

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: P629804

Luminaire Tested: GWS-SA1C-735-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1C-735-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3177.9 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

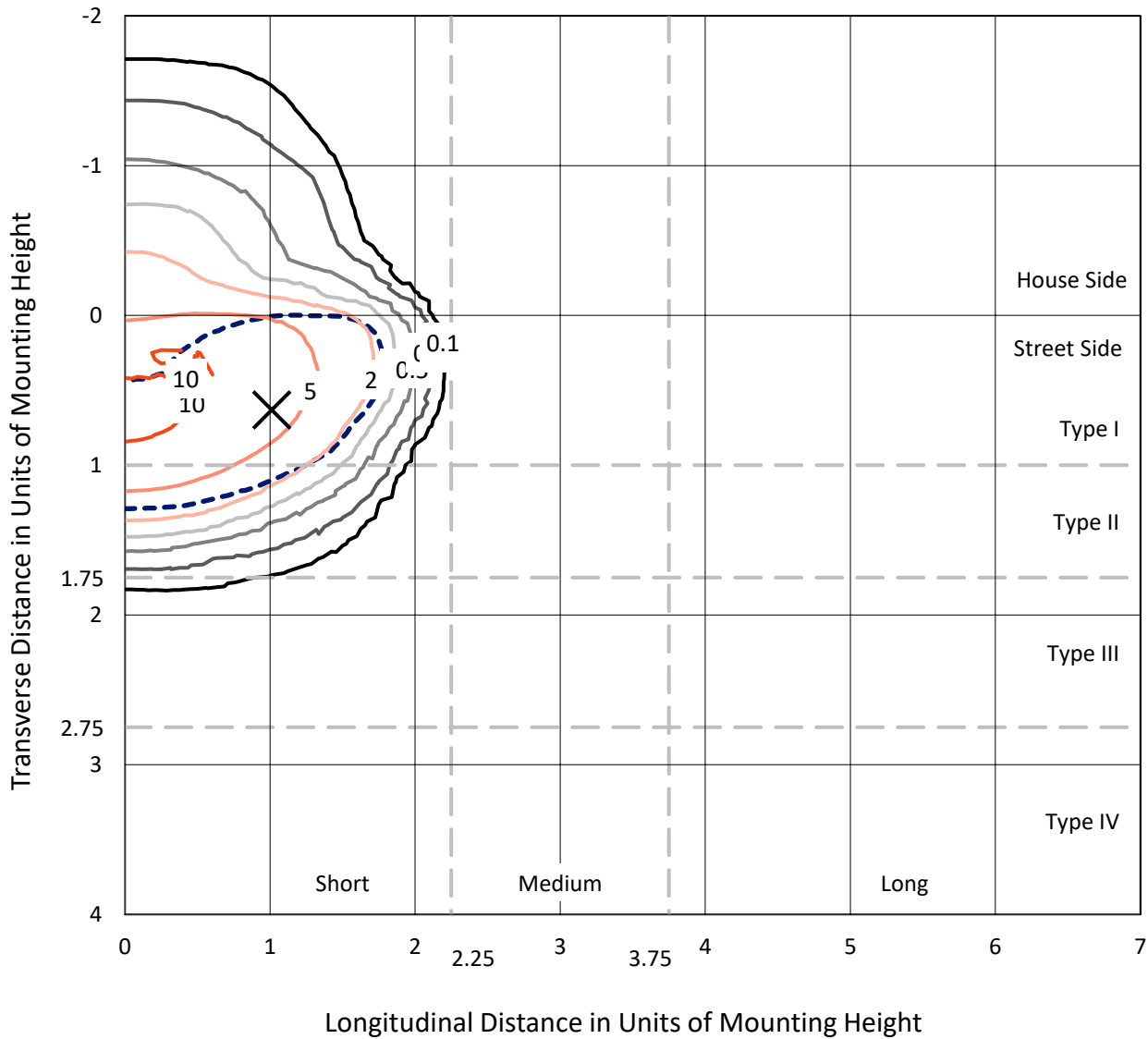
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

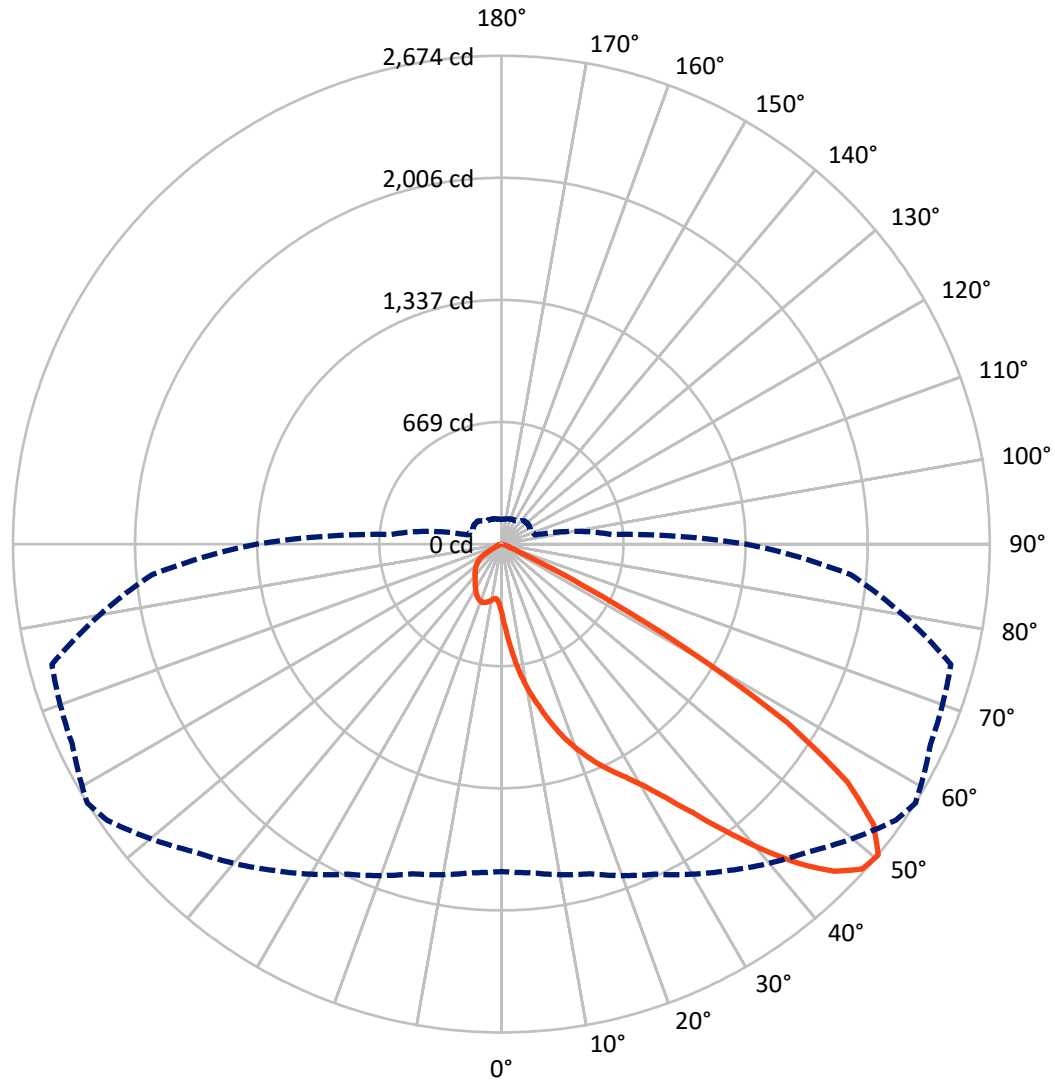
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	445.1	0.0	445.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	2732.8	0.0	2732.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	3177.9	0.0	3177.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.0	1.5
10°-20°	186.2	5.9
20°-30°	376.7	11.9
30°-40°	666.4	21.0
40°-50°	971.5	30.6
50°-60°	778.7	24.5
60°-70°	140.3	4.4
70°-80°	11.1	0.3
80°-90°	0.0	0.0
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°	3177.9	100.0
0°-180°	3177.9	100.0

Coefficient of Utilization



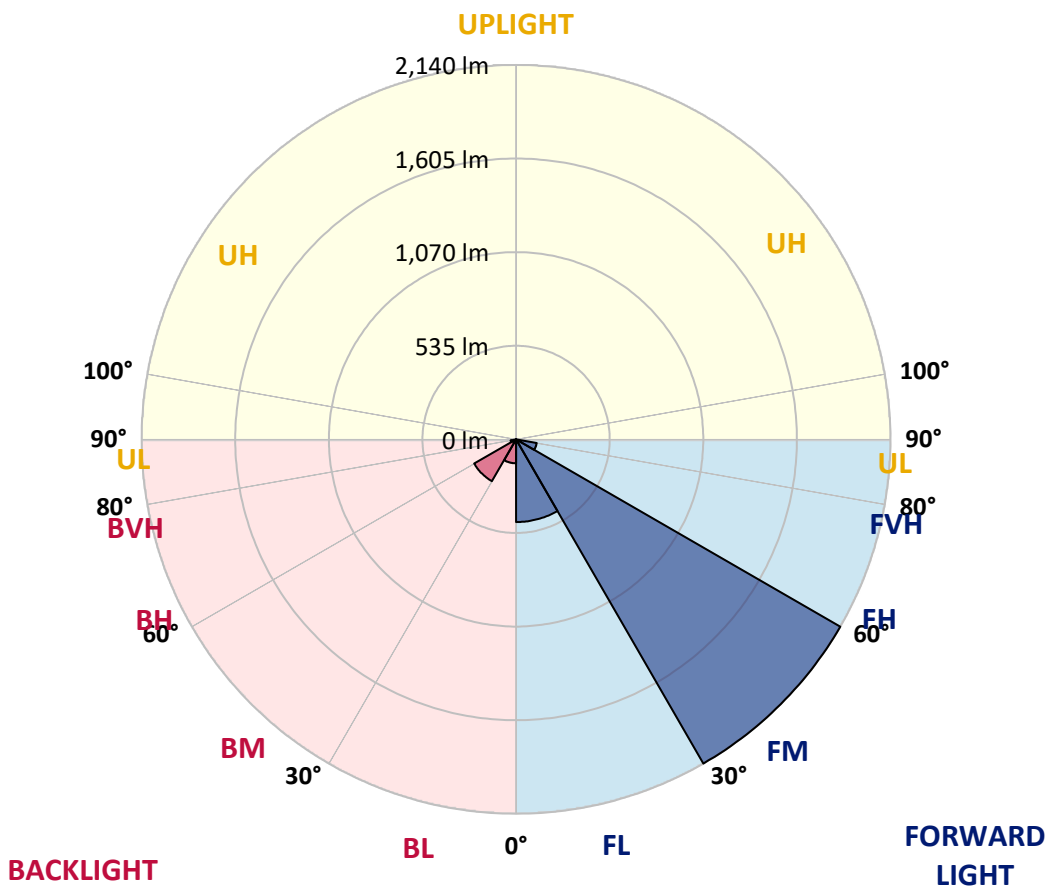
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	472.9	14.9			
FM (30°-60°)	2140.2	67.3			
FH (60°-80°)	119.7	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	137.0	4.3	B1/500		
