

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: P629857

Luminaire Tested: GWS-SA1C-740-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629857  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1C-740-U-T2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

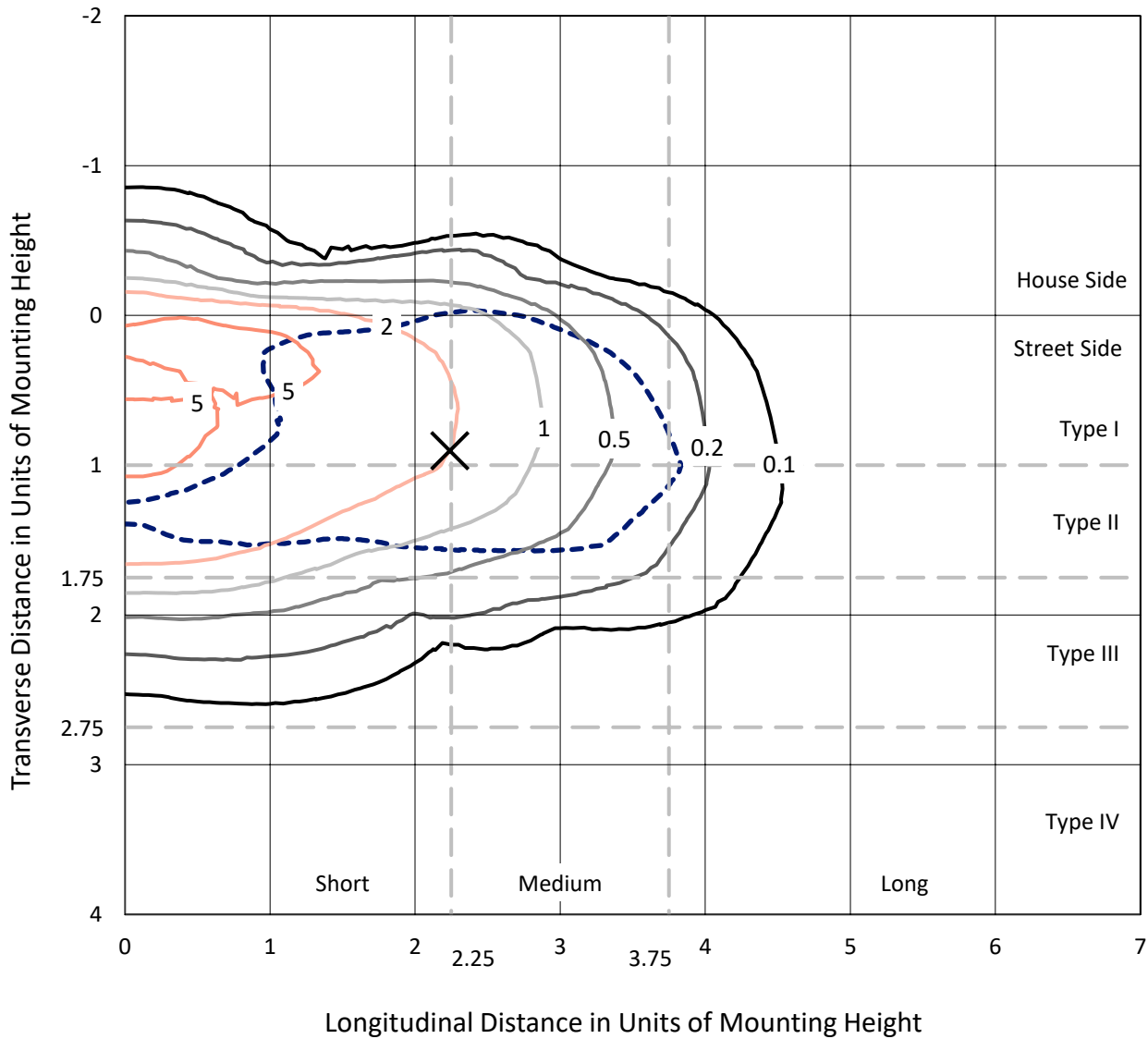
Lumens per Lamp: N/A  
Luminaire Lumens: 3600.4 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 34.1  
Input Voltage (V): 120  
Input Current (Ain): 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

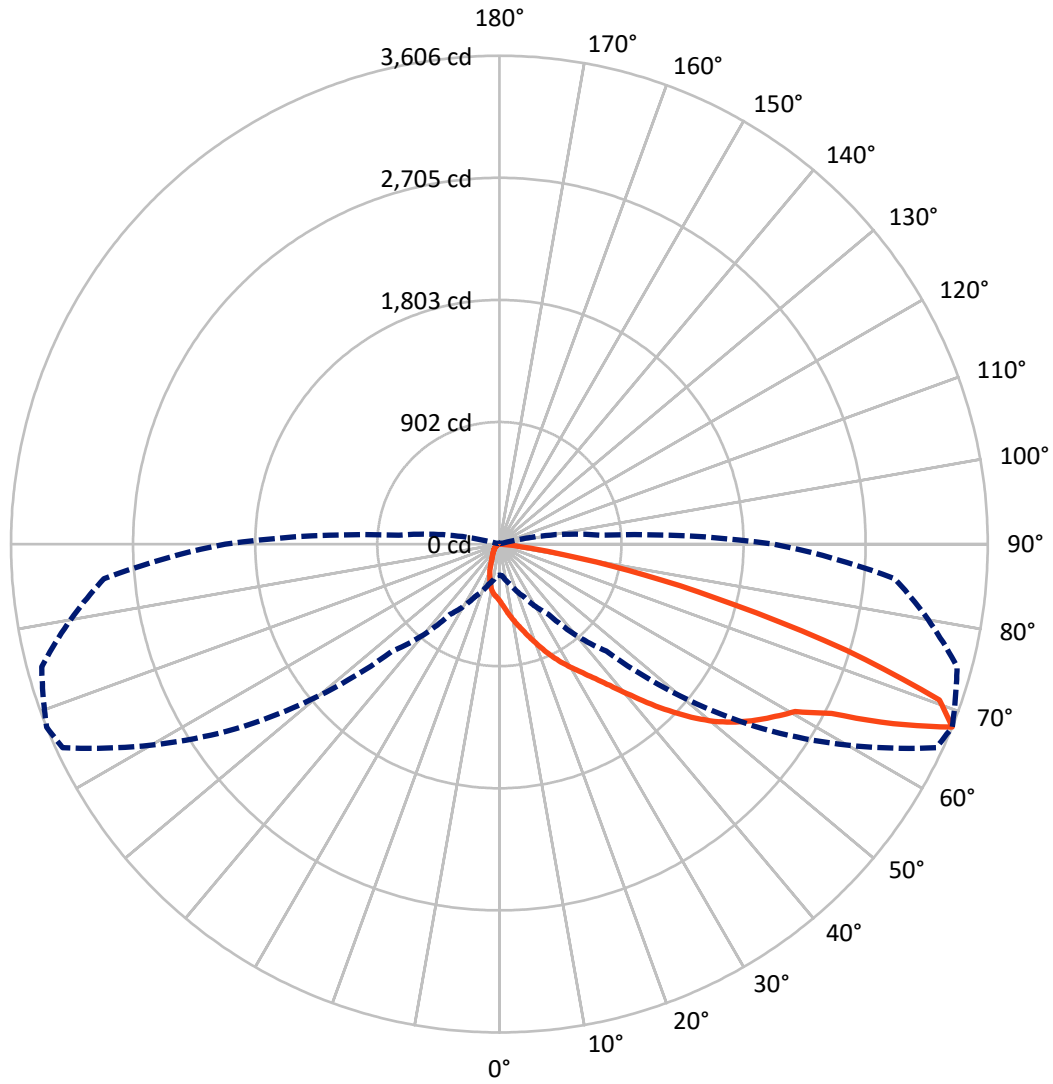
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	260.0	0.0	260.0
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	3340.4	0.0	3340.4
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	3600.4	0.0	3600.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.9	1.1
10°-20°	117.4	3.3
20°-30°	201.7	5.6
30°-40°	350.6	9.7
40°-50°	611.8	17.0
50°-60°	922.8	25.6
60°-70°	925.3	25.7
70°-80°	408.2	11.3
80°-90°	21.8	0.6
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°	3600.4	100.0
0°-180°	3600.4	100.0

**Coefficient of Utilization**



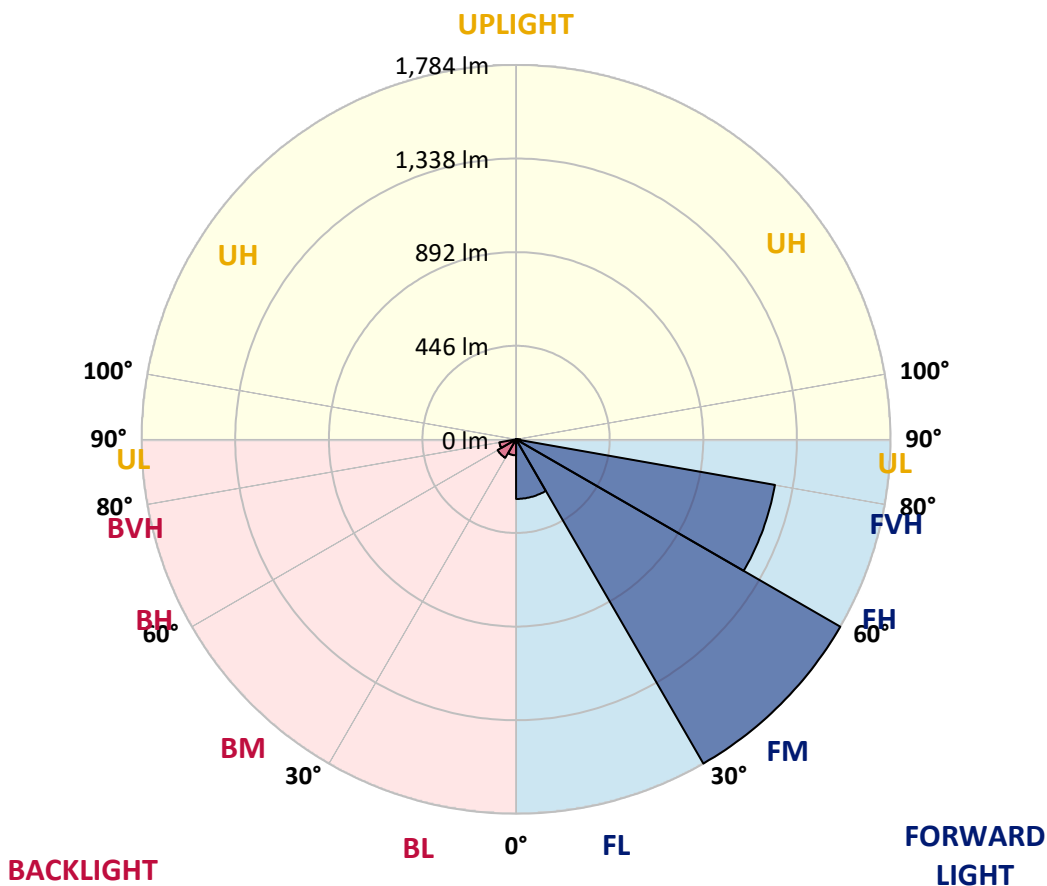
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	283.8	7.9			
FM (30°-60°)	1783.6	49.5			
FH (60°-80°)	1252.4	34.8			G1/1800
