

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: P631397

Luminaire Tested: GWS-SA1F-750-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631397
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5777 lumens
Efficiency: N/A
Efficacy: 86.0 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

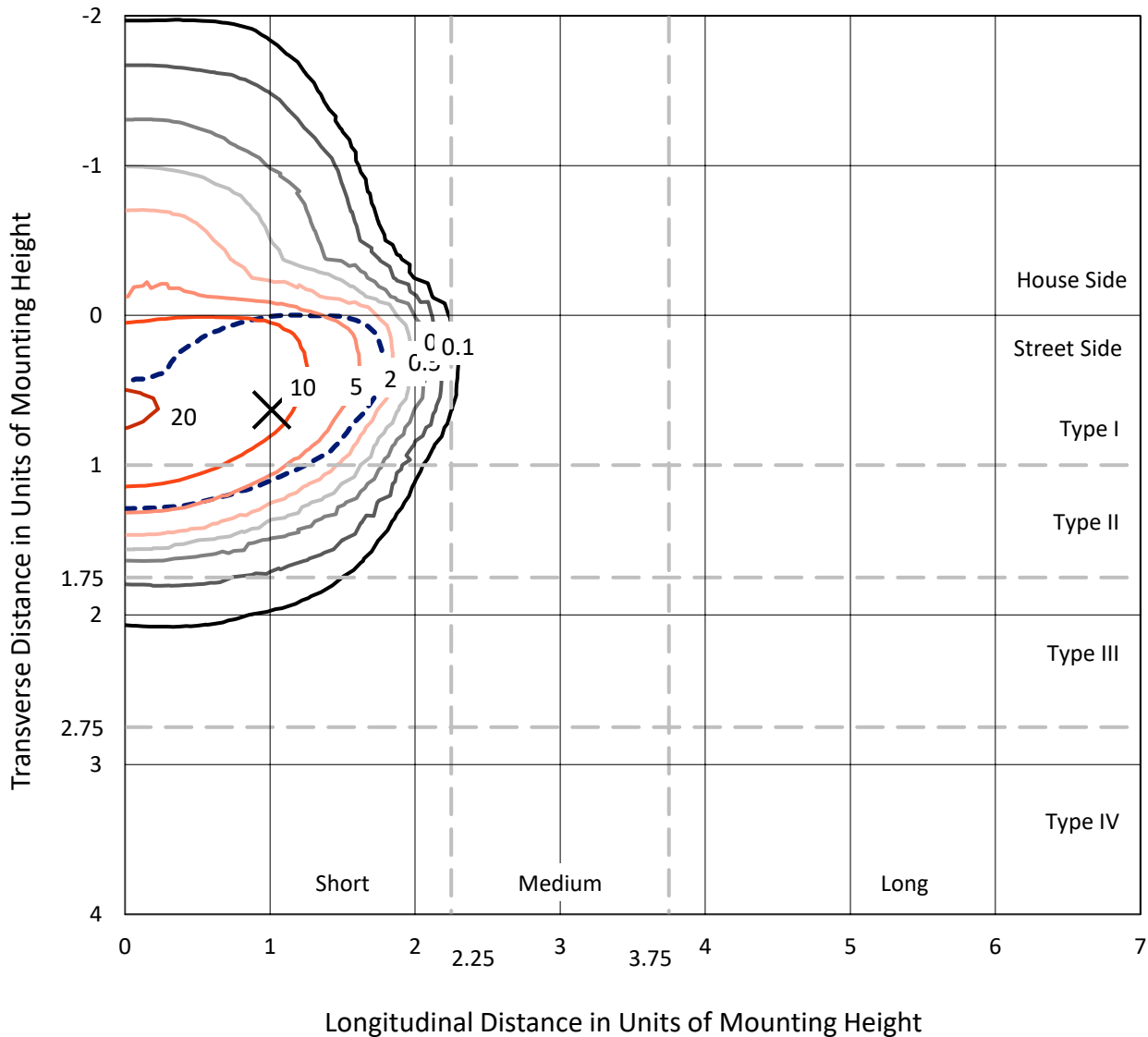
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