BM (30°-60°)	276.4	8.7	B1/1000		
BH (60°-80°)	31.6	1.0	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6
2.5°	561.7	552.9	547.8	543.7	525.7	497.2	478.5	468.6	452.3	424.8	401.0
5°	733.0	726.6	714.7	706.5	683.4	643.0	601.2	584.5	547.5	485.3	429.6
7.5°	846.5	841.8	837.4	826.5	804.7	768.0	721.8	704.5	647.4	559.0	467.6
10°	933.9	930.1	925.0	924.7	907.7	874.7	829.5	811.5	749.7	639.2	512.5
12.5°	1010.7	1007.6	1006.6	1016.1	1005.2	980.8	931.8	909.4	843.8	721.1	562.1
15°	1063.3	1062.7	1067.1	1085.8	1091.9	1080.7	1039.6	1015.4	940.0	803.4	616.8
17.5°	1087.5	1089.5	1098.0	1130.3	1157.5	1167.0	1135.4	1115.0	1035.5	886.6	675.3
20°	1128.6	1127.9	1133.0	1163.6	1196.9	1230.9	1221.4	1204.0	1132.0	974.6	740.2
22.5°	1244.5	1234.6	1223.7	1228.5	1240.4	1280.2	1297.8	1289.0	1231.6	1065.0	807.1
25°	1422.5	1412.4	1377.3	1343.4	1320.9	1338.9	1363.1	1367.5	1330.5	1157.8	877.1
27.5°	1611.5	1602.3	1562.9	1511.9	1447.7	1416.4	1434.4	1443.3	1427.6	1268.3	951.5
30°	1788.5	1776.3	1733.2	1669.9	1595.5	1547.6	1527.2	1533.3	1542.5	1399.1	1038.9
32.5°	1942.2	1933.0	1881.3	1814.7	1743.0	1693.1	1645.5	1655.7	1678.1	1559.2	1150.7
35°	2072.3	2067.6	2012.8	1946.6	1870.8	1845.3	1804.5	1806.6	1829.0	1752.5	1287.0
