

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: P628847

Luminaire Tested: GWS-SA1A-740-U-SL2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628847  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1A-740-U-SL2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

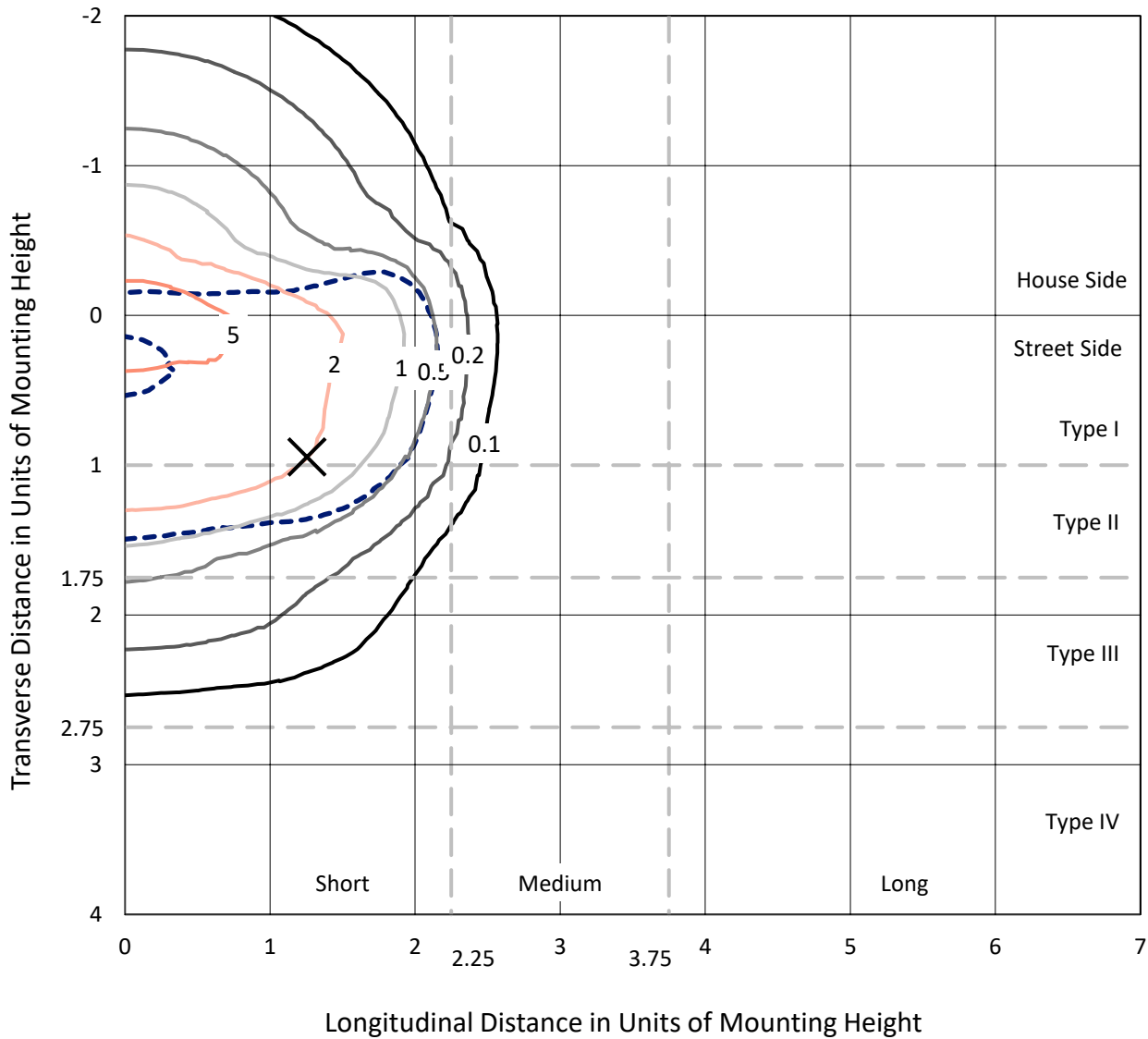
Lumens per Lamp: N/A  
Luminaire Lumens: 2422.1 lumens  
Efficiency: N/A  
Efficacy: 122.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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

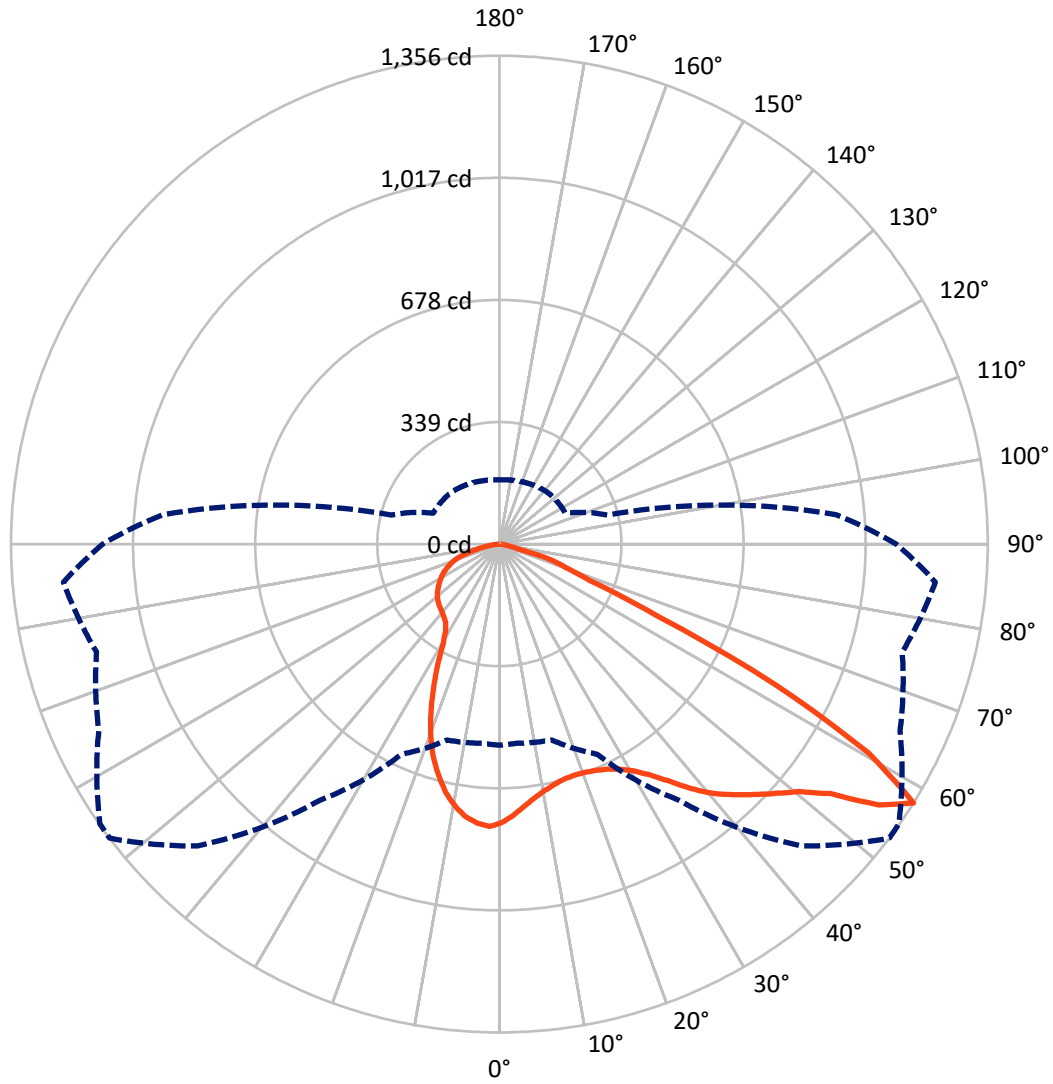
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	757.3	0.0	757.3
	% Fixture	31.3	0.0	31.3
<b>Street Side</b>	Lumens	1664.8	0.0	1664.8
	% Fixture	68.7	0.0	68.7
<b>Total</b>	Lumens	2422.1	0.0	2422.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.9	2.9
10°-20°	183.5	7.6
20°-30°	270.4	11.2
30°-40°	378.4	15.6
40°-50°	497.5	20.5
50°-60°	583.3	24.1
60°-70°	343.6	14.2
70°-80°	85.5	3.5
80°-90°	10.0	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°	2422.1	100.0
0°-180°	2422.1	100.0

**Coefficient of Utilization**



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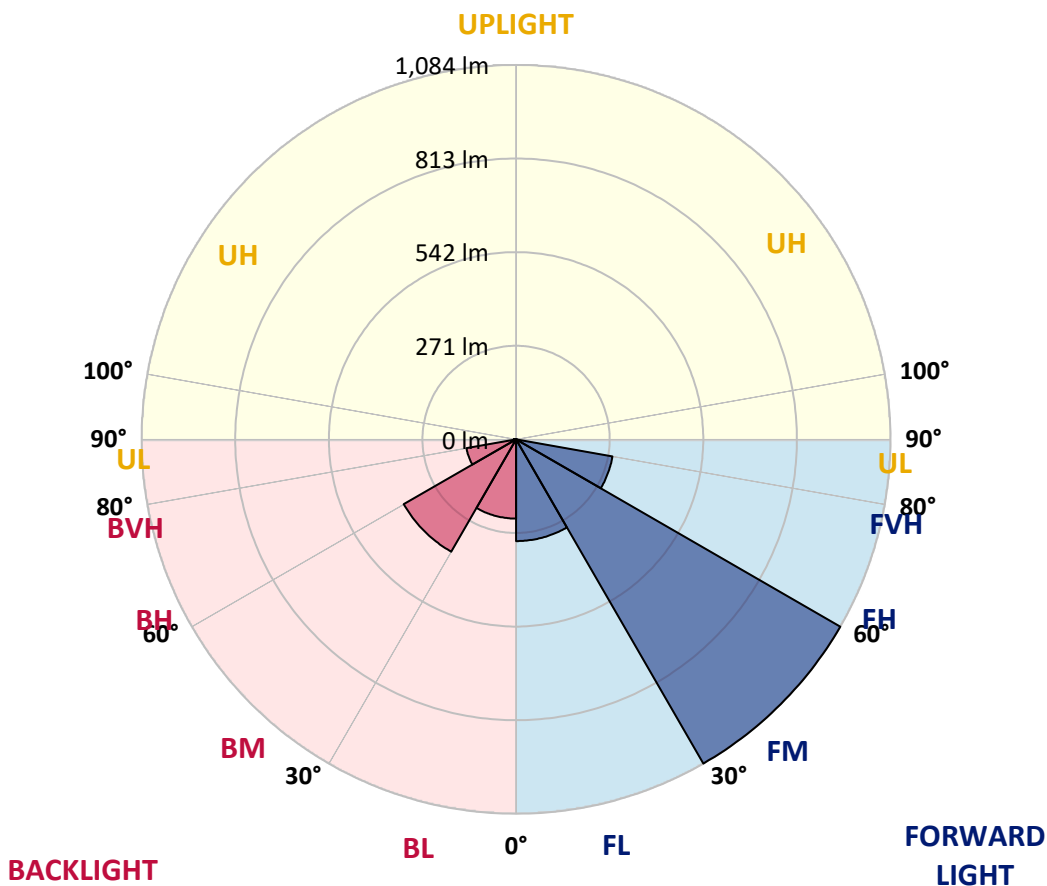
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	294.5	12.2			
FM (30°-60°)	1083.7	44.7			
FH (60°-80°)	283.3	11.7			G0/660
