

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: P962070

Luminaire Tested: **NAV-SB2B-830-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-830-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10861.9 lumens
Efficiency: N/A
Efficacy: 147.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

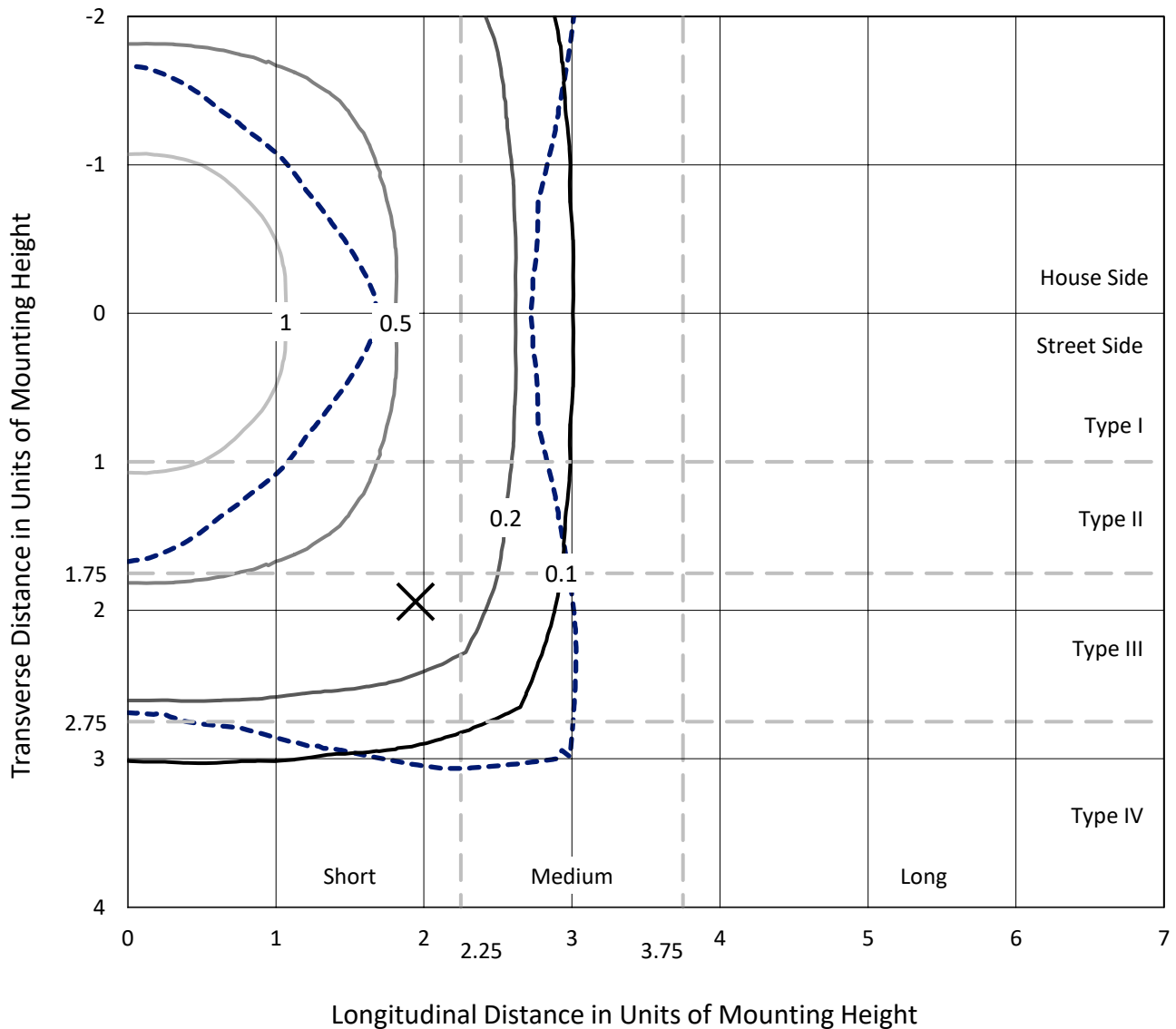
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

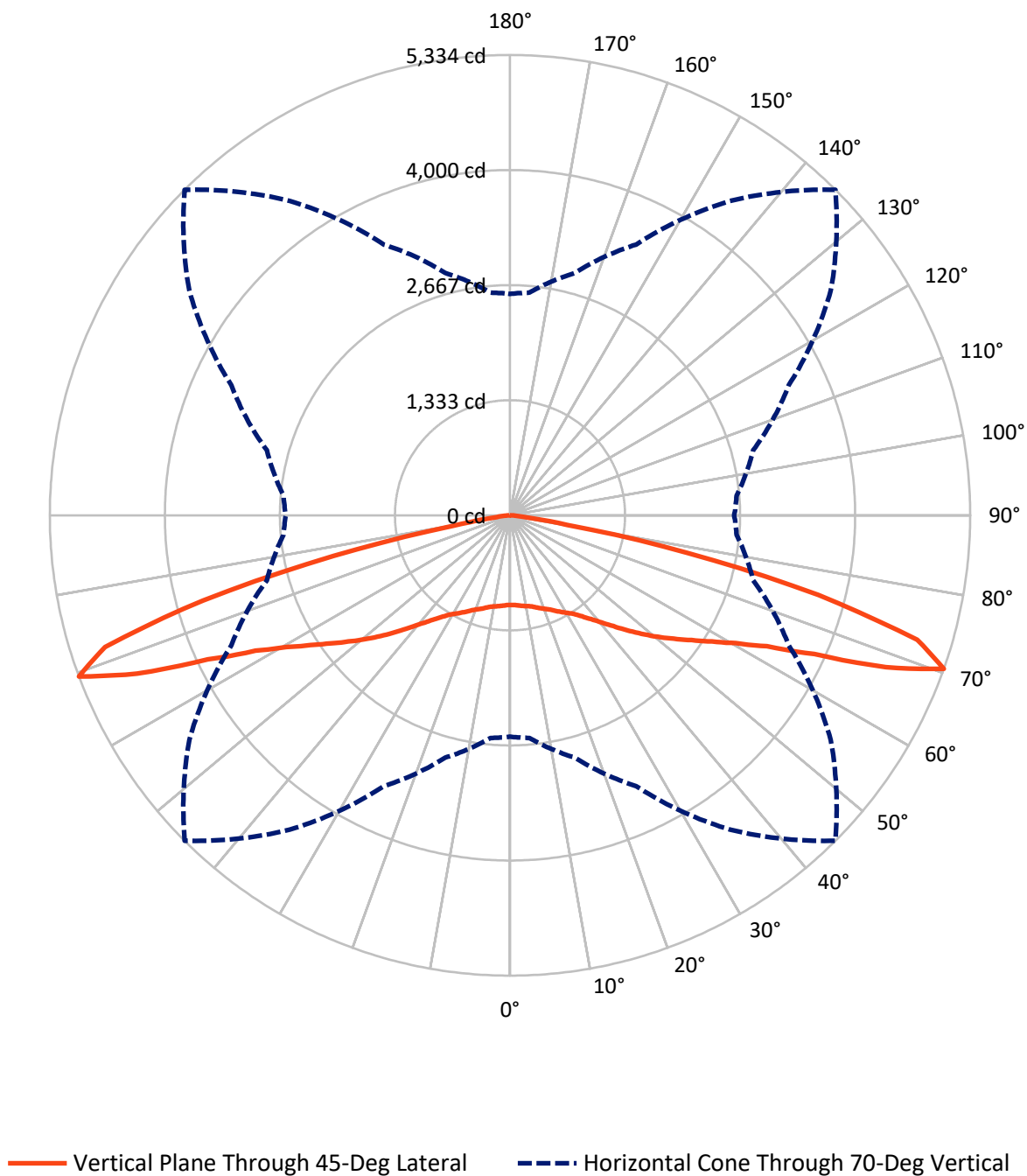


Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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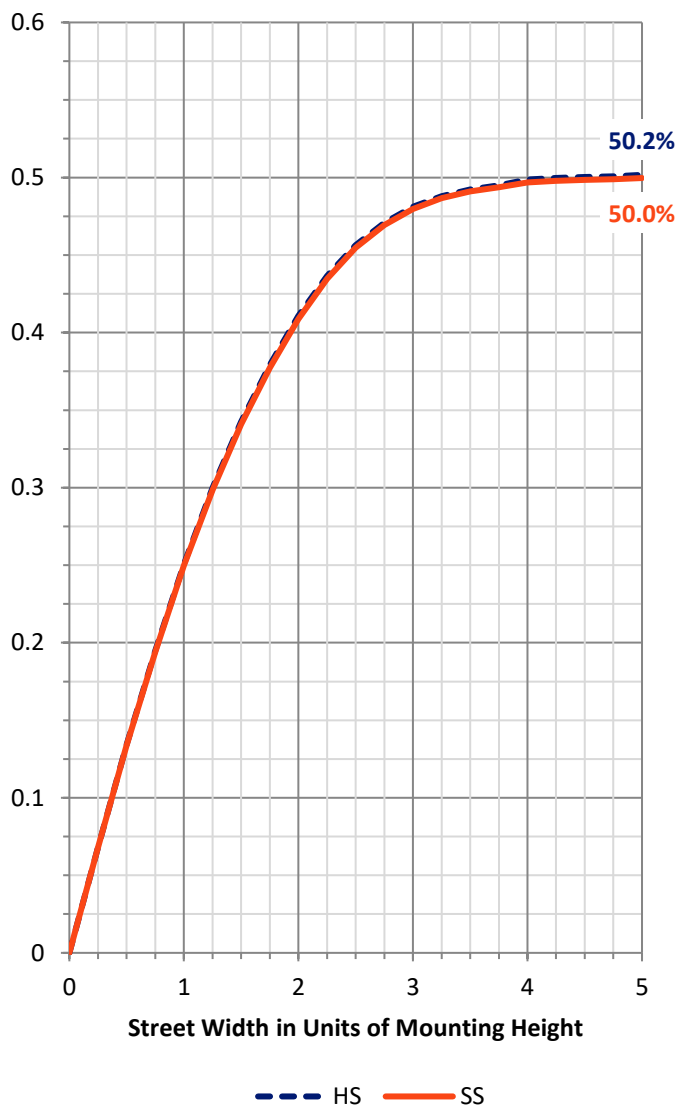
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5431.0	0.0	5431.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5431.0	0.0	5431.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10861.9	0.0	10861.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	0.9
10°-20°	313.4	2.9
20°-30°	560.2	5.2
