

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: P628909

Luminaire Tested: GWS-SA1A-750-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628909  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1A-750-U-SL4-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

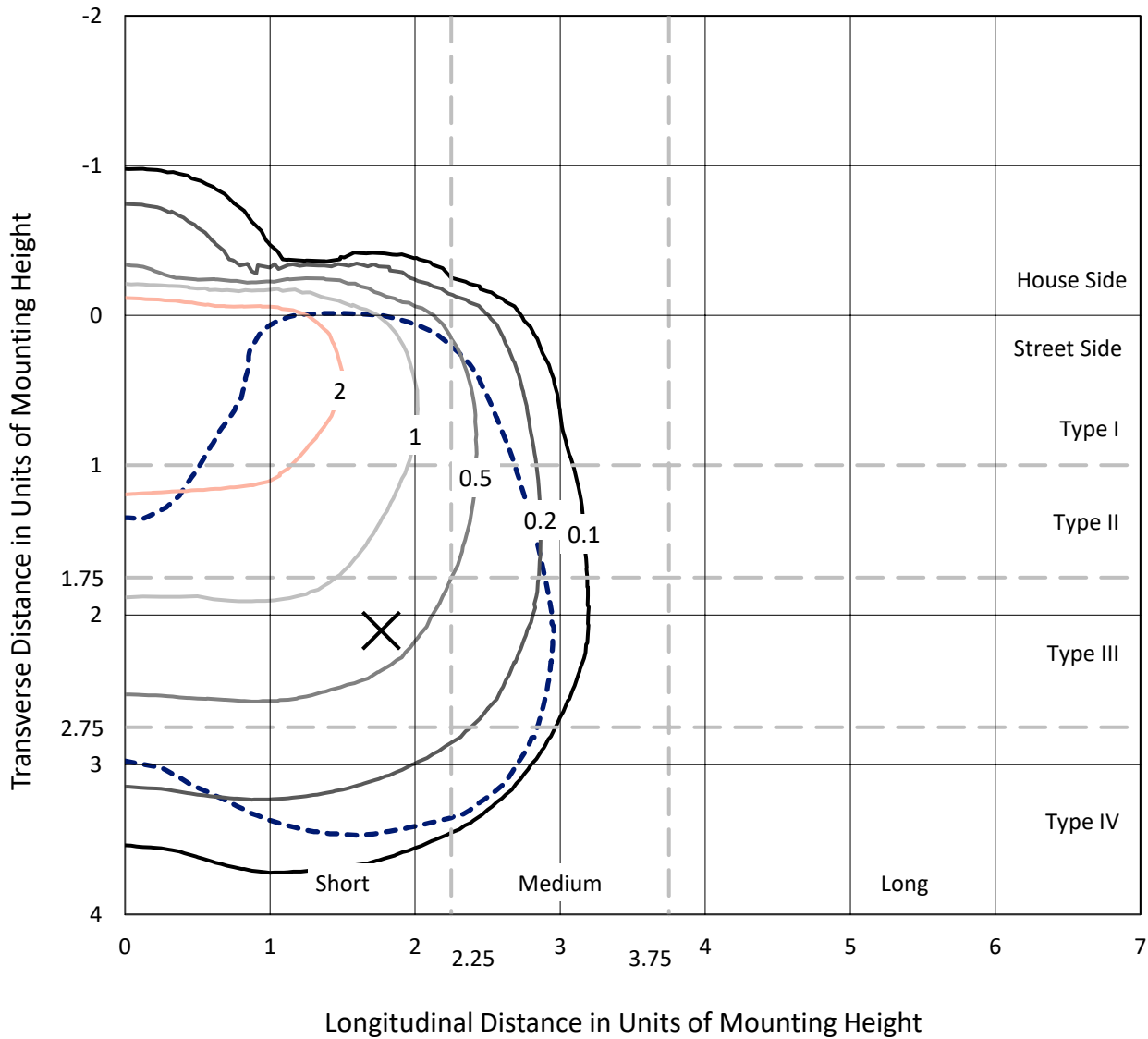
Lumens per Lamp: N/A  
Luminaire Lumens: 2292 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

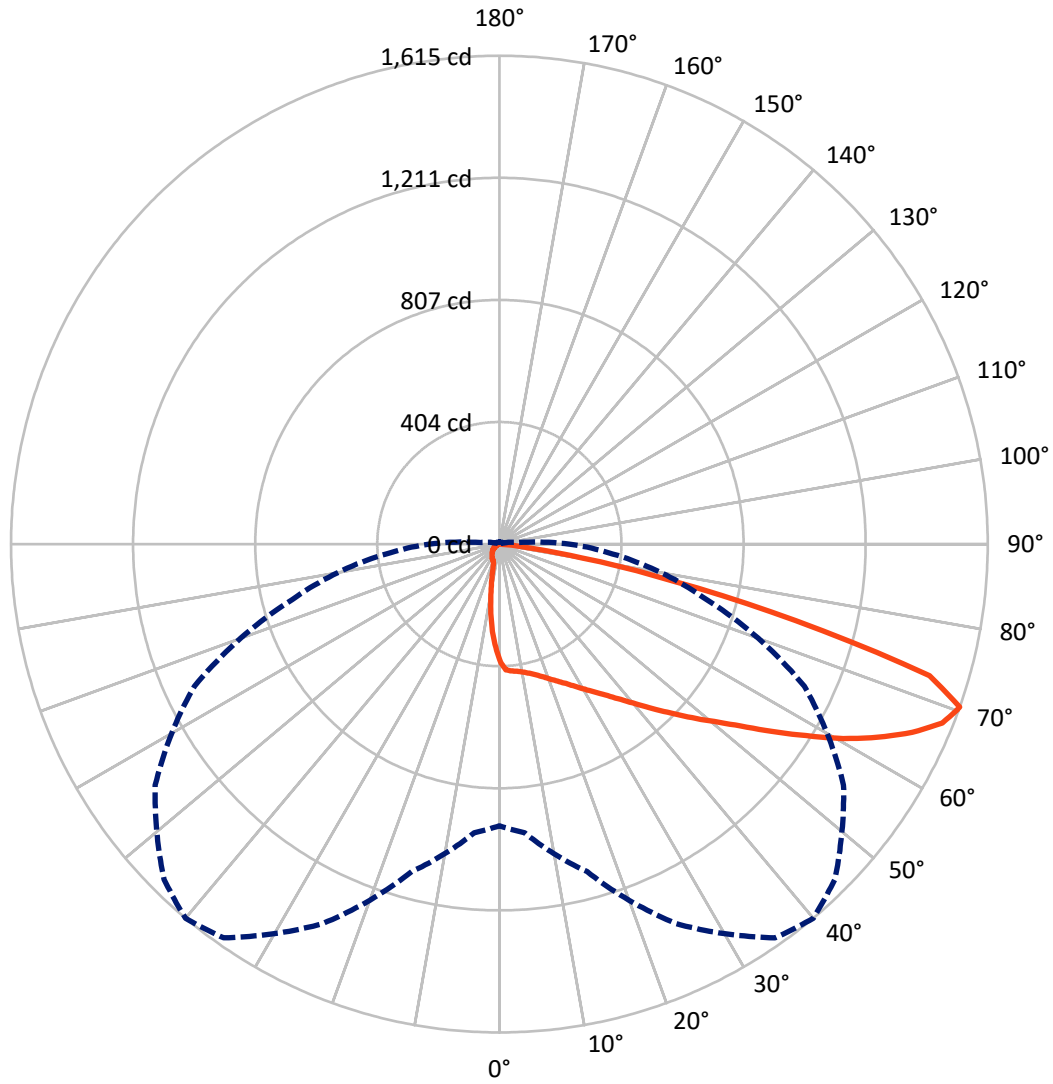
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Short - N/A

REPORT NUMBER: P628909  
CATALOG NUMBER: GWS-SA1A-750-U-SL4-W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	187.4	0.0	187.4
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	2104.6	0.0	2104.6
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	2292.0	0.0	2292.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.9	1.4
10°-20°	83.4	3.6
20°-30°	139.5	6.1
30°-40°	219.2	9.6
40°-50°	346.7	15.1
50°-60°	505.7	22.1
60°-70°	626.9	27.4
70°-80°	317.2	13.8
80°-90°	20.7	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°	2292.0	100.0
0°-180°	2292.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P628909

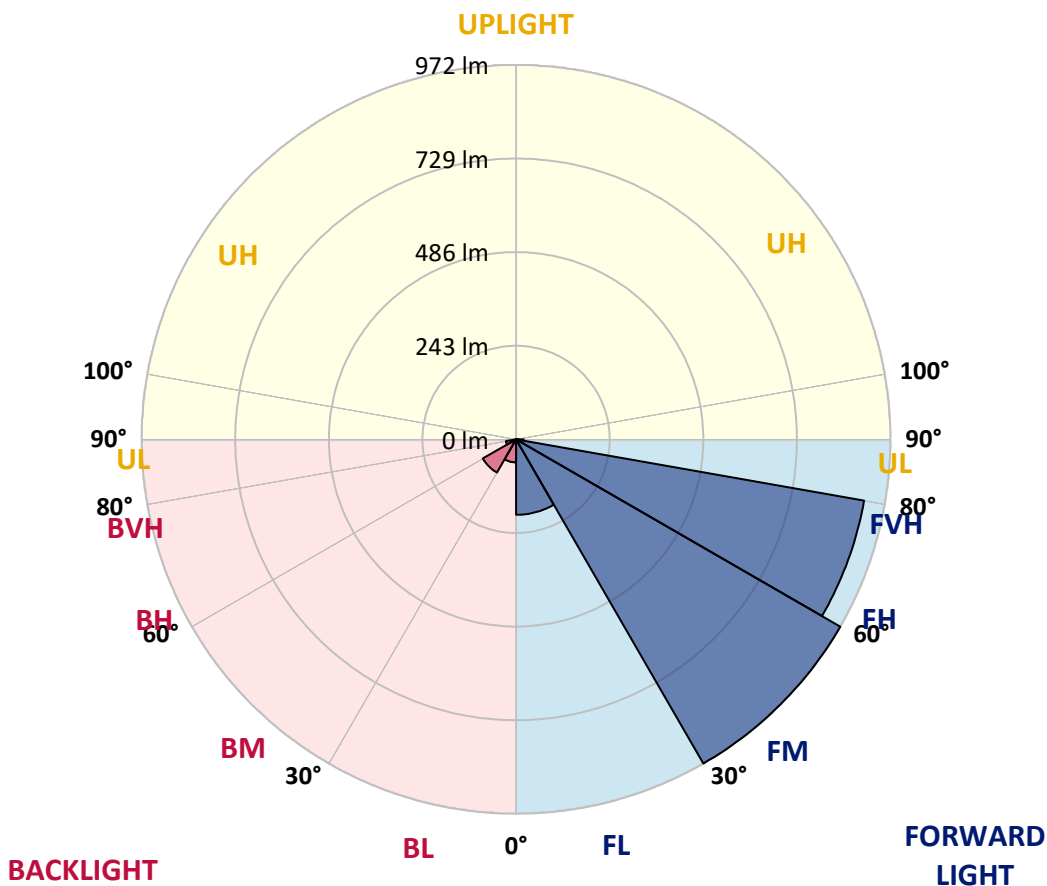
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	195.9	8.5			
FM (30°-60°)	972.0	42.4			
