

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: P964056

Luminaire Tested: **NAV-SB3B-740-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964056
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-SB3B-740-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18532 lumens
Efficiency: N/A
Efficacy: 169.7 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): 109.2
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



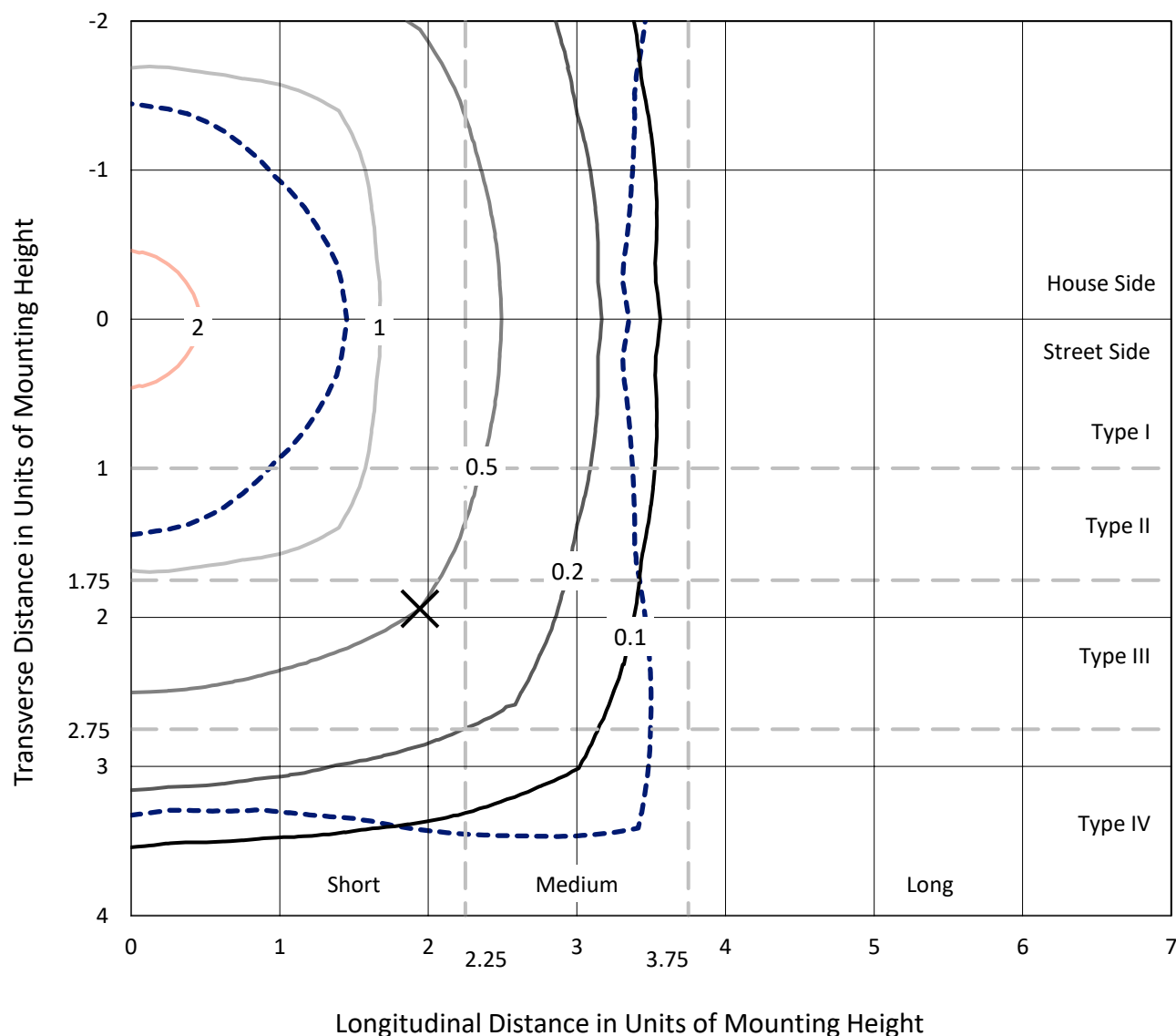
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

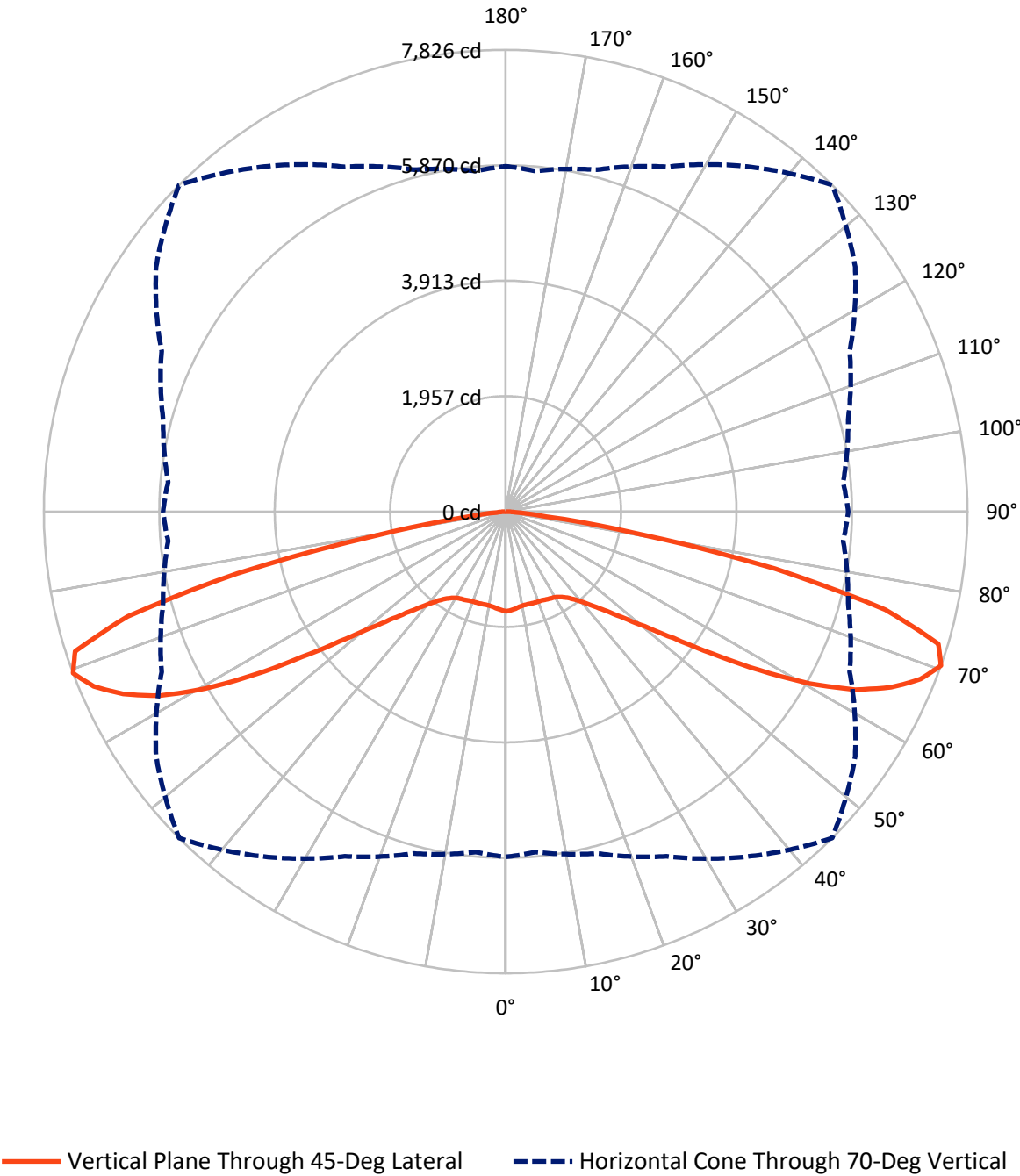


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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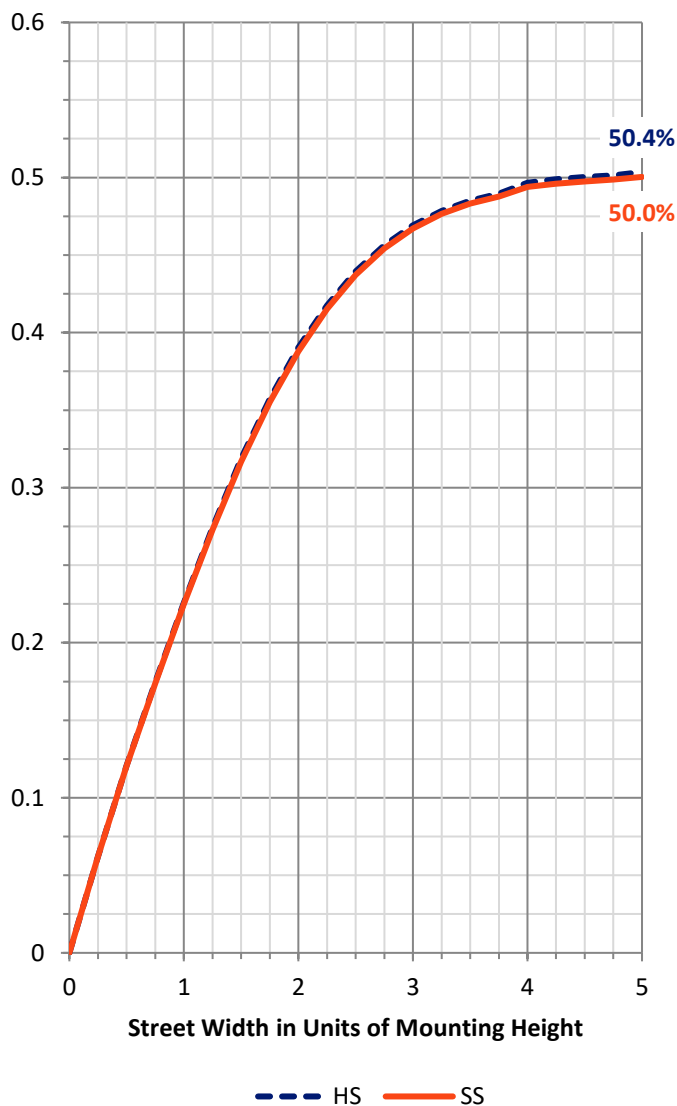
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9266.0	0.0	9266.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9266.0	0.0	9266.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18532.0	0.0	18532.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.3	0.8
