

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: P629334

Luminaire Tested: GWS-SA1B-740-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1B-740-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2699.3 lumens
Efficiency: N/A
Efficacy: 108.0 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

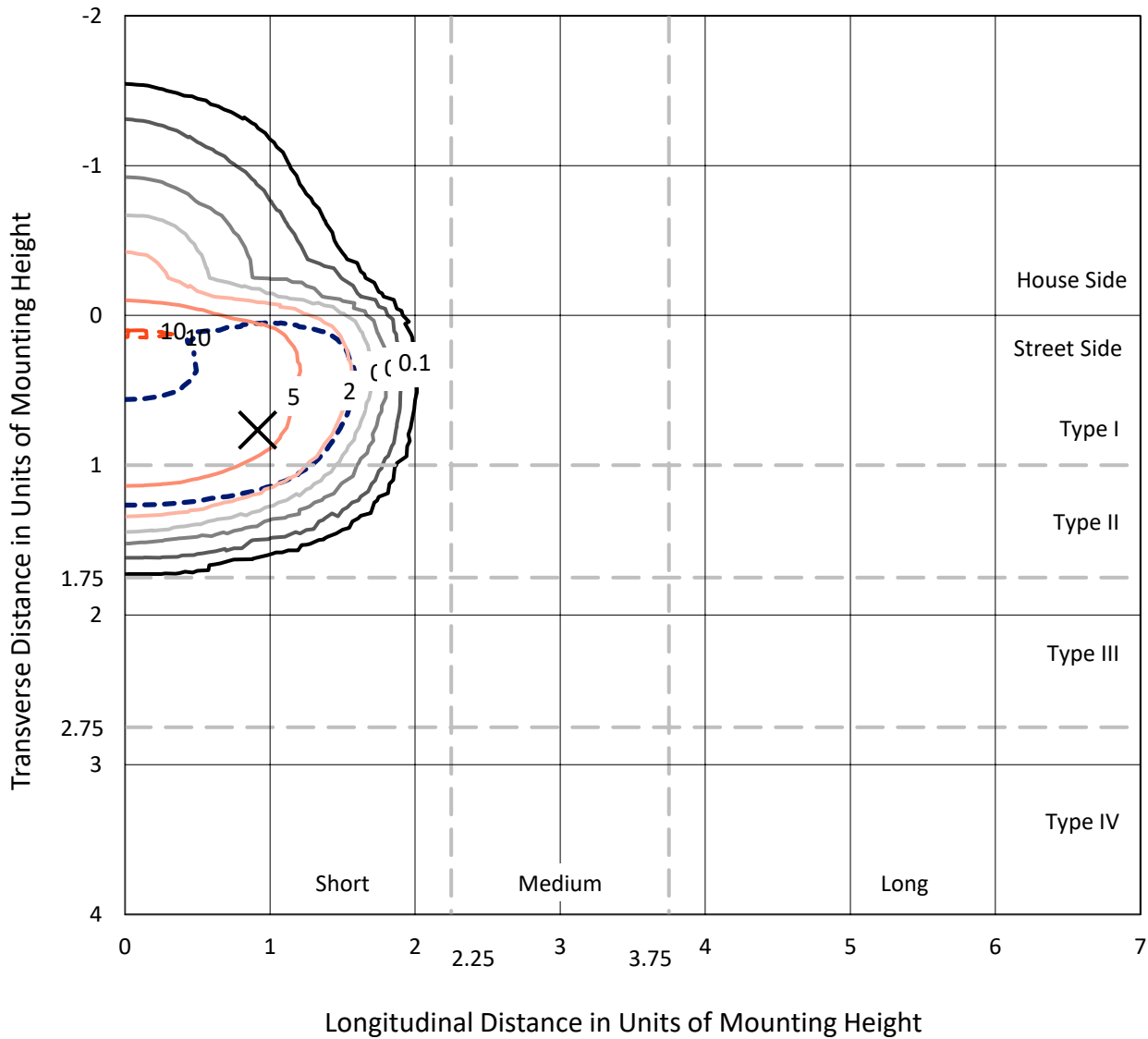
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

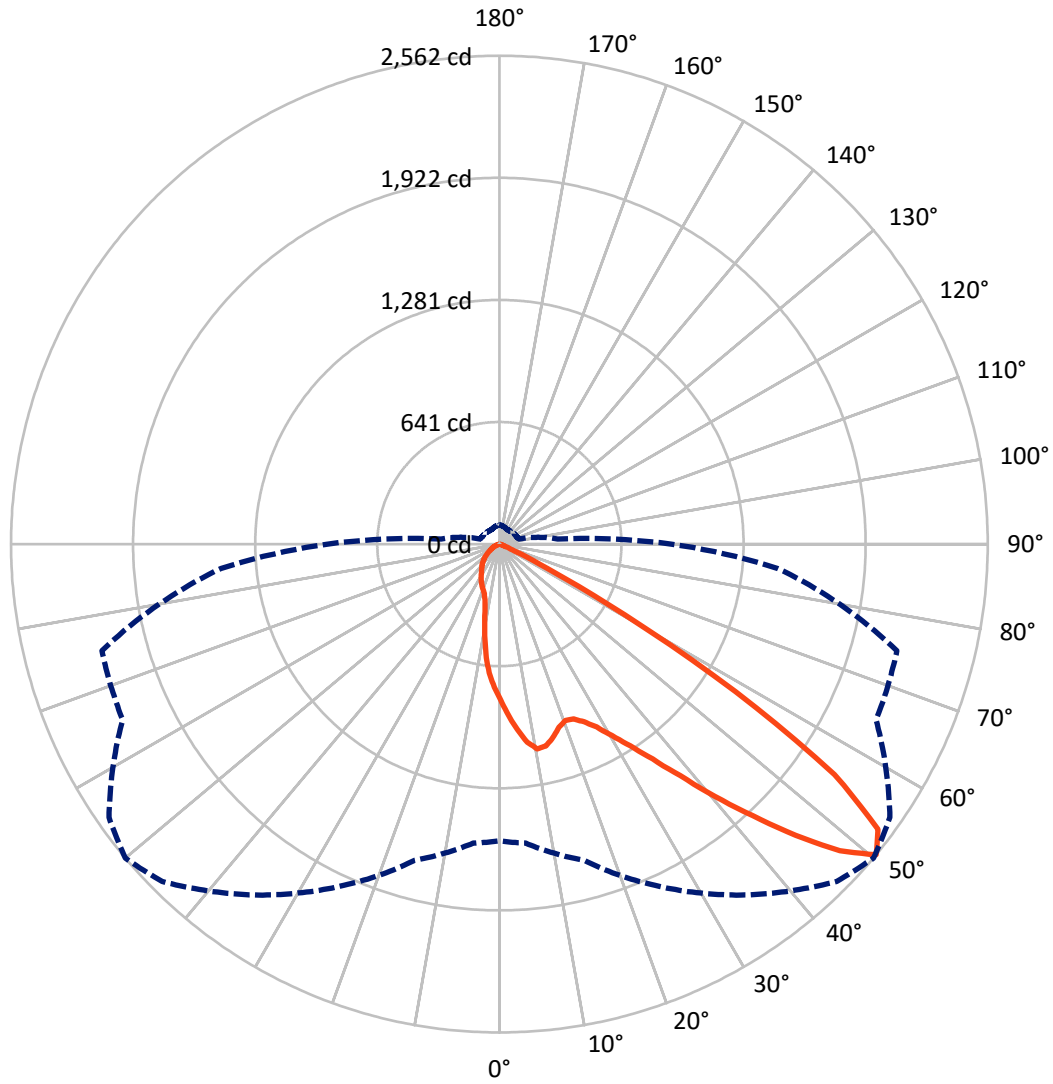
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	346.8	0.0	346.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	2352.5	0.0	2352.5
	% Fixture	87.2	0.0	87.2
Total	Lumens	2699.3	0.0	2699.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.9	2.8
10°-20°	195.7	7.3
20°-30°	323.0	12.0
30°-40°	533.1	19.7
40°-50°	843.4	31.2
50°-60°	638.6	23.7
60°-70°	79.9	3.0
70°-80°	9.0	0.3
80°-90°	0.7	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°	2699.3	100.0
0°-180°	2699.3	100.0

Coefficient of Utilization



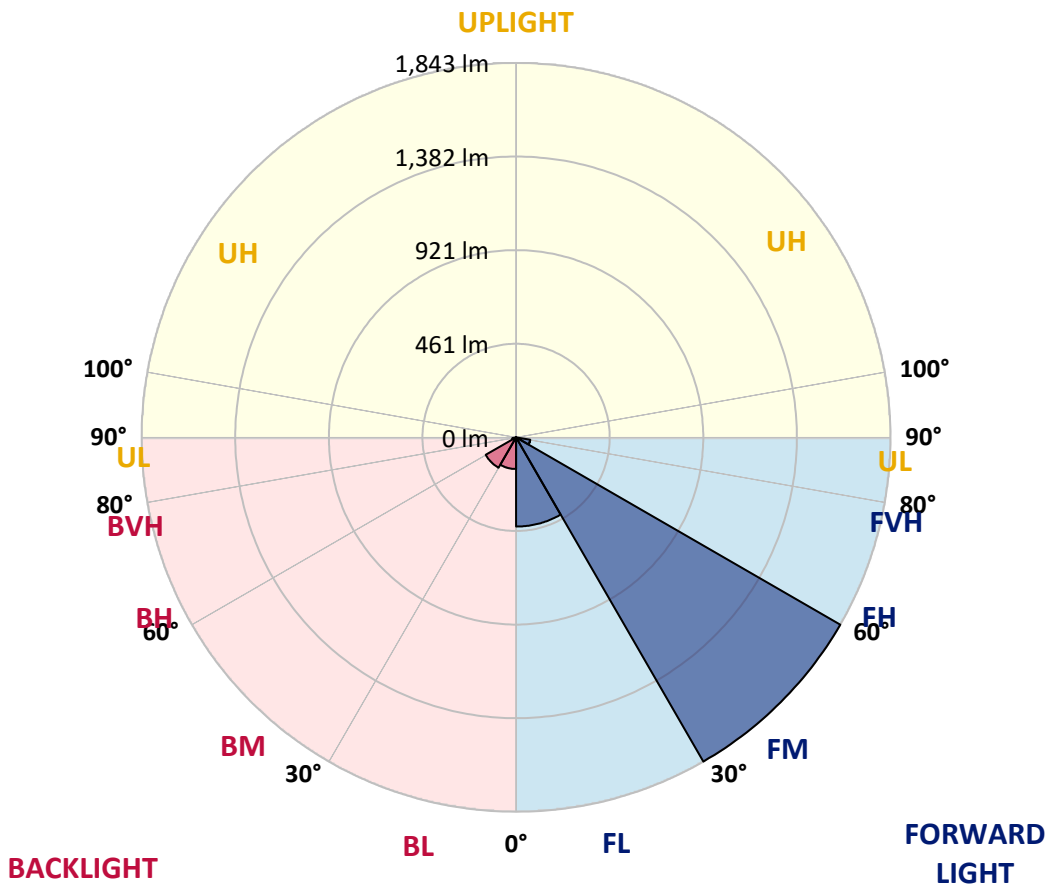
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	438.9	16.3			
FM (30°-60°)	1842.6	68.3			
FH (60°-80°)	70.7	2.6			G0/660
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	155.7	5.8	B1/500		
BM (30°-60°)	172.5	6.4	B0/220		
BH (60°-80°)	18.3	0.7	B0/110		G0/110
