

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: P628872

Luminaire Tested: GWS-SA1A-740-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628872  
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-SA1A-740-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2899.7 lumens  
Efficiency: N/A  
Efficacy: 147.2 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

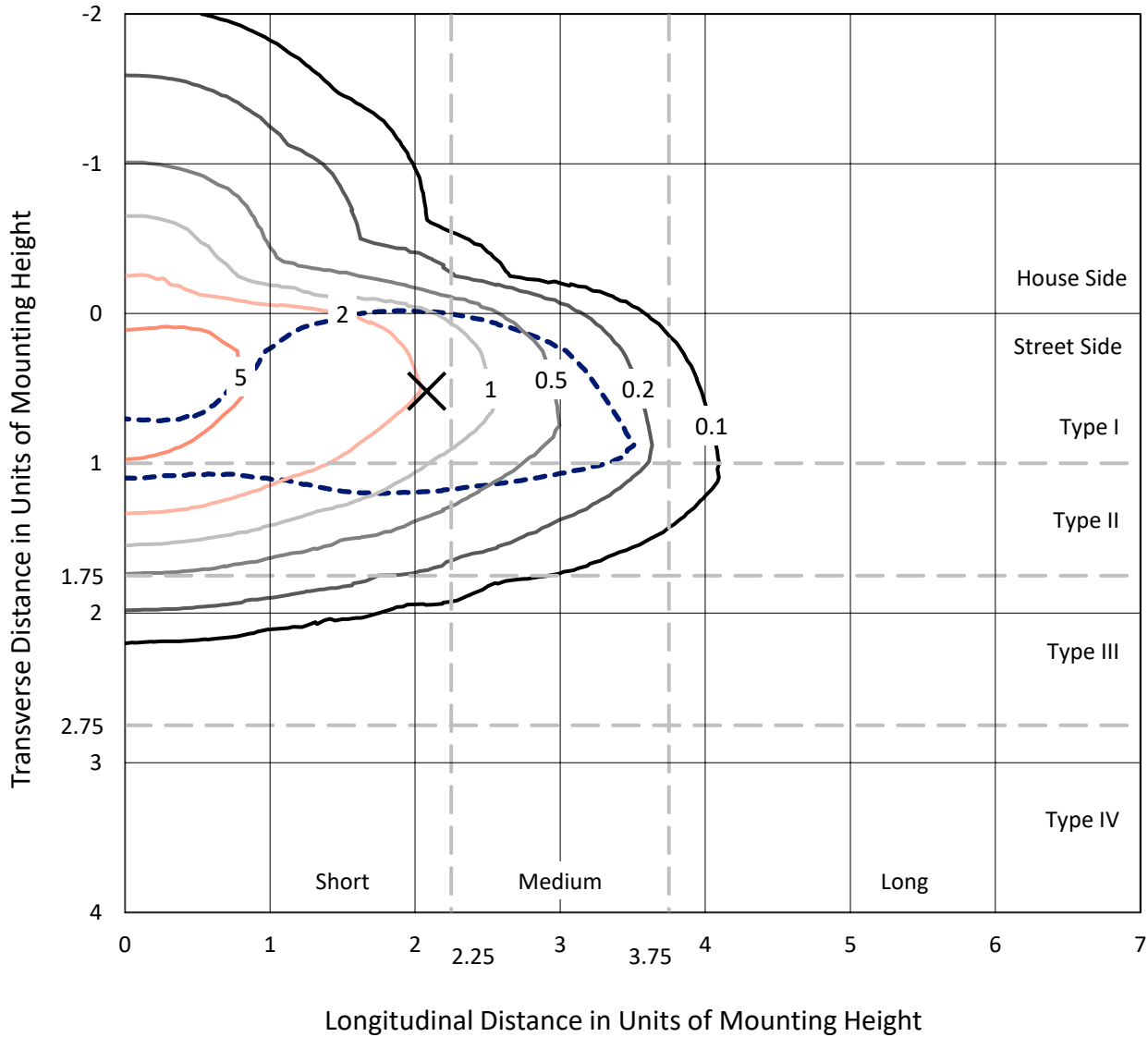


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### Iso-Footcandle Lines of Horizontal Illumination

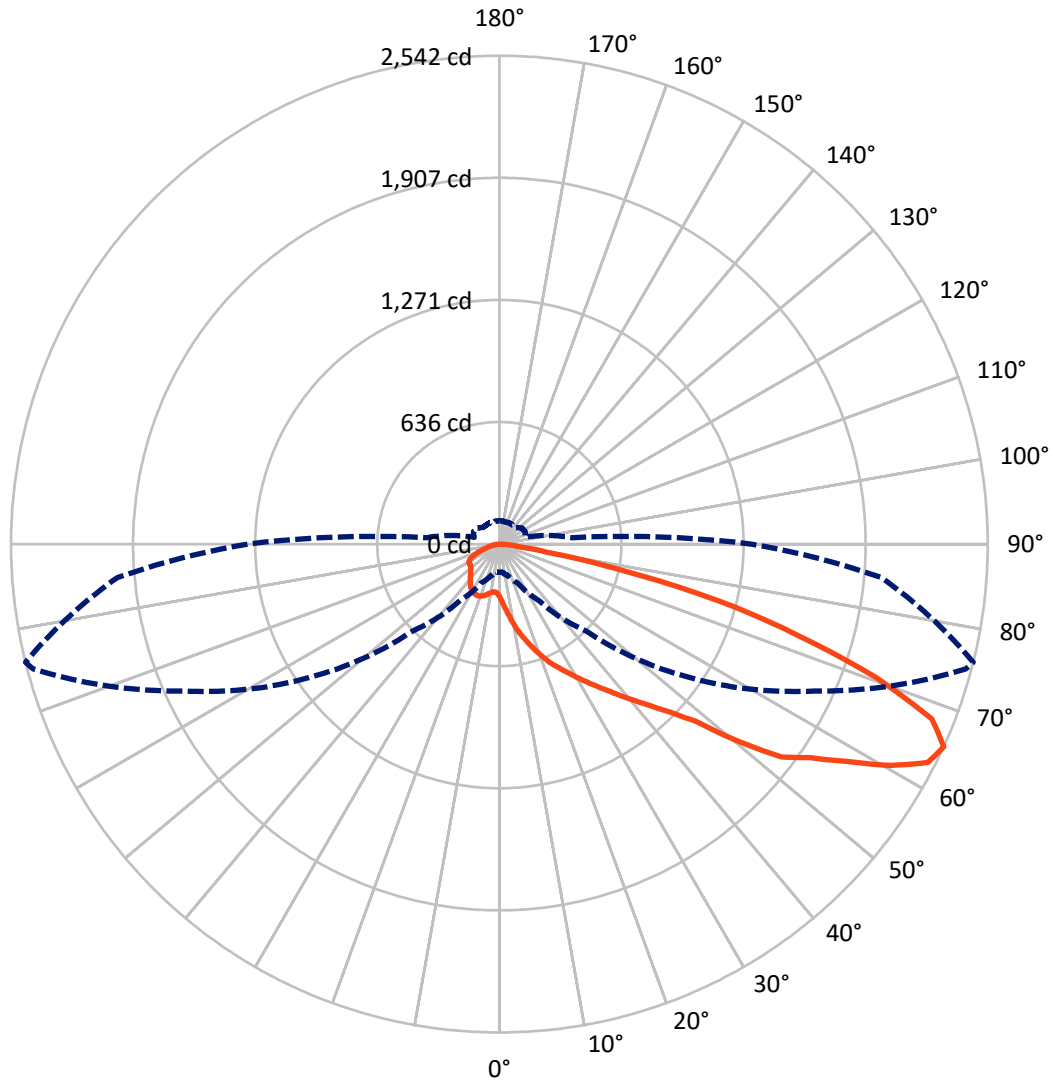
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.1 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
<b>House Side</b>	Lumens	484.7	0.0	484.7
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	2415.0	0.0	2415.0
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	2899.7	0.0	2899.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.6	1.1
10°-20°	124.3	4.3
20°-30°	242.2	8.4
30°-40°	405.0	14.0
40°-50°	579.9	20.0
50°-60°	686.5	23.7
60°-70°	570.8	19.7
70°-80°	233.6	8.1
80°-90°	24.9	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°	2899.7	100.0
0°-180°	2899.7	100.0

**Coefficient of Utilization**



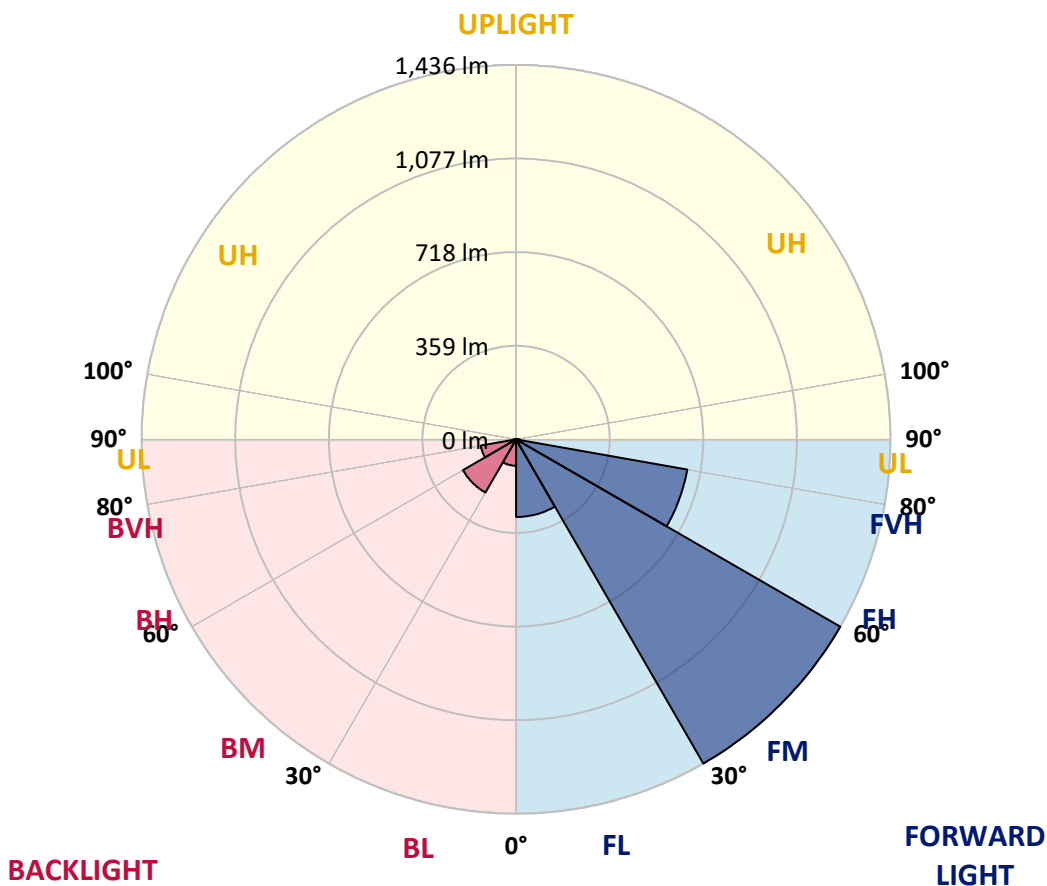
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	297.6	10.3			
FM (30°-60°)	1435.8	49.5			
FH (60°-80°)	666.7	23.0			G1/1800
