

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: P631788

Luminaire Tested: GWS-SA2B-735-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-735-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4997.1 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

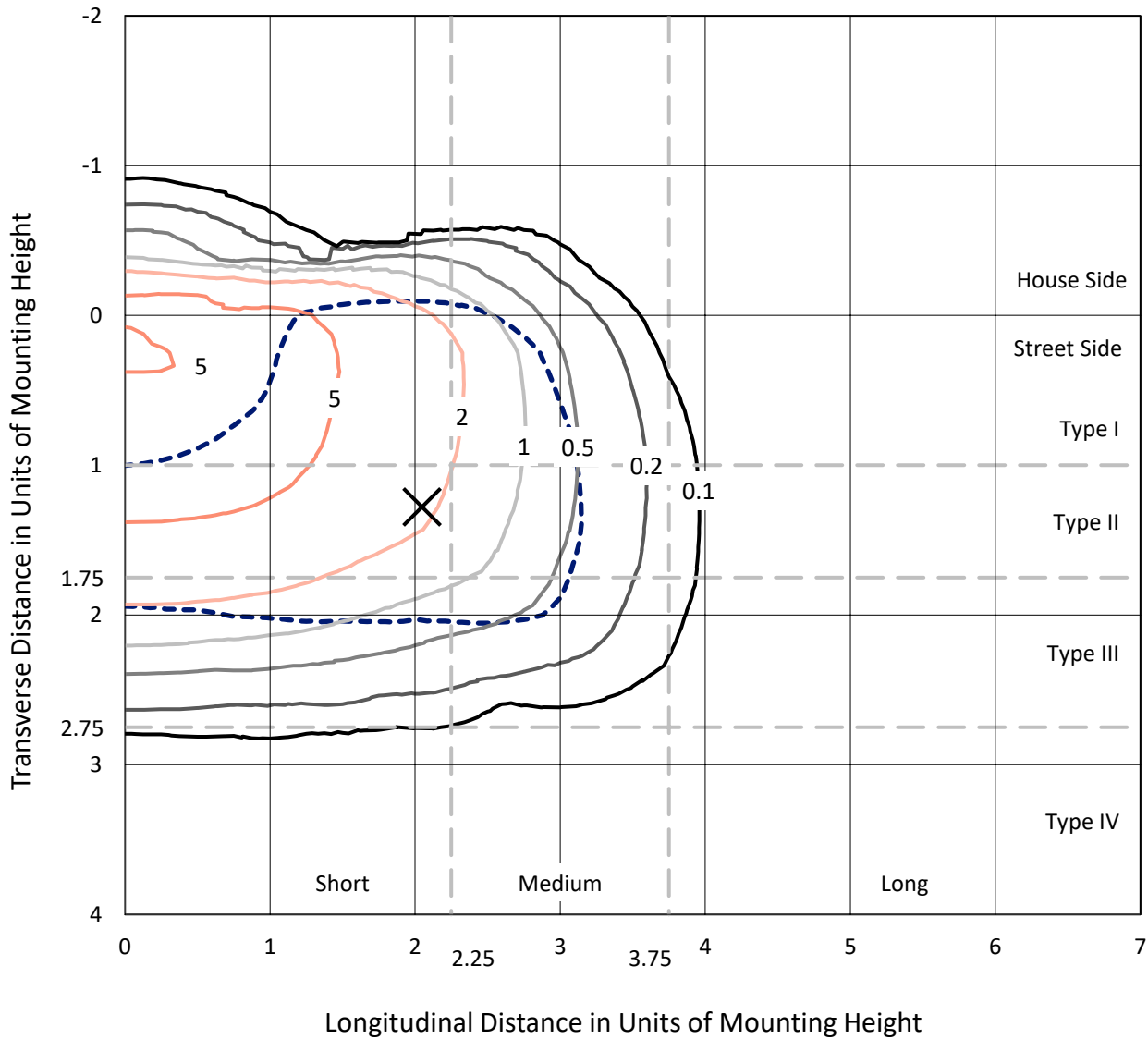
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

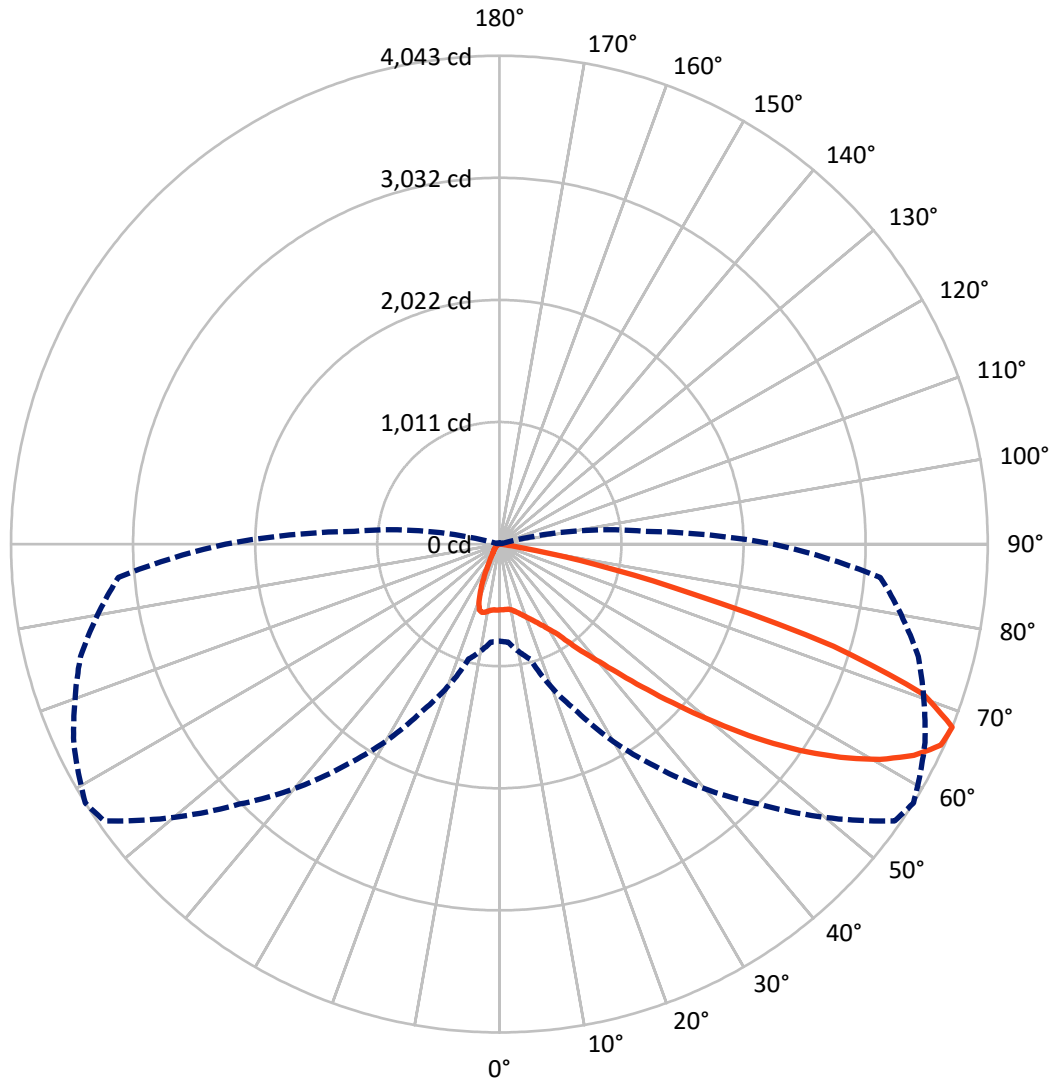
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	545.2	0.0	545.2
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	4451.9	0.0	4451.9
	% Fixture	89.1	0.0	89.1
Total	Lumens	4997.1	0.0	4997.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.2	1.0
10°-20°	143.6	2.9
20°-30°	250.7	5.0
30°-40°	447.7	9.0
40°-50°	818.3	16.4
50°-60°	1361.0	27.2
60°-70°	1478.2	29.6
70°-80°	434.0	8.7
80°-90°	12.4	0.2
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°	4997.1	100.0
0°-180°	4997.1	100.0

Coefficient of Utilization



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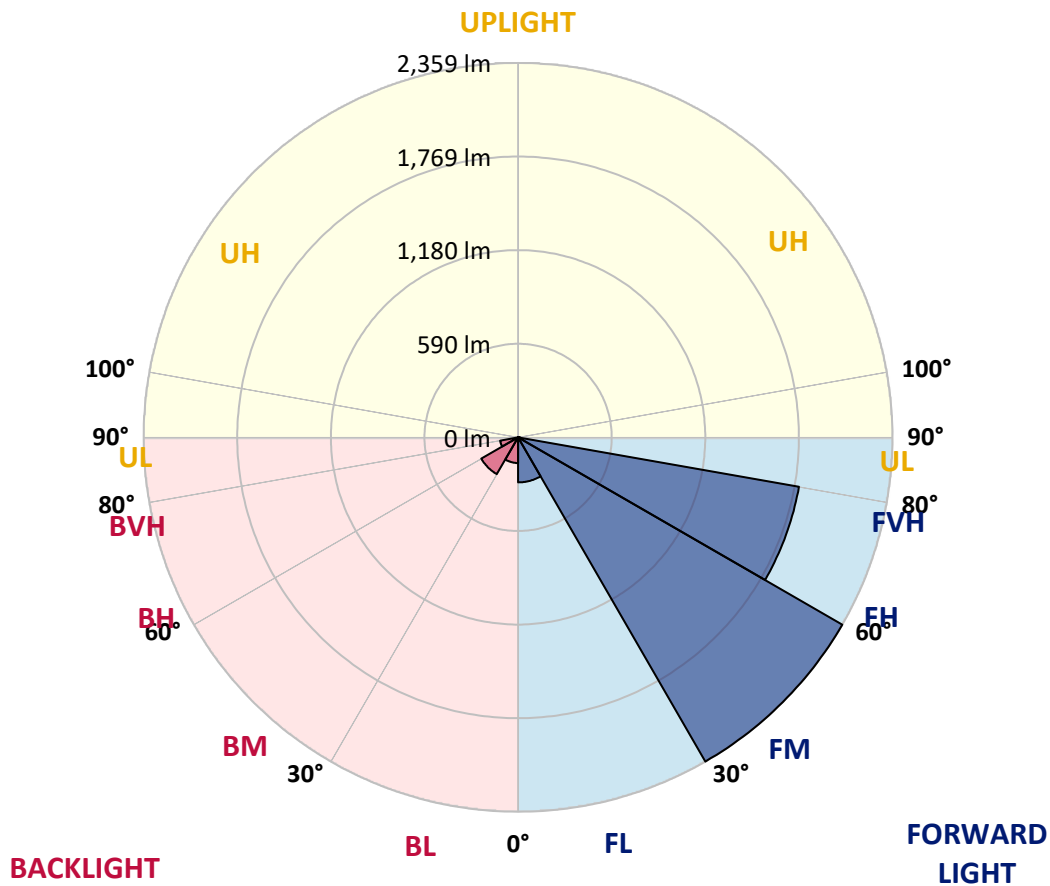
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	283.8	5.7			
FM (30°-60°)	2359.2	47.2			
FH (60°-80°)	1797.2	36.0			G1/1800
FVH (80°-90°)	11.8	0.2			G1/100
BL (0°-30°)	161.7	3.2	B1/500		
BM (30°-60°)	267.8	5.4	B1/1000		
