

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: P628827

Luminaire Tested: GWS-SA1A-735-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628827  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1A-735-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

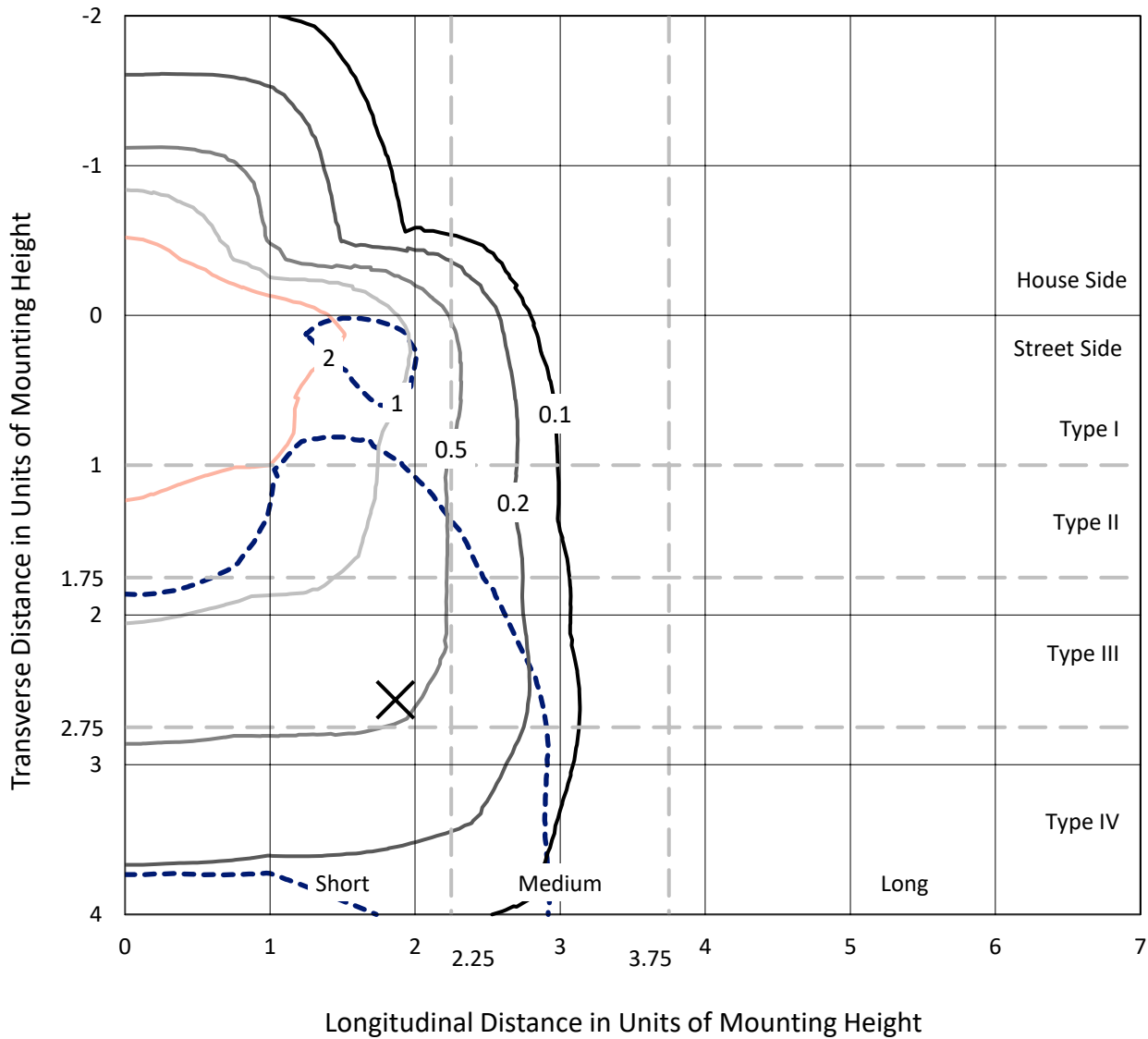
Lumens per Lamp: N/A  
Luminaire Lumens: 2709.2 lumens  
Efficiency: N/A  
Efficacy: 137.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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

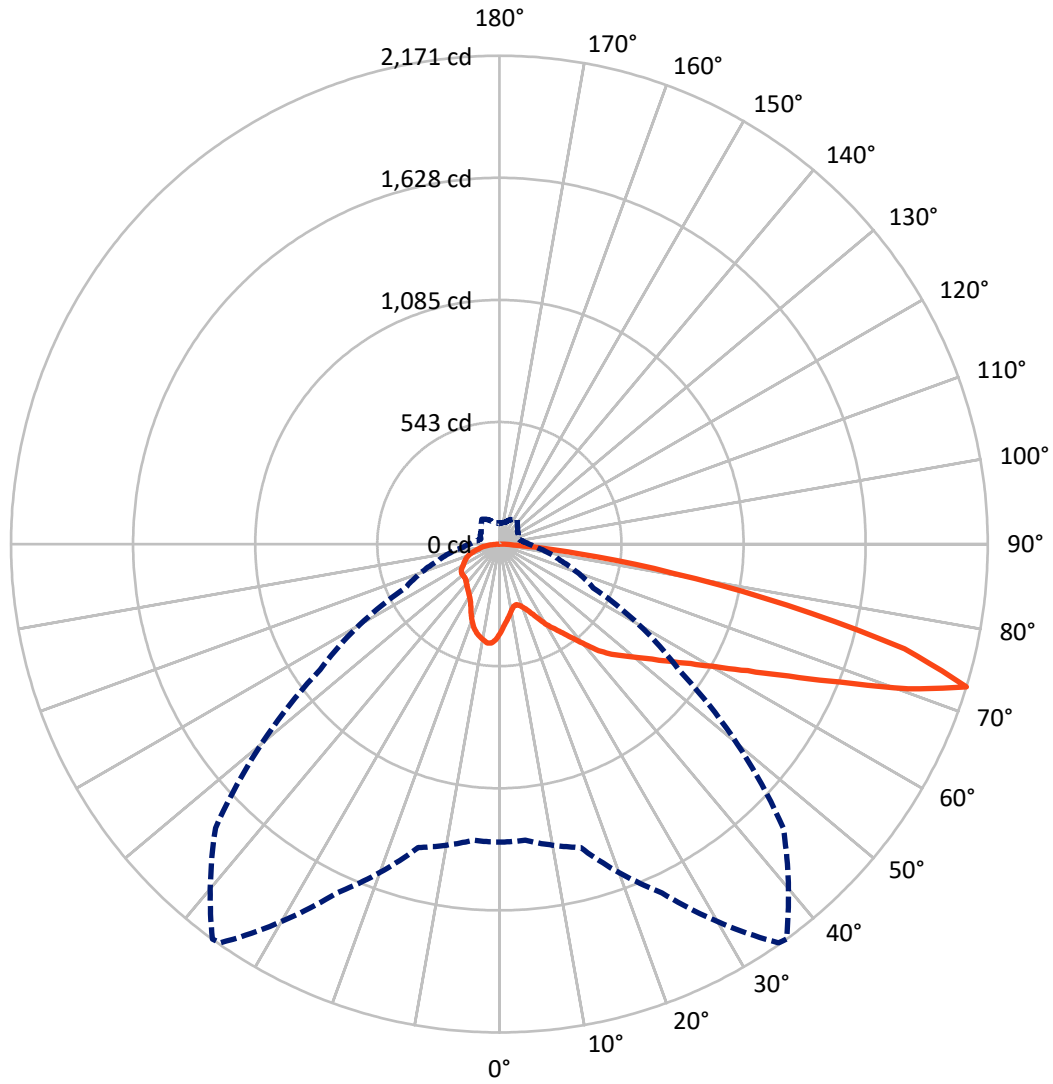
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	624.6	0.0	624.6
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	2084.6	0.0	2084.6
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	2709.2	0.0	2709.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.1	1.4
10°-20°	104.6	3.9
20°-30°	173.2	6.4
30°-40°	259.3	9.6
40°-50°	378.4	14.0
50°-60°	538.5	19.9
60°-70°	680.4	25.1
70°-80°	484.8	17.9
80°-90°	52.9	2.0
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°	2709.2	100.0
0°-180°	2709.2	100.0

**Coefficient of Utilization**



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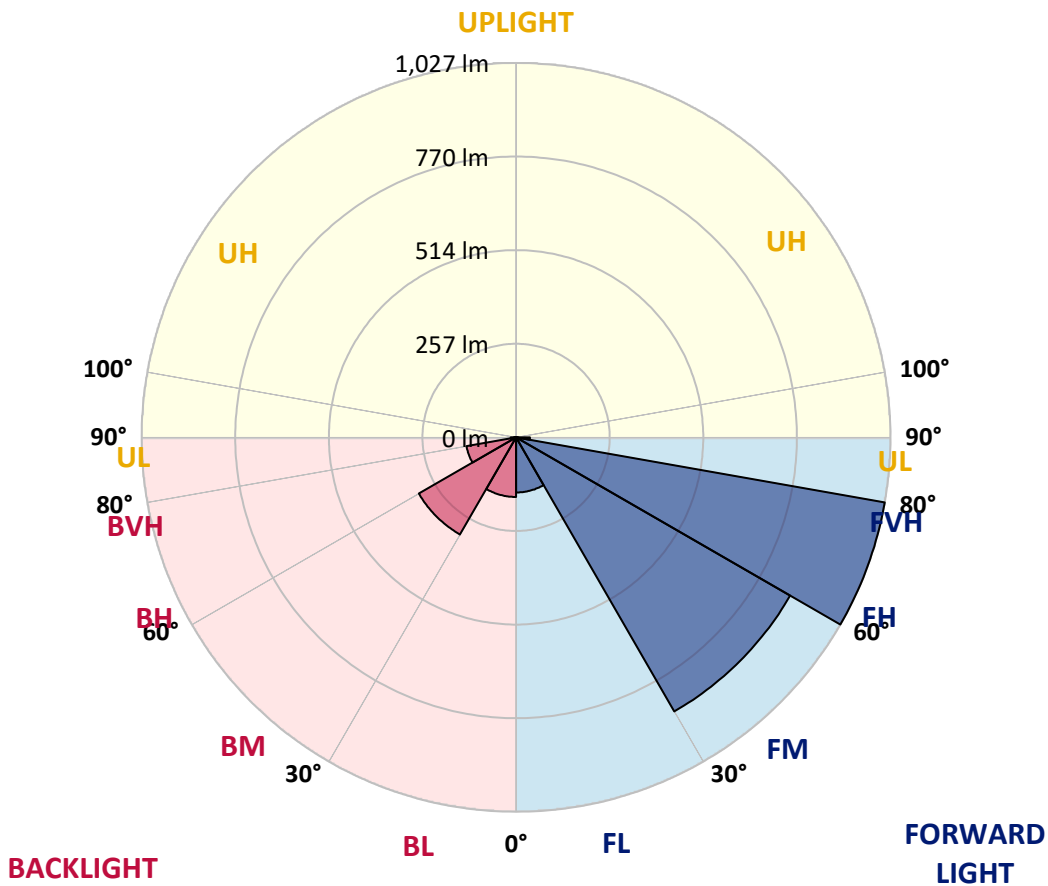
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	151.2	5.6			
FM (30°-60°)	868.2	32.0			
FH (60°-80°)	1027.1	37.9			G1/1800
FVH (80°-90°)	38.0	1.4			G1/100
