

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: P962444

Luminaire Tested: **NAV-SB2C-735-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962444
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-SB2C-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15527.7 lumens
Efficiency: N/A
Efficacy: 153.9 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): 100.9
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



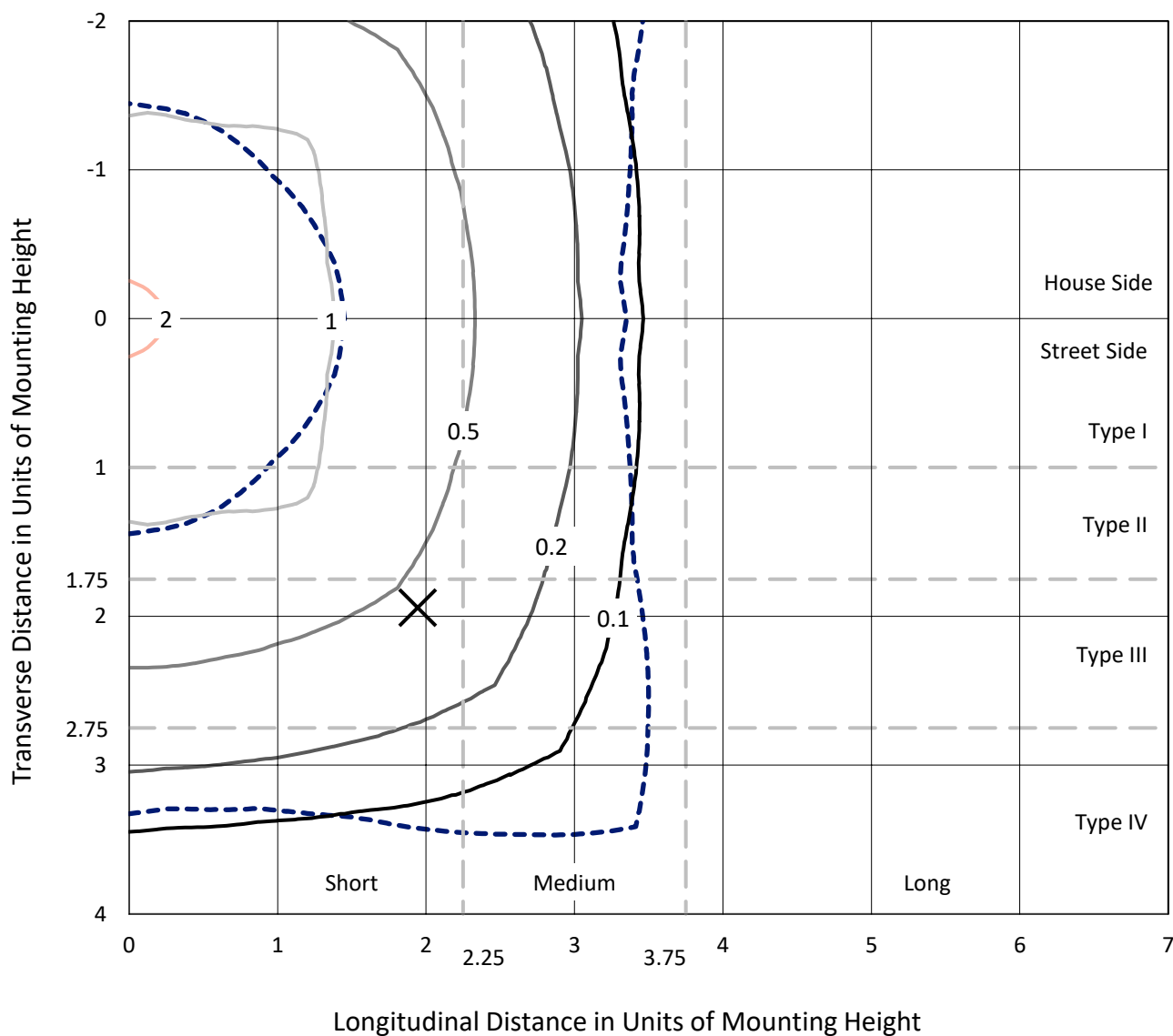
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

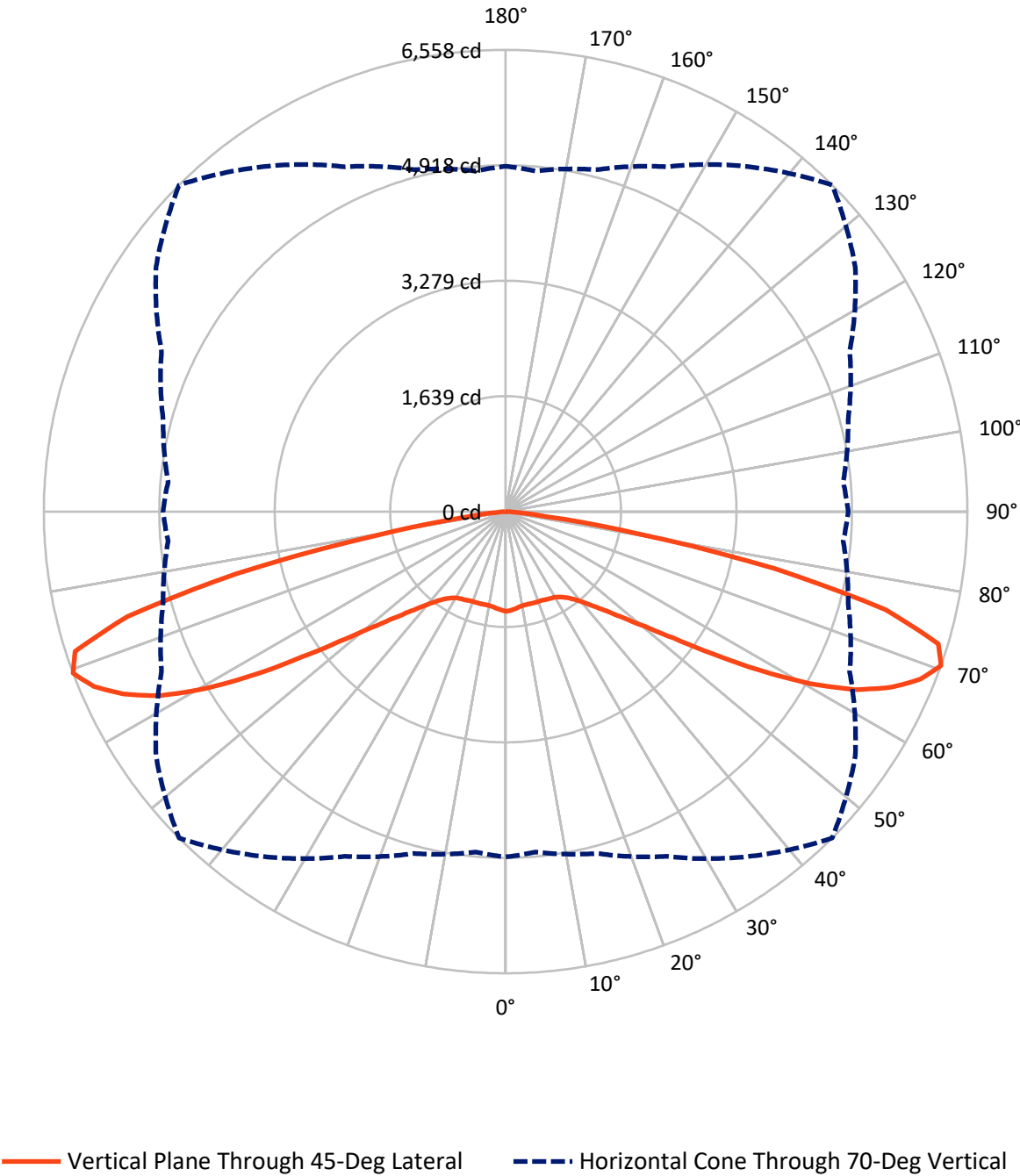


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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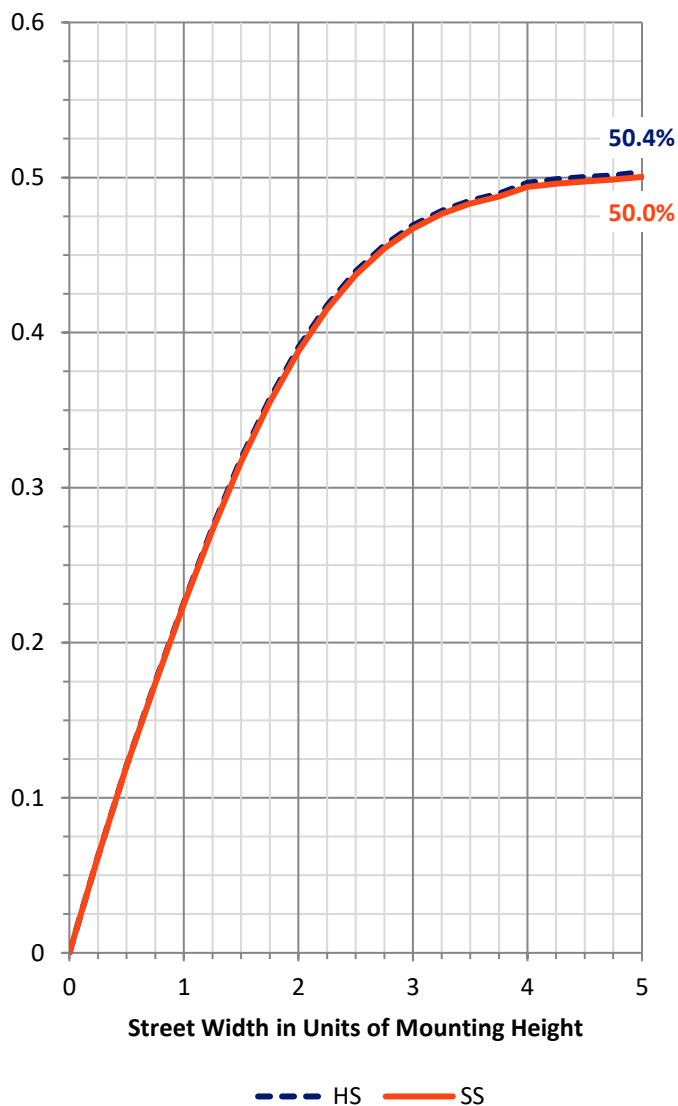
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7763.9	0.0	7763.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7763.9	0.0	7763.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	15527.7	0.0	15527.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.8	0.8
