

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: P631122

Luminaire Tested: GWS-SA1F-722-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631122
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-SA1F-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4160 lumens
Efficiency: N/A
Efficacy: 61.9 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

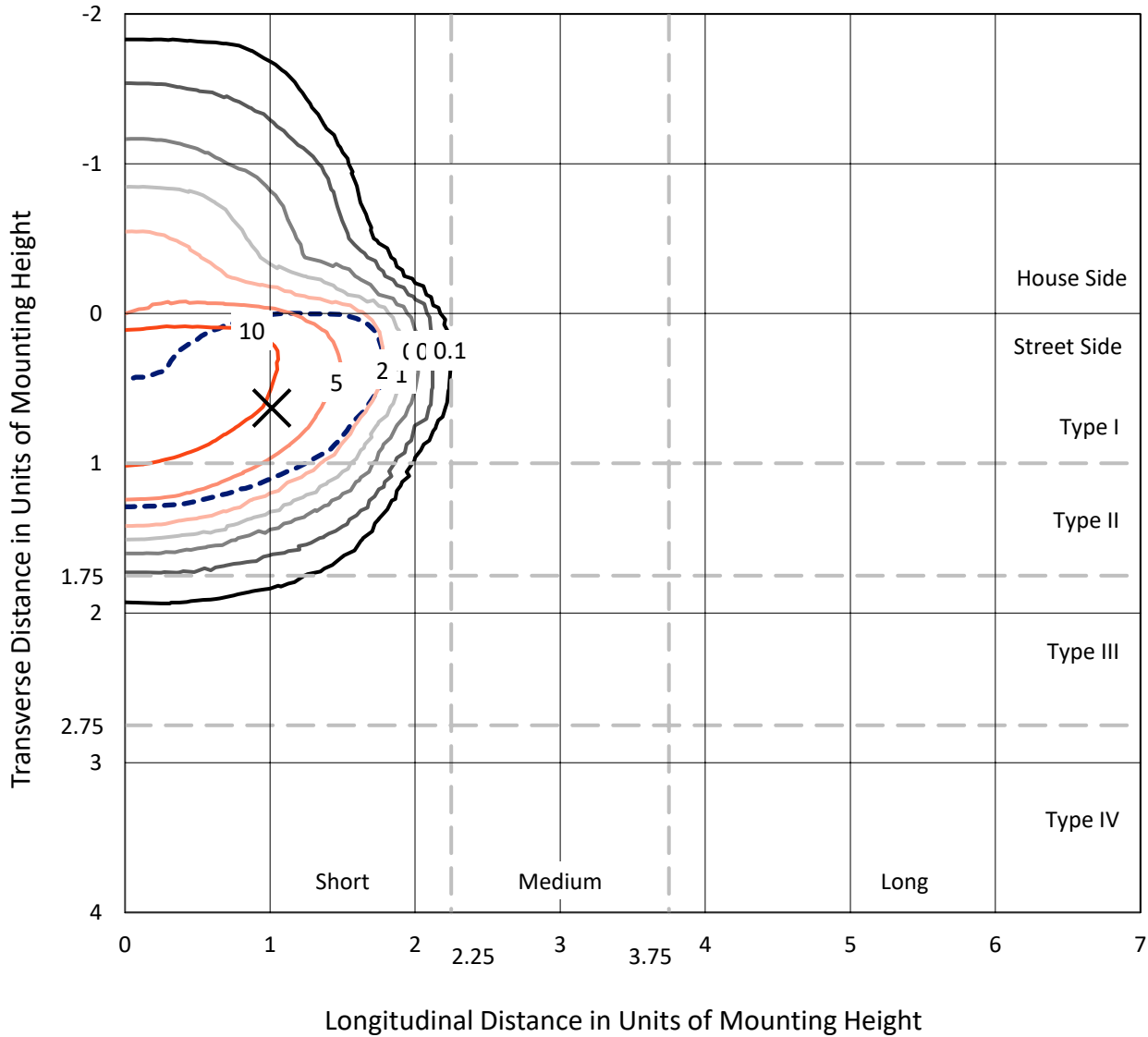
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

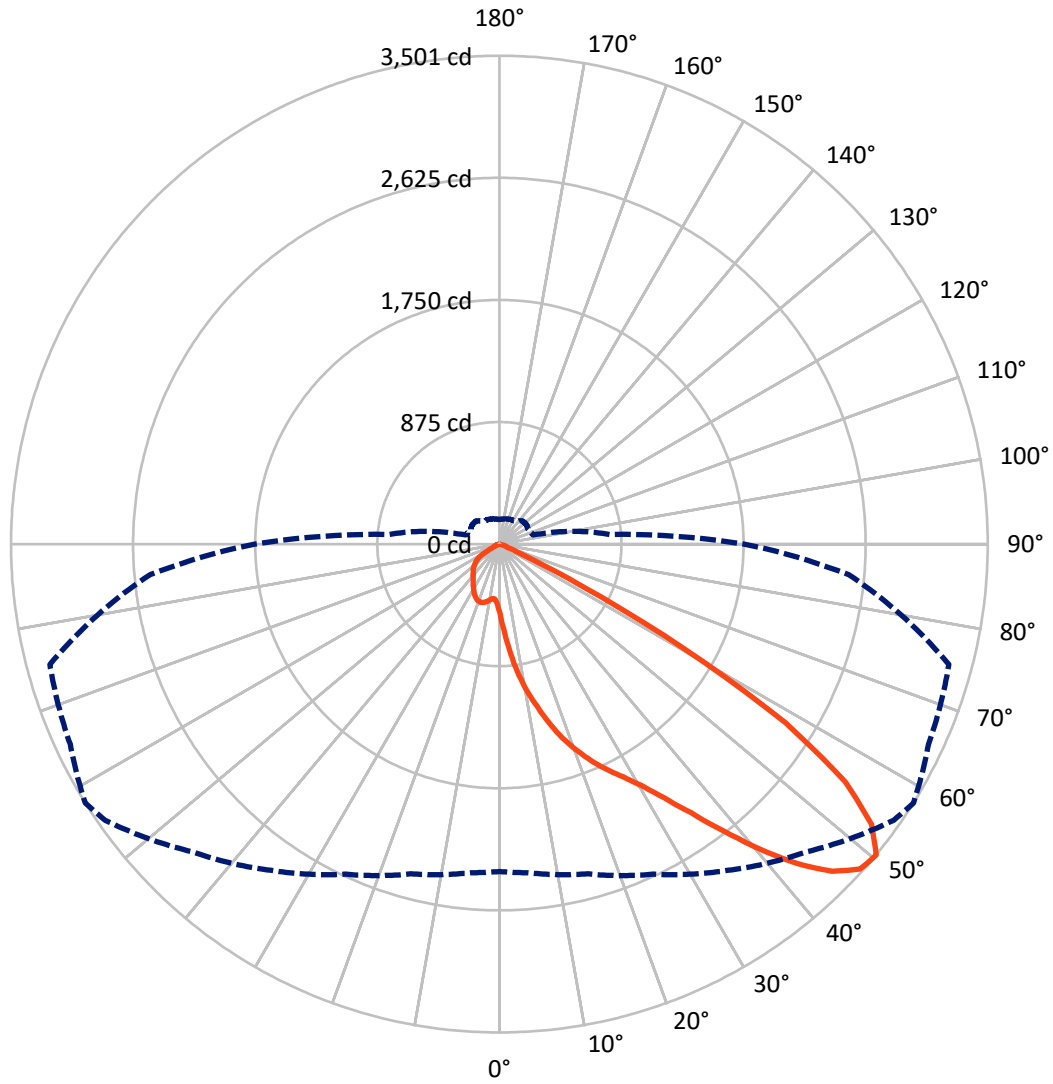
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.3 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	582.7	0.0	582.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	3577.3	0.0	3577.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	4160.0	0.0	4160.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.6	1.5
10°-20°	243.7	5.9
20°-30°	493.1	11.9
30°-40°	872.4	21.0
40°-50°	1271.8	30.6
50°-60°	1019.3	24.5
60°-70°	183.6	4.4
70°-80°	14.5	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°	4160.0	100.0
0°-180°	4160.0	100.0

Coefficient of Utilization



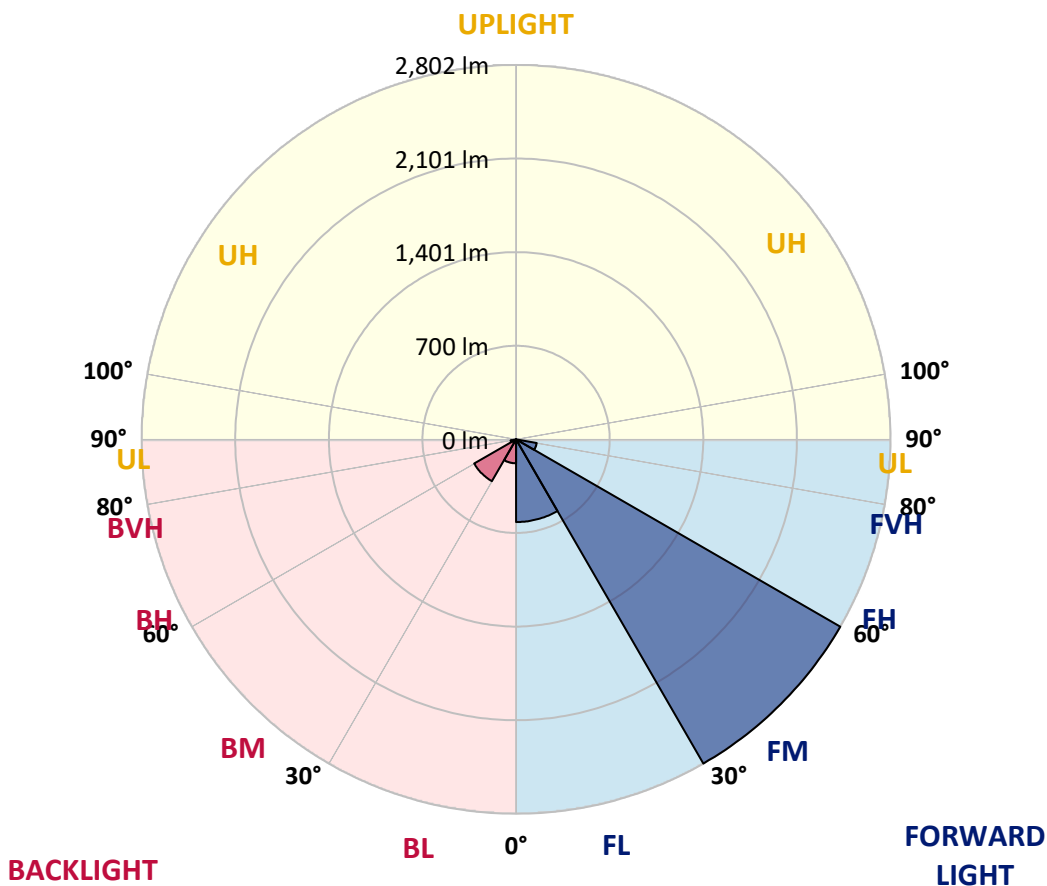
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	619.0	14.9			
FM (30°-60°)	2801.6	67.3			