FVH (80°-90°)	3.4	0.1			G0/10
BL (0°-30°)	229.3	9.5	B1/500		
BM (30°-60°)	375.5	15.5	B1/1000		
BH (60°-80°)	145.8	6.0	B1/500		G1/500
BVH (80°-90°)	6.7	0.3			G0/10
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°	53°	55°	65°	75°	85°
0°	773.4	773.4	773.4	773.4	773.4	773.4	773.4	773.4	773.4	773.4	773.4
2.5°	729.0	731.0	731.4	737.8	738.2	747.3	753.5	752.2	758.6	766.3	772.4
5°	694.1	694.3	696.4	703.9	708.0	720.0	730.2	730.2	742.5	758.4	772.0
7.5°	665.4	665.2	667.0	675.4	682.1	696.6	710.4	712.1	729.2	752.4	774.7
10°	638.7	640.1	642.2	652.3	660.9	678.9	695.4	698.0	719.6	748.4	778.3
12.5°	621.6	621.8	624.8	636.2	647.3	666.4	683.7	687.0	711.9	744.5	781.0
15°	610.6	610.8	614.0	626.7	639.5	658.9	676.6	680.3	707.4	743.9	786.1
17.5°	605.7	605.5	608.5	621.2	635.2	655.4	674.4	678.9	709.4	748.6	795.1
20°	605.7	605.9	607.5	618.9	633.2	654.6	676.6	682.1	717.4	759.2	808.9
22.5°	614.2	615.0	615.9	623.6	634.8	655.8	682.5	689.9	734.5	776.9	827.1
25°	630.9	631.1	632.0	638.3	643.4	659.3	692.3	703.3	761.2	802.8	849.9
27.5°	653.4	656.2	657.0	661.1	661.1	667.8	707.6	723.5	797.3	840.1	879.0
30°	684.8	685.8	687.2	691.7	686.8	683.9	730.0	750.4	839.1	885.2	914.1
32.5°	712.3	714.5	722.3	729.6	720.8	711.9	763.0	787.1	879.2	932.0	951.4
35°	735.7	741.2	756.1	772.4	766.3	757.3	806.9	831.9	912.3	965.7	984.4
37.5°	764.1	768.3	788.7	815.2	820.7	816.5	860.3	878.2	934.3	974.2	1002.4
