

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: P630902

Luminaire Tested: GWS-SA1E-750-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630902
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-SA1E-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: 5196 lumens
Efficiency: N/A
Efficacy: 89.0 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

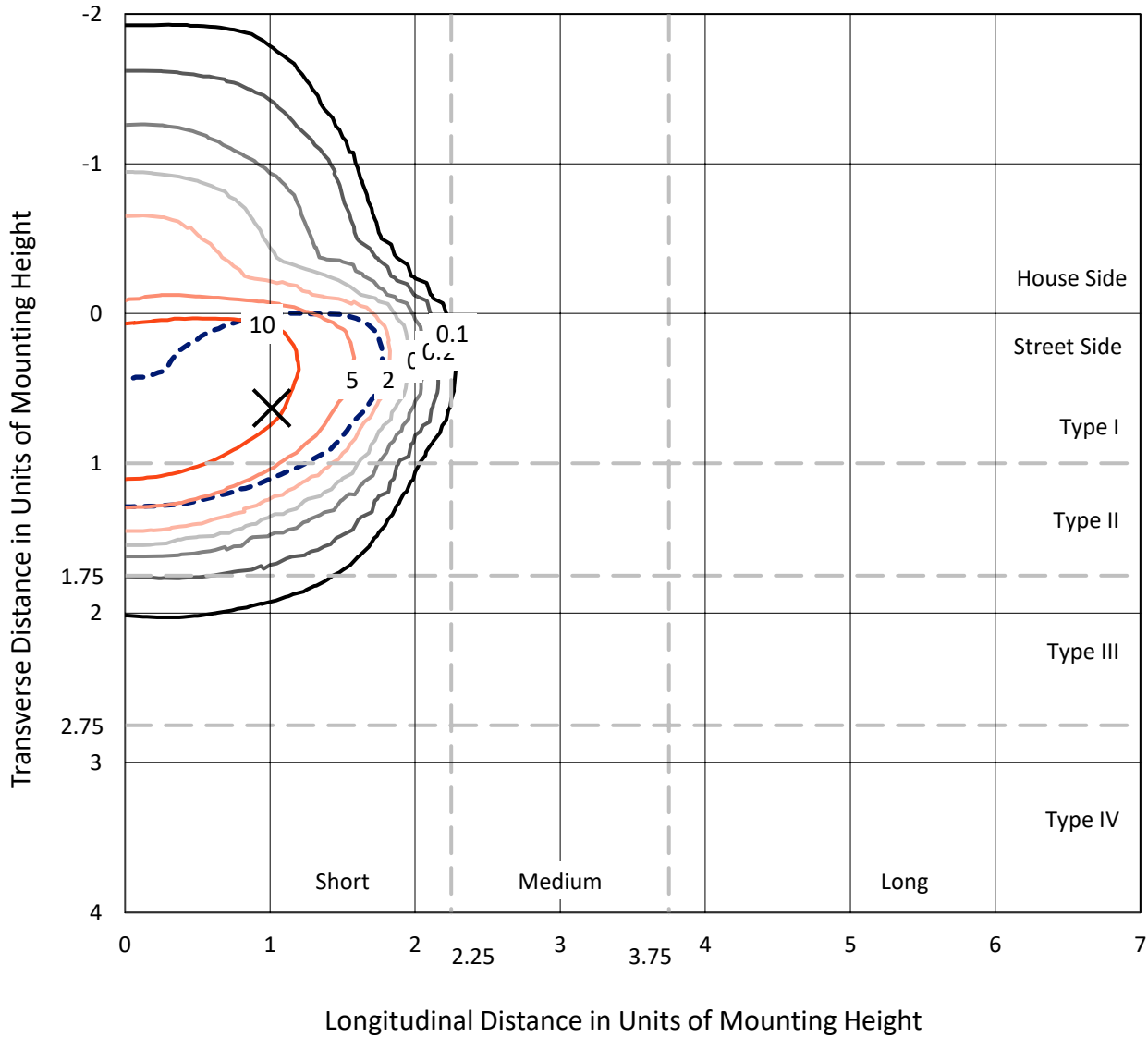
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

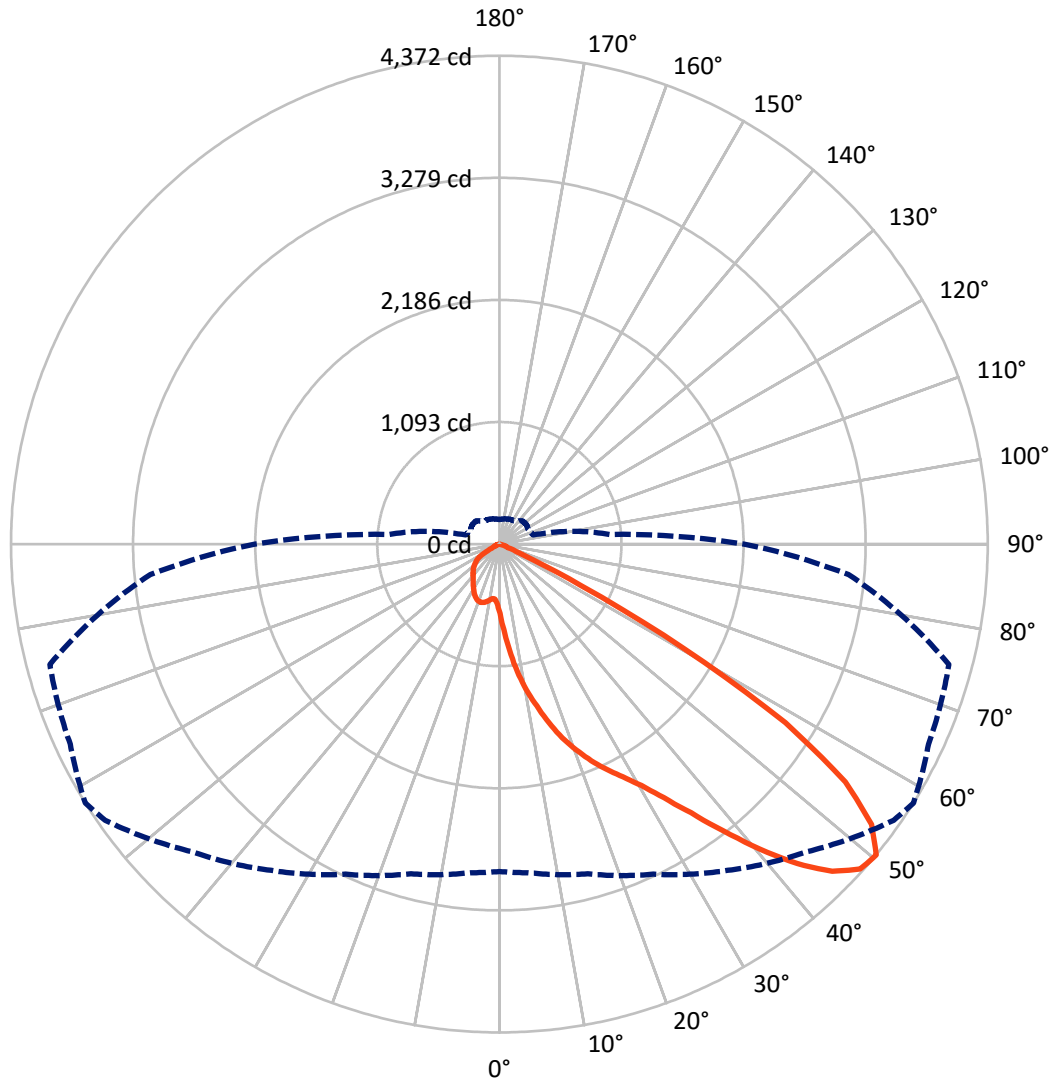
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.1 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	727.8	0.0	727.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	4468.2	0.0	4468.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	5196.0	0.0	5196.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	1.5
10°-20°	304.4	5.9
20°-30°	615.9	11.9
30°-40°	1089.7	21.0
40°-50°	1588.5	30.6
50°-60°	1273.2	24.5
60°-70°	229.4	4.4
70°-80°	18.1	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°	5196.0	100.0
0°-180°	5196.0	100.0

Coefficient of Utilization



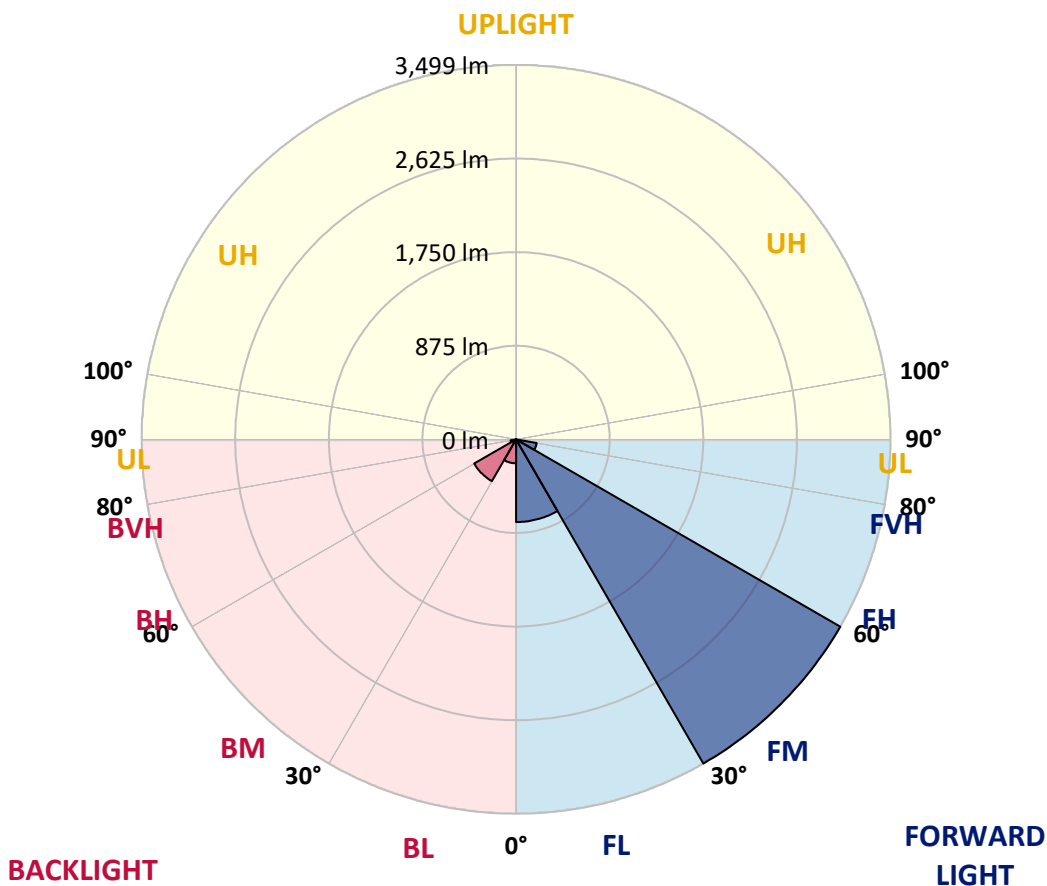
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	773.2	14.9			
FM (30°-60°)	3499.4	67.3			