BL (0°-30°)	163.6	6.0	B1/500		
BM (30°-60°)	308.0	11.4	B1/1000		
BH (60°-80°)	138.1	5.1	B1/500		G1/500
BVH (80°-90°)	14.9	0.6			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	396.5	396.5	396.5	396.5	396.5	396.5	396.5	396.5	396.5	396.5	396.5
2.5°	361.7	361.1	359.9	363.5	367.1	366.7	371.8	376.6	381.8	387.3	394.5
5°	332.8	332.4	331.4	336.8	342.2	342.0	350.3	358.1	368.8	380.4	394.9
7.5°	303.8	302.8	304.2	311.1	318.7	319.5	330.8	343.6	359.1	376.6	397.1
10°	278.3	278.1	278.7	286.3	297.8	298.6	313.1	331.0	351.5	374.8	402.1
12.5°	271.6	271.2	269.6	273.5	282.1	283.3	299.2	321.1	346.2	375.8	409.0
15°	282.5	281.5	275.9	274.1	278.3	279.3	292.8	315.3	343.2	377.6	417.6
17.5°	301.2	300.6	289.9	282.5	285.3	286.1	296.2	314.3	342.4	381.2	428.3
20°	328.5	325.9	309.2	298.0	298.0	299.2	305.2	318.7	343.4	385.6	440.3
22.5°	364.7	359.5	336.0	320.7	316.7	318.3	320.9	329.7	347.6	393.1	455.4
25°	405.4	400.5	372.6	351.1	345.4	346.0	343.8	345.4	356.9	403.3	474.1
27.5°	448.6	445.4	415.6	388.3	379.4	379.4	371.6	367.8	369.8	415.0	495.0
30°	487.2	482.8	457.6	427.7	416.0	416.0	401.1	392.9	388.1	429.3	523.0
32.5°	507.5	504.9	488.2	465.3	451.0	448.8	435.9	426.3	415.0	450.4	560.8
35°	534.0	533.4	523.4	505.5	487.4	484.2	475.3	467.7	448.2	476.7	611.0
37.5°	567.4	566.4	564.8	554.1	532.4	531.8	524.0	514.7	489.4	514.7	672.0