40°	792.8	799.3	825.6	862.3	883.3	886.4	909.6	921.6	941.8	957.5	998.9
42.5°	822.2	833.4	869.5	912.3	949.6	956.5	951.2	956.3	939.4	934.5	982.8
45°	858.0	871.3	912.1	966.7	1015.8	1026.6	992.0	987.3	939.0	925.7	972.8
47.5°	900.4	913.7	952.6	1016.2	1079.0	1087.0	1033.8	1025.2	953.2	939.2	986.3
50°	938.0	947.1	982.0	1053.1	1137.9	1142.6	1079.8	1069.4	988.7	976.5	1028.3
52.5°	899.8	898.8	935.5	1023.2	1168.5	1225.0	1150.8	1140.8	1057.2	1038.5	1093.3
55°	763.5	751.8	784.7	870.9	1083.1	1298.2	1278.0	1258.0	1148.5	1100.8	1154.3
57.5°	558.2	554.9	562.9	643.8	867.6	1184.8	1355.9	1354.0	1227.4	1157.9	1215.0
60°	436.5	431.6	410.4	412.6	591.4	925.5	1176.7	1230.7	1276.4	1192.2	1257.4
62.5°	387.5	383.9	372.9	342.5	352.3	620.5	862.5	912.1	1115.3	1052.9	1080.0
65°	320.9	319.9	329.0	327.8	295.2	342.7	486.8	536.8	701.3	710.0	701.3
67.5°	233.2	231.4	254.6	300.5	284.2	258.7	271.3	288.7	359.6	322.9	290.7
70°	151.7	149.0	162.5	217.1	254.4	225.5	195.5	192.6	197.7	122.9	132.9
72.5°	101.7	98.7	98.5	119.5	153.7	151.9	151.5	150.0	133.9	97.0	107.6
75°	56.7	54.2	53.6	51.6	55.0	56.1	59.7	61.8	66.9	73.6	81.5
77.5°	9.6	9.4	11.8	15.1	20.8	26.7	33.0	34.9	43.0	51.0	56.1
80°	5.3	5.5	7.1	8.8	11.6	15.9	20.4	21.6	26.5	30.8	34.9
82.5°	2.9	2.9	3.7	4.7	6.3	8.4	11.0	12.0	15.3	17.9	20.8
85°	1.0	1.0	1.4	1.8	2.7	3.5	4.3	4.9	6.7	9.2	10.4
