

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: P628980

Luminaire Tested: GWS-SA1A-760-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628980  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1A-760-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

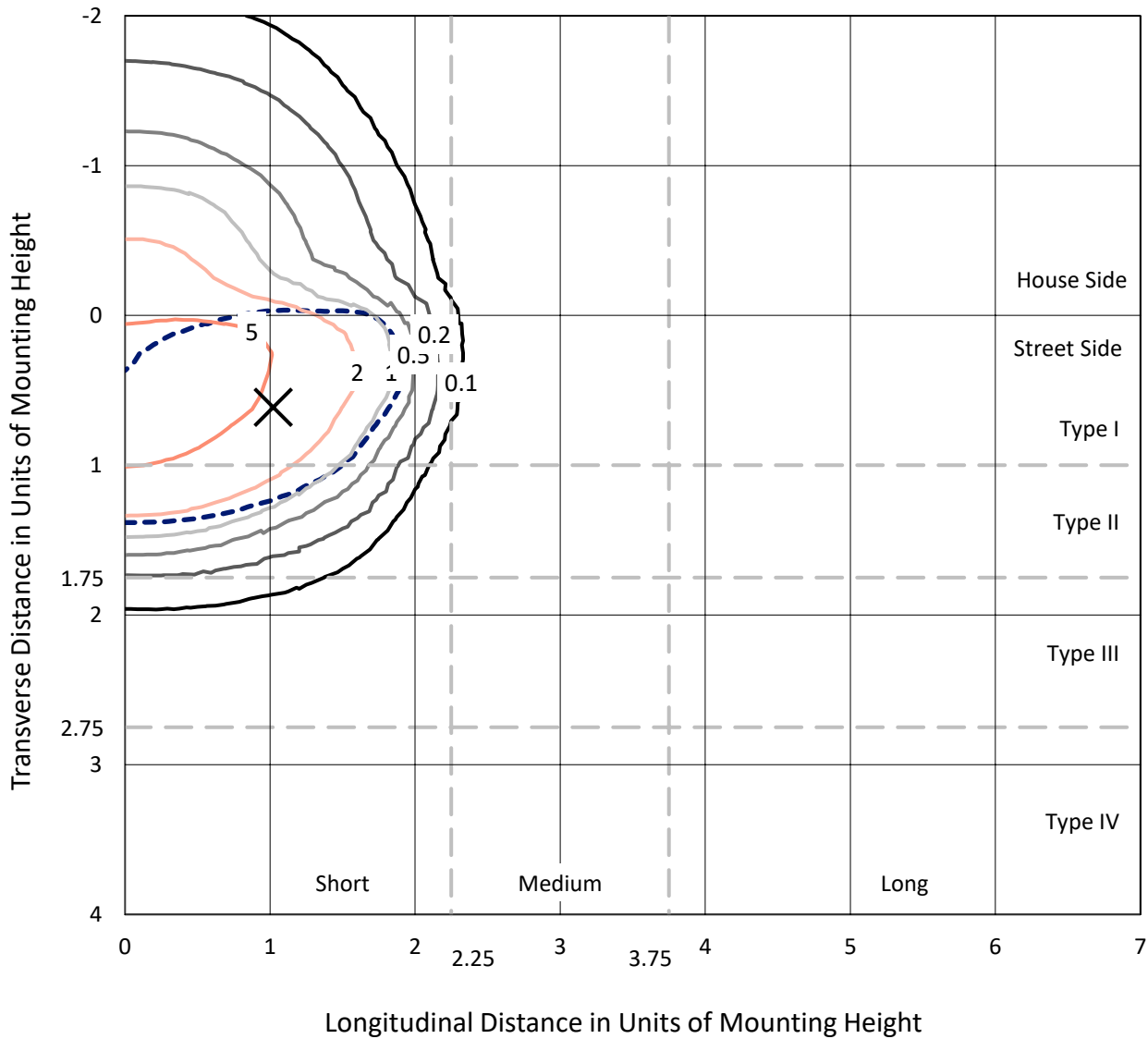
Lumens per Lamp: N/A  
Luminaire Lumens: 2525.1 lumens  
Efficiency: N/A  
Efficacy: 128.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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

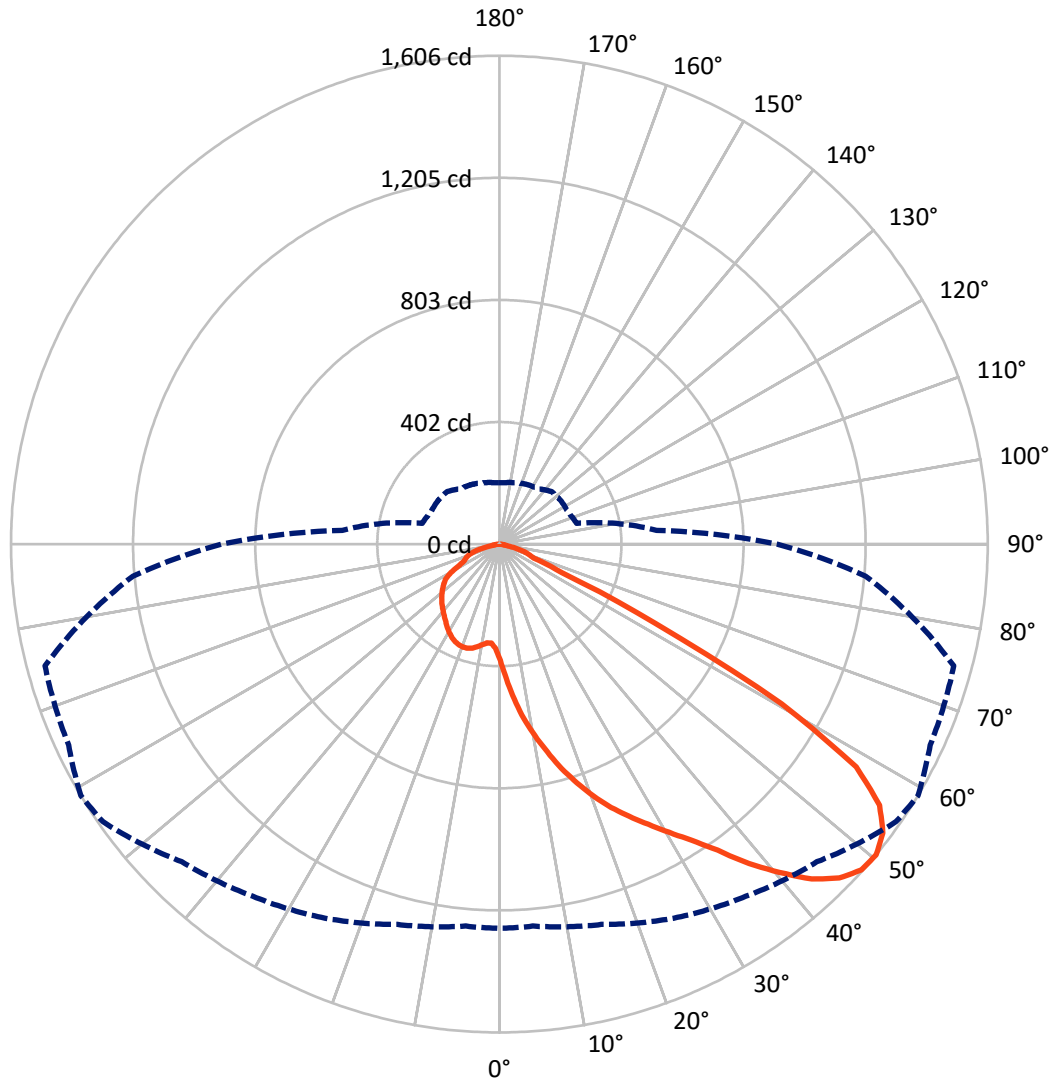
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	580.8	0.0	580.8
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	1944.3	0.0	1944.3
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	2525.1	0.0	2525.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.9	1.7
10°-20°	155.8	6.2
20°-30°	295.0	11.7
30°-40°	489.2	19.4
40°-50°	668.3	26.5
50°-60°	606.7	24.0
60°-70°	202.0	8.0
70°-80°	58.9	2.3
80°-90°	6.2	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°	2525.1	100.0
0°-180°	2525.1	100.0

**Coefficient of Utilization**



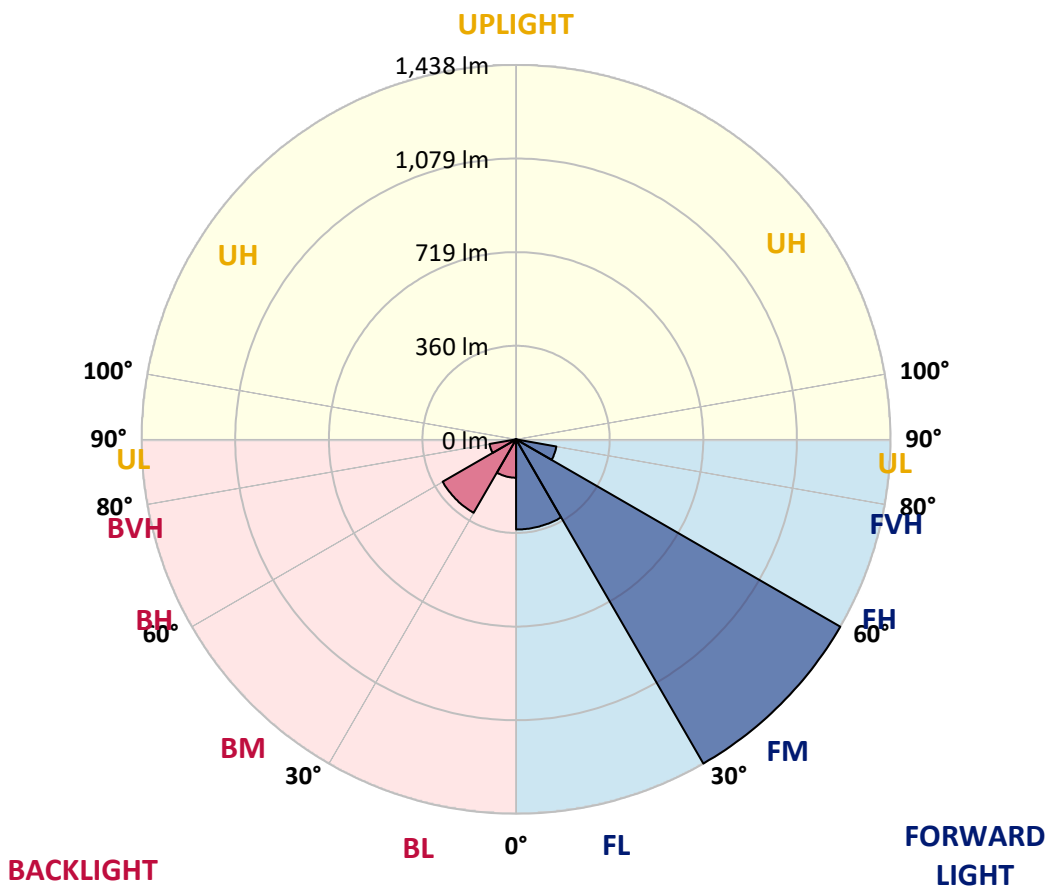
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	346.3	13.7			
FM (30°-60°)	1438.3	57.0			
FH (60°-80°)	157.3	6.2			G0/660
FVH (80°-90°)	2.4	0.1			G0/10
BL (0°-30°)	147.5	5.8	B1/500		