FH (60°-80°)	195.7	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	224.1	4.3	B1/500		
BM (30°-60°)	452.0	8.7	B1/1000		
BH (60°-80°)	51.7	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°	620.7	620.7	620.7	620.7	620.7	620.7	620.7	620.7	620.7	620.7	620.7
2.5°	918.5	904.0	895.7	889.0	859.6	812.9	782.3	766.2	739.6	694.6	655.7
5°	1198.5	1188.0	1168.5	1155.2	1117.4	1051.3	982.9	955.7	895.1	793.5	702.3
7.5°	1384.1	1376.3	1369.1	1351.3	1315.8	1255.8	1180.2	1151.8	1058.5	914.0	764.6
10°	1526.9	1520.8	1512.5	1511.9	1484.1	1430.2	1356.3	1326.9	1225.7	1045.2	837.9
12.5°	1652.5	1647.5	1645.8	1661.4	1643.6	1603.6	1523.6	1486.9	1379.7	1179.1	919.0
15°	1738.6	1737.5	1744.7	1775.3	1785.3	1766.9	1699.7	1660.3	1536.9	1313.5	1008.5
17.5°	1778.1	1781.4	1795.3	1848.1	1892.5	1908.1	1856.4	1823.1	1693.0	1449.7	1104.1
20°	1845.3	1844.2	1852.5	1902.5	1957.0	2012.5	1997.0	1968.6	1850.8	1593.6	1210.2
22.5°	2034.8	2018.7	2000.9	2008.6	2028.1	2093.1	2122.0	2107.6	2013.7	1741.4	1319.7
25°	2325.9	2309.3	2252.0	2196.5	2159.8	2189.2	2228.7	2235.9	2175.3	1893.1	1434.1
27.5°	2634.9	2619.9	2555.4	2472.1	2367.0	2315.9	2345.4	2359.8	2334.3	2073.7	1555.8
30°	2924.3	2904.3	2833.8	2730.4	2608.7	2530.4	2497.1	2507.1	2522.1	2287.6	1698.6
