

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: P961544

Luminaire Tested: **NAV-SB2A-830-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961544
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-SB2A-830-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8658.2 lumens
Efficiency: N/A
Efficacy: 151.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 57.3
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

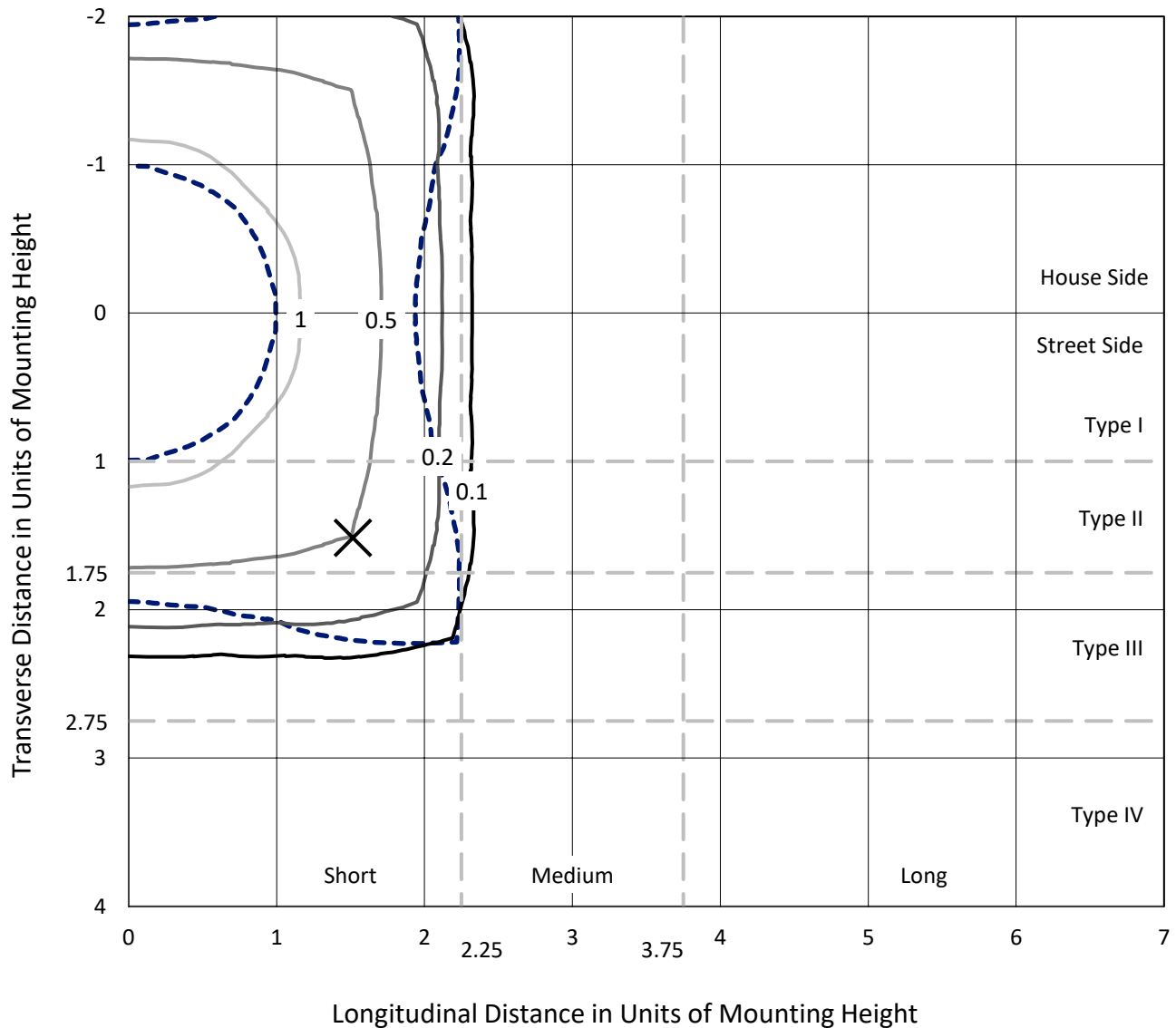


REPORT NUMBER: P961544

CATALOG NUMBER: NAV-SB2A-830-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