37.5°	2185.5	2177.3	2127.7	2066.2	2006.0	2002.0	1990.7	1991.8	2003.3	1977.8	1443.6
40°	2256.8	2249.4	2214.0	2176.0	2133.1	2133.8	2191.9	2196.3	2183.1	2199.1	1609.1
42.5°	2283.7	2278.2	2259.2	2259.6	2255.1	2275.2	2384.3	2392.4	2344.9	2372.7	1750.5
45°	2237.1	2234.7	2236.1	2285.0	2338.1	2399.9	2541.6	2555.9	2488.6	2487.9	1860.9
47.5°	2086.9	2082.2	2121.9	2205.2	2327.9	2448.2	2636.8	2658.9	2589.2	2553.9	1930.3
50°	1792.6	1806.2	1869.1	1994.1	2180.7	2381.9	2635.8	2674.2	2592.9	2548.1	1918.7
52.5°	1298.5	1295.8	1433.4	1605.4	1832.4	2169.8	2495.7	2551.8	2502.2	2491.3	1892.9
55°	706.5	731.3	824.1	1051.8	1335.2	1768.5	2176.0	2298.3	2355.7	2470.6	1939.4
57.5°	259.6	270.5	328.6	489.7	706.9	1099.7	1662.1	1846.7	2024.1	2412.8	1931.6
60°	104.7	106.7	129.8	180.1	297.0	559.7	997.1	1160.9	1328.1	1847.0	1482.4
62.5°	76.1	78.8	88.0	105.3	150.2	244.7	429.9	499.9	546.5	914.8	730.3
65°	61.5	63.5	71.0	78.8	99.2	131.5	138.7	133.6	132.9	236.5	167.5
67.5°	51.0	53.0	58.5	63.9	71.4	65.6	47.6	50.0	40.8	40.4	33.0
70°	37.4	39.8	45.2	51.0	42.8	17.7	27.5	40.8	30.9	25.8	25.1
72.5°	28.2	29.9	35.0	33.3	12.6	6.8	18.4	29.6	23.8	19.0	18.7
