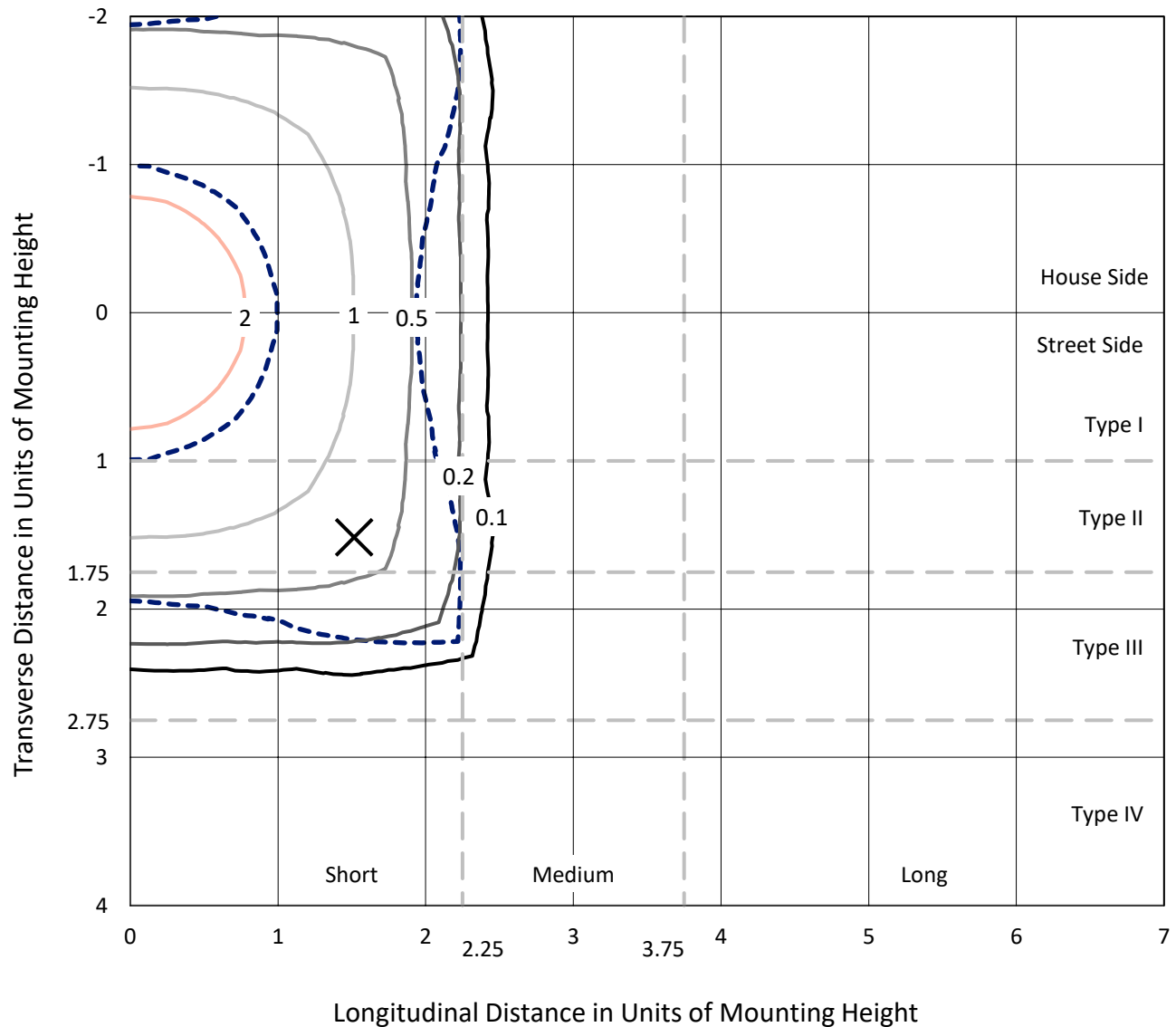


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Iso-Footcandle Lines of Horizontal Illumination

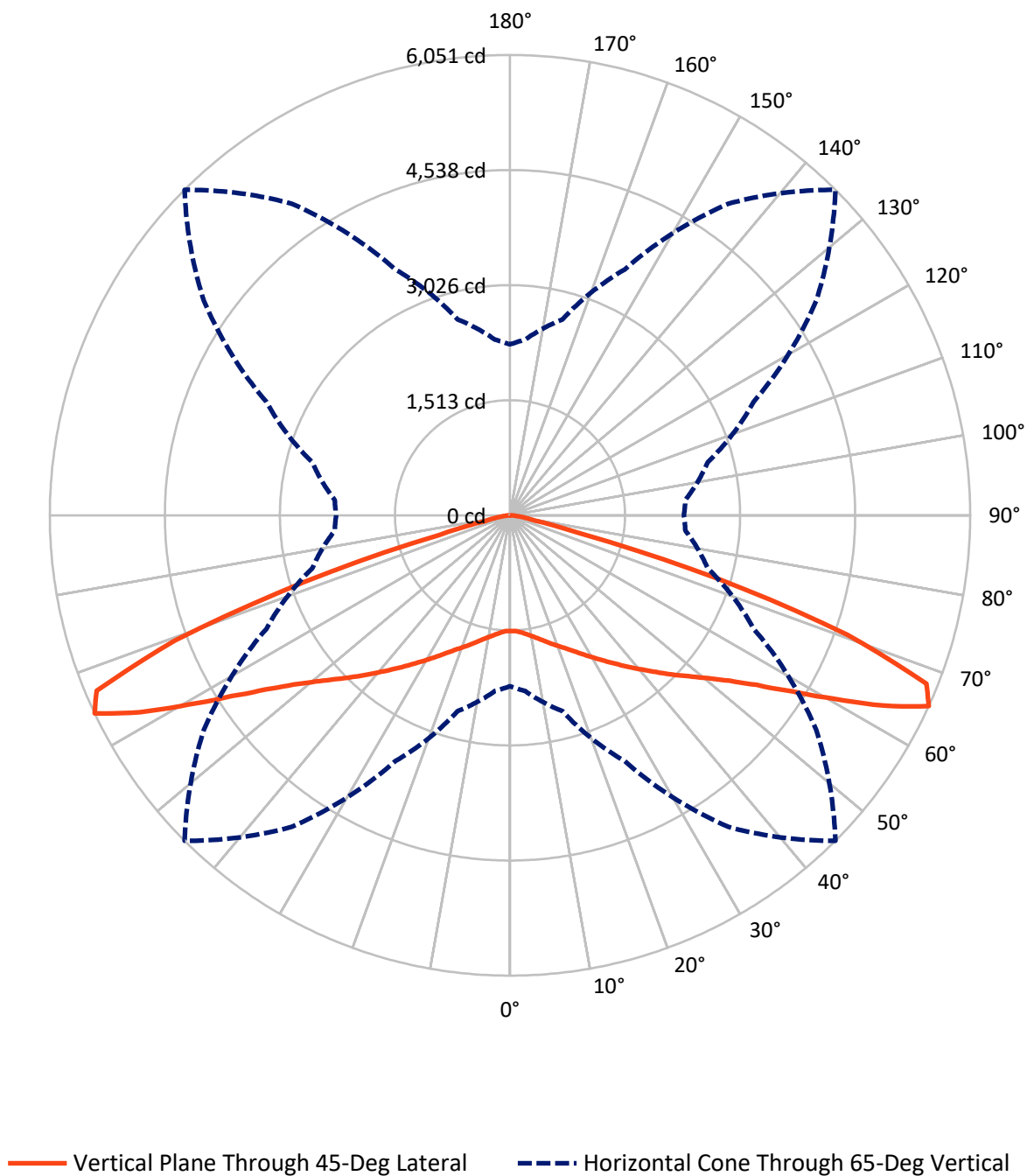
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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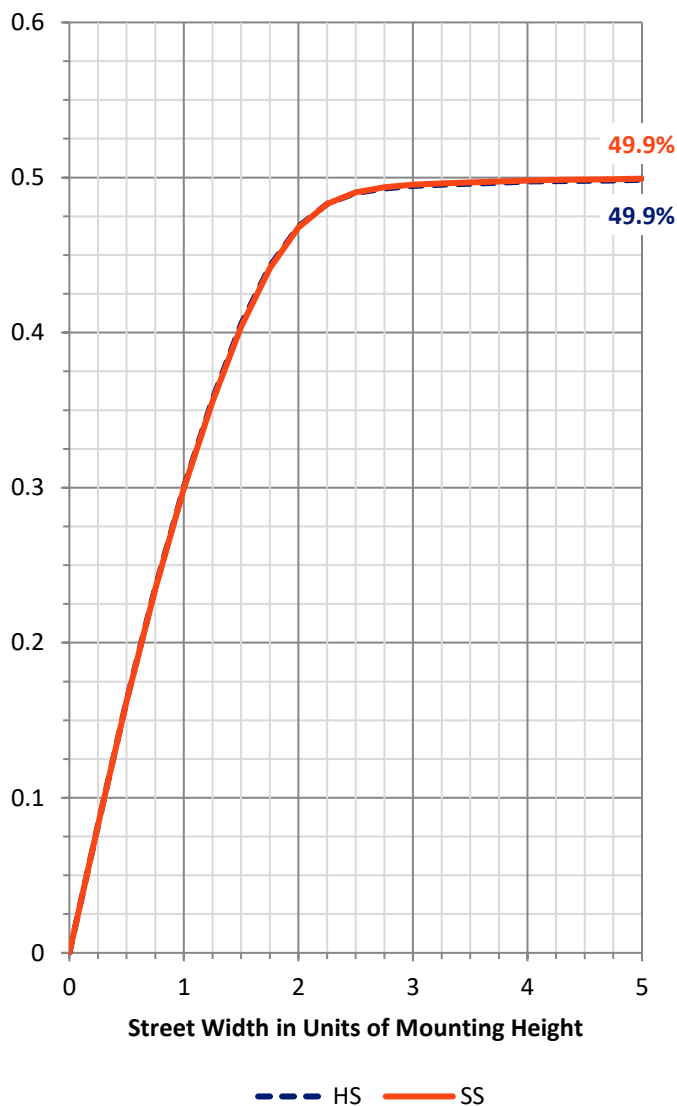
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6398.1	0.0	6398.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6398.1	0.0	6398.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	12796.1	0.0	12796.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.3	1.2
10°-20°	490.4	3.8
20°-30°	926.0	7.2
30°-40°	1516.2	11.8
40°-50°	2350.9	18.4
50°-60°	3472.8	27.1
60°-70°	3305.8	25.8
70°-80°	533.4	4.2
80°-90°	50.3	0.4
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°	12796.1	100.0
0°-180°	12796.1	100.0