10°-20°	386.9	2.5
20°-30°	643.8	4.1
30°-40°	973.7	6.3
40°-50°	1618.0	10.4
50°-60°	3053.1	19.7
60°-70°	5155.3	33.2
70°-80°	3387.6	21.8
80°-90°	177.5	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°	15527.7	100.0
0°-180°	15527.7	100.0

Coefficient of Utilization



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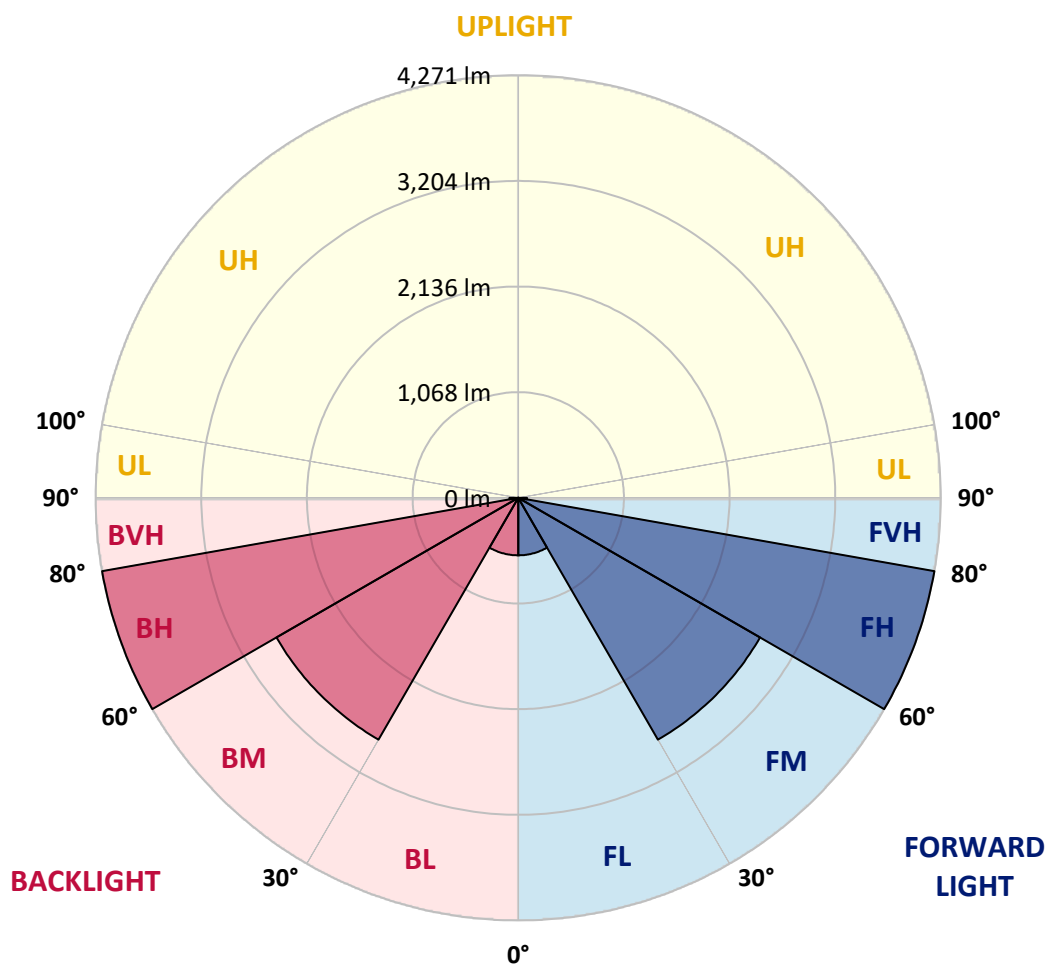
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	581.2	3.7			
FM	(30°-60°)	2822.4	18.2			
FH	(60°-80°)	4271.5	27.5			G2/5000
FVH	(80°-90°)	88.7	0.6			G1/100
BL	(0°-30°)	581.2	3.7	B2/1000		
BM	(30°-60°)	2822.4	18.2	B3/5000		
BH	(60°-80°)	4271.5	27.5	B4/5000		G2/5000
BVH	(80°-90°)	88.7	0.6			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°	1416.4	1416.4	1416.4	1416.4	1416.4	1416.4	1416.4	1416.4	1416.4	1416.4	1416.4
2.5°	1407.5	1411.6	1410.0	1406.7	1406.7	1404.4	1406.7	1408.4	1410.8	1412.4	1411.6
