

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: P959812

Luminaire Tested: **NAV-SB1B-735-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959812
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-SB1B-735-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: -

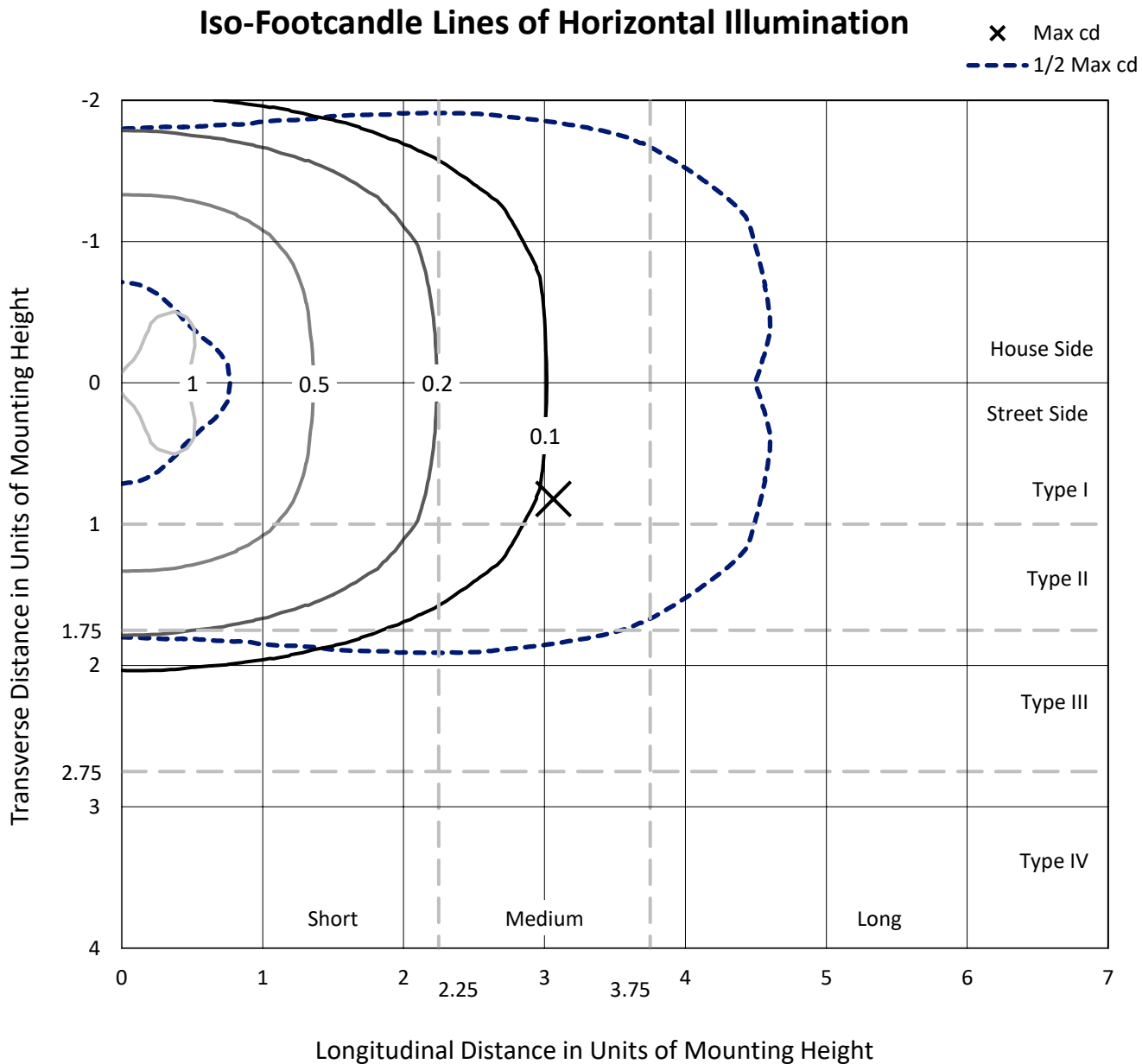
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5945 lumens
Efficiency: N/A
Efficacy: 149.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 39.8
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



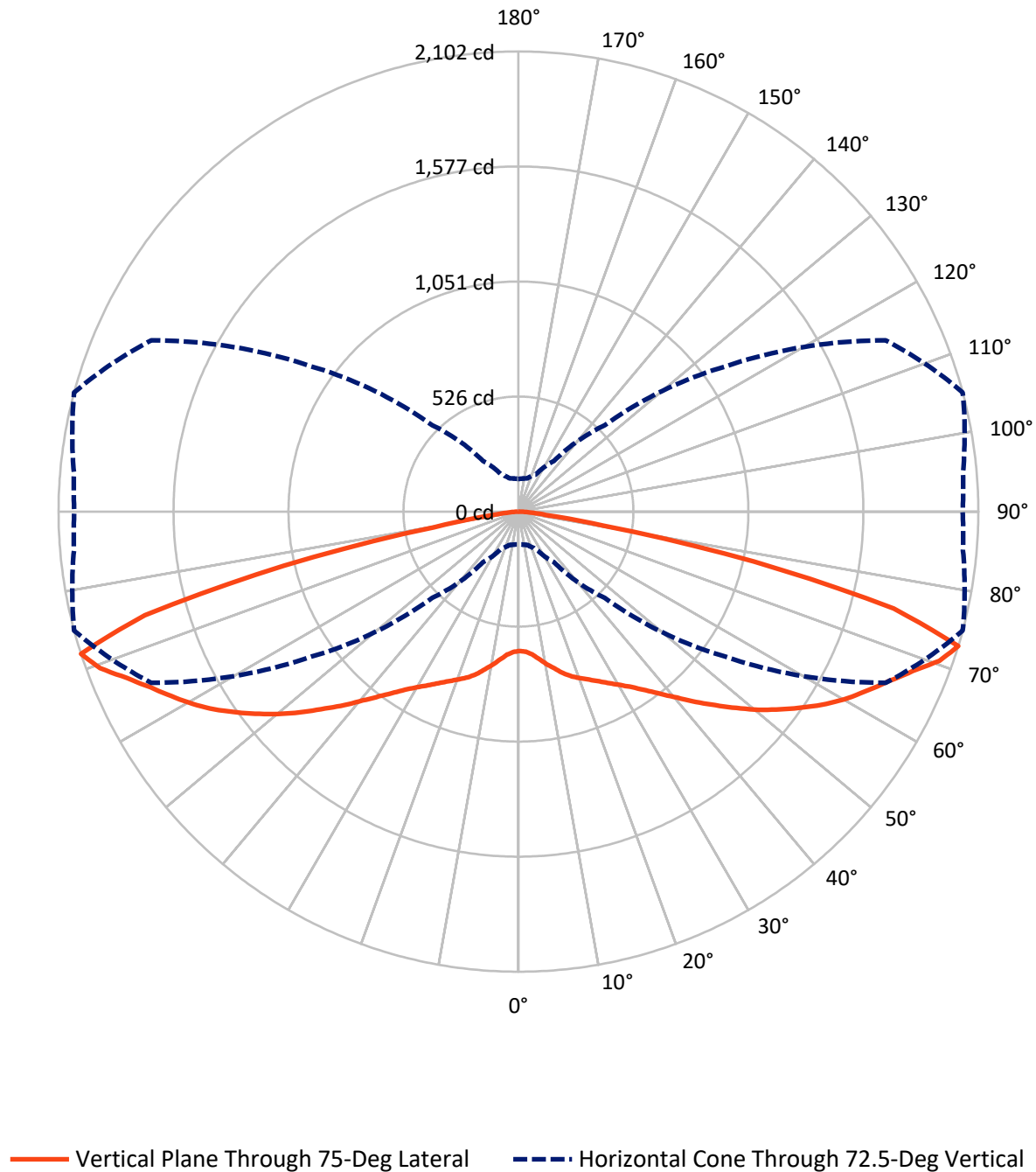
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Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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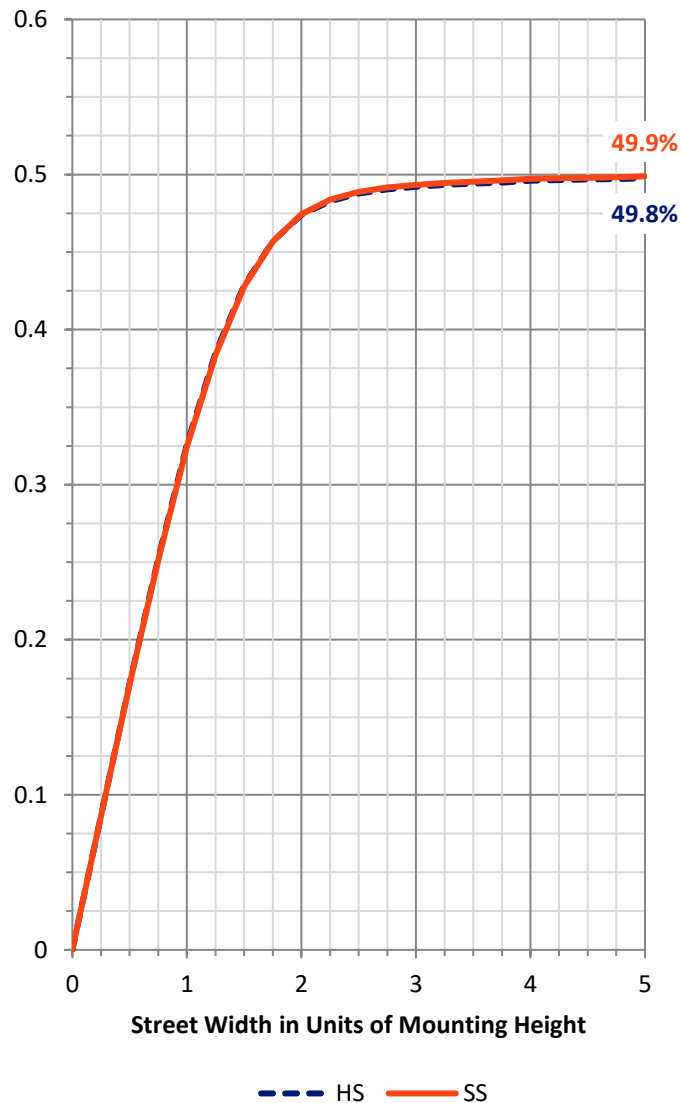