FVH (80°-90°)	20.6	0.6			G1/100
BL (0°-30°)	76.1	2.1	B0/110		
BM (30°-60°)	101.6	2.8	B0/220		
BH (60°-80°)	81.1	2.3	B0/110		G0/110
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	419.0	419.0	419.0	419.0	419.0	419.0	419.0	419.0	419.0	419.0	419.0
2.5°	487.9	491.0	487.9	488.6	479.6	475.5	466.5	454.1	451.0	443.1	431.1
5°	547.5	550.3	547.2	546.5	536.1	528.6	513.8	492.4	486.2	470.7	446.9
7.5°	579.9	581.6	582.7	584.4	580.6	574.4	561.0	534.4	527.9	502.7	469.3
10°	583.4	584.7	589.9	600.2	607.8	611.6	604.0	579.6	569.2	544.8	496.9
12.5°	573.7	575.8	584.0	601.3	622.3	641.6	646.4	625.0	615.7	584.4	529.3
15°	561.0	562.7	574.1	597.5	629.2	664.7	684.7	675.4	665.0	632.3	565.1
17.5°	541.3	543.7	559.6	591.3	632.3	682.9	726.0	729.1	721.9	686.4	604.7
20°	530.3	532.0	546.1	578.9	630.2	696.4	764.6	793.9	786.0	748.7	650.2
22.5°	539.6	541.0	550.3	575.8	623.3	704.0	800.4	858.7	854.2	815.6	698.1
25°	588.5	593.0	587.5	592.0	626.4	708.1	829.4	923.4	924.5	885.5	747.7
27.5°	687.8	681.9	668.8	646.4	650.5	719.1	854.2	984.4	993.4	953.8	791.8
30°	788.7	785.3	777.3	742.5	713.6	743.6	875.2	1046.8	1060.9	1021.0	831.1
32.5°	902.1	905.5	891.4	849.7	800.4	793.2	896.9	1106.1	1132.6	1097.1	877.3
35°	1037.5	1038.5	1010.6	964.4	908.6	875.2	935.8	1171.5	1220.5	1194.3	938.9