5°	1389.0	1392.3	1391.4	1389.0	1389.8	1387.3	1389.0	1391.4	1393.1	1393.8	1393.8
7.5°	1372.9	1376.1	1374.4	1370.4	1370.4	1368.0	1368.8	1371.2	1373.7	1374.4	1374.4
10°	1368.8	1372.1	1367.2	1360.8	1358.3	1355.2	1355.9	1358.3	1363.1	1365.6	1365.6
12.5°	1370.4	1372.9	1368.0	1358.3	1355.9	1352.7	1352.7	1355.2	1361.6	1364.8	1365.6
15°	1375.2	1377.7	1370.4	1360.0	1357.5	1355.2	1354.3	1357.5	1364.8	1370.4	1371.2
17.5°	1384.2	1386.6	1375.2	1360.8	1357.5	1358.3	1357.5	1360.0	1371.2	1381.7	1381.7
20°	1392.3	1393.8	1378.5	1360.8	1357.5	1358.3	1357.5	1362.3	1376.9	1391.4	1392.3
22.5°	1394.6	1396.3	1381.7	1366.4	1364.0	1364.8	1364.0	1368.8	1382.5	1397.1	1397.1
25°	1395.4	1397.9	1386.6	1374.4	1378.5	1380.2	1378.5	1379.3	1389.8	1402.7	1401.9
27.5°	1407.5	1410.8	1400.3	1389.8	1392.3	1391.4	1393.8	1396.3	1404.4	1417.3	1414.0
30°	1432.5	1435.0	1426.1	1415.6	1414.0	1408.4	1415.6	1423.7	1432.5	1443.9	1441.5