FH (60°-80°)	156.7	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	179.4	4.3	B1/500		
BM (30°-60°)	361.9	8.7	B1/1000		
BH (60°-80°)	41.4	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°	496.9	496.9	496.9	496.9	496.9	496.9	496.9	496.9	496.9	496.9	496.9
2.5°	735.3	723.8	717.1	711.8	688.2	650.8	626.4	613.5	592.1	556.1	524.9
5°	959.6	951.1	935.5	924.9	894.6	841.7	787.0	765.2	716.7	635.3	562.3
7.5°	1108.1	1101.9	1096.1	1081.9	1053.4	1005.4	944.9	922.2	847.5	731.8	612.1
10°	1222.5	1217.6	1210.9	1210.5	1188.2	1145.1	1085.9	1062.3	981.4	836.8	670.8
12.5°	1323.0	1319.0	1317.7	1330.1	1315.9	1283.9	1219.8	1190.4	1104.6	944.0	735.8
15°	1392.0	1391.1	1396.8	1421.3	1429.3	1414.6	1360.8	1329.2	1230.5	1051.6	807.4
17.5°	1423.5	1426.2	1437.3	1479.6	1515.2	1527.6	1486.3	1459.6	1355.5	1160.6	883.9
20°	1477.4	1476.5	1483.2	1523.2	1566.8	1611.3	1598.8	1576.1	1481.8	1275.8	968.9
22.5°	1629.1	1616.2	1601.9	1608.2	1623.7	1675.8	1698.9	1687.3	1612.2	1394.2	1056.5
25°	1862.2	1848.8	1803.0	1758.5	1729.2	1752.7	1784.3	1790.1	1741.6	1515.6	1148.2
27.5°	2109.5	2097.5	2045.9	1979.2	1895.1	1854.2	1877.7	1889.3	1868.8	1660.2	1245.6
30°	2341.3	2325.3	2268.8	2186.0	2088.6	2025.9	1999.2	2007.2	2019.2	1831.5	1359.9
