

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: P632112

Luminaire Tested: GWS-SA2C-722-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632112
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-SA2C-722-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4570 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

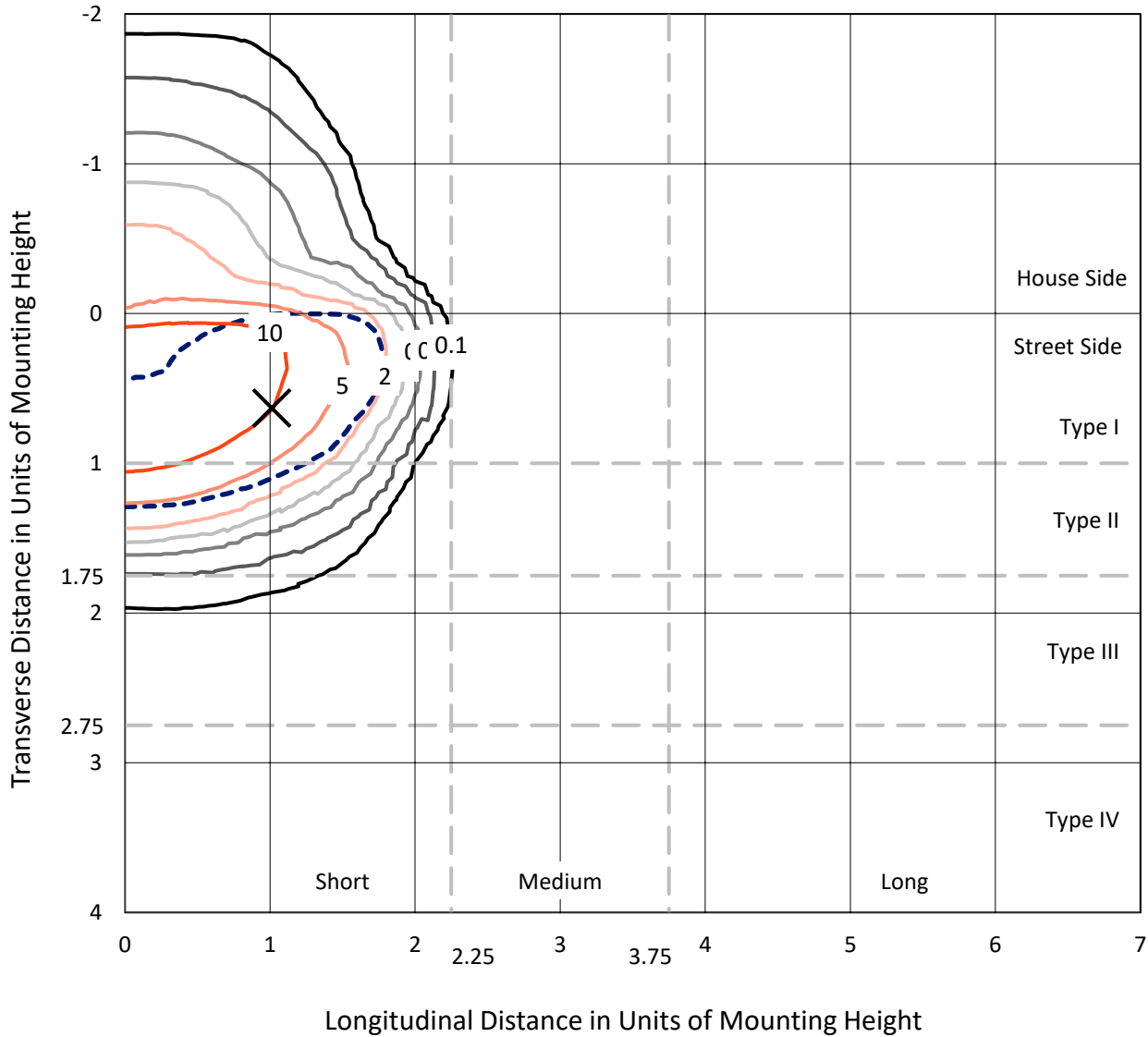
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

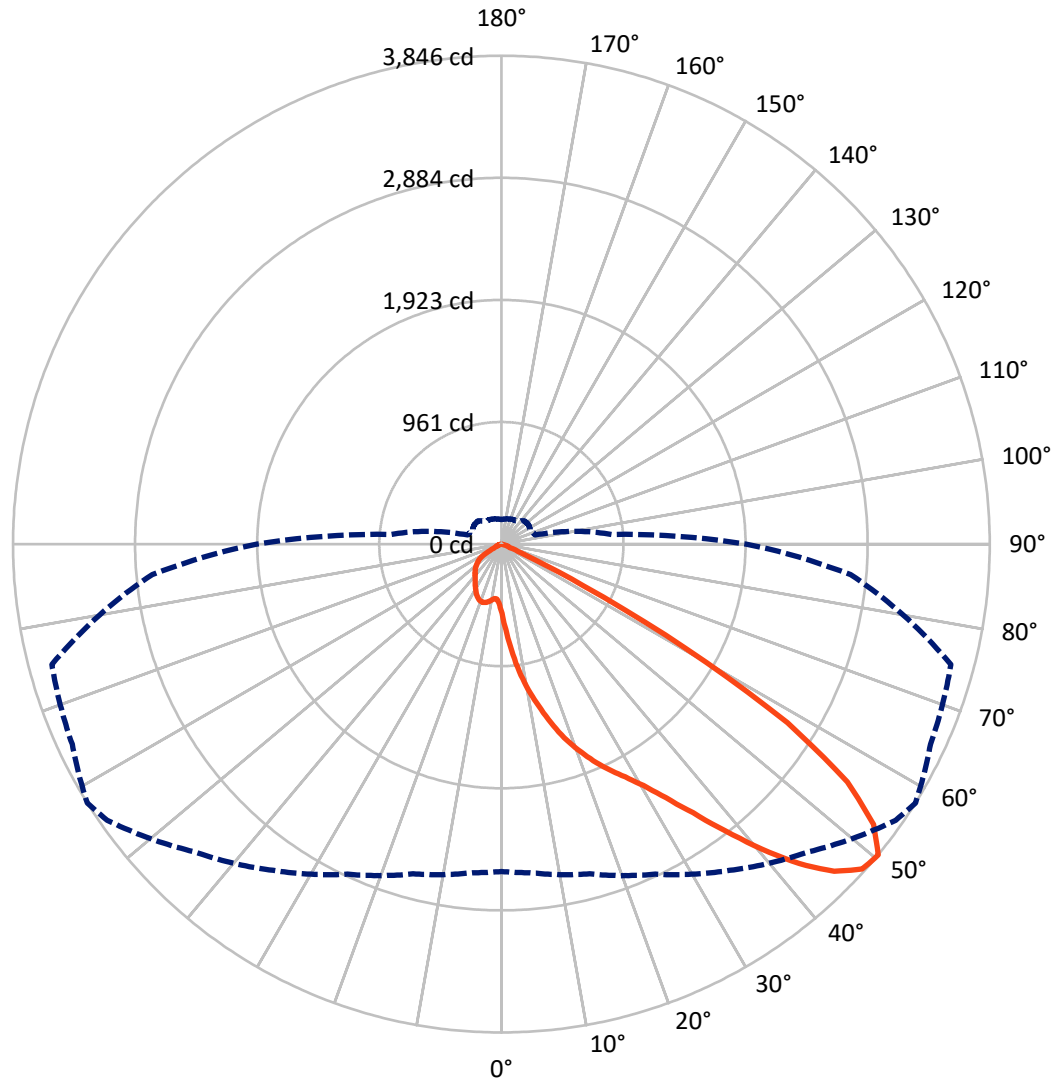
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.8 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	640.1	0.0	640.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	3929.9	0.0	3929.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	4570.0	0.0	4570.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	1.5
10°-20°	267.7	5.9
20°-30°	541.7	11.9
30°-40°	958.4	21.0
40°-50°	1397.1	30.6
50°-60°	1119.8	24.5
60°-70°	201.7	4.4
70°-80°	15.9	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°	4570.0	100.0
0°-180°	4570.0	100.0

Coefficient of Utilization



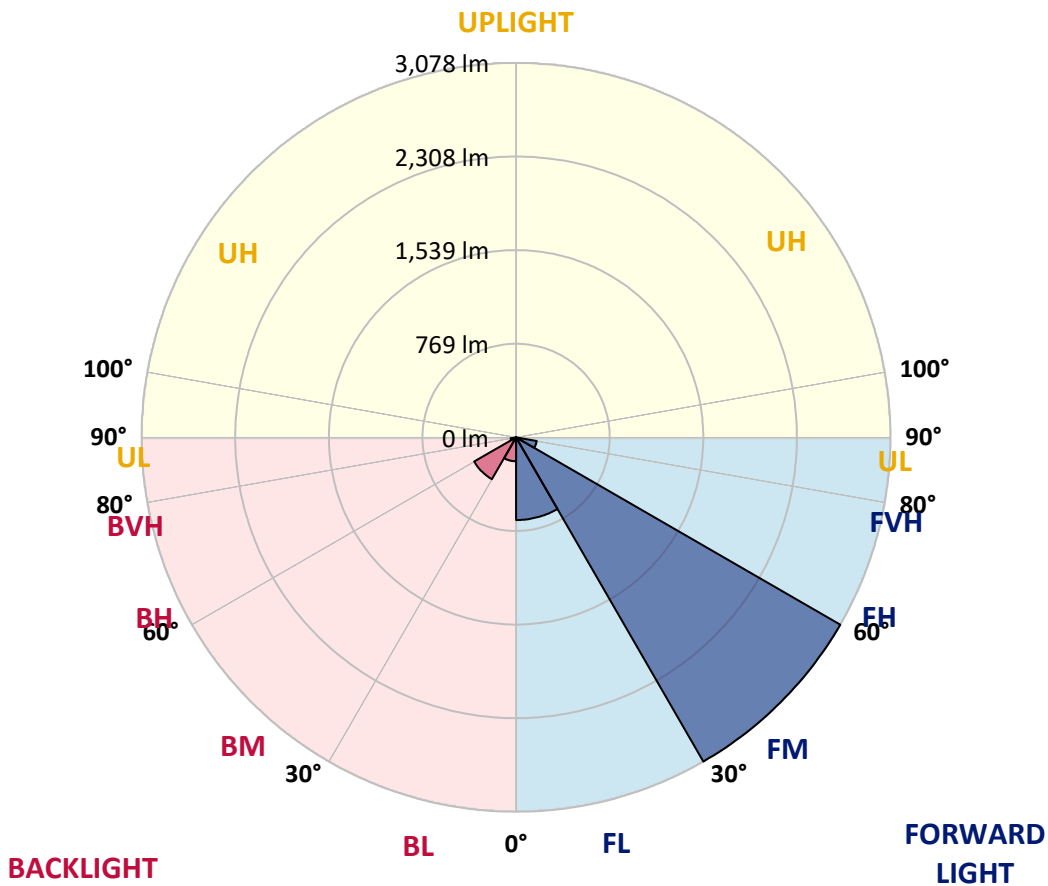
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	680.0	14.9			
FM (30°-60°)	3077.8	67.3			
FH (60°-80°)	172.2	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	197.1	4.3	B1/500		