37.5°	1169.5	1175.7	1160.5	1087.8	1038.2	977.2	1000.3	1255.6	1324.5	1314.2	1016.5
40°	1286.3	1295.9	1291.1	1220.8	1155.7	1104.3	1100.2	1354.2	1450.3	1462.0	1118.8
42.5°	1379.3	1385.5	1389.3	1339.3	1281.8	1252.9	1223.6	1468.5	1598.8	1646.7	1244.2
45°	1477.5	1479.6	1487.5	1453.7	1403.4	1405.8	1369.3	1607.4	1755.2	1851.4	1388.3
47.5°	1602.6	1609.5	1605.7	1570.2	1524.7	1551.9	1519.9	1750.4	1909.6	2069.8	1535.7
50°	1754.9	1762.1	1758.7	1717.3	1666.7	1678.0	1658.1	1889.3	2058.5	2275.9	1658.4
52.5°	1833.4	1839.3	1882.0	1900.6	1874.1	1801.7	1775.9	2041.9	2184.2	2445.4	1771.1
55°	1795.5	1799.7	1892.7	1971.3	2068.4	1996.1	1894.4	2159.8	2295.2	2577.7	1854.8
57.5°	1638.4	1660.8	1787.3	1920.3	2124.6	2188.0	2086.7	2287.9	2402.0	2669.7	1937.2
60°	1316.3	1315.2	1496.5	1735.2	2015.0	2240.7	2358.2	2461.3	2509.1	2740.4	2047.4
62.5°	727.4	733.9	975.1	1289.7	1710.4	2104.3	2561.9	2760.7	2753.4	2863.7	2220.1
65°	362.1	375.2	506.2	738.8	1138.1	1739.0	2597.0	3217.6	3196.9	3154.2	2576.7
67.5°	229.8	235.0	307.4	429.3	632.6	1117.8	2378.2	3558.4	3606.3	3498.7	2930.6
70°	148.9	157.5	213.6	293.6	381.8	576.1	1742.1	3337.5	3447.4	3460.8	2710.0
72.5°	81.0	87.2	136.4	209.5	275.7	288.1	978.6	2504.7	2681.4	2935.7	2120.1
75°	46.2	50.7	74.8	142.3	202.3	175.4	433.8	1676.7	1789.3	2098.1	1519.2
77.5°	27.9	31.7	42.0	69.3	126.8	117.2	164.0	1020.6	1092.3	1251.8	797.3
