

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: P628874

Luminaire Tested: GWS-SA1A-740-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628874  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1A-740-U-T3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

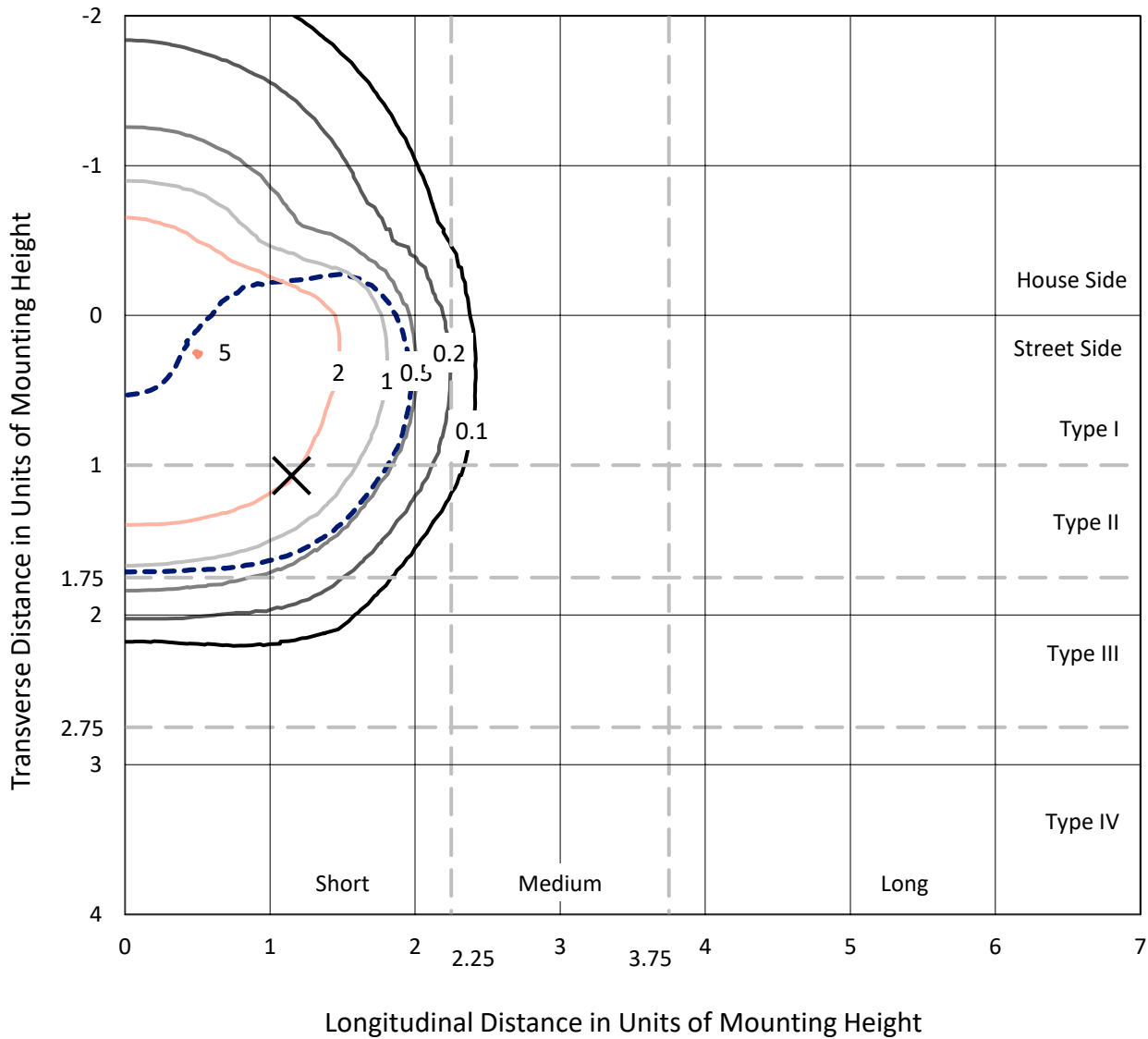
Lumens per Lamp: N/A  
Luminaire Lumens: 2427.2 lumens  
Efficiency: N/A  
Efficacy: 123.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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

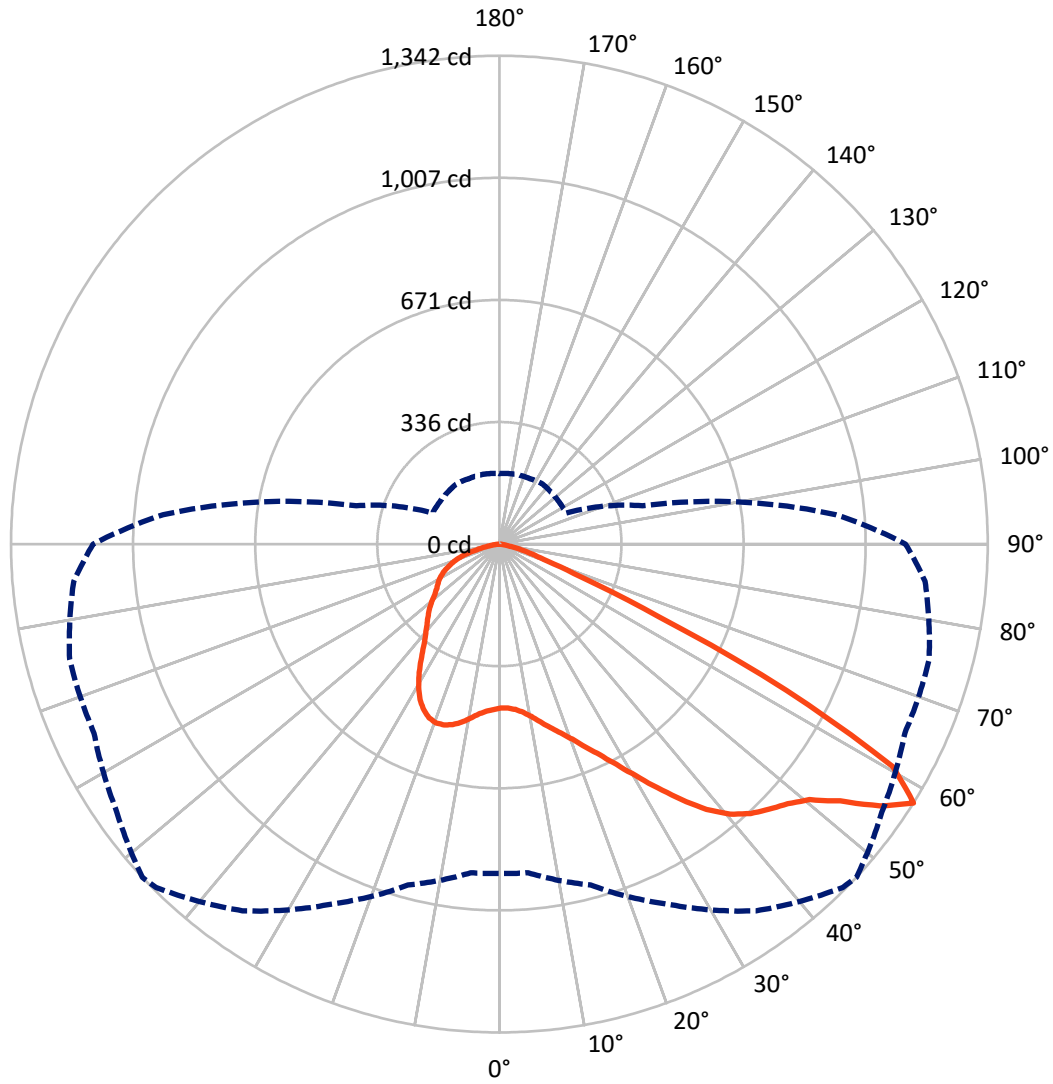
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	768.2	0.0	768.2
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	1659.0	0.0	1659.0
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	2427.2	0.0	2427.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.4	1.8
10°-20°	146.0	6.0
20°-30°	262.9	10.8
30°-40°	397.1	16.4
40°-50°	534.8	22.0
50°-60°	642.6	26.5
60°-70°	313.0	12.9
70°-80°	77.1	3.2
80°-90°	9.3	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°	2427.2	100.0
0°-180°	2427.2	100.0

**Coefficient of Utilization**



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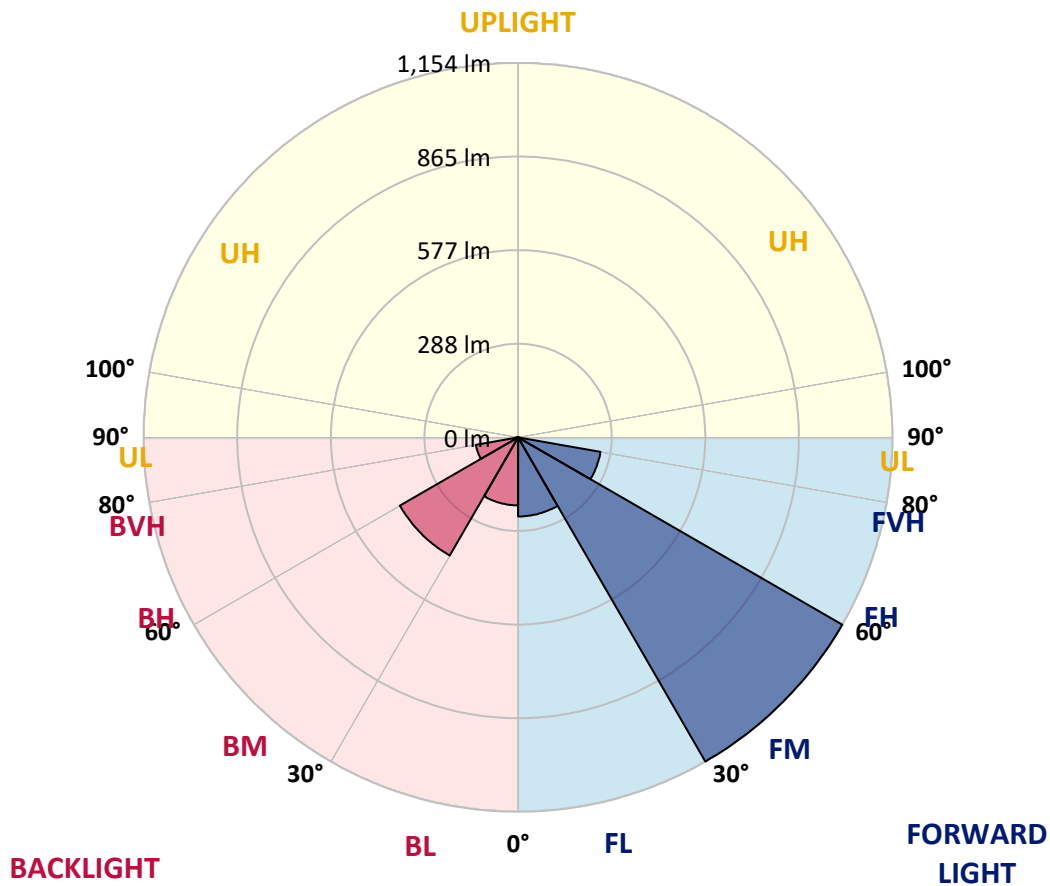
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	243.8	10.0			
FM (30°-60°)	1153.8	47.5			
FH (60°-80°)	257.9	10.6			G0/660