BM (30°-60°)	397.5	8.7	B1/1000		
BH (60°-80°)	45.5	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°	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9
2.5°	807.8	795.1	787.8	781.9	756.0	715.0	688.1	673.9	650.5	610.9	576.7
5°	1054.1	1044.8	1027.7	1016.0	982.8	924.6	864.5	840.6	787.3	697.9	617.7
7.5°	1217.4	1210.5	1204.2	1188.5	1157.2	1104.5	1038.0	1013.1	931.0	803.9	672.5
10°	1342.9	1337.6	1330.2	1329.8	1305.3	1257.9	1192.9	1167.0	1078.1	919.2	737.0
12.5°	1453.4	1449.0	1447.5	1461.2	1445.6	1410.4	1340.0	1307.8	1213.4	1037.0	808.3
15°	1529.1	1528.2	1534.5	1561.4	1570.2	1554.1	1494.9	1460.2	1351.7	1155.3	887.0
17.5°	1563.8	1566.8	1579.0	1625.4	1664.5	1678.2	1632.7	1603.4	1489.1	1275.0	971.0
20°	1623.0	1622.0	1629.3	1673.3	1721.2	1770.1	1756.4	1731.5	1627.9	1401.6	1064.4
22.5°	1789.6	1775.4	1759.8	1766.7	1783.8	1840.9	1866.3	1853.6	1771.1	1531.6	1160.7
25°	2045.7	2031.0	1980.7	1931.8	1899.6	1925.5	1960.2	1966.5	1913.3	1665.0	1261.3
27.5°	2317.4	2304.2	2247.5	2174.2	2081.9	2036.9	2062.8	2075.5	2053.0	1823.8	1368.4
30°	2572.0	2554.4	2492.4	2401.5	2294.4	2225.5	2196.2	2205.0	2218.2	2012.0	1494.0
32.5°	2792.9	2779.7	2705.4	2609.7	2506.5	2434.7	2366.3	2380.9	2413.2	2242.2	1654.7