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2972.5	0.0	2972.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2972.5	0.0	2972.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5945.0	0.0	5945.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.4	1.0
10°-20°	205.7	3.5
20°-30°	397.6	6.7
30°-40°	671.3	11.3
40°-50°	1064.6	17.9
50°-60°	1425.4	24.0
60°-70°	1356.5	22.8
70°-80°	707.9	11.9
80°-90°	53.6	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°	5945.0	100.0
0°-180°	5945.0	100.0

Coefficient of Utilization



REPORT NUMBER: P959812

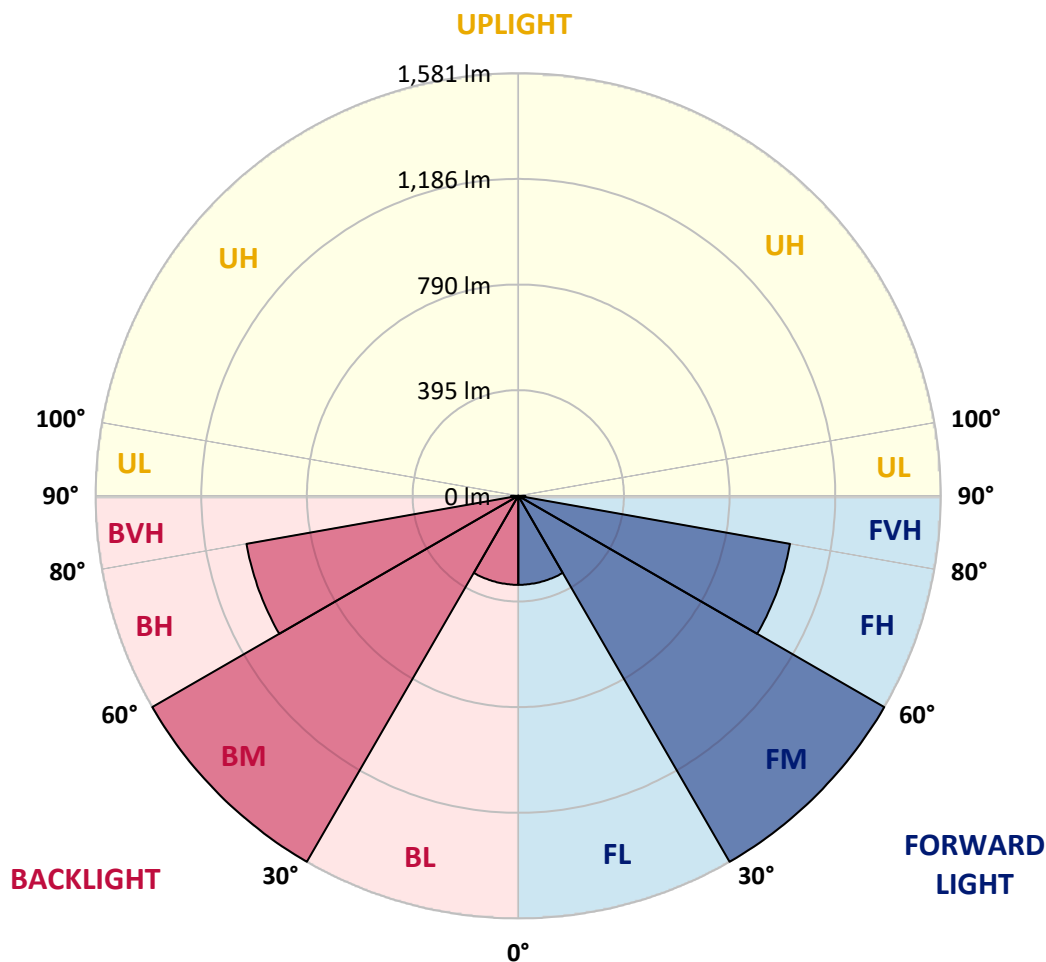
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	332.8	5.6			
FM	(30°-60°)	1580.7	26.6			
FH	(60°-80°)	1032.2	17.4			G1/1800
FVH	(80°-90°)	26.8	0.5			G1/100
BL	(0°-30°)	332.8	5.6	B1/500		
BM	(30°-60°)	1580.7	26.6	B2/2500		
BH	(60°-80°)	1032.2	17.4	B3/2500		G3/2500
BVH	(80°-90°)	26.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8