30°-40°	908.0	8.4
40°-50°	1479.0	13.6
50°-60°	2255.0	20.8
60°-70°	3354.7	30.9
70°-80°	1828.4	16.8
80°-90°	62.3	0.6
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°	10861.9	100.0
0°-180°	10861.9	100.0

Coefficient of Utilization



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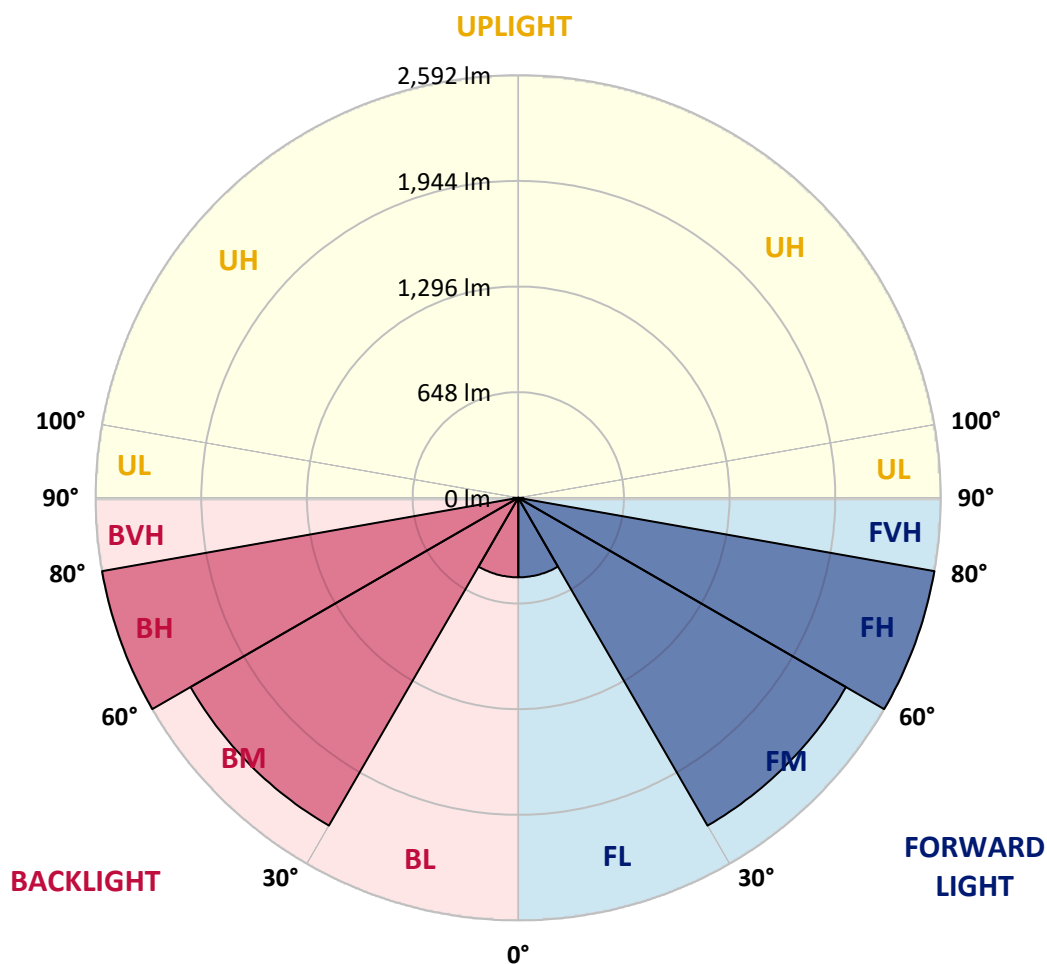
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	487.3	4.5			
FM	(30°-60°)	2321.0	21.4			
FH	(60°-80°)	2591.5	23.9			G2/5000
FVH	(80°-90°)	31.1	0.3			G1/100
BL	(0°-30°)	487.3	4.5	B1/500		
BM	(30°-60°)	2321.0	21.4	B2/2500		
BH	(60°-80°)	2591.5	23.9	B4/5000		G2/5000
BVH	(80°-90°)	31.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1040.5	1040.5	1040.5	1040.5	1040.5	1040.5	1040.5	1040.5	1040.5	1040.5	1040.5
2.5°	1045.4	1046.4	1044.3	1043.1	1042.1	1040.5	1041.0	1043.8	1045.9	1045.4	1045.9
5°	1054.1	1055.1	1053.6	1053.0	1050.8	1050.3	1050.3	1053.0	1054.6	1053.6	1054.1