BM (30°-60°)	325.9	12.9	B1/1000		
BH (60°-80°)	103.7	4.1	B0/110		G0/110
BVH (80°-90°)	3.8	0.1			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°	59°	65°	75°	85°
0°	382.6	382.6	382.6	382.6	382.6	382.6	382.6	382.6	382.6	382.6	382.6
2.5°	495.7	499.4	493.6	494.1	479.7	473.1	454.6	443.7	436.5	416.3	398.0
5°	595.7	591.3	586.8	584.1	571.6	553.9	530.9	512.6	495.7	456.2	418.2
7.5°	657.0	654.7	651.6	650.0	637.6	619.1	596.1	580.4	556.0	502.5	442.6
10°	709.0	706.3	704.5	705.7	695.6	683.7	658.6	640.7	613.1	551.4	472.2
12.5°	749.3	750.7	751.4	757.9	753.6	746.4	720.5	701.6	670.9	603.1	507.0
15°	781.2	780.8	788.0	800.5	807.5	803.0	782.2	766.4	728.9	653.9	544.4
17.5°	788.6	789.0	800.3	822.3	845.2	856.3	844.5	825.6	788.6	704.1	583.3
20°	794.6	795.4	807.1	832.2	865.5	896.6	898.4	884.8	853.0	758.4	622.8
22.5°	832.2	834.0	837.1	853.0	883.0	922.3	943.9	941.0	914.3	815.3	665.4
25°	931.1	925.6	910.6	906.0	917.6	949.4	986.3	991.8	978.6	878.1	711.3
27.5°	1053.3	1047.3	1025.1	1001.7	976.8	987.9	1027.2	1043.8	1044.0	947.2	757.3
30°	1164.2	1159.4	1141.3	1107.8	1064.8	1048.8	1077.8	1100.2	1113.6	1027.0	809.8
32.5°	1259.0	1254.7	1230.2	1202.8	1160.9	1128.6	1139.1	1160.7	1191.9	1130.2	875.0
35°	1338.8	1334.5	1311.0	1283.5	1244.6	1225.3	1221.6	1236.4	1276.9	1238.0	949.8
37.5°	1403.6	1399.3	1374.8	1348.9	1319.3	1320.5	1326.0	1333.2	1356.5	1353.4	1029.9
