

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: P631892

Luminaire Tested: GWS-SA2B-750-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631892
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-SA2B-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4732.2 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

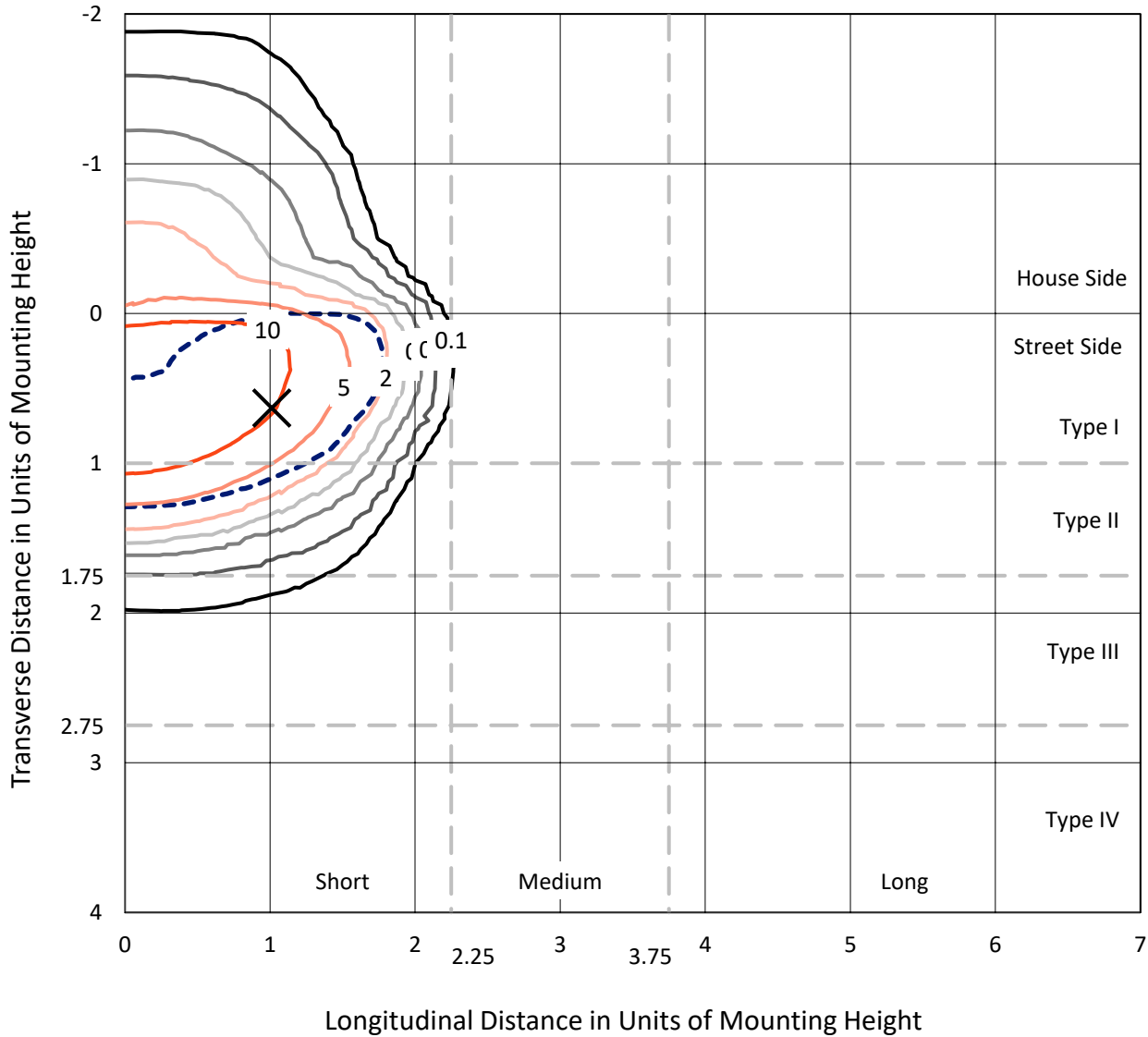
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

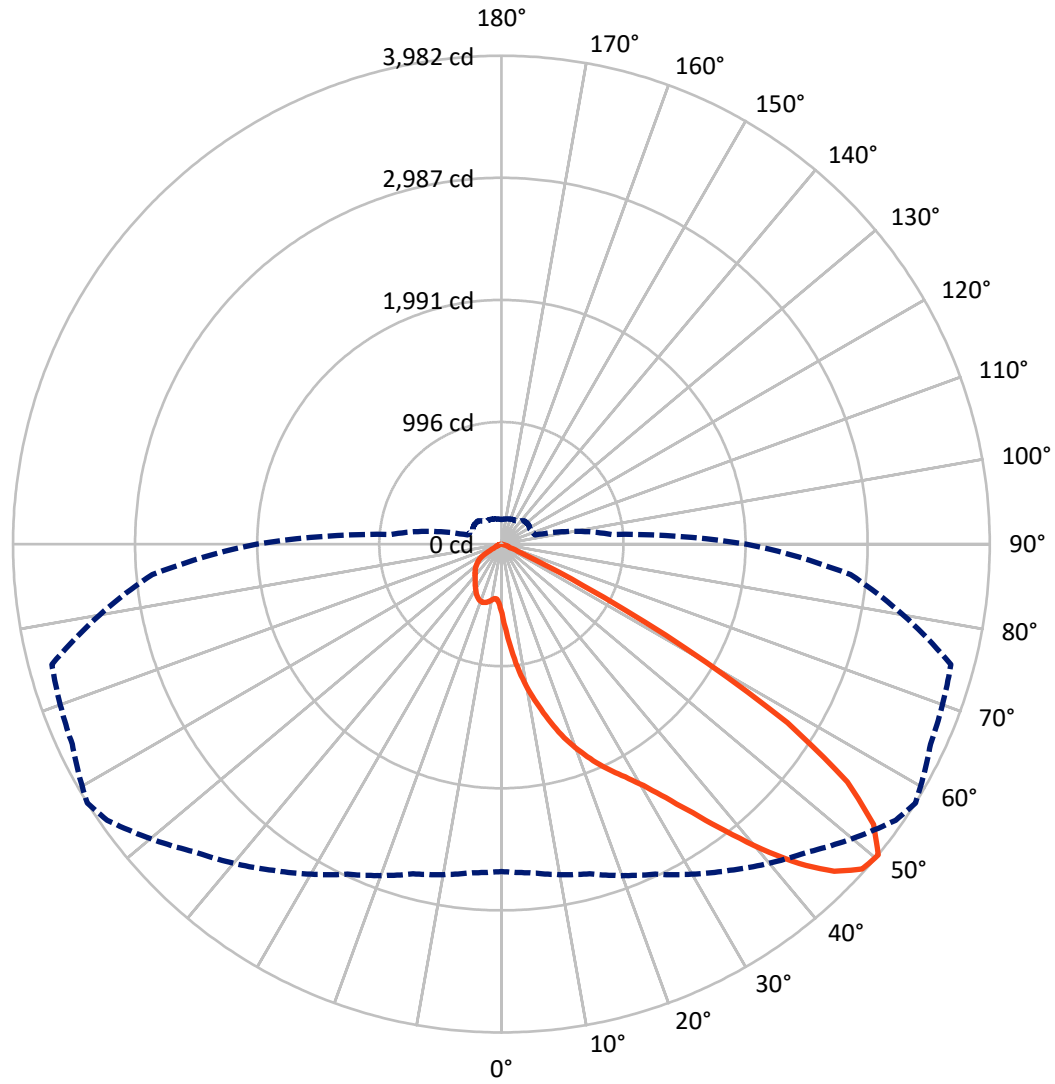
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.4 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	662.8	0.0	662.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	4069.4	0.0	4069.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	4732.2	0.0	4732.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	1.5
10°-20°	277.2	5.9
20°-30°	561.0	11.9
30°-40°	992.4	21.0
40°-50°	1446.7	30.6
50°-60°	1159.6	24.5
60°-70°	208.9	4.4
70°-80°	16.5	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°	4732.2	100.0
0°-180°	4732.2	100.0

Coefficient of Utilization



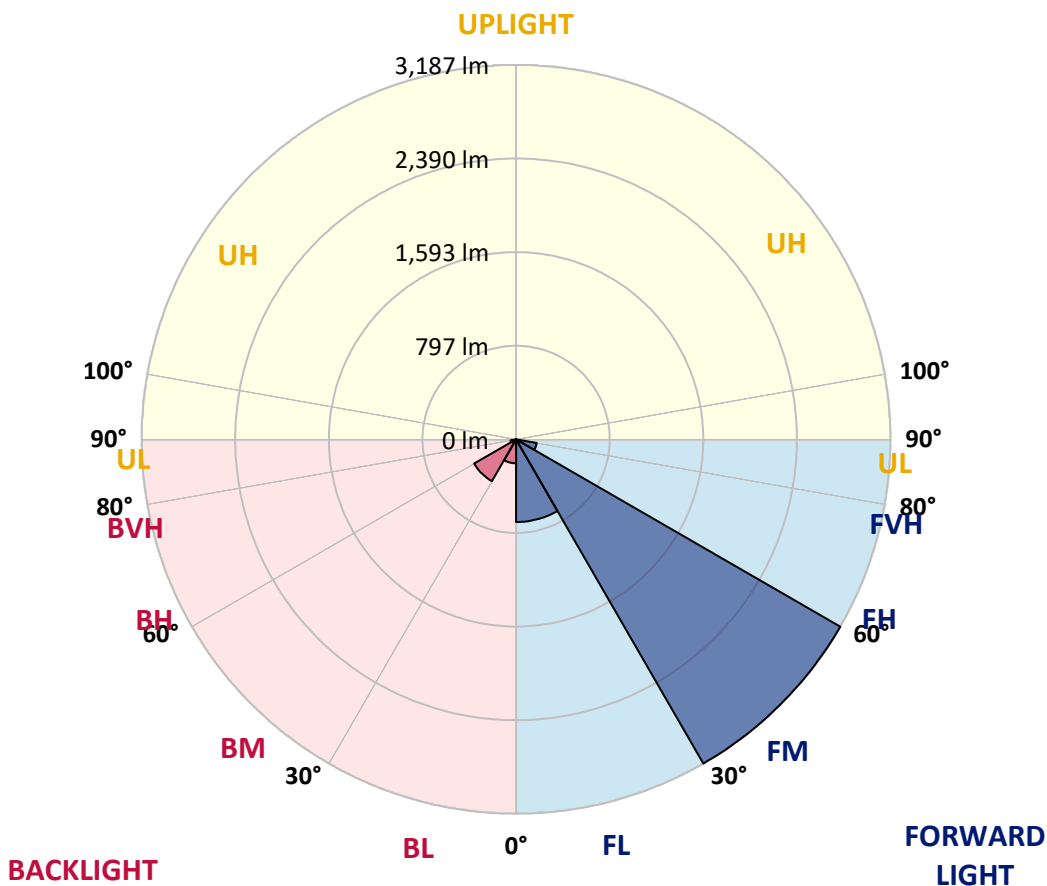
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	704.1	14.9			
FM (30°-60°)	3187.0	67.3			
