

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P629312

Luminaire Tested: GWS-SA1B-735-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1B-735-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3604.5 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

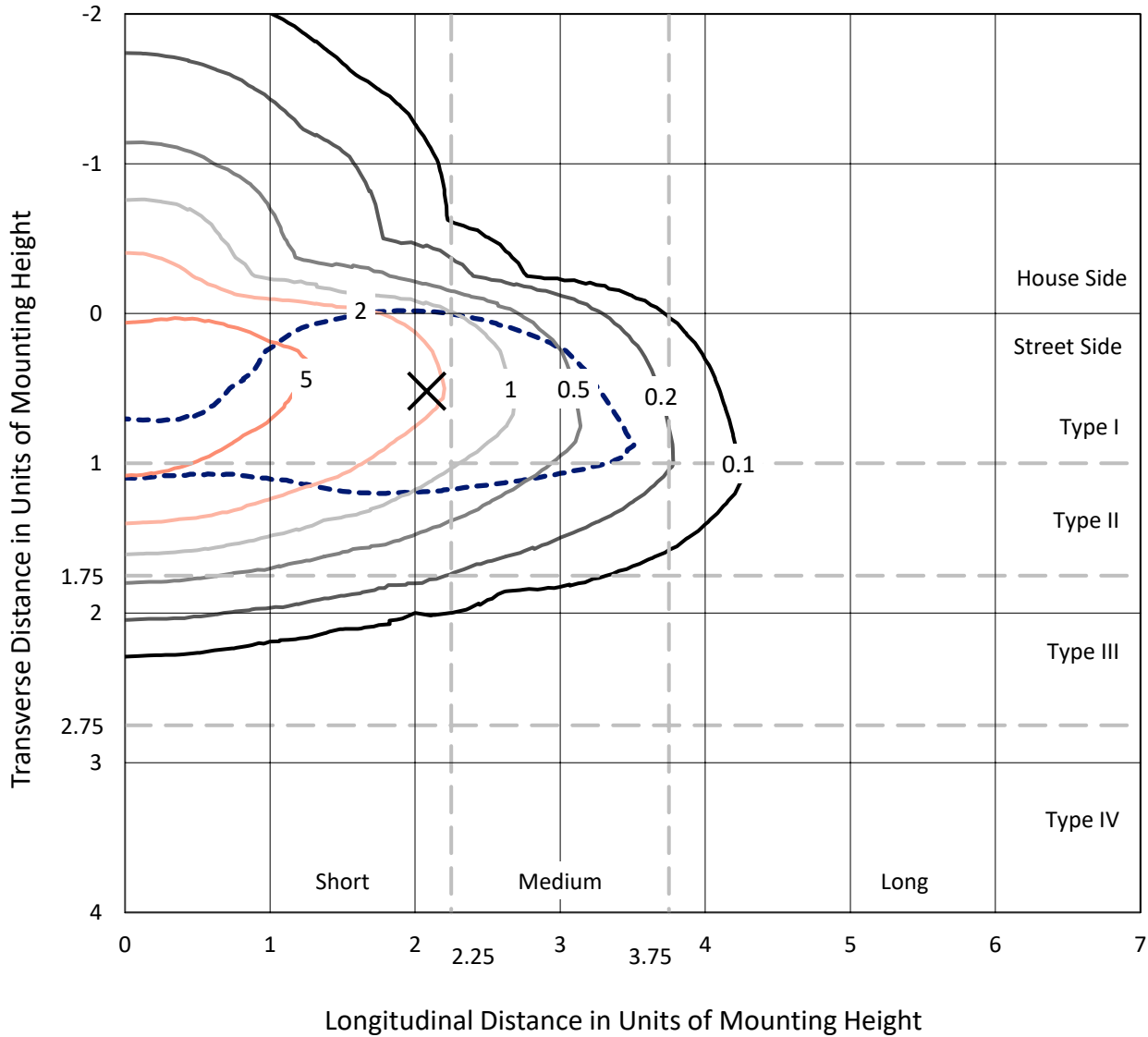
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

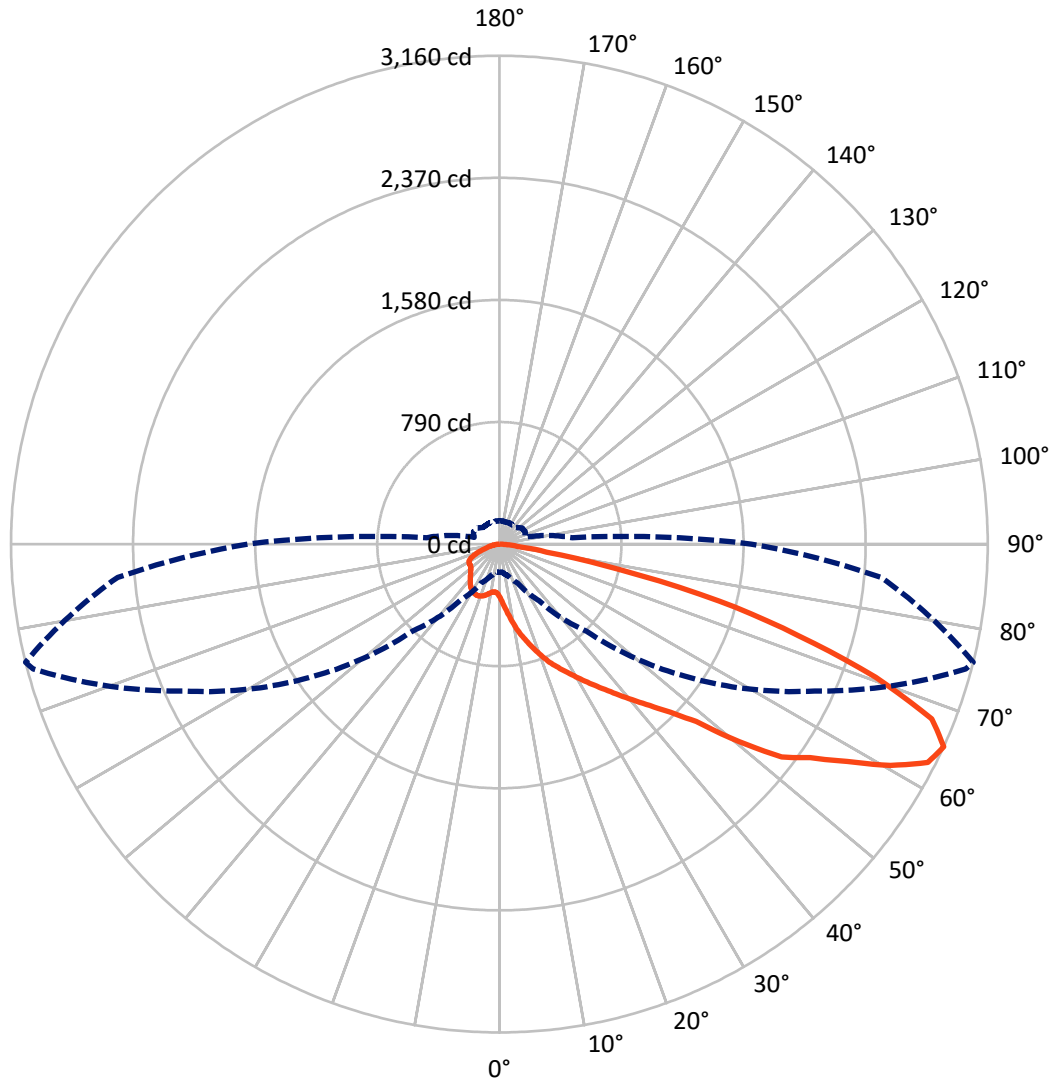
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	602.5	0.0	602.5
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	3002.0	0.0	3002.0
	% Fixture	83.3	0.0	83.3
Total	Lumens	3604.5	0.0	3604.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.6	1.1
10°-20°	154.5	4.3
20°-30°	301.0	8.4
30°-40°	503.4	14.0
40°-50°	720.8	20.0
50°-60°	853.4	23.7
60°-70°	709.6	19.7
70°-80°	290.4	8.1
80°-90°	30.9	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°	3604.5	100.0
0°-180°	3604.5	100.0

Coefficient of Utilization



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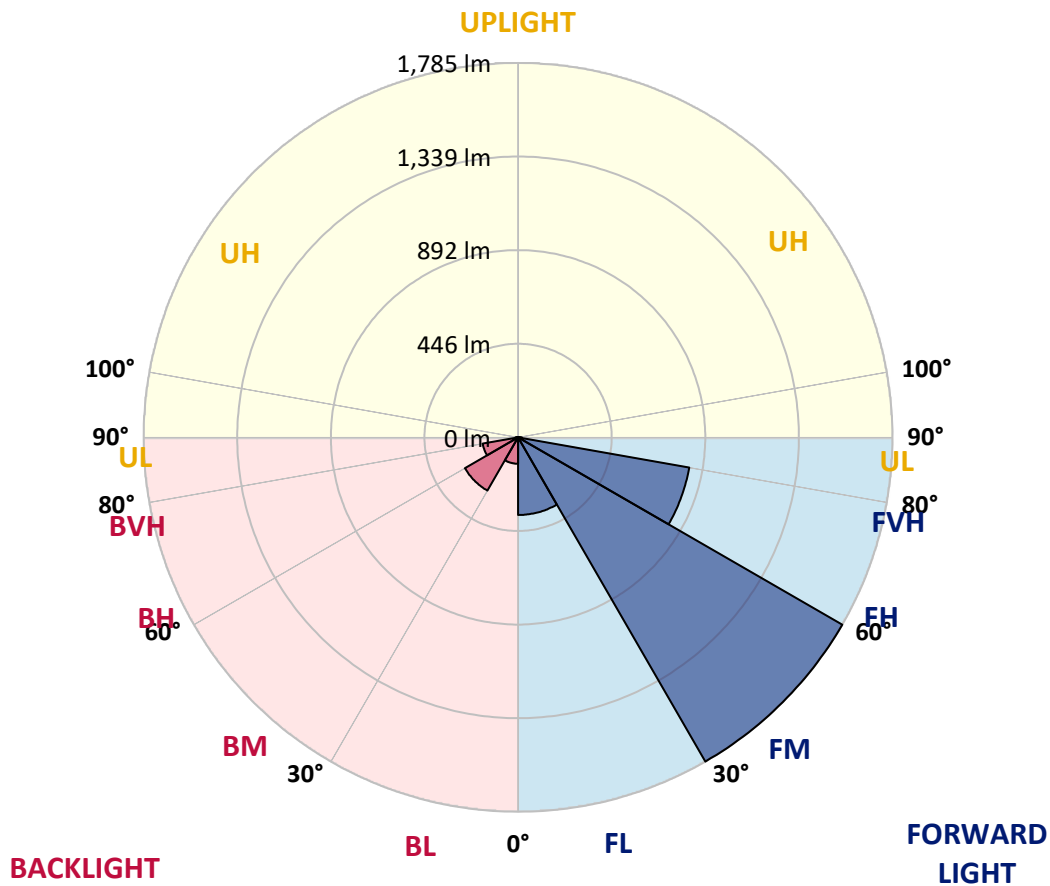
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	370.0	10.3			
FM (30°-60°)	1784.8	49.5			
FH (60°-80°)	828.8	23.0			G1/1800
FVH (80°-90°)	18.4	0.5			G1/100
BL (0°-30°)	126.0	3.5	B1/500		
BM (30°-60°)	292.8	8.1	B1/1000		
BH (60°-80°)	171.2	4.7	B1/500		G1/500