Coefficient of Utilization



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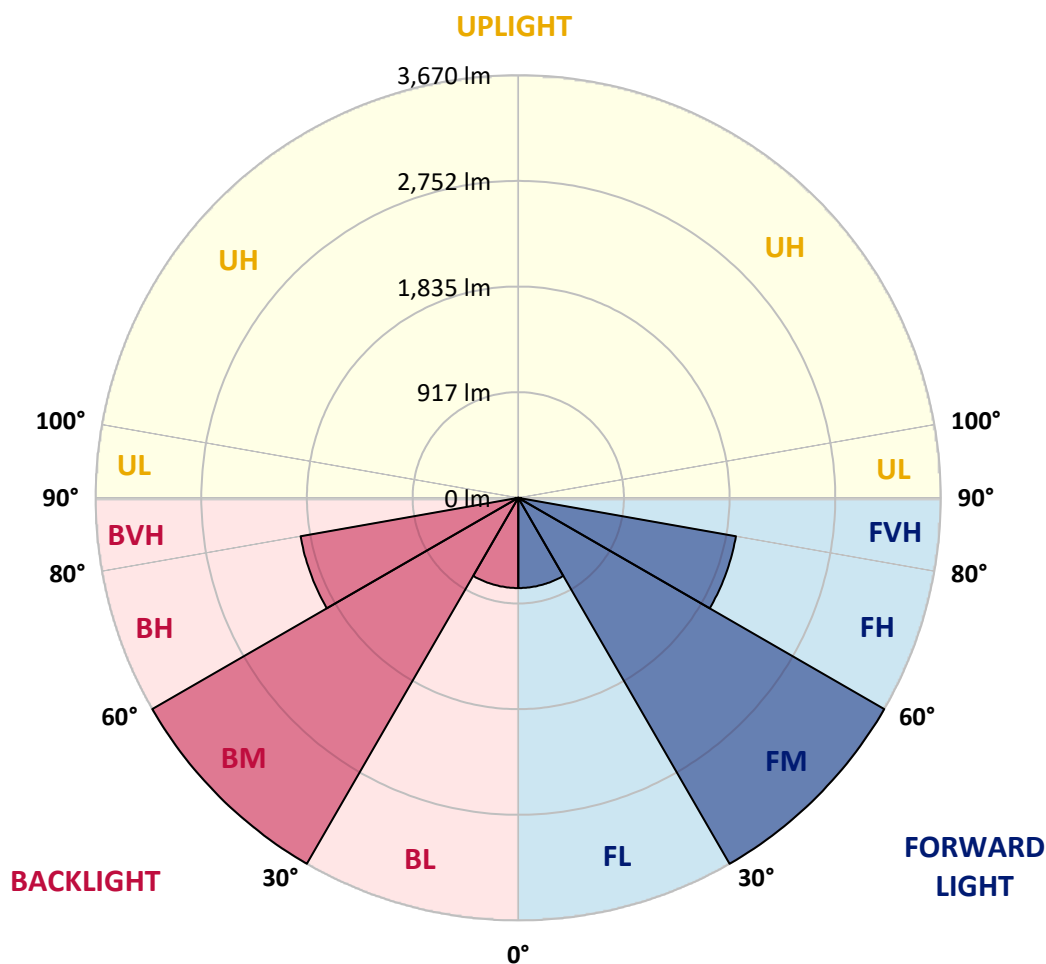
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	783.3	6.1			
FM	(30°-60°)	3670.0	28.7			
FH	(60°-80°)	1919.6	15.0			G2/5000
FVH	(80°-90°)	25.1	0.2			G1/100
BL	(0°-30°)	783.3	6.1	B2/1000		
BM	(30°-60°)	3670.0	28.7	B3/5000		
BH	(60°-80°)	1919.6	15.0	B3/2500		G2/5000
BVH	(80°-90°)	25.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1522.8	1522.8	1522.8	1522.8	1522.8	1522.8	1522.8	1522.8	1522.8	1522.8	1522.8
2.5°	1533.1	1528.0	1531.9	1528.7	1526.1	1523.5	1524.8	1529.3	1531.2	1531.9	1531.9
5°	1553.7	1549.2	1551.1	1551.1	1546.6	1545.3	1546.0	1549.2	1553.1	1553.1	1553.1
7.5°	1587.1	1582.6	1587.1	1584.5	1580.7	1579.3	1578.7	1581.3	1587.1	1587.1	1585.2
10°	1627.5	1622.4	1624.9	1623.7	1619.2	1617.2	1616.6	1620.4	1625.5	1624.9	1623.7