2.5°	636.8	636.2	636.8	637.4	637.1	637.1	638.7	639.5	641.3	641.0	640.7
5°	632.5	632.2	634.7	637.4	639.5	643.2	647.7	651.1	655.3	656.2	656.2
7.5°	630.5	629.6	633.8	638.7	645.3	654.5	663.2	672.3	679.6	682.0	682.6
10°	631.9	632.2	638.1	647.2	657.7	670.6	683.0	698.4	708.8	711.1	713.6
12.5°	639.0	638.4	648.0	662.7	677.2	693.3	707.9	724.9	736.1	741.8	744.3
15°	651.7	650.5	664.1	685.7	706.9	725.8	737.6	753.7	766.7	774.0	776.7
17.5°	666.9	667.5	685.4	713.3	741.3	762.5	773.7	781.9	791.9	798.3	801.3
20°	693.6	694.7	714.8	747.9	779.8	804.1	813.1	810.2	812.8	817.7	821.3
22.5°	729.4	730.0	752.5	788.3	821.6	848.4	854.4	842.0	834.5	837.7	840.2
25°	771.0	774.9	797.3	834.1	868.4	893.9	896.7	877.8	859.1	859.9	861.4
27.5°	821.6	825.3	848.1	884.5	919.4	941.6	941.3	916.0	888.5	881.5	883.6
30°	876.6	880.6	903.9	941.6	974.1	993.4	989.2	959.2	919.7	906.6	908.2
32.5°	941.9	944.3	968.0	1005.6	1035.7	1051.1	1042.3	1005.3	956.1	941.3	944.9
