

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: P631833

Luminaire Tested: GWS-SA2B-740-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631833
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-740-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4099.3 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

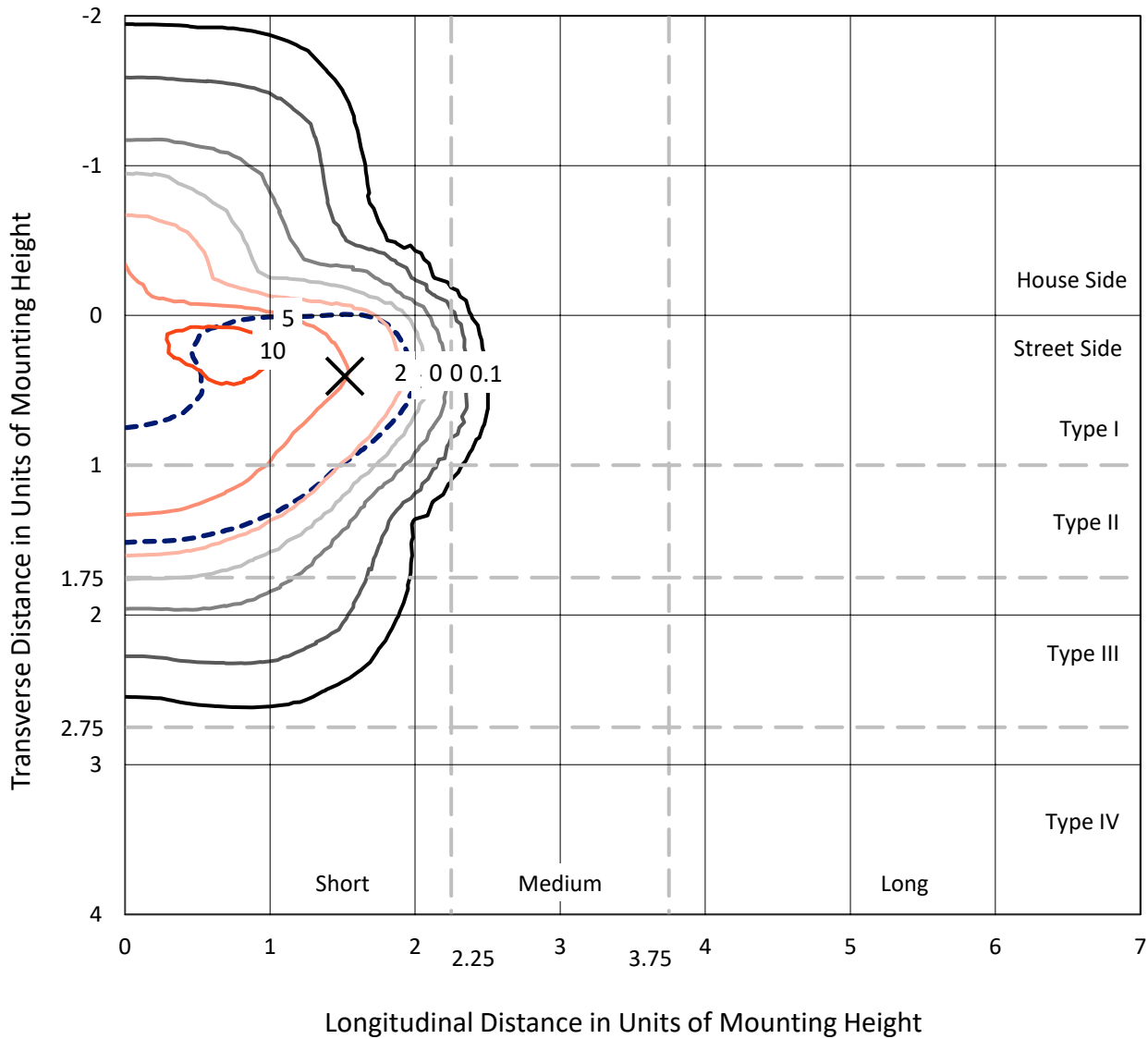
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

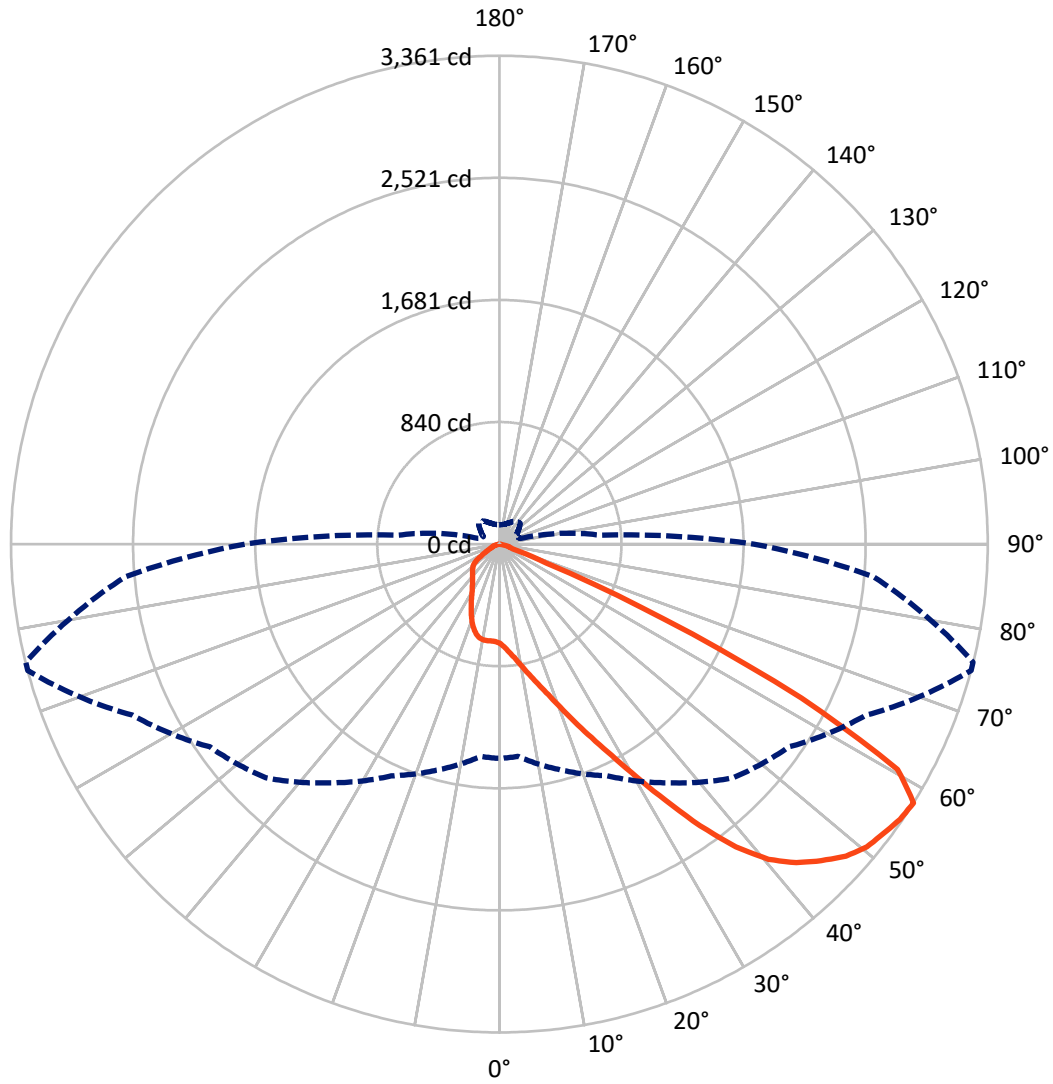
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	669.6	0.0	669.6
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	3429.7	0.0	3429.7
	% Fixture	83.7	0.0	83.7
Total	Lumens	4099.3	0.0	4099.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	1.7
10°-20°	226.0	5.5
20°-30°	413.9	10.1
30°-40°	686.6	16.8
40°-50°	1048.7	25.6
50°-60°	1178.4	28.7
60°-70°	434.6	10.6
70°-80°	41.5	1.0
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°	4099.3	100.0
0°-180°	4099.3	100.0

Coefficient of Utilization



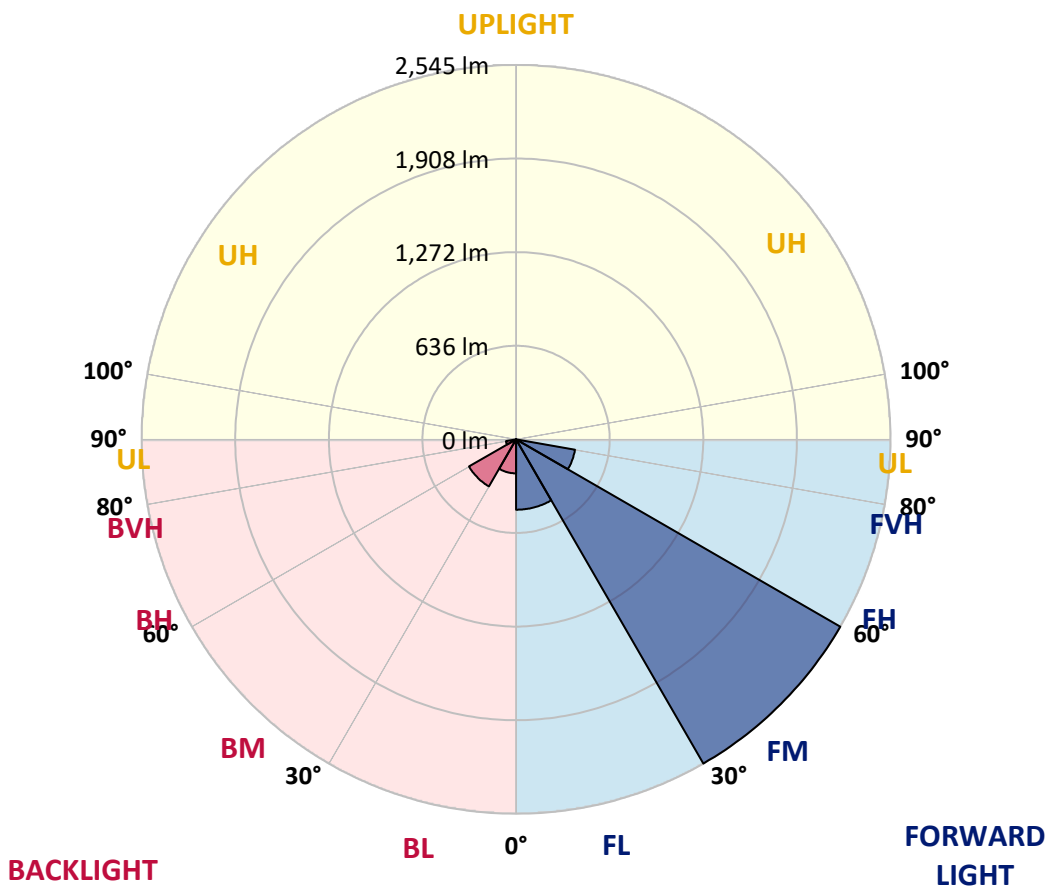
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	478.4	11.7			
FM (30°-60°)	2544.7	62.1			
FH (60°-80°)	406.6	9.9			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	231.1	5.6	B1/500		
BM (30°-60°)	369.0	9.0	B1/1000		