32.5°	2542.4	2530.3	2462.7	2375.5	2281.7	2216.3	2154.0	2167.3	2196.7	2041.0	1506.3
35°	2712.7	2706.5	2634.9	2548.1	2448.9	2415.6	2362.2	2364.9	2394.2	2294.1	1684.7
37.5°	2860.9	2850.2	2785.2	2704.7	2626.0	2620.7	2606.0	2607.3	2622.4	2589.1	1889.8
40°	2954.3	2944.5	2898.2	2848.4	2792.4	2793.3	2869.3	2875.1	2857.8	2878.7	2106.4
42.5°	2989.4	2982.3	2957.4	2957.9	2952.1	2978.3	3121.1	3131.8	3069.5	3106.0	2291.5
45°	2928.5	2925.4	2927.2	2991.2	3060.6	3141.6	3327.1	3345.8	3257.7	3256.8	2436.0
47.5°	2731.9	2725.6	2777.7	2886.7	3047.3	3204.7	3451.6	3480.6	3389.4	3343.1	2526.8
50°	2346.6	2364.4	2446.7	2610.4	2854.6	3118.0	3450.3	3500.6	3394.3	3335.5	2511.7
52.5°	1699.8	1696.2	1876.4	2101.5	2398.7	2840.4	3267.0	3340.4	3275.5	3261.2	2477.9
55°	924.9	957.3	1078.8	1376.8	1747.8	2315.0	2848.4	3008.6	3083.7	3234.1	2538.8
57.5°	339.9	354.1	430.2	641.0	925.3	1439.6	2175.8	2417.4	2649.6	3158.5	2528.6
60°	137.0	139.7	169.9	235.8	388.8	732.7	1305.2	1519.6	1738.5	2417.8	1940.5
62.5°	99.6	103.2	115.2	137.9	196.6	320.3	562.7	654.4	715.3	1197.6	956.0
65°	80.5	83.2	93.0	103.2	129.9	172.2	181.5	174.8	173.9	309.6	219.3
67.5°	66.7	69.4	76.5	83.6	93.4	85.9	62.3	65.4	53.4	52.9	43.2
70°	48.9	52.0	59.2	66.7	56.1	23.1	36.0	53.4	40.5	33.8	32.9
72.5°	36.9	39.1	45.8	43.6	16.5	8.9	24.0	38.7	31.1	24.9	24.5