32.5°	3175.5	3160.5	3076.0	2967.1	2849.9	2768.2	2690.4	2707.1	2743.8	2549.3	1881.4
35°	3388.3	3380.5	3291.1	3182.7	3058.8	3017.1	2950.5	2953.8	2990.5	2865.5	2104.2
37.5°	3573.3	3560.0	3478.9	3378.3	3280.0	3273.3	3255.0	3256.6	3275.5	3233.8	2360.4
40°	3690.0	3677.8	3620.0	3557.8	3487.8	3488.9	3583.9	3591.1	3569.5	3595.6	2631.0
42.5°	3733.9	3725.0	3693.9	3694.5	3687.2	3720.0	3898.4	3911.7	3833.9	3879.5	2862.1
45°	3657.8	3653.9	3656.1	3736.1	3822.8	3924.0	4155.7	4179.0	4069.0	4067.9	3042.7
47.5°	3412.2	3404.4	3469.4	3605.6	3806.2	4002.9	4311.2	4347.4	4233.4	4175.7	3156.1
50°	2931.0	2953.2	3056.0	3260.5	3565.6	3894.5	4309.6	4372.4	4239.6	4166.2	3137.2
52.5°	2123.1	2118.7	2343.7	2624.9	2996.0	3547.8	4080.6	4172.3	4091.2	4073.4	3094.9
55°	1155.2	1195.7	1347.4	1719.7	2183.1	2891.6	3557.8	3757.8	3851.7	4039.5	3171.1
57.5°	424.5	442.3	537.3	800.7	1155.7	1798.1	2717.7	3019.4	3309.4	3945.1	3158.3
60°	171.1	174.5	212.3	294.5	485.6	915.1	1630.3	1898.1	2171.5	3019.9	2423.7
62.5°	124.5	128.9	143.9	172.2	245.6	400.1	702.9	817.4	893.5	1495.8	1194.1
65°	100.6	103.9	116.1	128.9	162.2	215.0	226.7	218.4	217.3	386.7	273.9
67.5°	83.3	86.7	95.6	104.5	116.7	107.2	77.8	81.7	66.7	66.1	53.9
70°	61.1	65.0	73.9	83.3	70.0	28.9	45.0	66.7	50.6	42.2	41.1