80°	12.7	15.2	26.5	38.2	69.3	55.5	62.7	475.8	491.4	513.8	263.9
82.5°	5.9	6.9	12.1	22.7	39.3	32.0	24.1	109.9	154.7	146.4	67.2
85°	0.7	0.7	4.5	9.3	11.0	8.3	10.0	24.8	31.4	44.1	19.3
87.5°	0.0	0.0	0.3	0.3	0.7	1.0	2.1	3.1	4.5	7.2	4.8
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°	419.0	419.0	419.0	419.0	419.0	419.0	419.0	419.0	419.0	419.0	419.0
2.5°	425.5	415.9	407.3	394.5	385.9	376.3	369.7	361.8	358.7	356.3	352.8
5°	435.2	419.7	398.7	375.2	355.9	337.7	320.8	309.8	300.1	298.7	293.9
7.5°	451.0	428.0	392.5	354.2	321.5	291.2	267.4	248.1	238.4	235.3	229.8
10°	472.1	440.4	383.2	324.6	277.4	241.2	214.3	192.6	177.5	171.9	167.8
12.5°	495.5	451.7	368.3	288.1	234.3	193.0	158.8	135.8	126.1	122.7	119.6
15°	522.4	462.4	344.9	251.5	192.3	142.0	117.8	107.8	103.7	102.7	101.6
17.5°	548.2	469.3	317.0	213.6	147.8	110.3	98.9	95.1	94.1	93.0	92.3
20°	577.5	474.1	284.3	177.8	114.7	93.4	87.9	85.1	83.0	81.0	80.6
22.5°	607.5	474.1	248.8	142.7	96.1	83.7	77.5	72.4	68.6	66.5	65.8
25°	636.1	467.6	213.6	114.1	84.8	74.4	66.5	60.6	55.5	53.1	52.4
27.5°	656.4	450.7	183.0	96.5	76.8	66.2	56.5	50.0	45.8	43.4	43.1
30°	669.2	425.5	154.7	86.1	69.9	57.5	47.9	42.4	39.3	37.6	36.9
32.5°	678.8	394.5	129.6	78.9	63.4	50.0	41.7	37.2	34.5	33.1	32.7