75°	21.1	22.1	17.7	5.4	1.4	1.7	6.8	12.2	13.3	10.9	10.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.0	1.4	1.7	2.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6
2.5°	387.4	373.1	352.7	335.8	322.8	310.3	300.8	291.2	290.9	286.1	285.1
5°	403.7	377.9	340.5	313.7	297.4	287.5	280.7	277.3	275.6	273.9	273.2
7.5°	427.2	390.1	338.5	309.9	296.3	289.9	285.1	283.1	282.1	280.7	280.4
10°	456.1	407.8	346.0	317.1	305.2	299.1	294.0	290.9	289.2	286.8	286.1
12.5°	490.7	429.6	357.8	329.0	316.4	308.2	301.4	297.0	294.6	291.6	290.9
15°	528.1	453.0	371.1	339.8	324.9	314.3	305.9	299.1	294.6	290.9	289.9
17.5°	566.8	476.8	383.0	347.3	329.0	316.4	304.2	295.0	289.5	284.8	283.4
20°	610.3	501.3	390.8	348.7	327.6	310.9	296.7	285.1	279.7	273.2	271.9
22.5°	655.9	524.0	394.2	345.6	320.1	300.8	285.5	273.6	265.8	259.0	256.9
25°	700.1	544.4	392.5	337.1	308.9	286.5	270.8	258.6	250.1	243.3	241.6
27.5°	747.0	561.4	386.4	324.5	293.6	270.8	255.9	245.4	237.5	230.1	228.4
30°	799.6	577.0	376.5	309.2	275.6	254.9	243.3	236.2	227.7	219.9	217.5
32.5°	863.2	591.0	362.3	290.9	259.6	240.9	234.5	229.0	219.2	211.0	209.3
35°	935.9	602.5	344.3	271.9	244.0	232.1	230.7	223.6	210.7	201.2	199.1