40°	1445.5	1441.0	1423.5	1405.0	1386.3	1401.1	1428.7	1420.0	1432.4	1446.6	1103.5
42.5°	1464.3	1458.5	1448.4	1444.3	1438.5	1461.6	1514.7	1506.0	1491.2	1508.7	1158.2
45°	1445.5	1440.6	1440.4	1452.9	1466.3	1495.9	1574.1	1567.1	1529.7	1538.7	1190.9
47.5°	1388.2	1383.8	1395.6	1428.5	1461.4	1504.6	1600.6	1601.9	1557.0	1551.3	1212.1
50°	1264.1	1261.2	1295.2	1357.5	1414.3	1477.6	1592.2	1606.4	1563.6	1547.4	1209.4
52.5°	1012.0	1025.3	1099.2	1203.2	1313.5	1430.3	1560.9	1579.4	1531.9	1521.6	1195.0
55°	692.7	698.9	772.8	924.8	1099.6	1327.9	1489.1	1517.7	1494.5	1517.3	1210.0
57.5°	358.7	363.6	421.9	556.8	745.8	1049.4	1289.8	1383.6	1419.0	1539.1	1256.7
60°	147.3	151.4	175.4	240.6	376.2	611.1	928.2	1067.3	1150.4	1405.6	1116.0
62.5°	107.0	109.0	120.5	143.6	197.0	299.5	525.3	576.5	634.9	880.9	708.6
65°	90.1	92.4	101.6	115.6	143.8	183.7	224.4	225.6	248.7	358.9	262.7
67.5°	75.5	77.5	85.8	97.7	116.2	130.4	120.5	120.7	120.3	130.2	125.9
70°	58.8	60.5	68.7	81.5	91.1	83.7	94.2	104.3	100.0	103.9	109.8
72.5°	43.0	44.8	52.0	61.7	59.2	59.6	76.3	86.6	84.1	88.4	94.0
75°	31.1	32.3	36.0	30.9	32.5	39.3	53.7	59.2	61.7	65.4	70.3
77.5°	10.1	10.1	11.3	14.2	17.7	21.8	27.4	29.6	33.3	37.4	40.9
80°	5.1	5.3	6.4	7.8	9.9	12.5	16.0	17.1	18.9	21.2	22.6
82.5°	2.5	2.7	3.1	3.9	5.1	6.6	8.8	9.9	11.1	12.5	13.6