72.5°	46.1	48.9	57.2	54.5	20.6	11.1	30.0	48.3	38.9	31.1	30.6
75°	34.4	36.1	28.9	8.9	2.2	2.8	11.1	20.0	21.7	17.8	17.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.7	2.2	2.8	3.3
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°	620.7	620.7	620.7	620.7	620.7	620.7	620.7	620.7	620.7	620.7	620.7
2.5°	633.4	610.1	576.8	549.0	527.9	507.3	491.7	476.2	475.6	467.9	466.2
5°	660.1	617.9	556.8	512.9	486.2	470.1	459.0	453.4	450.6	447.8	446.7
7.5°	698.4	637.9	553.4	506.7	484.5	474.0	466.2	462.9	461.2	459.0	458.4
10°	745.7	666.8	565.6	518.4	499.0	489.0	480.6	475.6	472.9	469.0	467.9
12.5°	802.3	702.3	585.1	537.9	517.3	504.0	492.9	485.6	481.7	476.7	475.6
15°	863.5	740.7	606.8	555.6	531.2	514.0	500.1	489.0	481.7	475.6	474.0
17.5°	926.8	779.6	626.2	567.9	537.9	517.3	497.3	482.3	473.4	465.6	463.4
20°	997.9	819.6	639.0	570.1	535.6	508.4	485.1	466.2	457.3	446.7	444.5
22.5°	1072.4	856.8	644.5	565.1	523.4	491.7	466.7	447.3	434.5	423.4	420.1
25°	1144.6	890.1	641.8	551.2	505.1	468.4	442.8	422.8	409.0	397.8	395.1
27.5°	1221.3	917.9	631.8	530.6	480.1	442.8	418.4	401.2	388.4	376.2	373.4
30°	1307.4	943.5	615.7	505.6	450.6	416.7	397.8	386.2	372.3	359.5	355.6
32.5°	1411.3	966.3	592.3	475.6	424.5	394.0	383.4	374.5	358.4	345.1	342.3