BH (60°-80°)	115.1	2.3	B1/500		G1/500
BVH (80°-90°)	0.6	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5
2.5°	534.3	533.3	533.3	537.2	537.7	539.7	544.0	544.5	547.0	546.0	542.6
5°	506.5	507.0	509.9	516.7	522.6	529.9	540.6	543.1	548.4	551.4	549.4
7.5°	480.6	481.1	485.5	496.2	507.5	522.1	539.7	544.5	555.3	563.1	563.6
10°	470.9	470.4	474.8	487.0	501.6	522.1	547.5	553.8	569.9	583.6	586.0
12.5°	473.8	473.3	477.7	488.9	505.0	530.9	561.1	569.9	590.4	611.4	615.8
15°	485.5	485.0	487.9	497.2	514.8	541.6	578.7	591.9	617.7	643.1	649.9
17.5°	520.6	518.2	515.3	516.2	526.5	554.3	601.1	617.2	649.4	679.7	685.5
20°	583.1	576.7	568.9	558.7	553.8	572.8	627.0	645.5	684.6	719.2	720.2
22.5°	677.3	674.8	656.8	627.0	606.0	606.5	657.2	678.7	726.5	764.6	759.2
25°	808.5	807.0	779.2	730.4	675.8	657.2	695.8	717.8	776.3	816.8	799.7
27.5°	971.5	961.2	928.5	862.7	781.2	723.1	744.6	764.1	829.0	867.1	834.9
30°	1113.5	1114.0	1083.2	1014.4	922.7	822.2	804.1	821.2	877.3	917.3	878.3
32.5°	1250.1	1254.5	1220.8	1158.8	1058.3	951.5	889.5	892.4	939.3	982.7	935.4
35°	1377.0	1380.4	1356.9	1304.2	1210.6	1086.6	1008.6	1007.1	1032.5	1076.9	1014.9
37.5°	1518.9	1522.4	1499.4	1452.1	1364.3	1241.3	1143.7	1141.8	1152.0	1188.1	1117.4
40°	1670.2	1676.5	1651.2	1611.2	1527.2	1423.3	1300.8	1283.3	1273.0	1315.5	1250.1