40°	604.8	603.0	601.0	600.8	587.7	585.5	584.9	574.4	539.1	560.6	735.5
42.5°	656.3	650.0	631.1	639.6	649.2	647.2	654.9	639.2	601.0	615.1	795.6
45°	719.6	704.3	666.9	669.4	693.7	697.7	724.2	720.4	669.2	678.0	859.0
47.5°	757.6	744.3	709.6	707.6	737.9	742.9	800.6	807.9	742.5	753.8	937.2
50°	788.8	779.5	751.0	753.8	786.0	791.0	876.4	891.9	811.7	831.4	1028.1
52.5°	826.4	813.1	791.0	804.3	843.7	849.7	960.7	977.4	874.0	916.7	1122.2
55°	847.5	842.1	842.5	862.8	912.2	920.5	1049.0	1046.2	931.1	989.7	1192.9
57.5°	896.2	894.1	912.6	920.3	992.3	1002.9	1137.2	1113.1	983.0	1046.2	1226.9
60°	982.0	977.0	993.1	1004.7	1091.2	1106.3	1235.8	1178.7	1018.2	1088.2	1215.4
62.5°	1102.6	1096.4	1097.0	1115.5	1223.7	1239.6	1345.3	1233.3	1029.1	1094.6	1142.9
65°	1252.6	1243.6	1233.3	1258.5	1399.6	1412.9	1464.6	1273.2	1003.1	1032.7	991.3
67.5°	1410.9	1403.4	1391.4	1444.1	1627.4	1635.5	1598.3	1269.7	920.9	867.0	695.3
70°	1420.1	1421.9	1479.0	1669.7	1924.8	1926.8	1724.8	1201.0	745.8	562.0	346.4
72.5°	1324.8	1321.8	1396.2	1710.9	2164.1	2170.9	1784.5	973.0	460.8	280.3	162.5
75°	1076.1	1081.3	1159.6	1496.9	1854.8	1860.9	1454.7	573.6	219.0	137.1	104.0
77.5°	463.3	492.4	646.6	1054.6	1328.4	1309.7	749.8	232.4	116.8	97.7	79.6
80°	133.7	145.2	230.4	501.5	796.0	781.9	296.8	87.1	81.4	73.4	57.1
82.5°	43.2	47.9	84.4	199.7	356.7	356.3	112.6	51.5	53.3	49.9	36.8