12.5°	1671.8	1666.0	1669.2	1665.4	1664.1	1662.1	1662.1	1661.5	1664.7	1662.1	1663.5
15°	1721.3	1717.4	1718.7	1716.2	1718.0	1716.8	1711.6	1709.1	1710.3	1706.5	1707.1
17.5°	1779.7	1770.7	1775.2	1773.9	1773.9	1776.4	1768.1	1764.9	1767.5	1763.6	1766.8
20°	1847.0	1838.1	1840.0	1837.4	1834.2	1836.8	1826.6	1829.1	1831.1	1828.5	1834.2
22.5°	1921.0	1909.4	1908.8	1910.0	1902.9	1903.6	1896.6	1902.9	1906.8	1899.7	1906.8
25°	1996.7	1984.5	1992.8	1989.6	1980.6	1982.6	1977.4	1983.8	1987.1	1978.0	1988.3
27.5°	2077.0	2068.6	2076.2	2078.2	2067.3	2075.0	2067.3	2073.1	2076.2	2062.8	2073.1
30°	2170.6	2162.3	2169.4	2174.5	2161.6	2173.8	2167.5	2171.3	2172.0	2155.9	2165.5
32.5°	2272.7	2259.9	2277.9	2280.4	2266.3	2281.0	2272.7	2277.9	2281.0	2259.3	2274.1
35°	2397.3	2381.3	2401.8	2398.6	2386.4	2398.6	2390.9	2398.6	2406.3	2379.9	2396.0