BVH (80°-90°)	0.4	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°	50°	55°	65°	75°	85°
0°	817.8	817.8	817.8	817.8	817.8	817.8	817.8	817.8	817.8	817.8	817.8
2.5°	931.9	939.3	937.2	927.5	917.0	909.5	897.9	894.3	868.1	849.9	830.6
5°	1044.4	1046.7	1044.1	1032.3	1013.8	996.1	977.1	966.0	922.1	882.5	842.2
7.5°	1071.4	1068.5	1073.4	1079.3	1076.8	1069.0	1049.0	1036.9	984.5	920.0	858.9
10°	987.1	980.7	998.9	1029.5	1061.6	1097.8	1092.7	1093.7	1045.4	967.3	880.7
12.5°	875.3	872.8	886.4	921.8	984.8	1067.0	1086.8	1119.9	1101.2	1018.4	905.6
15°	826.3	827.5	835.8	858.1	903.3	1005.6	1053.1	1113.0	1151.0	1068.0	933.1
17.5°	833.7	838.3	838.1	845.5	873.0	955.0	1010.5	1091.1	1189.5	1125.1	964.7
20°	884.3	888.9	882.0	876.4	885.6	942.1	988.1	1069.0	1215.5	1182.6	998.1
22.5°	960.1	965.5	949.1	932.9	927.0	963.2	996.6	1060.1	1235.3	1235.3	1027.9
25°	1051.8	1059.3	1033.9	1005.1	988.6	1007.6	1032.8	1080.4	1255.6	1282.6	1048.2
27.5°	1154.3	1154.6	1132.8	1100.4	1069.6	1071.9	1087.0	1126.1	1277.9	1333.4	1064.2
30°	1269.7	1270.5	1241.4	1202.6	1163.9	1153.3	1166.2	1195.7	1324.4	1397.4	1086.3
32.5°	1418.7	1422.3	1380.7	1323.7	1273.3	1253.5	1261.0	1292.1	1398.4	1477.6	1119.4
35°	1620.1	1624.0	1562.6	1487.3	1407.2	1377.4	1384.8	1416.2	1505.6	1591.4	1172.3