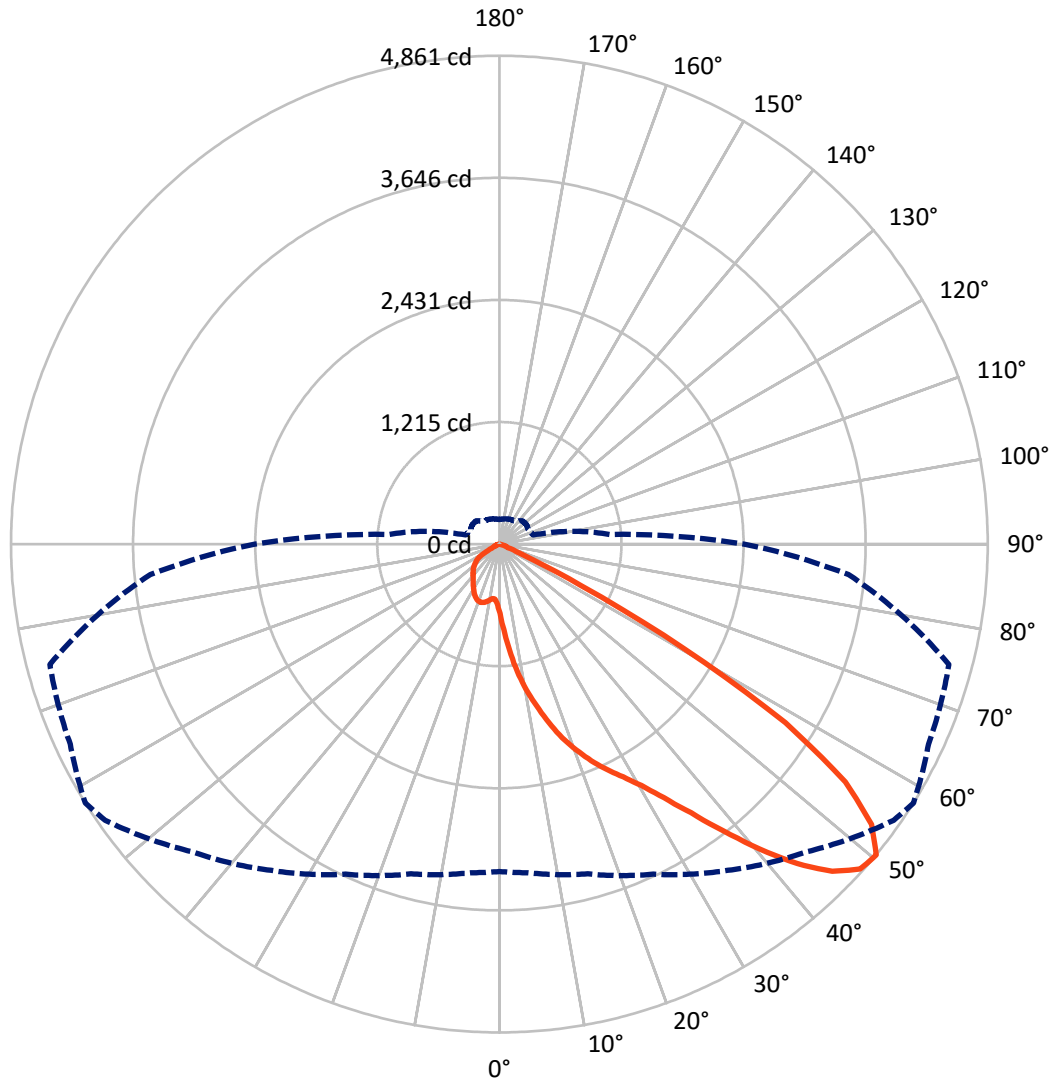
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.2 fc
 Type II - Short - N/A

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CATALOG NUMBER: GWS-SA1F-750-U-T2R-W-GRSBK