7.5°	1063.9	1065.6	1062.8	1062.3	1061.2	1060.1	1059.5	1062.3	1063.9	1063.9	1063.9
10°	1073.2	1074.8	1072.7	1071.0	1069.9	1069.9	1068.8	1071.0	1073.7	1073.2	1073.2
12.5°	1083.0	1084.0	1081.9	1080.9	1080.9	1082.4	1080.9	1081.9	1084.0	1083.0	1082.4
15°	1095.0	1095.5	1095.0	1096.6	1099.3	1104.8	1099.9	1098.8	1099.9	1097.2	1097.2
17.5°	1111.3	1112.4	1114.6	1118.5	1122.3	1132.1	1123.3	1120.6	1120.6	1115.2	1115.2
20°	1131.5	1133.1	1136.4	1143.0	1147.9	1157.1	1148.4	1144.6	1143.0	1135.9	1135.9
22.5°	1152.8	1155.5	1160.4	1169.1	1177.9	1186.6	1177.9	1171.4	1166.4	1157.1	1156.6
25°	1177.3	1180.6	1188.3	1202.4	1214.4	1226.9	1216.6	1203.6	1193.7	1180.6	1180.1
27.5°	1212.3	1216.1	1225.3	1242.8	1258.1	1268.9	1259.1	1242.2	1228.6	1212.8	1212.3
30°	1261.3	1265.2	1276.0	1294.6	1304.9	1312.0	1305.4	1292.4	1276.0	1258.1	1258.1
32.5°	1324.6	1329.5	1341.5	1358.9	1361.1	1362.2	1360.0	1353.5	1341.5	1319.7	1320.2