37.5°	1819.0	1824.1	1762.0	1691.8	1581.9	1532.5	1540.2	1570.0	1666.4	1748.6	1257.1
40°	1956.5	1963.4	1944.1	1896.9	1794.9	1730.1	1739.4	1750.1	1843.4	1936.7	1367.1
42.5°	2028.9	2038.7	2046.9	2071.0	2017.3	1963.1	1947.5	1948.2	2023.5	2128.3	1481.4
45°	2033.3	2042.8	2084.9	2178.2	2219.0	2207.7	2179.2	2159.9	2161.0	2256.0	1552.8
47.5°	1892.0	1909.7	1988.6	2171.2	2324.9	2418.7	2404.3	2358.5	2218.8	2264.5	1545.1
50°	1557.2	1574.7	1718.0	1980.9	2247.8	2502.9	2562.3	2500.9	2181.0	2158.9	1465.7
52.5°	1131.0	1132.8	1225.8	1532.8	1935.4	2347.5	2487.3	2481.3	2123.5	2031.0	1357.3
55°	537.2	530.8	635.4	865.1	1338.6	1898.6	2134.2	2201.0	2041.8	1938.5	1273.3
57.5°	156.5	159.5	206.1	337.6	669.5	1213.4	1461.6	1586.0	1675.9	1593.7	987.6
60°	70.1	70.4	78.4	102.8	223.0	564.5	755.6	909.5	1002.0	928.5	489.9
62.5°	50.9	51.1	54.2	58.1	75.8	191.1	283.4	377.7	384.6	251.8	124.1
65°	42.4	42.4	42.9	42.9	45.5	68.3	86.1	111.0	93.5	69.4	48.6
67.5°	34.2	34.4	34.9	34.9	34.2	34.2	37.0	40.6	43.4	53.7	44.7
70°	26.7	26.5	26.5	26.7	25.9	22.1	23.9	27.2	29.8	41.9	38.8
72.5°	20.8	21.1	20.8	19.8	18.0	13.1	14.1	17.7	19.0	26.2	26.2
75°	15.7	15.9	14.9	11.3	7.5	4.1	5.4	8.7	11.0	12.8	9.5
77.5°	2.1	2.1	1.5	1.5	1.3	1.5	1.5	2.1	3.1	3.1	2.3
80°	0.3	0.3	0.3	0.5	0.8	1.0	1.0	1.0	1.0	1.3	1.3
82.5°	0.3	0.3	0.3	0.3	0.8	0.8	1.0	1.0	1.0	1.0	1.0