10°-20°	461.7	2.5
20°-30°	768.4	4.1
30°-40°	1162.1	6.3
40°-50°	1931.1	10.4
50°-60°	3643.9	19.7
60°-70°	6152.8	33.2
70°-80°	4043.0	21.8
80°-90°	211.8	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°	18532.0	100.0
0°-180°	18532.0	100.0

Coefficient of Utilization



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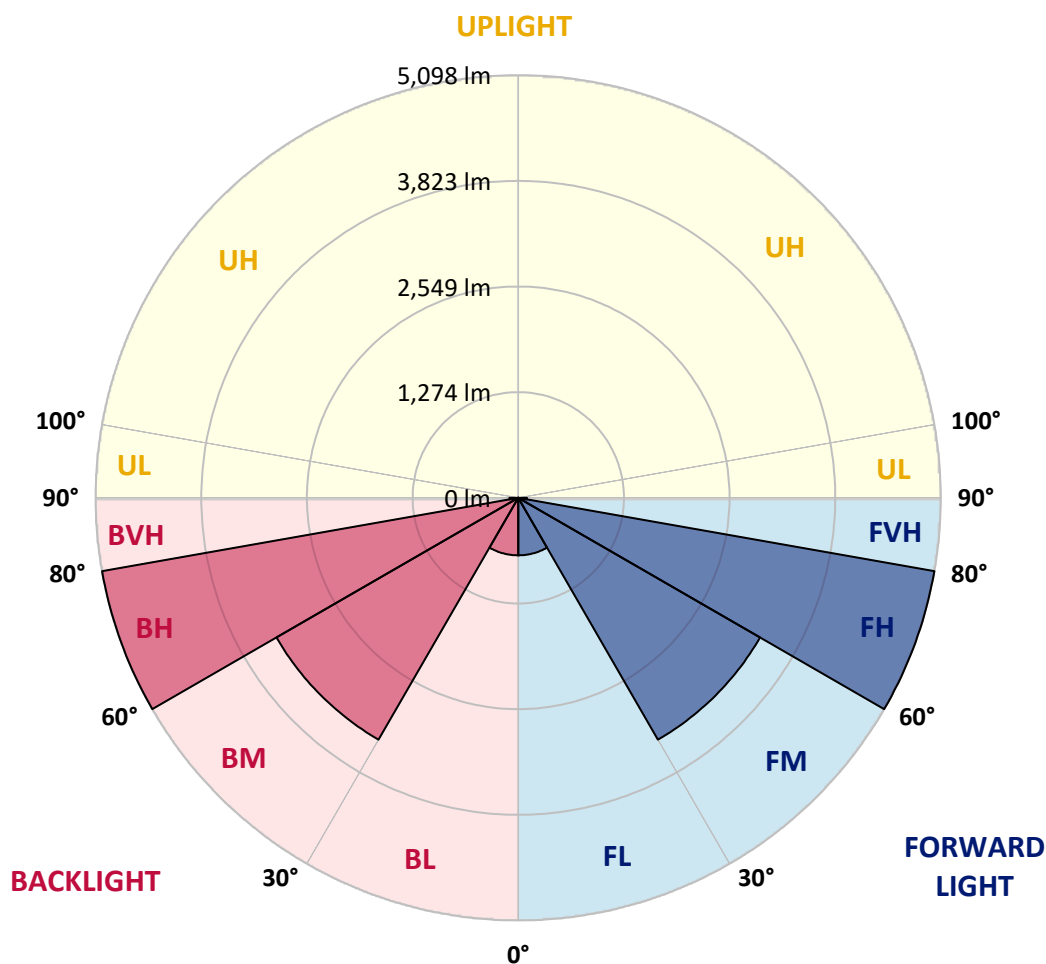
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	693.7	3.7			
FM	(30°-60°)	3368.5	18.2			
FH	(60°-80°)	5097.9	27.5			G3/7500
FVH	(80°-90°)	105.9	0.6			G2/225
BL	(0°-30°)	693.7	3.7	B2/1000		
BM	(30°-60°)	3368.5	18.2	B3/5000		
BH	(60°-80°)	5097.9	27.5	B5		G3/7500
BVH	(80°-90°)	105.9	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°	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5
2.5°	1679.9	1684.7	1682.7	1679.0	1679.0	1676.1	1679.0	1680.9	1683.8	1685.7	1684.7