32.5°	1473.7	1478.6	1467.3	1456.0	1448.7	1445.5	1451.2	1464.8	1476.9	1489.1	1484.2
35°	1542.3	1545.6	1535.0	1514.1	1501.2	1501.2	1506.0	1523.8	1543.1	1558.5	1552.9
37.5°	1639.2	1643.3	1624.6	1599.6	1580.2	1580.2	1586.7	1605.3	1634.4	1656.2	1648.1
40°	1757.1	1762.7	1739.3	1713.5	1694.8	1691.7	1699.8	1720.7	1748.1	1775.6	1766.7
42.5°	1899.1	1905.6	1874.8	1852.3	1837.7	1837.7	1841.8	1861.2	1886.2	1920.0	1917.7
45°	2080.6	2092.0	2050.0	2027.4	2013.7	2016.9	2019.4	2036.3	2058.9	2097.7	2096.0
47.5°	2297.0	2308.3	2263.9	2240.4	2238.1	2253.4	2243.7	2255.8	2267.9	2312.3	2299.4
50°	2542.3	2561.7	2531.0	2529.4	2534.2	2562.5	2540.0	2546.4	2532.7	2560.9	2543.9
52.5°	2842.5	2870.8	2865.2	2874.8	2928.9	2987.1	2935.4	2912.7	2861.1	2870.0	2840.2
55°	3206.6	3249.4	3257.4	3315.6	3438.2	3556.9	3447.1	3355.8	3246.1	3226.0	3194.4
57.5°	3620.6	3654.5	3693.3	3811.9	4041.1	4251.7	4041.1	3839.3	3666.6	3625.4	3596.4
60°	4066.1	4108.1	4145.2	4320.4	4661.0	4957.1	4654.5	4334.1	4105.6	4050.0	4001.5