FH (60°-80°)	917.3	40.0			G1/1800
FVH (80°-90°)	19.3	0.8			G1/100
BL (0°-30°)	59.9	2.6	B0/110		
BM (30°-60°)	99.5	4.3	B0/220		
BH (60°-80°)	26.7	1.2	B0/110		G0/110
BVH (80°-90°)	1.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	388.9	388.9	388.9	388.9	388.9	388.9	388.9	388.9	388.9	388.9	388.9
2.5°	418.1	419.6	419.4	420.0	418.5	416.2	415.8	412.7	407.1	400.0	392.1
5°	426.7	428.3	427.1	426.5	423.8	421.2	420.6	417.3	410.8	401.2	387.5
7.5°	434.0	434.4	433.6	432.1	428.1	424.8	422.5	417.9	410.2	400.6	384.8
10°	435.2	435.0	435.4	435.6	433.1	430.2	428.3	422.1	412.3	402.1	385.0
12.5°	433.8	433.8	436.5	439.6	439.6	438.1	436.3	430.6	419.2	407.1	389.1
15°	435.6	436.3	441.5	447.3	449.2	447.7	446.9	441.1	429.2	415.8	396.6
17.5°	442.3	442.9	451.3	460.0	462.3	460.7	459.0	453.2	440.4	425.8	405.2
20°	452.1	453.8	464.4	475.7	477.8	475.7	472.3	464.2	451.5	436.7	413.3
22.5°	470.0	471.1	482.6	494.4	495.5	492.2	487.1	475.9	462.5	448.1	422.5
25°	493.8	495.3	506.7	518.2	515.5	510.5	503.6	490.9	475.7	461.7	434.2
27.5°	522.2	523.8	535.1	545.1	538.0	532.2	524.5	508.6	493.2	480.5	449.2
30°	552.8	554.3	564.3	573.3	563.9	557.0	547.8	531.6	515.9	506.3	470.5
32.5°	582.4	582.2	591.8	599.1	589.5	584.1	575.8	559.3	546.8	542.6	502.2
35°	610.0	610.0	617.9	625.2	618.3	615.4	607.7	594.5	587.5	592.5	544.5