87.5°	0.0	0.0	0.0	0.0	0.2	0.4	0.8	0.8	1.0	1.8	2.7
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°	773.4	773.4	773.4	773.4	773.4	773.4	773.4	773.4	773.4	773.4	773.4
2.5°	777.5	772.0	779.6	783.0	784.2	785.1	779.8	776.1	774.9	771.0	768.8
5°	780.4	776.7	783.8	783.8	778.7	773.4	762.6	755.1	749.8	743.5	742.5
7.5°	785.3	782.6	786.5	778.5	765.7	751.4	732.7	718.0	706.2	698.4	698.6
10°	791.8	788.5	785.5	767.7	744.3	718.0	689.2	667.8	648.3	639.3	634.4
12.5°	796.1	791.4	778.5	749.2	714.7	679.5	638.9	607.1	578.8	565.9	564.9
15°	801.4	792.8	767.1	725.1	677.2	629.1	576.9	532.7	494.4	474.4	473.4
17.5°	808.3	794.2	753.5	697.6	637.7	566.7	501.1	445.4	404.7	389.2	391.8
20°	818.1	795.9	738.0	667.0	588.5	495.8	414.0	362.9	347.2	346.2	344.1
22.5°	829.1	796.9	720.8	632.8	529.0	420.2	342.1	320.3	320.1	325.2	326.4
25°	841.5	797.7	701.5	592.8	464.6	344.7	302.5	296.0	301.1	310.7	311.9
27.5°	857.4	799.3	678.0	549.0	396.1	297.8	280.7	279.1	285.2	294.2	293.8
30°	880.9	805.2	653.2	498.6	325.8	275.6	267.5	267.7	270.1	274.4	275.0
32.5°	904.7	814.4	628.9	442.0	285.4	263.0	259.3	258.9	258.9	260.7	261.1
35°	927.4	824.8	602.6	382.8	265.8	255.6	253.2	252.0	251.4	251.0	250.3
37.5°	940.0	829.9	576.9	324.5	255.4	250.7	248.3	246.7	244.4	242.8	242.4
40°	934.5	824.0	547.2	280.9	249.1	246.1	243.2	241.0	237.9	236.5	235.7