BH (60°-80°)	69.5	1.7	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°	65°	75°	76°	85°
0°	683.7	683.7	683.7	683.7	683.7	683.7	683.7	683.7	683.7	683.7	683.7
2.5°	763.9	771.8	769.3	764.3	761.4	751.0	744.6	725.8	712.4	710.9	698.5
5°	860.3	858.8	856.9	850.9	846.0	829.6	810.4	778.7	750.5	747.0	720.8
7.5°	913.3	914.2	915.2	914.2	910.8	898.4	877.1	840.0	797.0	794.0	752.5
10°	935.0	937.0	942.0	951.4	959.8	958.8	946.4	908.3	855.4	850.4	794.5
12.5°	945.4	947.9	955.8	973.6	996.4	1014.2	1016.2	982.0	923.6	915.7	844.5
15°	959.8	962.2	972.1	995.4	1028.5	1063.7	1086.4	1064.6	999.3	990.9	899.4
17.5°	966.2	969.7	984.0	1014.7	1057.7	1111.6	1163.1	1161.1	1088.9	1082.5	963.2
20°	978.6	981.0	993.9	1027.0	1079.0	1156.7	1243.2	1274.4	1198.2	1188.8	1040.4
22.5°	1017.6	1018.6	1024.6	1045.3	1093.8	1189.3	1324.9	1406.5	1327.3	1315.0	1127.0
25°	1081.5	1081.0	1083.4	1086.9	1122.5	1222.5	1403.5	1555.4	1475.3	1461.9	1224.9
27.5°	1162.6	1162.6	1168.5	1158.6	1173.0	1263.5	1481.2	1726.6	1647.4	1628.6	1332.3
30°	1258.1	1257.6	1271.4	1255.6	1260.1	1328.3	1564.8	1913.1	1855.2	1832.0	1456.0
32.5°	1387.7	1384.7	1400.6	1378.8	1363.9	1426.3	1666.7	2108.0	2104.1	2068.4	1611.3
35°	1551.4	1546.5	1551.4	1530.2	1503.5	1563.3	1800.3	2302.4	2380.1	2342.5	1796.3