37.5°	637.7	636.3	643.8	651.9	651.3	651.5	647.1	640.8	641.3	659.0	602.7
40°	660.7	660.0	668.8	679.4	687.8	694.4	691.7	694.0	707.2	740.3	677.1
42.5°	679.0	680.5	691.7	708.6	729.7	743.2	745.1	754.5	788.3	839.6	761.2
45°	700.1	700.3	715.9	741.8	775.3	796.8	804.3	828.5	876.5	942.6	853.3
47.5°	725.9	723.4	740.9	777.2	825.8	857.5	870.9	901.1	975.3	1043.1	928.4
50°	754.5	749.9	769.7	819.1	882.3	922.0	949.1	993.3	1073.3	1125.7	984.3
52.5°	787.7	783.3	805.8	867.3	950.1	998.3	1033.1	1077.7	1157.4	1188.7	1017.7
55°	829.8	825.4	849.2	925.1	1030.2	1092.7	1129.2	1166.8	1235.6	1235.2	1041.9
57.5°	876.5	870.4	903.4	998.1	1130.1	1195.1	1232.3	1250.6	1295.0	1271.3	1058.1
60°	930.1	924.7	970.3	1085.0	1245.4	1305.7	1329.0	1321.5	1343.8	1292.5	1052.5
62.5°	978.5	976.0	1032.7	1177.2	1355.3	1406.2	1412.6	1379.9	1379.7	1292.9	1014.5
65°	1028.7	1033.5	1117.8	1283.3	1465.8	1500.0	1489.0	1437.9	1394.1	1241.8	902.3
67.5°	1047.5	1061.5	1173.9	1379.3	1553.0	1579.7	1560.3	1466.9	1334.2	1070.0	687.1
70°	931.5	957.8	1120.9	1384.7	1589.1	1614.5	1568.0	1388.9	1112.3	708.8	376.4
72.5°	708.4	739.1	934.0	1133.8	1429.1	1487.1	1407.6	1131.5	717.0	310.5	126.4
75°	396.4	429.6	695.7	853.8	959.5	1012.5	983.3	725.9	317.6	81.1	37.7
77.5°	134.1	145.1	323.7	528.2	633.3	585.8	495.9	360.6	116.8	30.9	20.0