FH (60°-80°)	178.3	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	204.1	4.3	B1/500		
BM (30°-60°)	411.6	8.7	B1/1000		
BH (60°-80°)	47.1	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°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3
2.5°	836.5	823.3	815.7	809.7	782.9	740.3	712.5	697.8	673.5	632.6	597.1
5°	1091.5	1081.9	1064.2	1052.1	1017.7	957.4	895.2	870.4	815.2	722.6	639.6
7.5°	1260.6	1253.5	1246.9	1230.7	1198.3	1143.7	1074.8	1049.0	964.0	832.4	696.3
10°	1390.6	1385.0	1377.5	1377.0	1351.6	1302.6	1235.3	1208.4	1116.3	951.9	763.1
12.5°	1505.0	1500.4	1498.9	1513.1	1496.9	1460.4	1387.6	1354.2	1256.5	1073.8	837.0
15°	1583.4	1582.4	1589.0	1616.8	1625.9	1609.2	1548.0	1512.1	1399.7	1196.3	918.5
17.5°	1619.3	1622.4	1635.0	1683.1	1723.6	1737.8	1690.7	1660.3	1541.9	1320.3	1005.5
20°	1680.6	1679.6	1687.2	1732.7	1782.3	1832.9	1818.7	1792.9	1685.6	1451.3	1102.2
22.5°	1853.1	1838.5	1822.3	1829.4	1847.1	1906.3	1932.6	1919.4	1833.9	1585.9	1201.9
25°	2118.3	2103.1	2051.0	2000.4	1967.0	1993.8	2029.7	2036.3	1981.2	1724.1	1306.1
27.5°	2399.7	2386.0	2327.3	2251.4	2155.8	2109.2	2136.0	2149.2	2125.9	1888.6	1416.9
30°	2663.3	2645.1	2580.8	2486.7	2375.9	2304.5	2274.2	2283.3	2296.9	2083.4	1547.0
32.5°	2892.1	2878.4	2801.5	2702.3	2595.5	2521.1	2450.3	2465.5	2498.9	2321.7	1713.5