35°	2980.1	2973.3	2894.6	2799.3	2690.3	2653.6	2595.0	2597.9	2630.2	2520.2	1850.7
37.5°	3142.8	3131.1	3059.8	2971.3	2884.8	2878.9	2862.8	2864.3	2880.9	2844.2	2076.0
40°	3245.5	3234.7	3183.9	3129.2	3067.6	3068.6	3152.1	3158.5	3139.4	3162.4	2314.0
42.5°	3284.1	3276.2	3248.9	3249.4	3243.0	3271.9	3428.7	3440.5	3372.0	3412.1	2517.3
45°	3217.1	3213.7	3215.7	3286.0	3362.3	3451.2	3655.0	3675.5	3578.8	3577.8	2676.1
47.5°	3001.1	2994.3	3051.4	3171.2	3347.6	3520.6	3791.8	3823.6	3723.4	3672.6	2775.8
50°	2577.9	2597.4	2687.9	2867.7	3136.0	3425.3	3790.4	3845.6	3728.8	3664.3	2759.2
52.5°	1867.3	1863.4	2061.3	2308.6	2635.1	3120.4	3589.0	3669.7	3598.3	3582.7	2722.1
55°	1016.0	1051.7	1185.1	1512.5	1920.1	2543.2	3129.2	3305.1	3387.7	3552.9	2789.0
57.5°	373.4	389.0	472.6	704.2	1016.5	1581.4	2390.2	2655.6	2910.7	3469.8	2777.8
60°	150.5	153.5	186.7	259.0	427.1	804.9	1433.8	1669.4	1909.8	2656.1	2131.7
62.5°	109.5	113.4	126.6	151.5	216.0	351.9	618.2	718.9	785.8	1315.6	1050.2
65°	88.5	91.4	102.1	113.4	142.7	189.1	199.4	192.1	191.1	340.1	240.9
67.5°	73.3	76.2	84.1	91.9	102.6	94.3	68.4	71.8	58.6	58.2	47.4
70°	53.8	57.2	65.0	73.3	61.6	25.4	39.6	58.6	44.5	37.1	36.2
72.5°	40.6	43.0	50.3	47.9	18.1	9.8	26.4	42.5	34.2	27.4	26.9