35°	1020.8	1024.4	1042.0	1077.6	1103.9	1116.7	1101.9	1058.1	1002.9	986.2	988.6
37.5°	1110.9	1108.5	1128.5	1160.1	1181.9	1189.8	1169.5	1117.7	1056.3	1036.6	1040.2
40°	1205.0	1203.9	1225.7	1256.0	1267.8	1272.7	1242.7	1185.9	1118.0	1096.6	1103.6
42.5°	1290.4	1289.4	1318.9	1352.6	1366.8	1361.3	1323.4	1258.5	1189.2	1165.0	1171.1
45°	1358.6	1357.4	1393.5	1440.8	1468.8	1459.7	1408.7	1338.5	1261.5	1236.3	1242.1
47.5°	1411.1	1411.7	1450.6	1509.2	1558.0	1561.4	1495.8	1420.2	1341.0	1312.5	1321.0
50°	1449.0	1450.9	1492.5	1557.5	1624.2	1653.6	1584.8	1504.0	1423.3	1391.1	1400.8
52.5°	1458.5	1461.9	1511.9	1588.1	1666.8	1722.8	1675.2	1584.4	1501.3	1470.7	1478.6
55°	1408.5	1415.1	1478.6	1585.7	1692.8	1768.4	1754.7	1666.1	1579.9	1548.4	1557.2
57.5°	1293.3	1302.8	1376.9	1516.8	1687.0	1799.7	1816.4	1744.4	1658.6	1628.1	1635.2