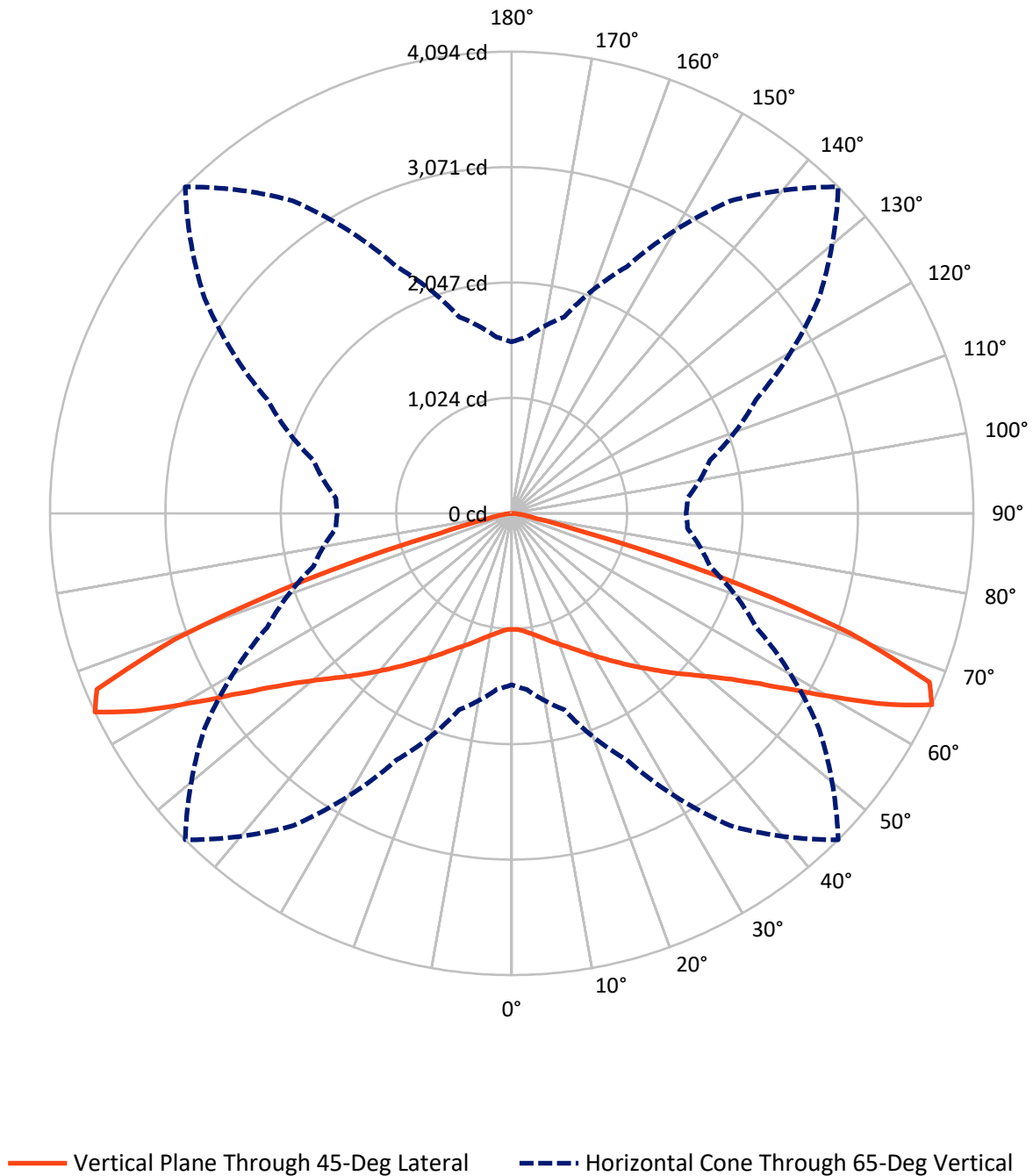
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type V - Short - N/A