62.5°	4544.7	4598.8	4624.6	4819.1	5216.2	5569.7	5221.9	4833.7	4580.2	4520.5	4472.1
65°	5003.9	5048.3	5077.4	5284.8	5664.2	6018.5	5690.0	5307.4	5046.7	4968.5	4929.7
67.5°	5217.9	5242.1	5313.1	5547.9	5948.3	6352.6	6016.0	5572.9	5281.6	5144.4	5146.0
70°	4904.7	4855.4	5026.6	5402.7	5982.1	6557.6	6059.6	5391.4	5034.6	4811.9	4865.2
72.5°	3790.0	3705.4	4002.3	4645.6	5594.8	6426.9	5633.5	4681.9	4187.2	3735.2	3847.4
75°	2062.1	1966.1	2376.1	3189.6	4461.6	5570.6	4564.1	3280.8	2645.6	2046.8	2180.0
77.5°	581.9	545.6	876.5	1543.1	2683.6	3911.2	2786.9	1577.1	1039.6	616.6	685.2
80°	178.4	172.7	234.0	464.8	1139.6	1873.3	1095.2	470.6	297.9	188.1	198.5
82.5°	105.7	96.9	116.2	169.5	290.6	588.3	282.5	176.7	142.1	95.2	103.3
85°	60.6	56.5	68.6	82.3	97.7	125.0	81.5	83.9	75.8	50.8	53.3
87.5°	25.0	22.5	26.6	25.8	22.5	29.0	21.8	25.8	30.6	20.2	18.6
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)