75°	30.3	31.8	25.4	7.8	2.0	2.4	9.8	17.6	19.1	15.6	15.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.5	2.0	2.4	2.9
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°	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9
2.5°	557.1	536.6	507.3	482.8	464.3	446.2	432.5	418.8	418.3	411.5	410.0
5°	580.6	543.4	489.7	451.1	427.6	413.4	403.7	398.8	396.3	393.9	392.9
7.5°	614.3	561.0	486.7	445.7	426.1	416.9	410.0	407.1	405.6	403.7	403.2
10°	655.8	586.4	497.5	456.0	438.9	430.1	422.7	418.3	415.9	412.5	411.5
12.5°	705.7	617.7	514.6	473.1	455.0	443.3	433.5	427.1	423.7	419.3	418.3
15°	759.4	651.4	533.7	488.7	467.2	452.0	439.8	430.1	423.7	418.3	416.9
17.5°	815.2	685.6	550.8	499.5	473.1	455.0	437.4	424.2	416.4	409.5	407.6
20°	877.7	720.8	562.0	501.4	471.1	447.2	426.6	410.0	402.2	392.9	391.0
22.5°	943.2	753.6	566.9	497.0	460.4	432.5	410.5	393.4	382.2	372.4	369.5
25°	1006.7	782.9	564.4	484.8	444.2	412.0	389.5	371.9	359.7	349.9	347.5
27.5°	1074.2	807.3	555.7	466.7	422.2	389.5	368.0	352.8	341.6	330.9	328.4
30°	1149.9	829.8	541.5	444.7	396.3	366.5	349.9	339.6	327.4	316.2	312.8
32.5°	1241.3	849.9	521.0	418.3	373.4	346.5	337.2	329.4	315.2	303.5	301.0
35°	1345.9	866.5	495.1	391.0	350.9	333.8	331.8	321.6	303.0	289.3	286.4