80°	79.5	83.6	120.5	263.0	333.2	276.3	218.1	133.3	59.4	16.5	14.0
82.5°	23.8	28.2	66.5	97.6	130.5	81.3	68.8	76.1	30.9	9.0	11.7
85°	0.0	0.0	14.2	30.2	34.2	13.3	13.3	43.2	5.6	3.8	8.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.0	0.6	0.8	1.9
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°	388.9	388.9	388.9	388.9	388.9	388.9	388.9	388.9	388.9	388.9	388.9
2.5°	386.4	379.1	370.6	362.4	354.7	344.7	339.9	334.1	329.1	326.4	327.8
5°	378.7	367.2	349.7	332.0	314.1	297.2	281.9	271.7	262.6	257.8	258.8
7.5°	372.0	356.6	329.3	300.3	271.5	242.5	219.0	200.6	186.4	180.6	179.6
10°	369.1	349.7	311.1	269.4	225.2	186.2	152.9	132.6	118.2	111.2	112.4
12.5°	370.6	346.2	295.7	239.2	181.8	136.4	104.5	85.5	75.3	71.1	70.1
15°	374.7	345.3	281.9	208.3	140.3	95.3	72.2	64.4	62.4	61.9	61.9
17.5°	379.5	345.5	267.8	177.0	106.6	70.7	61.7	60.3	59.6	59.2	59.4
20°	384.3	345.5	251.5	145.4	80.1	61.1	58.8	57.8	57.1	56.9	56.9
22.5°	390.2	345.5	233.4	115.9	64.2	58.0	56.1	55.5	54.8	54.6	54.4
25°	397.3	345.8	213.3	90.7	58.4	55.3	53.8	53.2	52.6	52.1	52.1
27.5°	407.5	347.4	191.2	70.7	55.1	52.8	51.5	50.9	50.3	49.6	49.6
30°	422.3	351.6	166.4	58.4	51.9	50.0	48.8	48.4	47.8	47.1	46.9
32.5°	444.4	358.9	140.8	52.3	49.0	47.1	45.7	45.3	44.6	44.0	43.8
35°	475.3	372.2	115.7	48.6	45.3	43.4	42.5	42.3	41.5	40.9	40.9