35°	3085.9	3078.8	2997.3	2898.6	2785.8	2747.8	2687.1	2690.1	2723.5	2609.7	1916.4
37.5°	3254.4	3242.2	3168.4	3076.8	2987.2	2981.1	2964.4	2965.9	2983.1	2945.2	2149.7
40°	3360.7	3349.5	3296.9	3240.2	3176.4	3177.5	3264.0	3270.6	3250.8	3274.6	2396.1
42.5°	3400.6	3392.5	3364.2	3364.7	3358.1	3388.0	3550.4	3562.6	3491.7	3533.2	2606.6
45°	3331.3	3327.8	3329.8	3402.7	3481.6	3573.7	3784.7	3806.0	3705.8	3704.8	2771.1
47.5°	3107.6	3100.5	3159.8	3283.7	3466.4	3645.6	3926.4	3959.3	3855.6	3802.9	2874.3
50°	2669.4	2689.6	2783.3	2969.5	3247.3	3546.9	3924.9	3982.1	3861.1	3794.3	2857.1
52.5°	1933.6	1929.6	2134.5	2390.6	2728.6	3231.1	3716.4	3799.9	3726.0	3709.8	2818.7
55°	1052.1	1089.0	1227.2	1566.2	1988.3	2633.5	3240.2	3422.4	3507.9	3679.0	2888.0
57.5°	386.6	402.8	489.3	729.2	1052.6	1637.6	2475.1	2749.9	3014.0	3592.9	2876.4
60°	155.9	158.9	193.3	268.2	442.3	833.5	1484.7	1728.7	1977.6	2750.4	2207.4
62.5°	113.4	117.4	131.1	156.9	223.7	364.4	640.1	744.4	813.7	1362.3	1087.5
65°	91.6	94.6	105.8	117.4	147.8	195.8	206.5	198.9	197.9	352.2	249.5
67.5°	75.9	78.9	87.0	95.1	106.3	97.7	70.8	74.4	60.7	60.2	49.1
70°	55.7	59.2	67.3	75.9	63.8	26.3	41.0	60.7	46.1	38.5	37.4