85°	12.1	13.9	25.9	60.5	110.4	108.2	32.6	24.3	28.4	28.8	18.3
87.5°	0.0	0.0	0.2	0.4	0.4	0.4	0.8	3.6	8.2	10.5	7.4
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°	396.5	396.5	396.5	396.5	396.5	396.5	396.5	396.5	396.5	396.5	396.5
2.5°	398.9	398.3	406.6	413.0	419.0	423.0	424.3	425.1	426.7	427.5	426.7
5°	401.7	404.7	418.4	428.5	436.5	441.3	441.5	441.1	442.3	441.3	440.7
7.5°	407.8	413.6	430.9	441.5	446.8	447.0	442.1	436.5	433.7	431.3	430.5
10°	415.8	424.5	443.4	450.4	448.8	441.3	430.7	421.8	416.8	413.2	412.4
12.5°	426.9	436.5	454.4	454.2	444.2	430.9	418.4	407.8	400.5	396.3	394.9
15°	437.3	449.6	462.5	453.0	437.1	421.0	404.9	390.7	381.0	374.4	373.2
17.5°	450.2	463.3	468.3	449.2	428.3	407.6	386.0	367.3	354.3	346.4	345.8
20°	465.1	476.7	471.1	442.5	416.8	389.7	360.5	339.6	325.5	317.9	318.5
22.5°	482.4	490.8	471.9	433.5	400.9	364.3	331.8	311.7	302.2	298.2	298.4
25°	500.9	506.3	470.5	421.2	376.6	333.4	302.2	293.0	292.1	291.1	291.5
27.5°	522.8	521.6	466.3	403.9	343.8	297.4	281.5	283.9	287.1	286.7	287.1
30°	552.1	540.7	460.8	380.0	304.8	267.2	269.2	276.1	280.3	280.7	281.9
32.5°	585.7	561.8	452.2	347.4	267.6	250.3	257.8	266.0	271.0	272.0	273.7
35°	625.7	585.9	436.9	306.8	240.9	240.3	247.1	252.7	258.2	258.6	258.6
37.5°	671.8	610.0	412.6	262.0	224.4	231.6	238.1	239.3	240.7	239.5	240.1
40°	714.0	633.4	378.0	221.2	210.9	224.0	229.4	225.4	221.0	218.0	218.6