37.5°	1020.2	613.7	322.8	253.2	232.4	228.0	228.4	216.1	200.5	188.9	187.6
40°	1110.9	625.0	299.1	236.9	221.9	225.6	222.6	205.3	179.8	168.6	167.2
42.5°	1205.4	637.2	274.9	221.6	213.1	216.5	212.1	183.5	165.2	159.4	158.7
45°	1290.7	651.8	248.8	206.3	204.2	203.2	195.7	166.2	158.4	154.3	153.9
47.5°	1352.2	649.4	220.9	191.7	194.7	191.3	168.6	158.0	151.6	146.1	144.8
50°	1341.0	608.0	192.0	175.4	182.5	179.4	151.6	148.5	142.7	137.0	134.9
52.5°	1312.4	551.6	166.9	158.0	169.2	162.1	140.0	137.0	131.9	124.4	122.0
55°	1327.7	498.5	147.1	144.1	155.6	134.2	127.1	122.3	116.9	108.7	107.7
57.5°	1278.5	406.8	118.3	120.3	137.6	114.5	111.5	104.0	94.8	89.4	88.7
60°	884.9	218.5	74.1	76.5	99.6	96.2	99.9	93.1	81.9	76.8	75.8
62.5°	406.4	87.7	40.4	38.7	52.3	65.2	85.6	85.0	71.0	62.9	62.2
65°	98.6	40.1	28.9	27.2	29.6	39.1	55.7	66.9	57.4	47.9	46.9
67.5°	31.9	32.6	26.5	24.8	26.2	29.2	33.3	37.0	36.7	33.6	33.0
70°	25.5	29.6	24.5	22.4	22.4	23.4	22.4	18.0	15.6	17.0	17.7
72.5°	19.0	22.4	19.4	17.3	16.7	16.3	13.9	10.2	7.1	6.5	6.1
75°	11.2	12.6	11.9	10.2	9.5	8.5	6.8	4.4	2.4	1.7	1.0
77.5°	2.0	2.4	2.7	2.0	1.7	1.4	1.0	0.3	0.0	0.0	0.0
80°	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)