37.5°	2531.4	2514.7	2536.6	2530.8	2519.2	2527.6	2523.1	2528.3	2540.5	2512.2	2529.5
40°	2679.1	2658.5	2688.2	2677.8	2666.9	2665.6	2668.2	2671.5	2687.4	2656.0	2666.3
42.5°	2837.1	2815.3	2859.5	2843.5	2828.1	2817.8	2826.1	2832.6	2848.0	2812.7	2831.3
45°	3017.5	2992.5	3050.2	3030.9	3006.5	2985.4	2998.8	3008.5	3030.9	2988.6	3010.4
47.5°	3216.6	3188.3	3249.9	3244.1	3204.4	3158.1	3188.9	3216.6	3233.2	3181.8	3199.1
50°	3411.0	3389.2	3470.1	3477.2	3428.4	3363.5	3406.6	3448.3	3452.8	3385.4	3393.7
52.5°	3593.3	3571.5	3689.1	3733.4	3689.7	3612.6	3658.2	3700.6	3666.5	3579.2	3581.9
55°	3739.1	3721.2	3870.7	3985.0	3999.8	3936.2	3963.2	3961.9	3850.2	3716.0	3720.4
57.5°	3774.5	3771.9	3960.6	4202.6	4356.8	4364.4	4311.2	4175.0	3934.3	3753.9	3742.3
60°	3613.9	3629.9	3889.4	4316.3	4727.2	4898.0	4667.4	4279.1	3838.6	3588.2	3558.7