REPORT NUMBER: P961544
CATALOG NUMBER: NAV-SB2A-830-U-5NQ

Luminous Intensity Polar Plot



REPORT NUMBER: P961544

CATALOG NUMBER: NAV-SB2A-830-U-5NQ

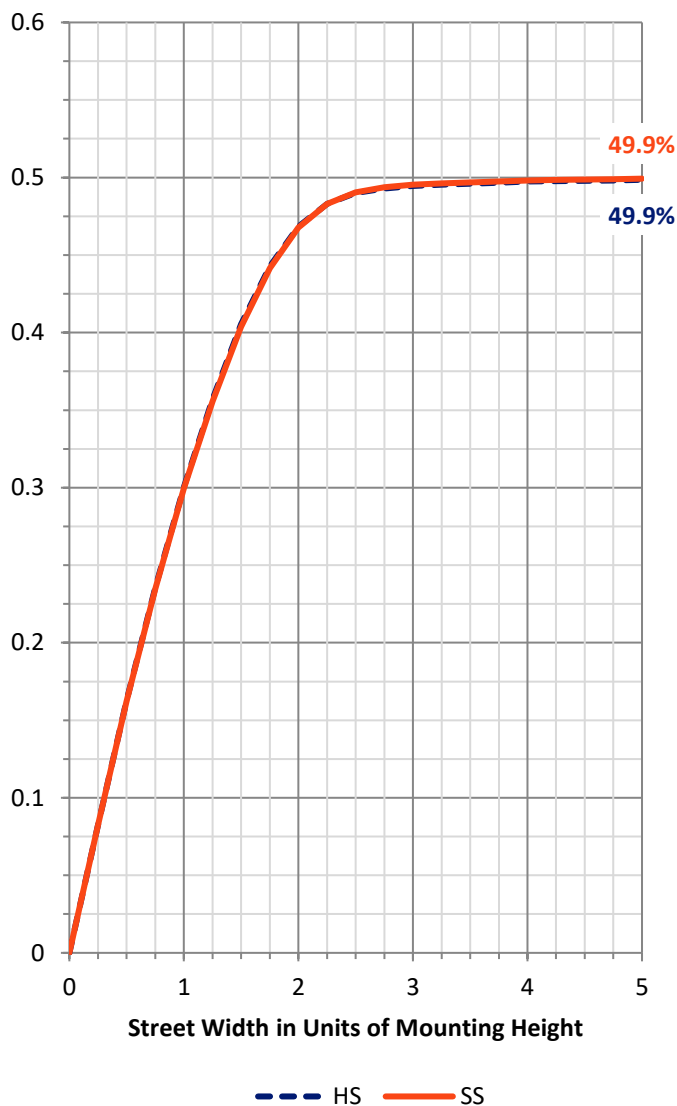
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4329.1	0.0	4329.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4329.1	0.0	4329.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	8658.2	0.0	8658.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	1.2
10°-20°	331.8	3.8
20°-30°	626.5	7.2
30°-40°	1025.9	11.8
40°-50°	1590.7	18.4
50°-60°	2349.8	27.1
60°-70°	2236.8	25.8
70°-80°	360.9	4.2
80°-90°	34.0	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°	8658.2	100.0
0°-180°	8658.2	100.0