35°	698.1	365.2	111.0	72.4	56.5	43.8	36.5	33.1	31.0	29.3	28.9
37.5°	725.0	340.8	96.1	66.5	50.0	38.9	33.1	30.0	28.3	26.5	26.2
40°	764.6	325.3	85.1	60.6	44.1	35.1	30.3	27.6	25.2	23.4	23.1
42.5°	825.6	318.0	77.9	54.8	38.9	31.7	27.9	24.5	22.1	20.3	20.0
45°	898.3	321.8	71.7	48.9	35.5	29.3	24.8	21.4	19.0	17.2	16.9
47.5°	976.2	335.3	66.5	43.4	32.0	26.9	22.1	18.3	16.2	14.5	14.1
50°	1057.5	357.3	62.0	38.2	29.3	24.1	19.0	15.9	13.8	12.4	12.1
52.5°	1128.1	387.3	57.5	34.5	26.9	21.4	16.5	13.8	11.7	10.3	10.0
55°	1195.7	415.5	54.1	31.0	24.1	18.6	14.5	11.7	10.0	8.6	8.3
57.5°	1269.0	445.5	50.0	27.9	21.7	16.5	12.7	10.0	8.6	7.2	6.9
60°	1375.9	490.0	43.8	25.5	19.0	14.5	11.0	9.0	7.6	5.9	5.5
62.5°	1529.9	570.9	36.9	22.1	16.2	12.4	9.3	7.6	6.2	4.8	4.1
65°	1817.9	708.8	30.3	18.3	13.1	10.3	7.9	6.2	4.8	3.4	3.1
67.5°	2025.4	744.6	24.5	14.8	10.7	7.9	6.5	4.8	3.4	2.4	2.1
70°	1770.7	534.8	19.0	12.1	9.0	6.2	5.2	3.8	2.4	1.7	1.4
72.5°	1334.2	349.4	14.1	9.3	6.9	5.2	3.8	3.1	2.1	1.4	1.0
75°	940.3	201.9	10.3	6.9	4.8	3.8	3.1	2.4	1.7	1.0	1.0
77.5°	482.1	83.4	7.2	4.8	3.4	2.4	2.1	1.4	1.4	1.0	0.7
80°	146.4	27.6	4.1	3.1	2.4	1.7	1.0	1.0	1.0	0.7	0.3
82.5°	33.4	9.0	2.4	2.4	1.7	1.4	1.0	0.3	0.3	0.0	0.0
85°	8.6	2.8	2.1	1.7	1.7	1.4	0.7	0.3	0.0	0.0	0.0
87.5°	3.1	1.7	1.7	1.7	1.4	1.0	0.7	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)