37.5°	1467.1	882.6	464.3	364.1	334.3	327.9	328.4	310.8	288.3	271.7	269.8
40°	1597.6	898.7	430.1	340.6	319.1	324.5	320.1	295.2	258.5	242.4	240.4
42.5°	1733.4	916.3	395.4	318.6	306.4	311.3	304.9	263.9	237.5	229.2	228.2
45°	1856.1	937.3	357.7	296.6	293.7	292.2	281.5	239.0	227.7	221.9	221.4
47.5°	1944.5	933.9	317.7	275.6	280.0	275.1	242.4	227.2	218.0	210.1	208.2
50°	1928.4	874.3	276.1	252.2	262.4	258.0	218.0	213.6	205.3	196.9	194.0
52.5°	1887.4	793.2	240.0	227.2	243.4	233.1	201.3	196.9	189.6	178.9	175.4
55°	1909.4	716.9	211.6	207.2	223.8	193.0	182.8	175.9	168.1	156.4	154.9
57.5°	1838.5	585.0	170.1	173.0	197.9	164.7	160.3	149.5	136.3	128.5	127.6
60°	1272.6	314.2	106.5	110.0	143.2	138.3	143.7	133.9	117.8	110.4	109.0
62.5°	584.5	126.1	58.2	55.7	75.3	93.8	123.2	122.2	102.1	90.4	89.4
65°	141.7	57.7	41.5	39.1	42.5	56.2	80.1	96.3	82.6	68.9	67.4
67.5°	45.9	46.9	38.1	35.7	37.6	42.0	47.9	53.3	52.8	48.4	47.4
70°	36.7	42.5	35.2	32.3	32.3	33.7	32.3	25.9	22.5	24.4	25.4
72.5°	27.4	32.3	27.9	24.9	23.9	23.5	20.0	14.7	10.3	9.3	8.8
75°	16.1	18.1	17.1	14.7	13.7	12.2	9.8	6.4	3.4	2.4	1.5
77.5°	2.9	3.4	3.9	2.9	2.4	2.0	1.5	0.5	0.0	0.0	0.0
80°	0.0	0.5	0.5	0.5	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)