FVH (80°-90°)	3.5	0.1			G0/10
BL (0°-30°)	209.6	8.6	B1/500		
BM (30°-60°)	420.7	17.3	B1/1000		
BH (60°-80°)	132.1	5.4	B1/500		G1/500
BVH (80°-90°)	5.8	0.2			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°	47°	55°	65°	75°	85°
0°	450.1	450.1	450.1	450.1	450.1	450.1	450.1	450.1	450.1	450.1	450.1
2.5°	449.3	449.1	449.1	450.3	450.3	450.7	451.4	452.0	452.2	451.1	448.9
5°	454.2	454.2	454.2	455.2	455.2	455.6	456.4	456.7	456.4	454.8	452.6
7.5°	462.0	462.0	462.2	463.4	464.4	465.0	466.4	466.2	465.6	463.0	460.1
10°	474.6	475.2	475.8	477.2	479.3	480.7	481.7	481.7	480.9	476.8	473.2
12.5°	492.5	493.3	494.0	495.2	496.8	499.3	501.5	501.5	500.5	495.4	489.9
15°	513.5	514.3	514.1	514.5	517.6	521.1	522.9	524.1	524.5	517.4	508.8
17.5°	537.6	538.4	537.6	536.4	536.8	542.3	545.5	550.0	552.7	543.1	529.4
20°	559.4	558.6	558.6	559.4	560.6	567.3	572.2	579.6	582.8	571.2	550.0
22.5°	582.4	584.3	583.5	583.5	588.3	599.6	605.5	615.1	618.5	603.4	574.9
25°	612.2	613.8	613.4	613.8	619.5	635.4	641.4	659.1	662.6	640.9	602.4
27.5°	644.8	647.5	648.7	648.3	657.5	678.2	685.6	710.3	716.6	682.9	631.8
30°	687.2	690.1	691.1	690.7	701.5	729.8	738.2	766.3	775.3	732.7	669.1
32.5°	736.4	739.2	742.3	743.5	757.3	786.3	798.3	827.5	840.3	790.2	714.1
35°	785.1	787.5	793.4	803.0	822.0	851.5	862.1	890.9	903.3	849.9	768.6
37.5°	838.9	840.5	845.6	858.9	886.2	914.3	924.9	952.4	953.9	907.6	830.1