35°	1530.2	985.2	562.9	444.5	399.0	379.5	377.3	365.6	344.5	328.9	325.6
37.5°	1668.0	1003.5	527.9	414.0	380.1	372.8	373.4	353.4	327.8	308.9	306.7
40°	1816.4	1021.8	489.0	387.3	362.8	368.9	363.9	335.6	293.9	275.6	273.4
42.5°	1970.9	1041.8	449.5	362.3	348.4	353.9	346.7	300.0	270.0	260.6	259.5
45°	2110.3	1065.7	406.7	337.3	333.9	332.3	320.1	271.7	258.9	252.3	251.7
47.5°	2210.9	1061.8	361.2	313.4	318.4	312.8	275.6	258.4	247.8	238.9	236.7
50°	2192.6	994.0	313.9	286.7	298.4	293.4	247.8	242.8	233.4	223.9	220.6
52.5°	2145.9	901.8	272.8	258.4	276.7	265.0	228.9	223.9	215.6	203.4	199.5
55°	2170.9	815.1	240.6	235.6	254.5	219.5	207.8	200.0	191.1	177.8	176.1
57.5°	2090.3	665.1	193.4	196.7	225.0	187.3	182.3	170.0	155.0	146.1	145.0
60°	1446.9	357.3	121.1	125.0	162.8	157.2	163.4	152.2	133.9	125.6	123.9
62.5°	664.5	143.4	66.1	63.3	85.6	106.7	140.0	138.9	116.1	102.8	101.7
65°	161.1	65.6	47.2	44.5	48.3	63.9	91.1	109.5	93.9	78.3	76.7
67.5°	52.2	53.3	43.3	40.6	42.8	47.8	54.5	60.6	60.0	55.0	53.9
70°	41.7	48.3	40.0	36.7	36.7	38.3	36.7	29.4	25.6	27.8	28.9
72.5°	31.1	36.7	31.7	28.3	27.2	26.7	22.8	16.7	11.7	10.6	10.0
75°	18.3	20.6	19.4	16.7	15.6	13.9	11.1	7.2	3.9	2.8	1.7
77.5°	3.3	3.9	4.4	3.3	2.8	2.2	1.7	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)