72.5°	42.0	44.5	52.1	49.6	18.7	10.1	27.3	44.0	35.4	28.3	27.8
75°	31.4	32.9	26.3	8.1	2.0	2.5	10.1	18.2	19.7	16.2	16.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.5	2.0	2.5	3.0
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°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3
2.5°	576.9	555.6	525.3	500.0	480.7	462.0	447.9	433.7	433.2	426.1	424.6
5°	601.2	562.7	507.1	467.1	442.8	428.1	418.0	412.9	410.4	407.9	406.9
7.5°	636.1	580.9	504.0	461.5	441.3	431.7	424.6	421.5	420.0	418.0	417.5
10°	679.1	607.3	515.2	472.1	454.4	445.3	437.7	433.2	430.6	427.1	426.1
12.5°	730.7	639.6	532.9	489.9	471.1	459.0	448.9	442.3	438.7	434.2	433.2
15°	786.4	674.6	552.6	506.0	483.8	468.1	455.4	445.3	438.7	433.2	431.7
17.5°	844.1	710.0	570.3	517.2	489.9	471.1	452.9	439.2	431.2	424.1	422.0
20°	908.9	746.4	582.0	519.2	487.8	463.0	441.8	424.6	416.5	406.9	404.8
22.5°	976.7	780.3	587.0	514.6	476.7	447.9	425.1	407.4	395.7	385.6	382.6
25°	1042.5	810.7	584.5	502.0	460.0	426.6	403.3	385.1	372.4	362.3	359.8
27.5°	1112.3	836.0	575.4	483.3	437.2	403.3	381.1	365.4	353.7	342.6	340.1
30°	1190.7	859.3	560.7	460.5	410.4	379.5	362.3	351.7	339.1	327.4	323.9
32.5°	1285.4	880.0	539.4	433.2	386.6	358.8	349.2	341.1	326.4	314.3	311.7