85°	0.6	0.6	0.8	1.2	1.6	2.5	3.3	3.9	4.9	6.0	6.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.8	1.0	1.2	1.6
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°	382.6	382.6	382.6	382.6	382.6	382.6	382.6	382.6	382.6	382.6	382.6
2.5°	389.8	378.3	363.4	350.9	339.4	330.5	322.9	319.2	315.7	313.3	314.1
5°	400.5	380.7	353.2	334.0	322.3	316.3	312.2	310.2	309.8	308.1	307.5
7.5°	416.1	387.9	351.1	331.8	324.0	320.9	318.6	317.4	318.0	316.3	315.7
10°	435.4	399.8	356.2	339.2	332.4	330.1	327.7	326.0	325.2	322.7	322.3
12.5°	459.5	414.7	365.5	348.6	341.8	337.9	334.6	331.8	329.9	326.8	326.0
15°	485.4	431.1	376.4	357.9	349.9	344.1	338.8	334.4	331.1	327.0	326.4
17.5°	513.6	448.4	385.5	364.3	354.0	346.4	338.6	332.2	327.7	322.3	321.7
20°	543.0	465.9	392.2	367.3	354.2	343.9	333.4	325.0	319.2	313.9	313.5
22.5°	573.4	481.9	396.4	366.5	350.9	338.1	325.6	316.1	309.3	303.0	302.6
25°	604.1	497.3	397.4	363.2	344.3	329.5	317.0	305.9	298.2	291.0	290.2
27.5°	635.1	510.3	394.9	356.7	335.5	319.4	306.9	296.0	288.2	281.0	279.7
30°	668.3	521.4	389.6	348.0	325.2	308.7	296.4	288.2	280.8	273.6	272.3
32.5°	703.6	531.1	382.0	337.5	313.3	298.0	289.0	281.6	274.2	267.8	266.6
35°	745.8	537.4	370.6	324.0	302.1	290.2	284.0	275.4	266.4	259.4	258.7
37.5°	789.4	542.4	357.1	311.0	292.5	285.7	280.6	268.8	257.5	249.1	248.1
40°	831.6	546.5	340.2	298.9	283.6	282.4	275.4	260.8	241.3	231.8	231.0