85°	0.0	0.0	0.0	0.3	0.5	0.8	0.8	1.0	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.3	0.5	0.8	0.8	0.8	1.0	1.0	1.0
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°	817.8	817.8	817.8	817.8	817.8	817.8	817.8	817.8	817.8	817.8	817.8
2.5°	819.1	804.2	786.2	773.8	756.4	744.8	728.4	717.3	707.8	700.4	704.5
5°	819.3	795.7	758.9	727.6	693.4	662.1	628.4	602.0	578.1	567.3	573.2
7.5°	824.5	790.5	734.3	678.5	613.0	548.3	487.6	438.3	413.9	402.3	405.9
10°	834.5	788.2	706.8	614.3	507.9	419.6	360.7	327.3	313.7	306.5	307.8
12.5°	843.7	786.7	671.1	529.8	400.8	325.5	294.9	290.3	293.1	293.4	293.1
15°	856.3	783.9	626.9	442.9	320.6	281.3	282.1	288.8	295.5	297.5	297.0
17.5°	869.7	779.5	569.9	359.7	272.1	268.5	277.5	286.5	293.1	294.2	294.4
20°	883.6	770.5	504.9	293.7	249.5	258.7	268.7	275.4	280.3	281.8	282.4
22.5°	890.0	751.5	429.8	246.4	234.3	246.6	254.1	262.8	264.4	258.7	259.7
25°	886.6	719.4	356.6	214.5	219.2	231.5	242.5	238.2	231.7	227.6	228.9
27.5°	876.1	676.7	284.9	191.1	203.0	218.6	219.9	215.0	214.0	210.7	211.7
30°	864.8	627.7	229.2	172.4	186.5	203.0	199.1	200.9	201.2	197.3	198.6
32.5°	857.9	576.3	182.4	159.8	176.0	179.1	186.8	190.4	190.6	181.6	183.2
35°	860.2	525.7	154.4	149.5	166.2	165.5	176.2	178.3	163.4	151.1	152.4
37.5°	878.9	478.9	138.5	141.6	149.3	155.2	163.4	149.8	146.4	140.8	141.6