FVH (80°-90°)	14.8	0.5			G1/100
BL (0°-30°)	101.4	3.5	B0/110		
BM (30°-60°)	235.5	8.1	B1/1000		
BH (60°-80°)	137.7	4.7	B1/500		G1/500
BVH (80°-90°)	10.0	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°	274.6	274.6	274.6	274.6	274.6	274.6	274.6	274.6	274.6	274.6	274.6
2.5°	384.9	386.3	381.6	380.0	369.0	354.1	341.7	322.9	305.6	302.9	287.4
5°	488.8	482.7	477.4	474.0	458.7	441.8	415.5	380.2	343.3	338.8	305.4
7.5°	550.6	549.6	543.1	541.0	529.2	512.3	485.2	441.3	387.7	380.4	329.6
10°	600.1	599.5	596.3	598.1	587.3	570.8	544.5	499.2	436.5	429.1	356.7
12.5°	643.4	644.4	643.8	650.5	645.0	632.2	604.8	555.1	485.2	477.2	389.8
15°	675.0	675.8	678.8	693.5	696.6	693.9	666.2	609.9	533.3	521.9	423.8
17.5°	683.9	685.6	692.9	716.5	733.1	744.1	723.5	665.8	580.6	568.1	458.5
20°	696.0	697.8	705.1	729.8	754.1	779.1	775.5	722.5	628.3	618.1	493.5
22.5°	751.6	750.2	746.9	758.7	776.1	807.3	816.4	776.9	677.6	667.8	532.3
25°	858.8	856.2	835.4	824.6	818.9	837.8	854.1	826.4	725.7	711.0	568.3
27.5°	977.1	975.6	949.1	923.5	888.4	880.2	889.8	869.6	772.4	757.5	599.7
30°	1089.0	1084.7	1057.0	1024.8	977.9	942.8	928.8	912.0	823.6	808.1	636.4
32.5°	1189.1	1183.6	1151.0	1115.3	1066.2	1024.8	982.8	957.1	881.5	863.5	673.9
35°	1271.2	1265.7	1232.3	1194.4	1140.4	1109.8	1052.3	1006.0	940.4	922.2	718.2
37.5°	1334.8	1329.7	1294.9	1257.6	1210.5	1186.2	1136.3	1061.1	1008.3	989.3	765.1
