

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: P631603

Luminaire Tested: GWS-SA2B-722-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-722-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4882.1 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

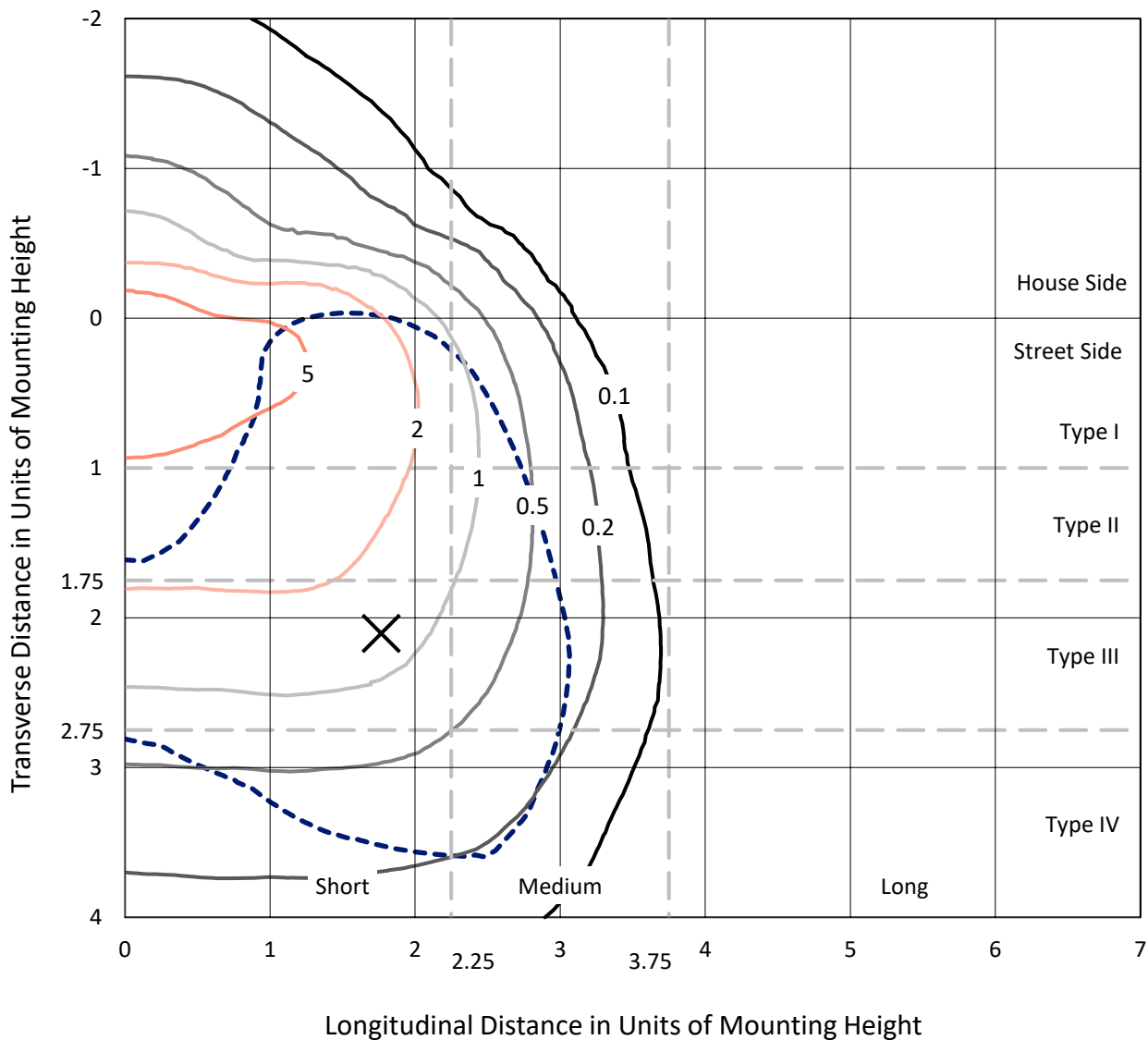
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

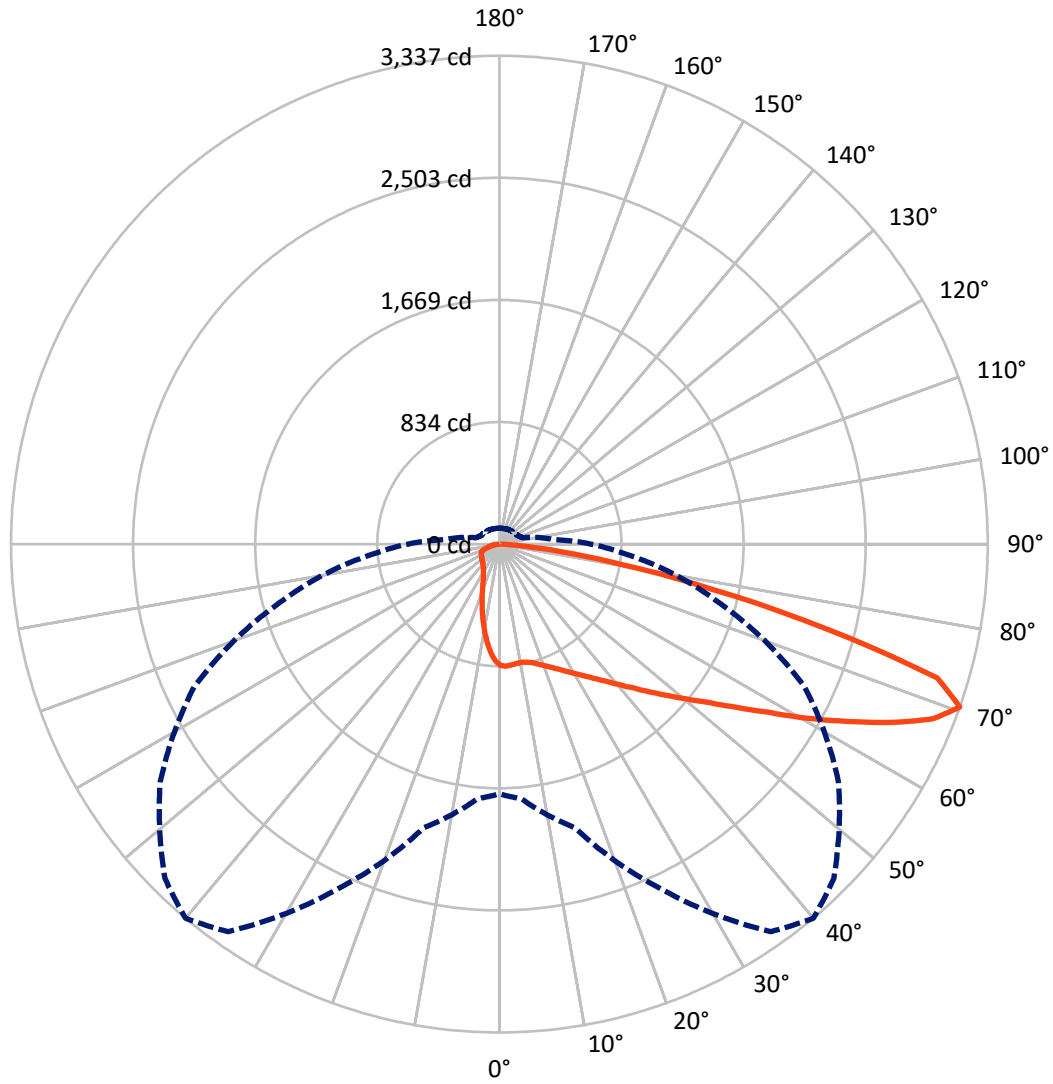
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	752.0	0.0	752.0
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	4130.1	0.0	4130.1
	% Fixture	84.6	0.0	84.6
Total	Lumens	4882.1	0.0	4882.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	1.5
10°-20°	190.9	3.9
20°-30°	299.8	6.1
30°-40°	450.7	9.2
40°-50°	695.6	14.2
50°-60°	1033.1	21.2
60°-70°	1302.2	26.7
70°-80°	753.0	15.4
80°-90°	83.6	1.7
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°	4882.1	100.0
0°-180°	4882.1	100.0

Coefficient of Utilization



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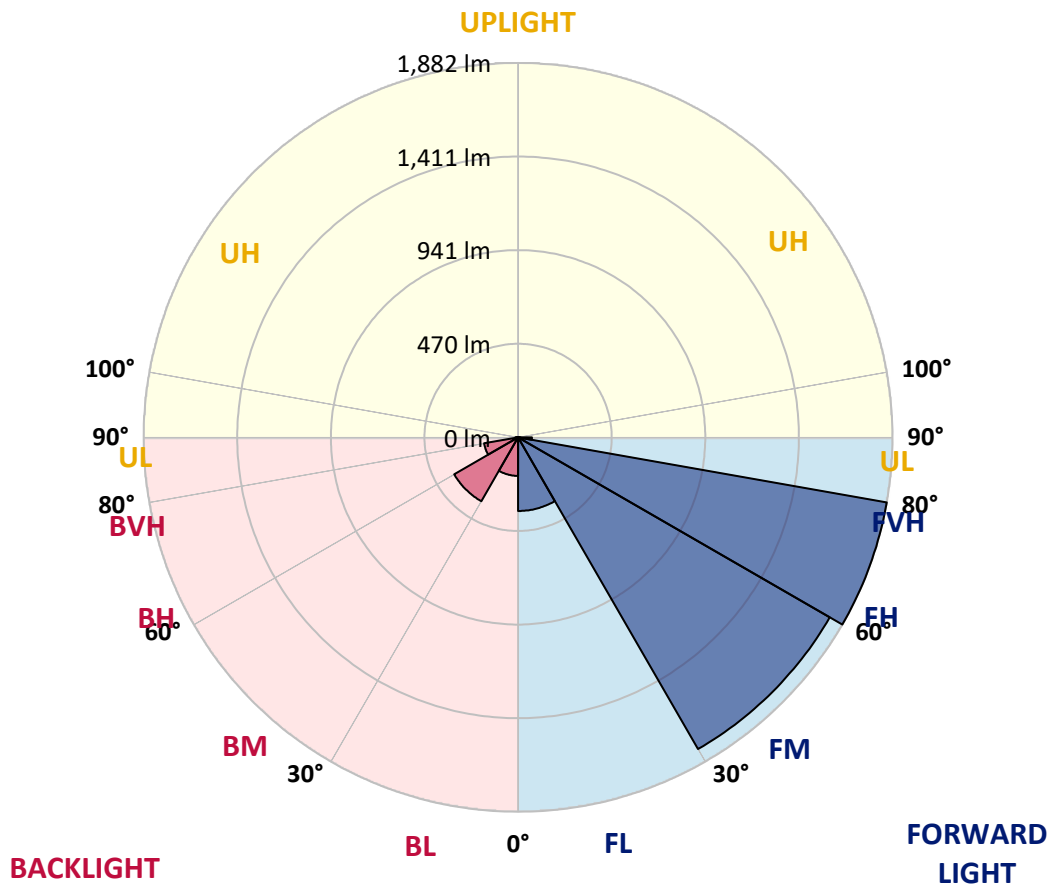
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	370.1	7.6			
FM (30°-60°)	1808.8	37.0			
FH (60°-80°)	1881.7	38.5			G2/5000
FVH (80°-90°)	69.6	1.4			G1/100
BL (0°-30°)	193.8	4.0	B1/500		
BM (30°-60°)	370.7	7.6	B1/1000		
BH (60°-80°)	173.6	3.6	B1/500		G1/500