42.5°	870.9	547.7	322.5	285.9	275.6	275.0	267.2	244.6	229.5	223.6	222.8
45°	897.8	546.7	304.2	273.8	267.6	264.3	256.1	232.8	223.6	218.2	217.2
47.5°	917.8	541.4	283.6	261.0	258.5	254.0	236.3	225.4	216.8	211.4	210.4
50°	914.3	519.1	262.9	248.7	247.6	243.7	221.9	216.2	208.6	202.8	202.0
52.5°	896.2	477.0	241.7	235.1	237.2	229.5	211.6	205.1	198.5	191.9	190.5
55°	900.7	446.5	225.6	221.9	225.6	208.4	200.1	193.1	187.0	180.6	179.4
57.5°	920.4	416.5	208.6	207.7	211.6	192.1	185.3	176.5	167.6	162.5	162.5
60°	773.0	303.6	178.5	180.6	189.4	178.9	173.0	163.9	154.3	149.7	149.7
62.5°	457.0	190.5	148.1	145.8	151.4	158.0	161.3	153.9	142.3	136.4	136.6
65°	201.4	138.6	130.6	128.8	127.1	131.6	140.7	141.3	129.2	122.2	122.4
67.5°	124.0	125.5	122.2	120.7	119.3	118.5	117.7	118.1	114.8	108.4	108.2
70°	111.9	115.8	113.5	112.3	110.5	109.0	104.1	96.1	90.5	88.9	90.7
72.5°	96.3	101.6	100.4	99.8	97.5	94.0	87.4	79.6	73.0	68.9	69.7
75°	72.6	76.9	77.5	77.7	75.3	72.0	65.2	58.6	52.9	48.5	49.6
77.5°	41.8	44.2	44.8	45.5	43.6	42.4	37.8	33.1	30.0	25.5	26.7
80°	23.2	24.3	24.3	24.5	23.4	22.0	18.9	16.2	14.8	12.8	13.0
82.5°	14.0	14.4	14.6	14.8	14.2	12.8	10.5	8.6	7.8	6.8	6.6
85°	6.8	7.2	7.2	7.4	6.4	5.6	4.3	3.3	2.9	2.1	2.3
87.5°	1.6	1.9	1.9	1.6	1.4	1.0	0.6	0.2	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)