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	809.1	0.0	809.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	4967.9	0.0	4967.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	5777.0	0.0	5777.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	1.5
10°-20°	338.4	5.9
20°-30°	684.8	11.9
30°-40°	1211.5	21.0
40°-50°	1766.1	30.6
50°-60°	1415.6	24.5
60°-70°	255.0	4.4
70°-80°	20.1	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°	5777.0	100.0
0°-180°	5777.0	100.0

Coefficient of Utilization



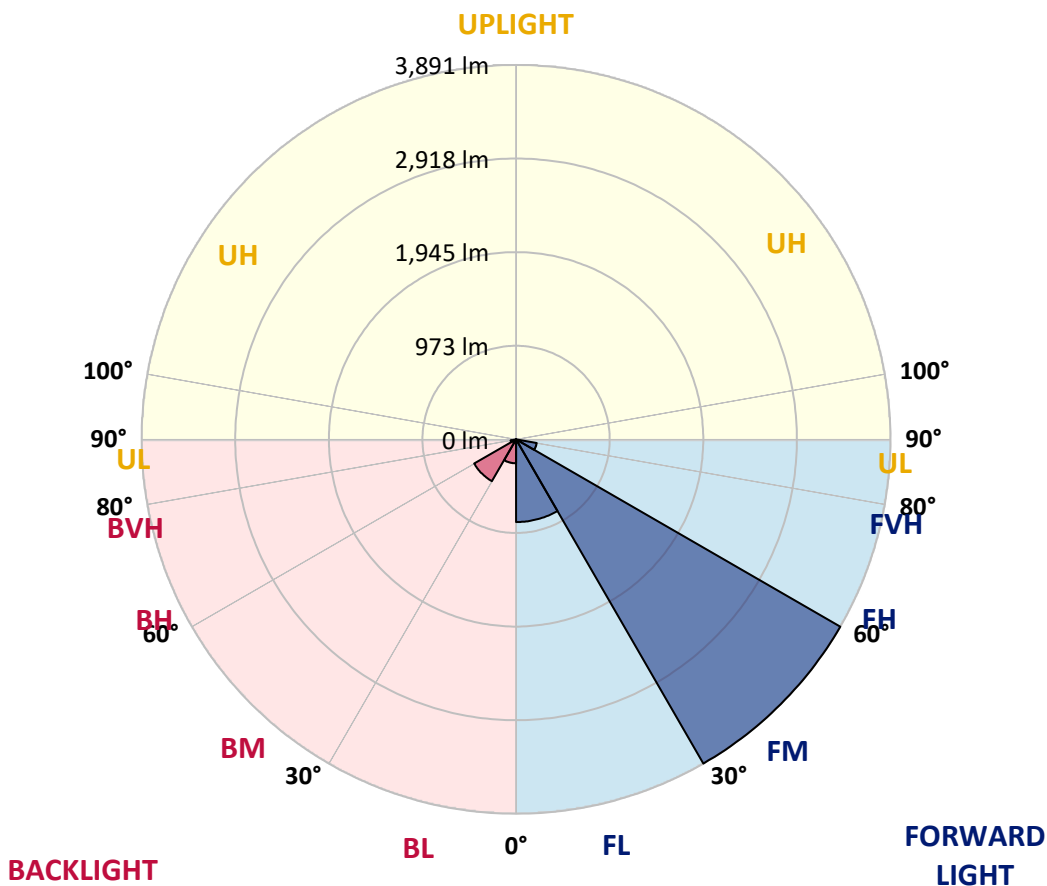
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	859.6	14.9			
FM (30°-60°)	3890.6	67.3			
FH (60°-80°)	217.6	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	249.1	4.3	B1/500		
BM (30°-60°)	502.5	8.7	B1/1000		
BH (60°-80°)	57.5	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°	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1
2.5°	1021.2	1005.1	995.9	988.4	955.7	903.8	869.8	851.9	822.3	772.2	729.0
5°	1332.5	1320.8	1299.2	1284.4	1242.3	1168.8	1092.8	1062.6	995.2	882.2	780.9
7.5°	1538.9	1530.2	1522.2	1502.4	1462.9	1396.2	1312.2	1280.6	1176.9	1016.2	850.1
10°	1697.6	1690.8	1681.6	1681.0	1650.1	1590.1	1508.0	1475.2	1362.8	1162.0	931.6
12.5°	1837.3	1831.7	1829.8	1847.1	1827.4	1782.9	1693.9	1653.2	1533.9	1310.9	1021.8
15°	1933.0	1931.8	1939.8	1973.8	1984.9	1964.5	1889.8	1845.9	1708.8	1460.4	1121.3
17.5°	1976.9	1980.6	1996.0	2054.7	2104.1	2121.4	2064.0	2026.9	1882.4	1611.8	1227.5
20°	2051.6	2050.4	2059.7	2115.3	2175.8	2237.6	2220.3	2188.8	2057.8	1771.8	1345.5
22.5°	2262.3	2244.4	2224.6	2233.3	2254.9	2327.2	2359.3	2343.2	2238.8	1936.1	1467.2
25°	2586.0	2567.5	2503.8	2442.1	2401.3	2434.0	2477.9	2485.9	2418.6	2104.8	1594.5