BVH (80°-90°)	14.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	829.0	829.0	829.0	829.0	829.0	829.0	829.0	829.0	829.0	829.0	829.0
2.5°	834.1	835.6	836.7	838.1	837.4	835.2	837.1	837.1	833.0	828.7	824.7
5°	835.2	837.1	836.7	836.3	833.4	829.8	829.8	827.6	820.7	813.7	807.2
7.5°	833.0	832.7	832.3	831.2	827.9	823.9	823.2	818.8	809.7	800.2	790.8
10°	823.2	822.8	823.9	826.5	825.8	822.1	822.1	818.1	807.5	795.9	783.5
12.5°	815.2	815.2	819.6	826.5	829.0	827.6	827.9	825.0	813.0	799.2	784.6
15°	816.3	816.6	826.1	837.4	842.2	841.1	841.4	838.1	824.7	810.8	791.1
17.5°	823.6	825.4	841.8	857.5	863.7	862.2	859.6	854.2	838.9	823.2	799.2
20°	838.9	841.8	862.9	882.6	889.9	886.6	882.2	871.3	854.5	837.4	807.9
22.5°	869.1	870.9	894.3	913.6	919.4	915.4	906.7	891.0	871.7	853.8	818.5
25°	911.8	913.9	936.2	954.0	952.6	947.8	935.8	916.5	893.5	874.6	833.8
27.5°	962.4	966.1	987.9	1002.1	992.7	985.7	972.3	948.9	923.1	905.9	857.1
30°	1017.8	1019.3	1037.8	1052.1	1037.5	1028.0	1011.6	986.5	963.1	950.4	892.1
32.5°	1071.4	1072.8	1088.9	1096.9	1081.6	1074.7	1060.4	1033.8	1017.4	1010.5	944.2
35°	1127.9	1127.5	1140.6	1147.5	1131.9	1128.9	1114.4	1094.0	1091.0	1100.2	1020.4
37.5°	1184.3	1181.1	1188.0	1197.1	1188.3	1191.3	1181.8	1174.9	1186.2	1209.8	1121.7
40°	1229.5	1229.5	1236.8	1248.1	1251.0	1263.8	1258.3	1267.4	1303.9	1360.3	1247.0
42.5°	1269.6	1270.0	1285.3	1302.8	1323.9	1343.6	1348.0	1371.6	1447.1	1535.6	1404.4