40°	913.9	439.1	129.0	136.7	137.7	147.2	134.6	136.4	136.7	133.1	133.9
42.5°	954.7	405.9	123.3	133.9	131.3	132.8	120.2	123.8	127.7	126.1	126.4
45°	975.3	373.6	118.4	124.1	124.9	110.2	107.4	111.2	116.1	116.9	117.2
47.5°	957.0	342.7	113.3	110.0	115.1	100.5	97.1	98.4	104.1	107.1	107.7
50°	901.3	307.3	105.6	97.4	94.5	90.2	87.1	87.4	93.8	99.2	100.2
52.5°	822.9	270.3	93.0	82.5	76.0	79.4	80.2	78.6	84.5	89.9	91.0
55°	746.9	224.0	73.7	67.1	61.1	68.3	70.4	68.3	70.1	73.7	74.0
57.5°	525.9	126.7	56.5	55.5	50.6	58.6	61.9	58.8	55.8	58.1	58.6
60°	243.8	66.3	43.4	43.4	42.1	50.4	56.0	51.6	45.7	46.8	47.5
62.5°	76.3	41.9	31.9	30.1	34.4	42.9	47.5	43.2	36.2	36.2	37.3
65°	43.2	36.0	25.2	23.1	28.0	34.4	37.3	32.6	26.5	25.9	25.9
67.5°	40.1	34.2	22.4	18.8	19.8	22.1	23.1	20.0	18.2	18.0	18.2
70°	33.1	28.5	18.0	12.8	12.1	11.8	12.3	11.6	11.0	11.3	12.1
72.5°	20.6	17.2	11.3	7.7	6.7	6.4	6.4	6.4	6.2	6.2	6.2
75°	7.5	6.4	5.1	3.9	3.3	3.1	3.1	3.3	3.1	2.8	2.6
77.5°	2.3	2.1	2.1	2.1	1.8	1.5	1.3	1.3	1.0	0.8	0.8
80°	1.3	1.3	1.3	1.3	1.0	1.0	0.8	0.5	0.3	0.3	0.0
82.5°	1.3	1.3	1.3	1.0	1.0	1.0	0.8	0.5	0.3	0.0	0.0
85°	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.5	0.3	0.0	0.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.5	0.3	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)