42.5°	1823.4	1833.2	1824.4	1784.4	1712.6	1626.8	1504.8	1477.5	1455.5	1508.7	1439.4
45°	2013.7	2025.4	2021.5	1990.8	1935.1	1865.4	1750.2	1718.5	1708.3	1757.5	1675.1
47.5°	2196.7	2209.4	2223.5	2216.7	2177.2	2145.0	2017.1	1999.1	1996.1	2048.8	1921.0
50°	2332.8	2344.5	2398.7	2437.7	2464.6	2457.7	2347.0	2320.1	2315.7	2349.4	2180.6
52.5°	2430.4	2441.6	2516.3	2638.3	2736.8	2790.5	2678.8	2672.9	2649.0	2637.3	2423.6
55°	2506.0	2521.6	2600.2	2784.6	2983.2	3102.3	3032.5	3011.5	2950.1	2882.7	2649.0
57.5°	2521.2	2527.5	2638.3	2887.1	3174.5	3367.2	3367.2	3330.6	3212.1	3118.9	2909.6
60°	2385.5	2405.0	2554.8	2878.8	3256.5	3540.5	3644.9	3619.5	3459.5	3344.8	3160.4
62.5°	2084.5	2106.4	2288.9	2680.2	3174.5	3576.1	3855.2	3851.3	3670.7	3531.7	3368.2
65°	1598.5	1614.6	1773.6	2242.1	2828.1	3439.0	4005.5	4016.2	3837.6	3655.1	3439.9
67.5°	803.1	814.4	986.1	1531.6	2241.6	3044.2	3995.2	4043.0	3888.3	3589.7	3166.2
70°	280.6	291.8	372.8	657.2	1364.3	2324.5	3649.7	3727.8	3590.2	3064.2	2335.7
72.5°	96.1	101.5	154.7	244.0	530.9	1377.9	2775.4	2893.0	2646.6	2057.1	1342.3
75°	54.6	58.1	82.9	132.2	222.5	453.3	1574.6	1646.8	1542.8	1121.3	552.3
77.5°	37.1	40.0	51.7	75.1	123.0	145.9	642.1	808.5	705.1	366.0	141.0
80°	22.0	23.9	31.7	44.4	62.9	56.6	137.6	183.0	235.7	109.3	42.5