27.5°	2929.5	2912.8	2841.1	2748.5	2631.7	2574.9	2607.6	2623.7	2595.3	2305.5	1729.8
30°	3251.3	3229.1	3150.6	3035.7	2900.4	2813.3	2776.3	2787.4	2804.1	2543.4	1888.5
32.5°	3530.6	3513.9	3420.0	3298.9	3168.6	3077.7	2991.3	3009.8	3050.6	2834.3	2091.8
35°	3767.2	3758.5	3659.1	3538.6	3400.8	3354.5	3280.4	3284.1	3324.9	3185.9	2339.5
37.5°	3972.9	3958.1	3867.9	3756.1	3646.7	3639.3	3618.9	3620.8	3641.8	3595.4	2624.3
40°	4102.6	4089.0	4024.8	3955.6	3877.8	3879.0	3984.6	3992.7	3968.6	3997.6	2925.2
42.5°	4151.4	4141.6	4107.0	4107.6	4099.5	4136.0	4334.3	4349.1	4262.6	4313.3	3182.2
45°	4066.8	4062.5	4064.9	4153.9	4250.3	4362.7	4620.3	4646.3	4524.0	4522.7	3382.9
47.5°	3793.7	3785.1	3857.4	4008.7	4231.7	4450.4	4793.3	4833.5	4706.8	4642.6	3509.0
50°	3258.8	3283.5	3397.8	3625.1	3964.3	4330.0	4791.4	4861.3	4713.6	4632.1	3487.9
52.5°	2360.5	2355.6	2605.8	2918.4	3331.0	3944.5	4536.9	4638.9	4548.7	4528.9	3441.0
55°	1284.4	1329.4	1498.1	1912.0	2427.2	3214.9	3955.6	4178.0	4282.4	4491.2	3525.6
57.5°	472.0	491.7	597.4	890.2	1285.0	1999.1	3021.5	3357.0	3679.5	4386.2	3511.4
60°	190.3	194.0	236.0	327.4	539.9	1017.5	1812.5	2110.3	2414.3	3357.6	2694.7
62.5°	138.4	143.3	160.0	191.5	273.1	444.8	781.5	908.7	993.4	1663.0	1327.6
65°	111.8	115.5	129.1	143.3	180.4	239.1	252.1	242.8	241.5	430.0	304.6
67.5°	92.7	96.4	106.3	116.1	129.7	119.2	86.5	90.8	74.1	73.5	59.9
70°	68.0	72.3	82.2	92.7	77.8	32.1	50.0	74.1	56.2	47.0	45.7
72.5°	51.3	54.4	63.6	60.5	22.9	12.4	33.4	53.7	43.2	34.6	34.0
75°	38.3	40.2	32.1	9.9	2.5	3.1	12.4	22.2	24.1	19.8	19.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.9	2.5	3.1	3.7
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