62.5°	3133.7	3176.1	3488.7	4177.6	5026.4	5511.7	4953.2	4121.1	3445.7	3118.9	3099.7
65°	2245.8	2319.6	2665.0	3565.2	4999.3	6051.0	4912.1	3536.2	2690.7	2313.8	2286.3
67.5°	1018.8	1094.0	1387.4	2440.9	4345.8	5904.6	4335.5	2466.7	1456.7	1097.9	1081.8
70°	369.2	382.0	476.4	977.1	2777.3	4704.8	2896.1	984.2	506.6	407.0	401.9
72.5°	223.4	225.4	245.3	349.9	964.9	2856.4	1006.0	361.4	250.4	222.1	226.0
75°	141.9	140.6	174.7	213.8	342.1	963.7	358.9	213.8	173.9	158.6	159.9
77.5°	102.1	105.3	125.2	159.9	215.8	326.8	211.9	152.8	125.2	102.7	104.7
80°	76.4	78.3	91.1	124.5	151.5	203.6	134.8	113.0	94.4	64.2	66.1
82.5°	55.2	55.2	59.8	90.5	92.5	109.8	73.2	79.6	62.3	45.6	45.6
85°	32.7	32.1	37.2	53.9	48.2	40.5	33.4	48.8	39.2	28.3	27.6
87.5°	11.6	12.2	11.6	15.4	12.8	10.9	10.2	13.5	10.9	9.6	9.0
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)