37.5°	1714.2	1730.0	1735.5	1698.9	1677.1	1737.0	1961.1	2476.6	2643.8	2604.7	1988.8
40°	1906.2	1901.2	1920.0	1879.0	1865.1	1931.4	2118.4	2606.2	2852.6	2815.5	2160.0
42.5°	2047.7	2056.6	2079.8	2057.1	2046.2	2108.5	2250.5	2681.9	2997.5	2960.9	2282.2
45°	2217.3	2223.8	2232.7	2213.9	2202.5	2263.8	2346.0	2715.0	3107.8	3068.3	2364.3
47.5°	2400.9	2405.8	2405.8	2367.2	2330.6	2355.9	2409.8	2733.8	3209.3	3171.2	2425.1
50°	2532.5	2535.0	2556.7	2529.5	2449.9	2410.8	2439.0	2752.1	3276.5	3240.9	2444.9
52.5°	2415.7	2412.8	2484.5	2540.9	2562.2	2484.5	2489.4	2778.9	3309.2	3278.5	2460.7
55°	2034.3	2029.4	2130.3	2267.3	2454.8	2554.3	2550.3	2794.7	3345.3	3326.5	2518.1
57.5°	1474.8	1466.4	1606.9	1759.2	2005.1	2274.7	2433.0	2785.8	3361.1	3359.7	2584.9
60°	886.5	879.6	1012.2	1172.5	1362.5	1633.6	1896.3	2495.4	3149.4	3152.4	2411.3
62.5°	545.7	552.1	671.8	753.5	824.2	905.8	1057.7	1678.6	2333.1	2352.4	1694.4
65°	367.1	372.0	482.8	585.8	585.8	478.9	411.1	802.4	1244.7	1212.1	801.5
67.5°	246.4	251.8	339.4	459.6	476.9	333.9	166.7	239.4	346.8	336.4	198.4
70°	145.0	150.9	226.1	315.1	347.3	232.5	111.3	101.4	98.4	95.5	77.2
72.5°	64.8	67.3	115.3	160.3	146.4	98.0	78.7	81.1	76.7	75.2	62.8
75°	19.8	20.8	29.7	34.6	35.1	35.1	47.5	63.8	60.4	60.9	48.5