Coefficient of Utilization



REPORT NUMBER: P961544

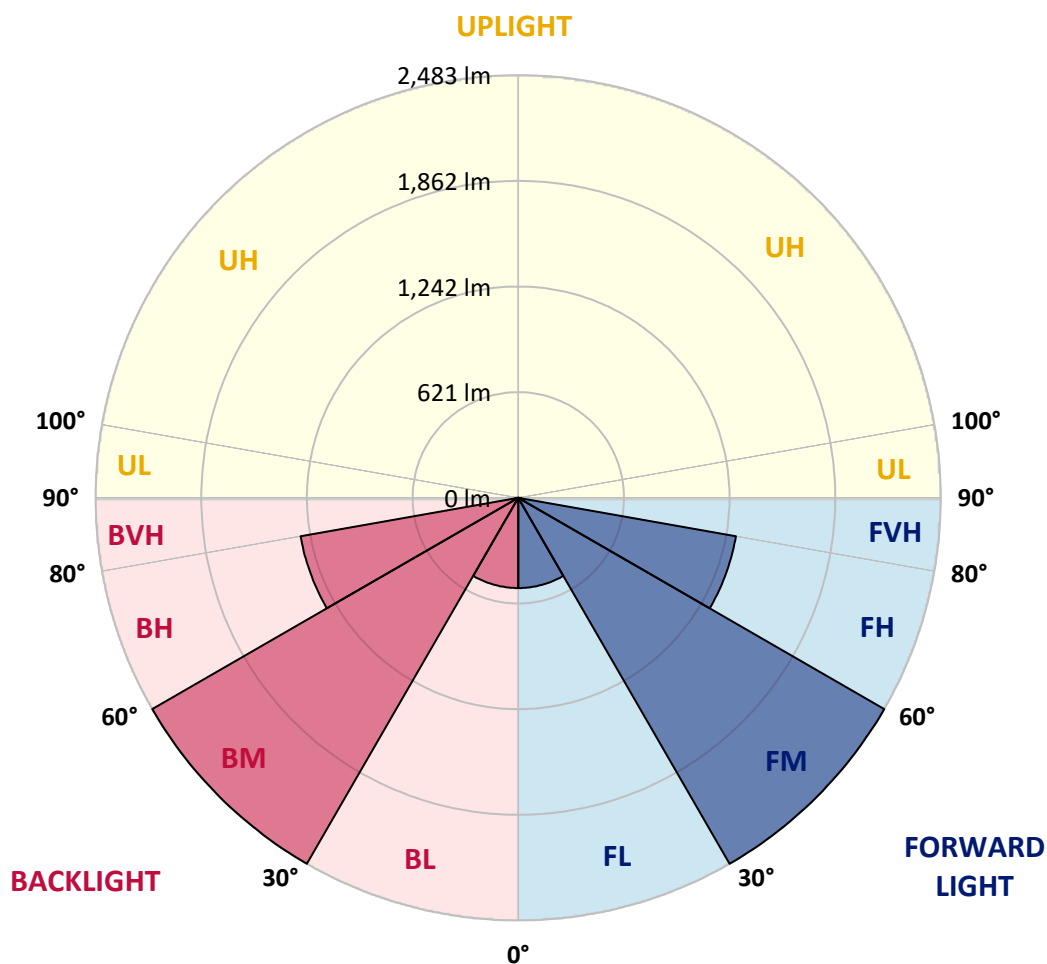
CATALOG NUMBER: NAV-SB2A-830-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	530.0	6.1			
FM	(30°-60°)	2483.2	28.7			
FH	(60°-80°)	1298.9	15.0			G1/1800
FVH	(80°-90°)	17.0	0.2			G1/100
BL	(0°-30°)	530.0	6.1	B2/1000		
BM	(30°-60°)	2483.2	28.7	B2/2500		
BH	(60°-80°)	1298.9	15.0	B3/2500		G1/1800
BVH	(80°-90°)	17.0	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-G1