REPORT NUMBER: P631397

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1
2.5°	704.3	678.3	641.2	610.4	586.9	564.0	546.7	529.4	528.8	520.2	518.3
5°	733.9	687.0	619.0	570.2	540.6	522.6	510.3	504.1	501.0	497.9	496.7
7.5°	776.5	709.2	615.3	563.4	538.7	527.0	518.3	514.6	512.8	510.3	509.7
10°	829.1	741.3	628.9	576.4	554.8	543.6	534.4	528.8	525.7	521.4	520.2
12.5°	892.1	780.9	650.5	598.0	575.1	560.3	548.0	539.9	535.6	530.0	528.8
15°	960.0	823.5	674.6	617.8	590.6	571.4	556.0	543.6	535.6	528.8	527.0
17.5°	1030.4	866.7	696.2	631.4	598.0	575.1	552.9	536.2	526.3	517.7	515.2
20°	1109.5	911.2	710.4	633.8	595.5	565.3	539.3	518.3	508.4	496.7	494.2
22.5°	1192.3	952.6	716.6	628.3	581.9	546.7	518.9	497.3	483.1	470.7	467.0
25°	1272.6	989.7	713.5	612.8	561.6	520.8	492.4	470.1	454.7	442.3	439.2
27.5°	1357.9	1020.6	702.4	590.0	533.8	492.4	465.2	446.0	431.8	418.2	415.1
30°	1453.6	1049.0	684.5	562.2	501.0	463.3	442.3	429.4	413.9	399.7	395.4
32.5°	1569.1	1074.3	658.5	528.8	472.0	438.0	426.3	416.4	398.5	383.6	380.5
35°	1701.3	1095.3	625.8	494.2	443.6	421.9	419.5	406.5	383.0	365.7	362.0
37.5°	1854.6	1115.7	586.9	460.2	422.6	414.5	415.1	392.9	364.5	343.5	341.0
40°	2019.5	1136.1	543.6	430.6	403.4	410.2	404.6	373.1	326.8	306.4	303.9
42.5°	2191.2	1158.3	499.8	402.8	387.3	393.5	385.5	333.6	300.2	289.7	288.5
45°	2346.3	1184.9	452.2	375.0	371.3	369.4	355.8	302.1	287.9	280.5	279.9
47.5°	2458.1	1180.6	401.6	348.4	354.0	347.8	306.4	287.3	275.5	265.6	263.2
50°	2437.7	1105.2	349.0	318.8	331.7	326.2	275.5	270.0	259.5	249.0	245.3
52.5°	2385.8	1002.6	303.3	287.3	307.7	294.7	254.5	249.0	239.7	226.1	221.8
55°	2413.6	906.3	267.5	261.9	282.9	244.0	231.0	222.4	212.5	197.7	195.8
57.5°	2324.1	739.5	215.0	218.7	250.2	208.2	202.6	189.0	172.4	162.5	161.2
60°	1608.7	397.2	134.7	139.0	181.0	174.8	181.6	169.3	148.9	139.6	137.8
62.5°	738.9	159.4	73.5	70.4	95.1	118.6	155.7	154.4	129.1	114.3	113.1
65°	179.2	72.9	52.5	49.4	53.7	71.0	101.3	121.7	104.4	87.1	85.3
67.5°	58.1	59.3	48.2	45.1	47.6	53.1	60.5	67.3	66.7	61.2	59.9
70°	46.3	53.7	44.5	40.8	40.8	42.6	40.8	32.7	28.4	30.9	32.1
72.5°	34.6	40.8	35.2	31.5	30.3	29.7	25.3	18.5	13.0	11.7	11.1
75°	20.4	22.9	21.6	18.5	17.3	15.4	12.4	8.0	4.3	3.1	1.9
77.5°	3.7	4.3	4.9	3.7	3.1	2.5	1.9	0.6	0.0	0.0	0.0
80°	0.0	0.6	0.6	0.6	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)