75°	27.6	28.9	23.1	7.1	1.8	2.2	8.9	16.0	17.3	14.2	14.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.3	1.8	2.2	2.7
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°	496.9	496.9	496.9	496.9	496.9	496.9	496.9	496.9	496.9	496.9	496.9
2.5°	507.1	488.5	461.8	439.5	422.6	406.2	393.7	381.2	380.8	374.6	373.2
5°	528.5	494.7	445.7	410.6	389.2	376.3	367.5	363.0	360.8	358.6	357.7
7.5°	559.2	510.7	443.1	405.7	387.9	379.5	373.2	370.6	369.2	367.5	367.0
10°	597.0	533.8	452.9	415.1	399.5	391.5	384.8	380.8	378.6	375.5	374.6
12.5°	642.4	562.3	468.4	430.6	414.2	403.5	394.6	388.8	385.7	381.7	380.8
15°	691.3	593.0	485.8	444.9	425.3	411.5	400.4	391.5	385.7	380.8	379.5
17.5°	742.0	624.1	501.4	454.6	430.6	414.2	398.1	386.1	379.0	372.8	371.0
20°	799.0	656.2	511.6	456.4	428.8	407.0	388.4	373.2	366.1	357.7	355.9
22.5°	858.6	686.0	516.0	452.4	419.1	393.7	373.7	358.1	347.9	339.0	336.3
25°	916.4	712.7	513.8	441.3	404.4	375.0	354.6	338.5	327.4	318.5	316.3
27.5°	977.8	734.9	505.8	424.8	384.4	354.6	335.0	321.2	311.0	301.2	298.9
30°	1046.7	755.4	492.9	404.8	360.8	333.6	318.5	309.2	298.1	287.8	284.7
32.5°	1129.9	773.6	474.2	380.8	339.9	315.4	307.0	299.8	286.9	276.3	274.0
35°	1225.1	788.7	450.6	355.9	319.4	303.8	302.1	292.7	275.8	263.4	260.7