45°	1311.5	1311.9	1332.7	1358.2	1403.0	1440.5	1449.3	1502.5	1610.3	1718.2	1575.4
47.5°	1360.0	1356.0	1384.8	1427.4	1491.2	1545.1	1567.7	1643.1	1779.4	1912.1	1736.4
50°	1414.6	1406.3	1438.3	1511.9	1590.7	1664.6	1702.5	1788.9	1960.9	2091.0	1888.0
52.5°	1476.2	1471.5	1505.0	1594.7	1714.9	1800.2	1851.6	1964.9	2137.3	2269.2	2008.3
55°	1552.8	1541.5	1589.9	1704.0	1860.7	1969.3	2030.1	2139.1	2330.0	2431.0	2100.1
57.5°	1636.6	1624.2	1689.0	1840.6	2050.2	2169.3	2245.5	2335.2	2511.5	2554.9	2154.0
60°	1726.9	1722.9	1799.8	2001.0	2276.1	2414.6	2469.6	2550.9	2669.3	2626.7	2140.6
62.5°	1809.7	1808.2	1920.1	2174.8	2515.5	2667.9	2711.6	2733.1	2783.0	2621.9	2033.4
65°	1896.8	1909.2	2060.4	2376.3	2789.9	2939.3	2957.6	2902.9	2821.3	2497.7	1814.0
67.5°	1907.7	1931.7	2148.6	2565.1	3050.1	3191.2	3176.6	2967.4	2708.3	2151.9	1421.9
70°	1706.2	1748.1	2007.9	2593.9	3233.4	3337.3	3232.0	2828.6	2298.3	1559.0	894.3
72.5°	1425.6	1461.7	1691.2	2212.0	2996.9	3129.2	2986.7	2394.2	1624.2	894.3	455.5
75°	1109.6	1151.5	1363.3	1758.3	2243.7	2296.5	2225.1	1669.7	892.8	368.8	207.0
77.5°	677.1	707.3	872.0	1191.3	1569.9	1490.8	1263.4	936.2	391.7	176.7	127.9
80°	299.5	318.1	429.6	639.9	907.0	857.5	676.0	399.8	214.3	112.2	89.3
82.5°	160.7	172.7	211.7	253.3	398.3	416.5	337.8	230.3	115.2	64.1	51.0
85°	70.7	77.6	96.2	91.8	130.8	128.6	129.7	158.2	55.0	29.5	33.2