35°	1393.7	897.2	512.6	404.8	363.3	345.6	343.6	333.0	313.7	299.6	296.5
37.5°	1519.1	913.9	480.7	377.0	346.1	339.6	340.1	321.8	298.6	281.4	279.3
40°	1654.3	930.6	445.3	352.7	330.4	336.0	331.5	305.7	267.7	251.0	249.0
42.5°	1794.9	948.8	409.4	329.9	317.3	322.4	315.8	273.3	245.9	237.3	236.3
45°	1922.0	970.6	370.4	307.2	304.1	302.6	291.5	247.5	235.8	229.7	229.2
47.5°	2013.6	967.1	328.9	285.4	290.0	284.9	251.0	235.3	225.7	217.6	215.6
50°	1996.9	905.3	285.9	261.1	271.7	267.2	225.7	221.1	212.5	203.9	200.9
52.5°	1954.3	821.3	248.5	235.3	252.0	241.4	208.5	203.9	196.3	185.2	181.7
55°	1977.1	742.4	219.1	214.6	231.8	199.9	189.3	182.2	174.1	161.9	160.4
57.5°	1903.7	605.7	176.1	179.1	204.9	170.5	166.0	154.9	141.2	133.1	132.1
60°	1317.7	325.4	110.3	113.9	148.3	143.2	148.8	138.7	122.0	114.4	112.8
62.5°	605.2	130.6	60.2	57.7	77.9	97.2	127.5	126.5	105.8	93.6	92.6
65°	146.8	59.7	43.0	40.5	44.0	58.2	83.0	99.7	85.5	71.4	69.8
67.5°	47.6	48.6	39.5	36.9	39.0	43.5	49.6	55.2	54.7	50.1	49.1
70°	38.0	44.0	36.4	33.4	33.4	34.9	33.4	26.8	23.3	25.3	26.3
72.5°	28.3	33.4	28.8	25.8	24.8	24.3	20.7	15.2	10.6	9.6	9.1
75°	16.7	18.7	17.7	15.2	14.2	12.7	10.1	6.6	3.5	2.5	1.5
77.5°	3.0	3.5	4.0	3.0	2.5	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)