40°	897.8	897.8	896.8	909.8	938.4	966.7	975.9	991.8	983.4	952.0	890.1
42.5°	947.8	946.9	947.8	960.0	981.2	1004.2	1012.2	1009.1	998.5	986.1	944.3
45°	992.8	993.4	1000.8	1010.1	1021.1	1034.8	1039.5	1022.2	1012.6	1013.4	987.7
47.5°	1023.4	1024.0	1041.1	1056.8	1063.5	1067.8	1065.8	1041.7	1036.8	1046.0	1021.1
50°	1027.5	1030.7	1060.3	1092.5	1109.2	1109.8	1104.1	1074.8	1073.3	1083.7	1039.1
52.5°	1028.3	1031.5	1068.4	1126.5	1170.0	1179.1	1172.6	1142.0	1127.2	1116.8	1061.1
55°	1025.2	1028.9	1069.7	1149.4	1232.6	1269.2	1269.9	1226.6	1179.1	1172.2	1123.9
57.5°	905.1	906.6	969.8	1091.3	1230.1	1334.1	1342.0	1283.3	1229.1	1222.6	1174.2
60°	630.5	636.3	705.0	865.4	1033.4	1216.6	1242.3	1225.2	1188.9	1141.4	1007.5
62.5°	315.8	320.7	389.6	541.3	712.7	857.4	885.0	903.1	911.7	860.7	686.0
65°	136.0	139.6	182.5	282.8	403.4	473.4	482.9	504.8	558.2	498.0	369.6
67.5°	90.9	93.4	115.2	172.5	237.7	242.2	240.8	245.5	257.1	212.2	167.0
70°	69.7	71.8	86.4	126.4	170.8	146.2	138.4	125.6	136.4	139.0	135.4
72.5°	50.6	52.2	63.2	86.2	107.0	93.4	92.1	98.7	113.3	117.4	115.2
75°	32.6	33.4	40.2	47.3	55.2	59.9	62.4	74.2	89.1	92.1	89.5
77.5°	21.8	22.4	26.3	30.4	31.4	31.6	32.4	37.7	47.9	53.6	53.0
80°	11.4	11.4	12.8	12.8	14.7	17.5	18.3	21.8	26.5	29.4	29.6
82.5°	4.5	4.7	5.5	6.1	7.3	9.0	9.6	11.4	13.9	15.9	17.7