87.5°	0.0	0.0	0.0	0.0	0.4	0.4	4.0	21.1	5.5	8.7	7.7
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°	829.0	829.0	829.0	829.0	829.0	829.0	829.0	829.0	829.0	829.0	829.0
2.5°	820.3	813.7	811.9	809.7	805.7	798.8	793.7	787.9	785.3	782.4	782.8
5°	799.9	791.9	784.2	774.4	762.0	748.1	738.7	727.7	721.9	716.4	717.9
7.5°	782.4	770.0	754.3	733.6	711.3	686.6	666.5	650.8	640.3	633.0	636.6
10°	771.5	756.9	729.6	695.7	658.1	620.2	591.4	564.5	547.7	534.6	533.9
12.5°	769.3	750.3	710.6	661.4	607.1	556.5	514.2	477.7	455.5	439.1	445.3
15°	771.5	747.4	694.2	629.7	561.2	492.7	440.2	398.3	371.7	356.8	355.7
17.5°	774.0	744.5	675.6	595.4	513.1	434.7	373.9	329.4	302.1	287.2	287.5
20°	776.2	740.1	653.8	557.9	464.3	380.8	317.8	275.5	251.1	240.1	242.0
22.5°	779.8	735.7	630.4	517.8	414.3	328.7	273.3	239.1	224.5	217.2	217.6
25°	786.8	733.2	606.4	474.1	365.1	287.2	242.7	219.7	210.6	206.3	205.9
27.5°	801.0	735.4	581.2	431.8	320.7	255.5	223.0	208.1	201.9	199.0	198.6
30°	824.7	744.1	559.4	388.8	282.4	230.7	209.5	200.4	196.8	194.2	193.9
32.5°	860.7	760.5	535.7	348.7	251.4	212.5	199.0	194.2	191.7	190.2	190.2
35°	915.4	790.4	512.4	313.8	227.4	198.2	190.6	188.8	186.6	185.8	186.6
37.5°	994.1	838.1	491.2	283.1	210.3	187.3	181.5	182.2	180.4	181.5	182.6
40°	1094.0	901.9	473.4	258.0	197.5	179.3	173.5	176.0	174.9	176.0	177.8