40°	1370.5	1366.8	1338.9	1309.4	1269.8	1248.8	1226.4	1130.6	1084.3	1065.3	820.3
42.5°	1381.3	1378.9	1359.3	1344.0	1317.3	1301.4	1314.2	1212.3	1165.4	1148.9	882.5
45°	1354.2	1354.2	1348.5	1356.2	1357.5	1357.3	1402.3	1304.7	1265.1	1247.0	970.1
47.5°	1284.9	1289.4	1297.7	1335.9	1376.0	1409.6	1505.3	1427.8	1393.3	1378.5	1094.3
50°	1158.1	1170.3	1198.9	1273.3	1358.7	1444.3	1602.7	1609.8	1642.7	1616.4	1276.9
52.5°	972.4	970.5	1043.3	1149.3	1279.6	1445.7	1656.3	1770.5	1858.7	1840.6	1412.7
55°	772.8	769.8	837.6	983.8	1158.3	1391.1	1688.5	1844.1	1978.6	1962.3	1534.8
57.5°	591.8	587.9	648.3	780.1	987.1	1275.1	1682.4	1931.7	2143.5	2135.2	1700.8
60°	407.3	402.6	459.1	574.5	784.4	1097.8	1614.7	1976.8	2336.6	2339.4	1878.3
62.5°	244.6	242.0	282.9	372.4	564.3	878.0	1456.3	1949.5	2490.3	2503.1	1992.5
65°	147.6	145.8	169.8	222.2	358.0	640.7	1212.1	1809.8	2512.5	2542.1	1995.1
67.5°	107.4	107.6	114.6	135.4	208.7	413.8	909.6	1559.5	2396.7	2427.3	1869.3
70°	93.4	93.8	97.4	102.1	126.2	236.9	591.4	1231.1	2054.4	2078.1	1567.8
72.5°	83.0	83.0	85.4	87.9	98.7	144.3	316.8	860.5	1621.5	1627.8	1196.6
75°	73.0	72.4	73.6	74.8	85.6	100.9	154.1	599.5	1197.6	1183.0	773.4
77.5°	58.1	57.5	57.7	58.9	68.7	72.2	78.1	374.5	675.0	637.0	341.7
80°	41.4	41.0	43.2	46.3	50.8	44.2	48.9	181.2	267.7	249.1	132.5
82.5°	24.7	25.5	28.9	31.4	35.1	27.7	31.6	60.5	94.8	92.3	53.8