5°	1657.7	1661.6	1660.6	1657.7	1658.7	1655.8	1657.7	1660.6	1662.6	1663.5	1663.5
7.5°	1638.5	1642.4	1640.4	1635.6	1635.6	1632.7	1633.6	1636.5	1639.5	1640.4	1640.4
10°	1633.6	1637.5	1631.7	1624.0	1621.1	1617.2	1618.3	1621.1	1626.9	1629.9	1629.9
12.5°	1635.6	1638.5	1632.7	1621.1	1618.3	1614.4	1614.4	1617.2	1625.0	1628.8	1629.9
15°	1641.3	1644.3	1635.6	1623.1	1620.2	1617.2	1616.3	1620.2	1628.8	1635.6	1636.5
17.5°	1652.0	1654.9	1641.3	1624.0	1620.2	1621.1	1620.2	1623.1	1636.5	1649.1	1649.1
20°	1661.6	1663.5	1645.2	1624.0	1620.2	1621.1	1620.2	1626.0	1643.3	1660.6	1661.6
22.5°	1664.5	1666.4	1649.1	1630.8	1627.9	1628.8	1627.9	1633.6	1650.0	1667.4	1667.4
25°	1665.4	1668.3	1654.9	1640.4	1645.2	1647.2	1645.2	1646.2	1658.7	1674.1	1673.1
27.5°	1679.9	1683.8	1671.3	1658.7	1661.6	1660.6	1663.5	1666.4	1676.1	1691.5	1687.6
30°	1709.8	1712.7	1702.0	1689.5	1687.6	1680.9	1689.5	1699.1	1709.8	1723.2	1720.4