35°	1404.8	1410.2	1423.8	1438.0	1435.8	1438.0	1434.7	1432.5	1423.8	1398.7	1398.7
37.5°	1502.9	1509.4	1523.6	1534.5	1529.1	1526.3	1526.8	1527.5	1522.5	1494.8	1494.8
40°	1616.8	1625.5	1635.9	1647.4	1638.2	1630.0	1635.4	1639.8	1635.4	1607.0	1607.0
42.5°	1734.1	1746.6	1757.6	1773.9	1766.3	1755.9	1763.5	1768.4	1759.2	1728.7	1730.8
45°	1864.5	1876.5	1890.6	1915.1	1909.7	1898.8	1909.7	1910.8	1894.9	1858.9	1862.8
47.5°	1999.2	2011.7	2032.9	2065.7	2063.4	2051.4	2065.7	2058.0	2037.8	1994.8	1992.0
50°	2126.8	2144.2	2176.9	2222.7	2227.0	2212.4	2231.4	2216.7	2182.9	2128.9	2127.8
52.5°	2246.7	2265.2	2317.0	2379.2	2395.0	2376.0	2401.6	2376.0	2325.2	2255.9	2249.5
55°	2372.7	2393.4	2455.0	2536.3	2567.9	2553.7	2577.7	2539.0	2467.0	2383.0	2371.5
57.5°	2521.0	2533.5	2607.2	2703.6	2757.1	2760.4	2771.3	2705.9	2618.6	2523.1	2510.1
60°	2681.8	2699.3	2779.5	2895.1	2979.6	3006.8	2995.5	2898.4	2796.9	2687.3	2669.8