BVH (80°-90°)	12.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	341.3	341.3	341.3	341.3	341.3	341.3	341.3	341.3	341.3	341.3	341.3
2.5°	478.4	480.2	474.4	472.3	458.7	440.2	424.7	401.4	379.8	376.6	357.3
5°	607.7	600.1	593.5	589.2	570.2	549.1	516.4	472.6	426.7	421.2	379.6
7.5°	684.4	683.2	675.1	672.5	657.8	636.8	603.1	548.6	482.0	472.8	409.8
10°	746.0	745.3	741.2	743.5	730.1	709.5	676.8	620.6	542.5	533.4	443.5
12.5°	799.7	801.0	800.2	808.6	801.8	785.8	751.8	690.0	603.1	593.2	484.5
15°	839.0	840.0	843.8	862.1	865.9	862.6	828.1	758.2	662.9	648.7	526.8
17.5°	850.2	852.2	861.3	890.7	911.2	924.9	899.3	827.6	721.7	706.2	569.9
20°	865.1	867.4	876.5	907.2	937.3	968.5	963.9	898.1	781.0	768.3	613.5
22.5°	934.3	932.5	928.5	943.2	964.7	1003.5	1014.9	965.7	842.3	830.1	661.6
25°	1067.6	1064.3	1038.4	1025.0	1017.9	1041.5	1061.8	1027.3	902.1	883.9	706.5
27.5°	1214.6	1212.8	1179.8	1147.9	1104.3	1094.2	1106.1	1081.0	960.1	941.6	745.5
30°	1353.7	1348.4	1313.9	1273.9	1215.6	1172.0	1154.5	1133.7	1023.7	1004.5	791.1
32.5°	1478.1	1471.3	1430.7	1386.4	1325.3	1273.9	1221.7	1189.7	1095.7	1073.4	837.7
35°	1580.2	1573.4	1531.8	1484.7	1417.5	1379.5	1308.1	1250.5	1168.9	1146.4	892.7
37.5°	1659.3	1652.9	1609.6	1563.2	1504.7	1474.5	1412.5	1319.0	1253.3	1229.8	951.0
40°	1703.6	1699.1	1664.3	1627.6	1578.4	1552.3	1524.5	1405.4	1347.8	1324.3	1019.7