77.5°	4.9	4.9	7.9	7.4	4.0	3.5	8.9	14.3	14.8	13.4	9.9
80°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5
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°	683.7	683.7	683.7	683.7	683.7	683.7	683.7	683.7	683.7	683.7	683.7
2.5°	693.1	680.2	671.8	660.0	651.5	642.6	634.7	628.3	624.8	623.8	624.3
5°	708.9	688.7	668.9	646.1	630.3	615.4	603.6	594.2	589.7	588.2	588.2
7.5°	733.2	705.0	669.9	634.2	607.5	584.3	570.4	560.0	556.1	555.1	552.1
10°	764.8	726.3	668.4	613.0	575.4	551.1	541.2	538.3	539.7	540.2	539.7
12.5°	802.9	748.5	659.0	581.8	541.2	526.4	527.4	535.3	544.2	548.6	549.6
15°	843.5	768.8	637.7	544.7	512.0	511.5	525.9	544.2	561.5	568.9	570.9
17.5°	889.0	785.1	605.0	505.1	486.8	501.2	526.9	555.1	578.3	590.7	593.2
20°	939.0	798.5	563.5	468.0	464.5	490.3	525.9	560.5	589.2	603.1	605.5
22.5°	990.9	807.9	515.5	433.9	444.3	477.9	516.5	550.1	577.3	593.2	595.2
25°	1050.3	808.9	466.5	405.2	425.5	461.1	493.7	521.4	544.2	558.0	559.5
27.5°	1102.2	797.0	423.0	381.9	408.1	440.3	462.1	477.4	493.2	501.2	501.6
30°	1162.1	776.2	381.9	363.1	390.3	414.6	425.5	428.9	430.4	431.9	429.9
32.5°	1233.3	751.0	351.3	344.8	370.1	386.4	389.3	382.4	374.0	362.1	359.2
35°	1320.9	728.2	326.0	327.0	347.8	357.7	355.2	340.4	324.0	309.7	307.2