37.5°	520.5	393.9	91.8	44.8	42.1	40.7	39.6	39.2	38.4	37.7	37.5
40°	575.8	422.1	71.3	41.9	39.2	37.7	36.7	36.1	35.0	34.2	33.8
42.5°	646.3	456.5	56.3	38.8	36.5	35.0	34.2	32.9	31.5	30.2	30.0
45°	719.7	491.9	46.5	35.9	34.0	32.7	31.7	30.0	27.9	26.5	26.1
47.5°	776.0	514.0	40.7	32.7	31.3	30.2	29.0	26.9	24.4	22.7	22.3
50°	816.2	517.4	36.3	29.8	29.0	27.9	26.1	23.6	20.9	19.2	18.8
52.5°	836.0	502.4	32.7	27.1	26.5	25.4	23.1	20.4	17.5	15.8	15.4
55°	845.0	474.0	29.4	24.8	24.0	22.7	20.2	17.3	14.4	12.9	12.5
57.5°	841.5	432.1	26.5	22.5	21.5	20.0	17.3	14.2	11.9	10.4	10.2
60°	815.2	373.3	23.6	20.2	19.0	17.3	14.6	11.7	9.6	8.6	8.3
62.5°	758.5	300.3	20.6	17.5	16.7	15.0	12.5	9.6	7.9	7.3	7.1
65°	642.3	212.3	17.7	14.8	14.4	12.7	10.4	7.9	6.9	6.5	6.3
67.5°	461.7	129.1	15.0	12.7	12.3	10.8	8.8	6.9	6.3	6.0	6.0
70°	232.1	61.1	11.9	10.4	10.4	9.0	7.5	6.3	6.0	5.8	5.8
72.5°	78.8	26.1	9.0	8.1	8.6	7.7	6.5	5.8	5.8	5.8	5.8
75°	26.9	13.8	6.3	5.8	6.3	6.3	5.6	5.6	5.8	5.8	5.8
77.5°	17.5	9.2	4.4	4.0	4.8	4.8	4.8	5.2	5.6	5.6	5.6
80°	14.4	5.0	2.9	2.7	3.5	3.5	4.0	4.8	5.2	5.2	5.2
82.5°	12.3	3.1	1.7	1.9	2.5	2.7	3.3	4.0	4.6	4.8	4.8
85°	8.3	1.7	1.3	1.5	1.7	2.1	2.7	3.3	3.8	4.2	4.2
87.5°	2.3	0.6	0.8	1.0	1.0	1.5	2.1	2.5	2.9	3.1	3.1
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)