42.5°	1717.1	1714.0	1689.7	1670.7	1637.5	1617.7	1633.7	1507.0	1448.7	1428.2	1097.0
45°	1683.4	1683.4	1676.3	1685.9	1687.4	1687.2	1743.2	1621.8	1572.6	1550.1	1205.9
47.5°	1597.2	1602.8	1613.2	1660.5	1710.5	1752.3	1871.1	1774.8	1732.0	1713.5	1360.3
50°	1439.6	1454.8	1490.3	1582.8	1688.9	1795.4	1992.2	2001.1	2041.9	2009.2	1587.3
52.5°	1208.7	1206.4	1296.9	1428.7	1590.6	1797.1	2058.9	2200.8	2310.5	2288.0	1756.1
55°	960.6	956.8	1041.2	1222.9	1439.8	1729.2	2098.9	2292.3	2459.5	2439.3	1907.9
57.5°	735.6	730.8	805.8	969.8	1227.0	1585.0	2091.3	2401.2	2664.5	2654.1	2114.1
60°	506.3	500.5	570.7	714.1	975.1	1364.6	2007.2	2457.2	2904.5	2908.0	2334.8
62.5°	304.1	300.8	351.7	463.0	701.4	1091.4	1810.3	2423.3	3095.6	3111.5	2476.8
65°	183.5	181.2	211.1	276.2	445.0	796.4	1506.7	2249.7	3123.2	3159.9	2480.0
67.5°	133.5	133.8	142.4	168.3	259.5	514.4	1130.7	1938.5	2979.3	3017.3	2323.7
70°	116.1	116.6	121.1	127.0	156.9	294.5	735.1	1530.3	2553.8	2583.2	1948.9
72.5°	103.1	103.1	106.2	109.2	122.6	179.4	393.8	1069.6	2015.6	2023.4	1487.5
75°	90.7	90.0	91.5	93.0	106.4	125.4	191.6	745.3	1488.7	1470.5	961.4
77.5°	72.2	71.5	71.7	73.2	85.4	89.7	97.1	465.5	839.0	791.9	424.7
80°	51.4	50.9	53.7	57.5	63.1	55.0	60.8	225.3	332.7	309.7	164.7
82.5°	30.7	31.7	36.0	39.0	43.6	34.5	39.3	75.3	117.8	114.8	66.9