37.5°	1415.9	708.9	306.7	309.7	323.5	330.5	323.1	306.7	299.3	286.9	287.4
40°	1500.0	693.1	289.4	292.4	298.8	305.2	293.4	282.5	296.3	295.3	296.3
42.5°	1559.9	679.7	274.6	273.1	277.5	282.0	273.1	267.6	290.9	284.5	287.9
45°	1595.0	667.4	262.2	253.3	260.2	268.1	262.2	255.3	263.2	233.5	231.0
47.5°	1618.7	660.5	251.3	234.0	246.4	260.2	247.9	231.0	219.7	193.9	192.0
50°	1621.2	657.0	238.5	214.2	230.0	244.9	230.5	207.3	191.0	179.6	178.1
52.5°	1634.1	663.9	220.6	189.0	206.3	230.0	220.2	196.9	174.6	164.7	162.8
55°	1691.5	693.1	191.0	154.4	179.6	218.7	211.7	175.6	154.4	148.4	146.9
57.5°	1750.8	699.0	150.4	122.2	156.3	202.3	193.4	161.8	141.0	134.1	132.6
60°	1600.9	575.9	112.8	100.9	138.0	187.0	179.1	153.4	129.1	120.7	119.2
62.5°	1051.8	311.2	89.5	85.6	116.3	158.3	163.3	138.5	115.3	106.4	105.9
65°	484.8	144.5	68.8	67.8	91.0	126.2	140.5	121.2	97.5	89.5	89.5
67.5°	132.1	71.7	53.9	50.0	61.8	84.6	102.4	90.5	69.3	59.9	59.4
70°	65.8	57.9	48.5	43.0	44.5	52.4	60.4	50.5	35.1	28.7	28.2
72.5°	53.9	47.5	41.1	36.6	33.6	32.2	31.2	25.2	16.3	12.4	11.9
75°	40.1	34.1	29.2	23.7	20.3	18.8	16.8	12.4	6.9	4.0	3.5
77.5°	8.9	8.4	7.9	5.9	5.4	4.5	3.5	2.5	1.0	0.0	0.0
80°	0.5	0.5	0.5	0.5	0.5	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)