42.5°	916.1	805.7	514.7	260.3	244.0	241.0	237.5	233.8	231.8	230.6	230.4
45°	896.8	783.4	475.6	248.3	239.1	235.5	231.4	227.3	225.1	224.4	224.2
47.5°	896.2	772.4	434.0	238.7	233.2	229.5	224.4	220.4	217.9	217.1	216.3
50°	923.1	783.6	387.1	230.4	227.1	223.2	217.5	213.0	210.0	209.0	208.8
52.5°	978.9	825.8	345.1	222.0	218.9	214.5	209.8	205.3	201.6	199.8	199.6
55°	1039.3	879.4	319.0	213.4	209.4	205.5	201.2	196.3	192.2	189.4	189.0
57.5°	1101.7	938.0	311.1	202.6	199.6	196.9	191.8	186.5	181.8	179.2	178.6
60°	1153.0	988.3	326.0	191.2	189.6	186.1	181.4	176.3	173.1	171.0	170.6
62.5°	965.3	804.6	263.2	178.8	178.8	175.1	169.8	166.1	163.9	162.5	162.1
65°	612.6	498.2	179.6	166.3	166.1	161.3	156.8	154.3	153.3	151.1	150.7
67.5°	266.9	227.7	153.5	153.7	152.9	147.6	143.1	141.3	139.2	136.8	136.6
70°	138.4	141.1	137.4	139.6	138.2	131.9	127.6	124.8	120.5	118.0	118.2
72.5°	111.7	114.6	118.6	122.1	119.1	114.0	107.2	103.8	98.3	95.6	95.8
75°	85.2	88.3	92.1	95.8	93.4	87.0	82.8	79.3	73.0	69.9	70.5
77.5°	58.7	60.3	65.0	64.8	64.0	62.2	55.9	51.8	45.3	41.6	42.0
80°	36.5	37.5	39.8	40.8	40.4	37.9	32.8	29.8	25.9	23.6	23.9
82.5°	22.0	22.6	24.7	24.9	24.7	22.8	19.0	16.7	14.3	13.0	13.0
85°	11.2	11.6	12.8	12.8	11.6	9.8	8.8	7.7	6.3	5.7	5.7
87.5°	3.1	3.1	3.9	3.3	2.7	2.4	1.2	1.0	0.4	0.2	0.2
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)