82.5°	10.2	11.7	20.5	29.3	31.7	23.9	40.5	49.3	66.4	53.7	17.6
85°	0.0	0.0	6.8	12.2	11.7	6.8	11.2	12.2	18.1	26.8	6.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	2.9	5.4	2.9
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°	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5
2.5°	546.5	543.1	547.0	545.0	547.0	546.5	542.6	540.1	540.1	535.8	534.3
5°	553.3	549.9	550.9	546.5	545.5	543.1	538.2	536.2	536.2	531.8	530.4
7.5°	568.4	563.1	562.1	553.3	549.4	542.6	533.8	530.4	529.9	525.5	524.0
10°	592.4	586.0	581.6	570.4	559.2	545.5	527.0	511.4	502.6	490.9	489.9
12.5°	621.6	613.8	607.0	589.9	571.4	540.6	486.0	428.9	393.8	366.0	367.9
15°	654.3	647.0	636.3	610.4	572.3	492.3	378.1	290.3	247.4	224.4	223.5
17.5°	689.9	679.2	661.6	626.5	541.6	376.2	245.9	173.7	151.3	143.5	141.5
20°	723.1	709.9	688.0	629.9	452.8	254.7	153.7	134.7	130.8	128.3	128.3
22.5°	758.2	741.7	709.0	603.6	336.7	163.0	130.8	126.4	123.4	120.0	119.5
25°	793.9	772.4	728.0	534.8	220.5	128.3	122.5	117.6	112.2	106.9	105.4
27.5°	824.1	796.3	742.6	432.3	141.5	115.6	111.7	103.4	96.1	90.3	89.3
30°	860.2	824.6	749.0	316.2	111.2	102.0	96.1	87.3	78.6	72.7	70.8
32.5°	908.5	869.5	739.2	205.9	98.6	89.8	80.5	70.3	61.5	55.1	54.2
35°	983.7	937.3	694.3	131.3	89.3	77.6	66.4	55.6	48.3	43.4	42.5