Type V Short



REPORT NUMBER: P961544

CATALOG NUMBER: NAV-SB2A-830-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1030.4	1030.4	1030.4	1030.4	1030.4	1030.4	1030.4	1030.4	1030.4	1030.4	1030.4
2.5°	1037.4	1033.9	1036.5	1034.3	1032.6	1030.8	1031.7	1034.7	1036.1	1036.5	1036.5
5°	1051.2	1048.3	1049.5	1049.5	1046.5	1045.6	1046.0	1048.3	1050.8	1050.8	1050.8
7.5°	1073.9	1070.8	1073.9	1072.1	1069.5	1068.7	1068.2	1069.9	1073.9	1073.9	1072.6
10°	1101.3	1097.8	1099.5	1098.6	1095.5	1094.3	1093.9	1096.4	1099.9	1099.5	1098.6
12.5°	1131.2	1127.3	1129.4	1126.9	1126.0	1124.6	1124.6	1124.2	1126.4	1124.6	1125.6
15°	1164.6	1162.0	1162.9	1161.1	1162.5	1161.6	1158.1	1156.4	1157.2	1154.7	1155.1
17.5°	1204.2	1198.1	1201.1	1200.3	1200.3	1202.0	1196.4	1194.2	1195.9	1193.3	1195.5
20°	1249.8	1243.7	1245.0	1243.2	1241.1	1242.8	1235.8	1237.6	1238.9	1237.2	1241.1
22.5°	1299.7	1291.9	1291.5	1292.3	1287.6	1288.0	1283.2	1287.6	1290.2	1285.5	1290.2
25°	1350.9	1342.7	1348.4	1346.2	1340.2	1341.4	1337.9	1342.3	1344.5	1338.4	1345.3
27.5°	1405.3	1399.6	1404.9	1406.2	1398.8	1404.0	1398.8	1402.7	1404.9	1395.7	1402.7
30°	1468.7	1463.1	1467.9	1471.3	1462.7	1470.9	1466.6	1469.1	1469.5	1458.8	1465.2
32.5°	1537.8	1529.1	1541.3	1543.0	1533.4	1543.4	1537.8	1541.3	1543.4	1528.7	1538.6
35°	1622.1	1611.2	1625.1	1623.0	1614.7	1623.0	1617.8	1623.0	1628.1	1610.4	1621.2
37.5°	1712.9	1701.6	1716.4	1712.5	1704.6	1710.2	1707.2	1710.7	1718.9	1699.9	1711.5
40°	1812.8	1798.9	1818.9	1811.9	1804.5	1803.7	1805.4	1807.6	1818.5	1797.1	1804.1
42.5°	1919.6	1904.9	1934.9	1924.0	1913.6	1906.6	1912.2	1916.6	1927.0	1903.1	1915.7
45°	2041.7	2024.8	2063.8	2050.8	2034.3	2020.0	2029.1	2035.6	2050.8	2022.1	2036.9
47.5°	2176.4	2157.2	2198.9	2195.0	2168.1	2136.8	2157.7	2176.4	2187.7	2152.9	2164.6
50°	2308.0	2293.2	2348.0	2352.8	2319.7	2275.8	2304.9	2333.2	2336.3	2290.7	2296.3
52.5°	2431.4	2416.6	2496.1	2526.1	2496.5	2444.4	2475.3	2503.9	2480.9	2421.8	2423.5
55°	2530.0	2517.8	2619.1	2696.4	2706.3	2663.4	2681.6	2680.7	2605.1	2514.3	2517.4
57.5°	2553.9	2552.1	2679.9	2843.7	2947.9	2953.1	2917.0	2824.9	2662.0	2540.0	2532.2
60°	2445.2	2456.1	2631.6	2920.5	3198.5	3314.0	3158.1	2895.3	2597.4	2427.9	2407.9
62.5°	2120.3	2149.0	2360.6	2826.6	3401.0	3729.4	3351.4	2788.4	2331.5	2110.4	2097.4
65°	1519.6	1569.5	1803.2	2412.2	3382.7	4094.3	3323.7	2392.7	1820.6	1565.6	1546.9
67.5°	689.4	740.3	938.8	1651.6	2940.5	3995.2	2933.5	1669.0	985.6	742.8	732.0
70°	249.8	258.5	322.4	661.1	1879.2	3183.3	1959.6	665.9	342.8	275.4	271.9
72.5°	151.2	152.5	165.9	236.8	652.9	1932.6	680.7	244.6	169.4	150.3	152.9
75°	96.0	95.1	118.2	144.6	231.5	652.0	242.8	144.6	117.8	107.3	108.1
77.5°	69.1	71.2	84.7	108.1	146.0	221.1	143.4	103.4	84.7	69.5	70.8
80°	51.7	53.0	61.7	84.3	102.5	137.7	91.2	76.5	63.9	43.5	44.8
82.5°	37.3	37.3	40.4	61.3	62.5	74.3	49.5	53.9	42.1	30.9	30.9
85°	22.1	21.7	25.2	36.5	32.6	27.4	22.5	33.0	26.5	19.1	18.7
87.5°	7.8	8.3	7.8	10.5	8.7	7.4	7.0	9.1	7.4	6.6	6.0
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)