42.5°	1220.4	981.0	459.9	238.3	188.4	172.7	167.3	169.8	169.1	170.5	172.4
45°	1361.4	1085.2	453.7	224.5	181.8	168.0	162.2	164.0	163.3	164.3	166.2
47.5°	1496.6	1180.0	459.2	216.5	176.4	164.0	157.8	158.5	158.2	157.8	158.9
50°	1613.3	1255.4	474.8	213.9	172.7	160.0	154.1	154.5	153.4	151.2	152.0
52.5°	1708.4	1315.9	484.3	213.9	170.9	155.6	150.1	150.5	148.3	145.4	145.8
55°	1771.0	1340.3	476.7	213.5	170.2	152.0	146.1	146.5	144.3	140.7	141.0
57.5°	1788.9	1316.6	444.6	209.5	169.5	149.0	142.1	142.8	141.4	137.4	137.4
60°	1739.0	1229.9	385.9	200.4	167.6	147.2	139.2	140.3	139.6	135.6	135.6
62.5°	1608.1	1075.7	315.9	186.6	162.5	145.0	136.7	138.8	140.7	138.5	138.1
65°	1363.3	861.8	256.9	171.3	156.0	141.4	133.0	138.5	142.5	145.4	145.4
67.5°	1022.9	616.9	209.5	155.2	146.1	134.1	128.3	133.4	136.3	138.1	139.2
70°	623.5	363.0	165.1	136.7	131.9	123.2	118.8	113.7	109.7	109.0	109.3
72.5°	305.0	207.7	134.1	116.2	112.6	104.6	94.7	92.6	90.7	89.6	89.3
75°	168.0	144.7	110.8	96.6	90.0	80.2	78.0	74.3	73.6	72.2	72.5
77.5°	118.8	114.1	91.5	78.3	68.5	63.4	64.5	61.9	61.9	60.9	60.5
80°	89.3	89.6	70.3	57.2	50.7	48.8	49.9	49.9	49.2	48.8	48.5
82.5°	56.5	63.8	47.4	36.8	36.1	36.4	36.1	35.7	36.4	35.3	35.0
85°	39.0	45.9	28.8	21.9	21.9	21.5	22.2	21.9	22.6	21.5	21.5
87.5°	8.7	20.4	10.6	6.6	6.9	6.6	6.9	7.3	8.0	8.4	8.4
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)