37.5°	1335.5	803.4	422.6	331.4	304.3	298.5	298.9	282.9	262.5	247.3	245.6
40°	1454.2	818.1	391.5	310.1	290.5	295.4	291.4	268.7	235.3	220.6	218.9
42.5°	1577.9	834.1	359.9	290.0	278.9	283.4	277.6	240.2	216.2	208.6	207.7
45°	1689.6	853.2	325.6	270.0	267.4	266.0	256.2	217.5	207.3	202.0	201.5
47.5°	1770.1	850.1	289.2	250.9	254.9	250.5	220.6	206.9	198.4	191.3	189.5
50°	1755.4	795.8	251.3	229.5	238.9	234.9	198.4	194.4	186.8	179.3	176.6
52.5°	1718.0	722.0	218.4	206.9	221.5	212.2	183.3	179.3	172.6	162.8	159.7
55°	1738.1	652.6	192.6	188.6	203.7	175.7	166.4	160.1	153.0	142.4	141.0
57.5°	1673.6	532.5	154.8	157.5	180.2	149.9	145.9	136.1	124.1	117.0	116.1
60°	1158.4	286.0	97.0	100.1	130.3	125.9	130.8	121.9	107.2	100.5	99.2
62.5°	532.0	114.8	52.9	50.7	68.5	85.4	112.1	111.2	93.0	82.3	81.4
65°	129.0	52.5	37.8	35.6	38.7	51.2	73.0	87.6	75.2	62.7	61.4
67.5°	41.8	42.7	34.7	32.5	34.3	38.3	43.6	48.5	48.0	44.0	43.2
70°	33.4	38.7	32.0	29.4	29.4	30.7	29.4	23.6	20.5	22.2	23.1
72.5°	24.9	29.4	25.4	22.7	21.8	21.4	18.2	13.3	9.3	8.5	8.0
75°	14.7	16.5	15.6	13.3	12.5	11.1	8.9	5.8	3.1	2.2	1.3
77.5°	2.7	3.1	3.6	2.7	2.2	1.8	1.3	0.4	0.0	0.0	0.0
80°	0.0	0.4	0.4	0.4	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)