32.5°	1758.9	1764.6	1751.2	1737.7	1729.0	1725.2	1731.9	1748.2	1762.7	1777.1	1771.4
35°	1840.8	1844.6	1832.1	1807.1	1791.6	1791.6	1797.4	1818.6	1841.7	1860.1	1853.3
37.5°	1956.3	1961.1	1939.0	1909.2	1886.0	1886.0	1893.7	1915.9	1950.6	1976.6	1967.0
40°	2096.9	2103.7	2075.8	2045.0	2022.8	2018.9	2028.6	2053.6	2086.4	2119.1	2108.5
42.5°	2266.5	2274.2	2237.6	2210.6	2193.3	2193.3	2198.1	2221.3	2251.1	2291.6	2288.6
45°	2483.3	2496.7	2446.7	2419.7	2403.3	2407.1	2410.1	2430.3	2457.2	2503.5	2501.5
47.5°	2741.4	2754.9	2701.9	2673.9	2671.0	2689.4	2677.8	2692.3	2706.7	2759.7	2744.2
50°	3034.2	3057.4	3020.8	3018.8	3024.6	3058.3	3031.3	3039.0	3022.6	3056.3	3036.2
52.5°	3392.5	3426.3	3419.5	3431.1	3495.7	3565.0	3503.3	3476.4	3414.7	3425.2	3389.7
55°	3826.9	3878.0	3887.6	3957.0	4103.4	4245.0	4114.0	4005.2	3874.2	3850.1	3812.5
57.5°	4321.1	4361.6	4407.8	4549.4	4822.9	5074.4	4822.9	4582.2	4376.0	4326.9	4292.2
60°	4852.9	4902.9	4947.3	5156.3	5562.8	5916.2	5555.0	5172.7	4900.0	4833.6	4775.8