85°	3.5	3.7	10.4	12.0	15.1	10.8	16.7	27.3	37.9	40.6	19.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.9	10.8	11.0	4.7
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°	274.6	274.6	274.6	274.6	274.6	274.6	274.6	274.6	274.6	274.6	274.6
2.5°	279.5	269.9	256.2	244.8	235.2	227.5	221.0	216.1	214.7	212.6	212.6
5°	289.7	272.3	247.9	230.6	220.6	214.7	210.6	208.5	207.5	206.3	205.7
7.5°	303.7	279.5	246.5	228.9	221.2	217.5	214.9	213.6	212.8	211.6	211.6
10°	323.1	290.1	250.9	234.6	228.5	224.9	221.8	219.8	217.9	216.1	215.7
12.5°	344.1	303.9	259.1	242.4	235.9	231.4	227.1	224.0	221.8	219.6	218.9
15°	367.3	318.2	267.9	249.9	241.8	235.7	230.6	225.9	222.8	219.6	219.1
17.5°	390.2	332.7	275.2	255.0	244.6	237.1	229.7	223.6	219.8	216.1	215.1
20°	417.5	347.2	280.3	256.4	244.0	234.0	225.3	217.5	213.2	208.9	208.3
22.5°	442.6	360.6	282.7	254.4	239.3	227.5	217.3	208.9	204.3	200.0	199.2
25°	466.8	372.4	281.7	249.5	232.2	218.5	207.9	199.6	195.1	190.6	189.4
27.5°	490.3	380.4	277.6	242.0	223.2	208.5	198.3	190.8	186.9	183.1	181.4
30°	513.3	387.7	271.3	232.2	211.8	198.1	189.8	184.5	180.6	176.5	175.3
32.5°	536.5	393.0	261.7	220.8	200.2	189.0	183.9	180.0	175.9	171.8	170.6
35°	560.0	395.3	250.1	207.7	190.4	183.1	181.2	176.7	171.2	166.3	164.7
37.5°	587.9	397.3	235.7	194.9	181.8	180.2	179.8	173.1	166.5	159.8	158.0