85°	4.3	4.6	12.9	15.0	18.8	13.4	20.8	34.0	47.1	50.4	23.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	6.1	13.4	13.7	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	341.3	341.3	341.3	341.3	341.3	341.3	341.3	341.3	341.3	341.3	341.3
2.5°	347.4	335.5	318.5	304.3	292.4	282.8	274.7	268.6	266.8	264.3	264.3
5°	360.1	338.5	308.1	286.6	274.2	266.8	261.8	259.2	258.0	256.4	255.7
7.5°	377.6	347.4	306.4	284.6	274.9	270.4	267.1	265.6	264.6	263.0	263.0
10°	401.6	360.6	311.9	291.7	284.1	279.5	275.7	273.2	270.9	268.6	268.1
12.5°	427.7	377.8	322.1	301.3	293.2	287.6	282.3	278.5	275.7	272.9	272.2
15°	456.6	395.6	333.0	310.7	300.5	292.9	286.6	280.8	277.0	272.9	272.4
17.5°	485.0	413.6	342.1	317.0	304.1	294.7	285.6	278.0	273.2	268.6	267.3
20°	519.0	431.5	348.4	318.8	303.3	290.9	280.0	270.4	265.1	259.7	259.0
22.5°	550.1	448.3	351.5	316.2	297.5	282.8	270.1	259.7	253.9	248.6	247.6
25°	580.3	463.0	350.2	310.2	288.6	271.6	258.5	248.1	242.5	236.9	235.4
27.5°	609.4	472.8	345.1	300.8	277.5	259.2	246.6	237.2	232.4	227.6	225.5
30°	638.1	482.0	337.3	288.6	263.3	246.3	235.9	229.3	224.5	219.4	217.9
32.5°	667.0	488.6	325.4	274.4	248.8	234.9	228.6	223.8	218.7	213.6	212.1
35°	696.1	491.3	310.9	258.2	236.7	227.6	225.3	219.7	212.9	206.8	204.7
37.5°	730.8	493.9	292.9	242.3	226.0	224.0	223.5	215.1	207.0	198.7	196.4
40°	772.6	497.2	274.4	227.8	217.4	222.7	220.7	209.3	193.1	185.0	182.4