62.5°	5424.0	5488.6	5519.4	5751.5	6225.4	6647.3	6232.2	5768.9	5466.4	5395.1	5337.4
65°	5972.1	6025.1	6059.8	6307.3	6760.1	7182.9	6790.8	6334.3	6023.2	5929.7	5883.5
67.5°	6227.4	6256.3	6341.1	6621.3	7099.2	7581.7	7180.0	6651.2	6303.4	6139.7	6141.6
70°	5853.7	5794.8	5999.1	6448.0	7139.5	7826.4	7232.0	6434.4	6008.8	5742.9	5806.4
72.5°	4523.4	4422.3	4776.7	5544.4	6677.2	7670.3	6723.5	5587.8	4997.3	4457.9	4591.8
75°	2461.1	2346.4	2835.8	3806.7	5324.8	6648.3	5447.2	3915.6	3157.5	2442.8	2601.8
77.5°	694.5	651.2	1046.1	1841.7	3202.8	4667.8	3326.1	1882.2	1240.7	735.9	817.7
80°	212.9	206.1	279.3	554.8	1360.1	2235.7	1307.1	561.6	355.5	224.5	237.0
82.5°	126.2	115.6	138.7	202.2	346.8	702.2	337.1	210.9	169.5	113.7	123.3
85°	72.3	67.4	81.9	98.3	116.5	149.3	97.3	100.1	90.5	60.7	63.6
87.5°	29.8	27.0	31.8	30.9	27.0	34.6	26.0	30.9	36.6	24.1	22.1
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)