60°	1132.2	1143.4	1214.4	1367.1	1605.7	1811.2	1859.8	1820.6	1730.7	1701.3	1707.6
62.5°	889.1	903.6	988.6	1167.7	1433.9	1757.5	1896.8	1889.5	1795.7	1759.0	1763.2
65°	570.3	585.8	675.4	886.9	1204.7	1593.0	1908.3	1956.6	1864.3	1813.0	1819.4
67.5°	343.9	350.9	395.2	537.5	880.6	1345.0	1810.6	2030.9	1944.4	1880.7	1885.6
70°	220.1	224.0	250.4	315.7	497.8	981.3	1568.4	2044.9	2041.6	1950.2	1949.7
72.5°	149.3	150.6	157.5	187.0	281.7	557.6	1156.8	1851.3	2102.3	2039.7	2030.0
75°	109.3	115.9	127.2	132.3	160.0	278.6	663.0	1300.6	1771.7	1799.1	1732.9
77.5°	81.4	81.7	97.2	103.2	114.1	148.4	280.4	726.0	1100.0	1155.0	1030.2
80°	68.9	65.3	65.0	83.1	85.9	92.6	125.4	250.7	394.0	238.9	180.6
82.5°	57.4	53.4	48.3	65.0	58.6	56.8	54.3	102.0	125.4	61.6	52.5
85°	40.1	38.2	36.4	42.5	33.4	28.5	26.1	47.7	52.8	26.1	23.1
87.5°	17.3	17.9	18.2	18.9	13.9	10.0	10.0	13.3	13.3	10.4	7.6
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)