42.5°	823.8	503.3	255.2	214.6	211.1	217.9	215.6	195.1	184.2	179.7	178.4
45°	899.1	525.6	235.9	204.2	206.3	211.1	207.5	186.8	182.4	179.4	177.9
47.5°	1033.1	559.8	219.2	196.4	202.5	205.0	191.3	184.5	181.2	177.1	175.4
50°	1172.5	574.7	205.8	191.6	198.2	199.4	182.4	181.4	179.2	174.8	173.1
52.5°	1266.8	572.7	197.7	189.8	194.6	189.8	178.4	178.1	176.6	171.6	169.5
55°	1373.2	576.2	194.1	190.3	193.1	173.6	173.3	174.1	173.3	167.8	166.7
57.5°	1516.9	587.1	192.3	192.1	192.1	165.7	168.5	169.5	168.0	165.5	164.7
60°	1655.0	587.9	189.0	194.1	191.3	160.9	162.9	164.0	162.2	161.7	161.4
62.5°	1706.9	551.4	181.7	192.6	188.3	155.6	157.1	157.6	155.8	157.1	156.9
65°	1629.6	473.9	169.5	185.2	178.9	150.8	149.8	151.0	148.0	151.3	151.5
67.5°	1446.9	376.6	151.0	171.3	165.7	145.5	143.4	143.4	138.4	143.4	143.2
70°	1166.7	266.1	123.9	149.0	151.3	139.1	138.1	132.3	124.2	131.8	131.0
72.5°	884.4	191.1	97.6	117.8	130.2	130.2	130.5	120.6	111.2	114.8	111.8
75°	560.3	134.6	78.0	90.2	102.1	114.3	120.1	101.9	93.5	92.0	90.5
77.5°	252.4	88.4	60.8	69.2	72.5	90.2	109.7	87.7	76.3	73.0	72.0
80°	105.7	55.0	43.3	48.9	44.6	75.8	96.8	68.2	56.0	51.4	48.1
82.5°	46.4	32.7	27.6	26.4	27.9	56.3	72.2	45.4	35.0	47.4	47.9
85°	19.5	17.2	14.2	12.9	11.4	21.5	34.0	17.7	21.8	12.4	10.1
87.5°	4.6	5.1	3.8	2.5	1.5	0.3	0.0	0.0	0.0	0.0	0.0
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)