85°	1.8	2.0	2.2	2.7	3.3	4.1	4.3	4.9	6.5	8.2	9.2
87.5°	0.0	0.0	0.2	0.2	0.4	0.6	0.6	0.8	1.0	1.8	2.4
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°	450.1	450.1	450.1	450.1	450.1	450.1	450.1	450.1	450.1	450.1	450.1
2.5°	451.6	448.9	451.6	452.4	454.6	455.4	454.0	453.8	453.8	451.8	451.1
5°	454.6	452.2	454.8	456.0	459.3	461.3	461.7	463.4	464.4	463.6	463.4
7.5°	462.2	459.1	462.0	463.8	468.1	471.3	472.8	476.4	479.1	478.7	478.5
10°	475.4	471.3	474.6	477.6	482.3	486.2	486.4	488.5	491.1	490.3	489.9
12.5°	490.7	486.8	490.5	493.6	499.1	500.7	498.0	497.2	497.6	496.6	495.8
15°	509.5	503.9	507.2	510.7	513.7	511.9	506.2	503.9	503.7	502.3	501.5
17.5°	528.2	521.3	523.7	525.6	524.1	518.4	511.3	507.4	505.6	502.7	501.9
20°	546.8	538.0	537.6	536.2	529.6	519.2	509.7	501.9	497.2	493.3	491.9
22.5°	568.0	555.7	549.6	543.1	528.8	511.9	497.4	486.4	478.9	474.0	472.3
25°	590.8	573.5	560.8	547.8	520.7	496.2	476.0	460.9	452.0	446.7	444.8
27.5°	613.4	589.6	570.6	548.4	504.4	473.6	446.5	426.1	417.1	412.8	411.4
30°	644.0	611.0	582.2	540.4	482.9	442.2	408.3	387.7	381.8	378.8	377.6
32.5°	679.3	638.1	597.7	523.7	455.6	405.5	369.8	355.5	351.5	345.5	345.3
35°	725.7	676.8	612.4	499.1	421.2	366.1	340.2	330.1	322.7	313.3	312.5
37.5°	780.0	725.1	620.4	467.7	381.0	333.7	318.2	306.8	295.0	282.6	280.9
40°	836.0	781.6	621.0	430.6	341.7	312.3	299.3	284.4	269.7	255.8	254.0