37.5°	1075.4	1032.5	620.7	98.6	80.0	67.3	54.2	43.9	38.5	35.1	34.2
40°	1211.5	1151.5	529.4	86.4	70.8	57.1	44.4	36.1	32.2	29.3	28.3
42.5°	1388.2	1292.0	424.5	78.6	62.0	47.8	36.1	29.8	26.3	24.4	23.9
45°	1594.6	1429.2	313.7	70.8	53.7	39.5	29.8	24.4	22.0	20.5	20.0
47.5°	1805.8	1549.2	216.6	62.5	45.9	32.7	24.9	21.0	19.0	17.1	16.6
50°	2031.3	1650.7	147.8	54.2	39.0	26.8	21.5	19.0	16.6	15.1	14.6
52.5°	2196.7	1688.3	103.0	46.8	33.2	22.9	19.0	17.1	15.1	13.2	12.7
55°	2349.4	1687.3	78.1	39.5	28.3	20.0	17.1	15.1	13.2	11.7	11.2
57.5°	2501.6	1674.1	61.5	33.7	24.4	18.1	15.1	13.2	12.2	10.2	9.8
60°	2600.2	1624.3	47.8	28.3	21.0	15.6	13.2	11.7	10.2	8.8	8.3
62.5°	2652.4	1555.0	36.6	22.4	17.1	13.7	11.7	10.2	8.8	7.3	6.8
65°	2581.7	1432.1	28.8	17.6	13.2	11.7	9.8	8.3	6.8	5.4	4.9
67.5°	2267.9	1207.6	22.4	14.2	10.2	8.8	8.3	6.8	4.9	3.9	3.4
70°	1602.9	827.0	17.6	10.7	7.8	6.8	6.3	5.4	3.9	2.9	2.4
72.5°	879.7	417.2	12.7	7.8	5.9	5.4	4.9	4.4	3.4	2.4	2.4
75°	338.6	114.7	9.3	5.4	3.9	3.9	3.4	3.4	2.9	2.0	2.0
77.5°	88.3	34.2	5.9	3.4	2.4	2.4	2.4	2.0	2.0	1.5	1.5
80°	28.3	11.2	3.4	2.4	2.0	1.5	1.5	1.0	1.5	1.0	1.0
82.5°	9.3	3.9	2.0	2.0	1.5	1.0	1.0	0.5	0.5	0.0	0.0
85°	3.4	2.0	1.5	1.0	1.0	1.0	0.5	0.0	0.0	0.0	0.0
87.5°	2.0	1.0	1.0	1.0	1.0	0.5	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)