62.5°	2887.9	2907.1	3003.0	3141.5	3275.2	3342.7	3298.0	3157.4	3032.0	2900.5	2877.6
65°	3058.7	3079.9	3253.4	3500.4	3743.6	3879.3	3767.1	3508.0	3282.3	3096.8	3066.3
67.5°	2934.9	2961.0	3233.2	3686.8	4291.7	4696.8	4312.4	3742.5	3300.2	3048.9	3011.2
70°	2565.2	2589.7	2907.1	3461.6	4445.9	5333.7	4538.7	3563.6	2917.5	2636.1	2598.4
72.5°	1703.0	1782.1	2103.3	2768.5	3969.9	4935.7	4009.2	2712.4	1951.1	1699.2	1644.1
75°	565.0	628.2	847.4	1435.3	2659.0	3691.2	2531.3	1270.1	671.3	483.2	456.9
77.5°	142.4	164.1	226.3	410.6	1060.7	2101.7	954.9	335.4	182.7	127.6	114.0
80°	69.3	76.4	109.1	136.8	265.6	668.0	249.2	128.7	86.2	66.5	61.1
82.5°	38.1	38.7	61.6	77.4	98.7	172.8	102.5	75.2	49.6	40.4	40.4
85°	23.5	22.9	32.7	41.4	41.4	61.6	49.1	41.4	28.4	25.1	26.1
87.5°	9.2	9.2	12.0	13.1	11.5	15.8	12.5	13.6	10.9	10.4	10.9
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)