42.5°	749.4	649.2	332.2	192.6	197.2	217.2	221.4	213.1	204.5	198.9	199.7
45°	789.2	663.9	278.3	173.3	185.6	212.3	215.1	204.5	193.4	185.0	183.8
47.5°	844.1	693.9	230.4	159.8	177.3	209.7	214.3	199.9	185.4	172.7	171.3
50°	911.8	736.3	190.4	151.0	173.5	208.3	214.1	194.8	177.5	162.7	161.7
52.5°	985.8	777.7	160.9	144.2	169.7	204.1	213.1	189.2	169.3	153.2	152.0
55°	1035.1	794.0	140.9	137.7	163.5	197.4	209.1	183.8	156.8	142.2	140.3
57.5°	1049.6	773.1	127.1	131.9	155.4	188.2	201.5	172.3	149.2	137.5	136.1
60°	1024.6	720.4	118.4	127.1	146.6	176.3	188.2	165.7	143.2	132.7	131.7
62.5°	954.3	639.2	111.8	122.0	137.5	163.9	179.8	157.6	136.5	128.3	126.9
65°	812.7	524.2	106.4	116.8	128.9	152.0	170.5	149.6	129.3	123.1	121.4
67.5°	568.4	368.2	100.5	110.6	120.2	140.5	160.9	142.2	121.8	117.2	115.6
70°	277.9	195.2	93.5	103.3	111.0	128.9	151.2	133.1	112.0	109.4	107.2
72.5°	132.3	109.2	85.3	93.5	98.3	113.4	135.1	120.0	100.3	94.7	90.9
75°	88.7	77.6	74.4	81.8	83.0	95.1	115.8	103.5	88.5	82.0	78.8
77.5°	67.2	59.3	62.5	69.2	66.8	78.2	95.3	92.3	79.8	74.0	72.4
80°	47.3	43.2	49.7	53.7	51.9	66.6	85.9	79.0	65.7	59.3	58.1
82.5°	29.8	29.0	36.6	37.2	37.8	52.7	70.6	62.1	51.1	42.0	39.0
85°	14.9	16.5	21.9	21.9	21.7	27.1	40.2	35.0	27.5	21.9	21.3
87.5°	5.0	7.0	9.5	7.6	5.8	4.6	5.2	6.4	6.8	6.6	6.6
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)