40°	621.5	400.0	220.8	183.3	174.9	179.2	177.6	168.4	155.3	148.8	146.8
42.5°	662.7	404.9	205.3	172.7	169.8	175.3	173.5	157.0	148.2	144.5	143.5
45°	723.3	422.8	189.8	164.3	165.9	169.8	167.0	150.2	146.8	144.3	143.1
47.5°	831.1	450.3	176.3	158.0	162.9	164.9	153.9	148.4	145.8	142.5	141.1
50°	943.2	462.3	165.5	154.1	159.4	160.4	146.8	146.0	144.1	140.7	139.2
52.5°	1019.1	460.7	159.0	152.7	156.6	152.7	143.5	143.3	142.1	138.0	136.4
55°	1104.7	463.6	156.2	153.1	155.3	139.6	139.4	140.0	139.4	135.0	134.1
57.5°	1220.3	472.3	154.7	154.5	154.5	133.3	135.6	136.4	135.2	133.1	132.5
60°	1331.4	472.9	152.1	156.2	153.9	129.4	131.1	131.9	130.5	130.1	129.9
62.5°	1373.2	443.6	146.2	154.9	151.5	125.2	126.4	126.8	125.4	126.4	126.2
65°	1311.0	381.2	136.4	149.0	143.9	121.3	120.5	121.5	119.1	121.7	121.9
67.5°	1164.0	302.9	121.5	137.8	133.3	117.0	115.4	115.4	111.3	115.4	115.2
70°	938.5	214.0	99.7	119.9	121.7	111.9	111.1	106.4	99.9	106.0	105.4
72.5°	711.4	153.7	78.5	94.8	104.8	104.8	105.0	97.0	89.5	92.3	89.9
75°	450.7	108.2	62.8	72.6	82.2	91.9	96.6	81.9	75.2	74.0	72.8
77.5°	203.0	71.1	48.9	55.7	58.3	72.6	88.3	70.5	61.4	58.7	57.9
80°	85.0	44.2	34.9	39.3	35.9	61.0	77.9	54.8	45.1	41.4	38.7
82.5°	37.3	26.3	22.2	21.2	22.4	45.3	58.1	36.5	28.1	38.1	38.5
85°	15.7	13.9	11.4	10.4	9.2	17.3	27.3	14.3	17.5	10.0	8.2
87.5°	3.7	4.1	3.1	2.0	1.2	0.2	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)