42.5°	895.0	834.2	610.2	387.7	309.5	293.8	280.5	261.8	245.2	235.9	234.8
45°	947.6	876.6	585.7	342.7	285.6	278.3	261.4	241.2	232.4	225.7	224.2
47.5°	988.9	904.7	552.7	302.3	266.2	262.4	240.4	230.0	223.2	217.1	215.7
50°	1009.3	911.1	509.7	269.5	248.3	243.6	228.5	220.6	216.1	211.2	210.0
52.5°	1034.6	918.2	472.6	242.0	230.8	224.5	218.7	212.4	209.2	206.1	205.1
55°	1092.7	945.1	453.0	220.0	214.1	211.2	210.4	205.1	204.1	202.0	200.2
57.5°	1116.3	927.8	406.7	202.0	200.8	201.2	203.3	198.4	197.3	194.9	193.7
60°	897.8	701.3	275.4	186.5	189.8	192.4	194.5	189.6	188.2	187.8	186.1
62.5°	575.3	431.4	192.2	172.1	177.0	180.2	181.4	176.7	175.7	179.0	179.2
65°	299.5	235.1	156.0	156.6	160.6	165.5	168.0	166.4	165.9	169.4	169.6
67.5°	152.9	143.7	136.0	138.2	141.5	147.8	153.5	160.6	163.1	163.5	163.7
70°	130.3	126.2	122.3	123.7	127.2	130.7	136.2	139.6	135.6	134.5	134.1
72.5°	110.9	107.8	106.0	107.6	109.5	108.9	107.2	108.9	109.5	109.7	109.9
75°	86.2	84.0	82.6	82.8	82.8	80.5	77.5	75.6	73.6	72.0	72.0
77.5°	52.8	53.2	54.6	54.4	54.2	53.4	50.4	48.7	43.8	42.4	42.4
80°	30.2	30.8	32.2	32.6	32.6	31.6	28.5	26.7	24.5	23.4	23.2
82.5°	18.3	19.2	20.0	20.4	20.6	19.4	16.7	15.3	14.1	13.0	13.0
85°	9.6	10.0	10.8	11.0	10.4	9.2	7.7	7.1	5.9	5.7	5.7
87.5°	2.7	2.9	3.3	2.7	2.4	1.8	1.0	0.8	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)