

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: P629995

Luminaire Tested: GWS-SA1C-827-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1C-827-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (16) 2700K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3598.1 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - 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

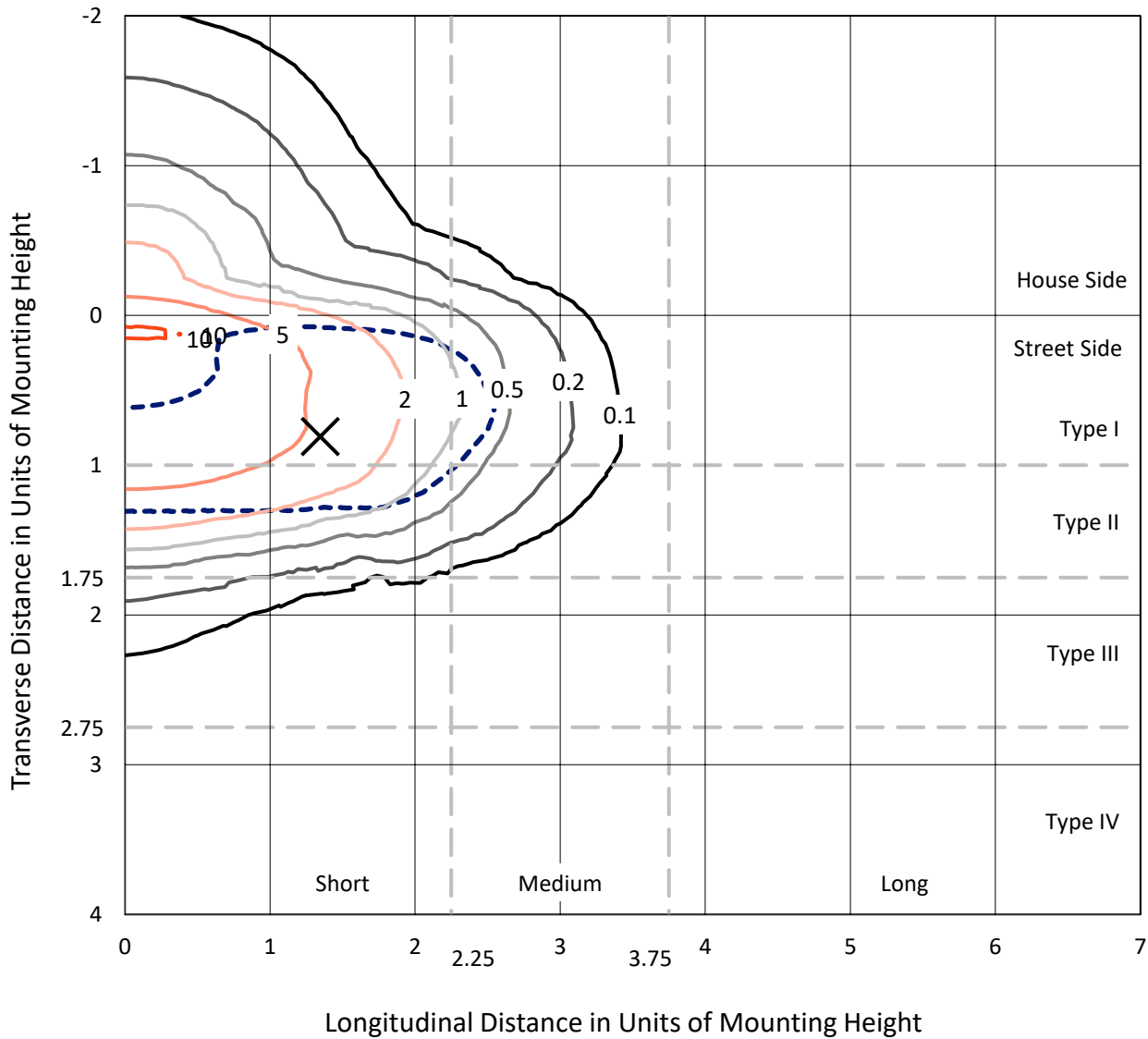


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Iso-Footcandle Lines of Horizontal Illumination

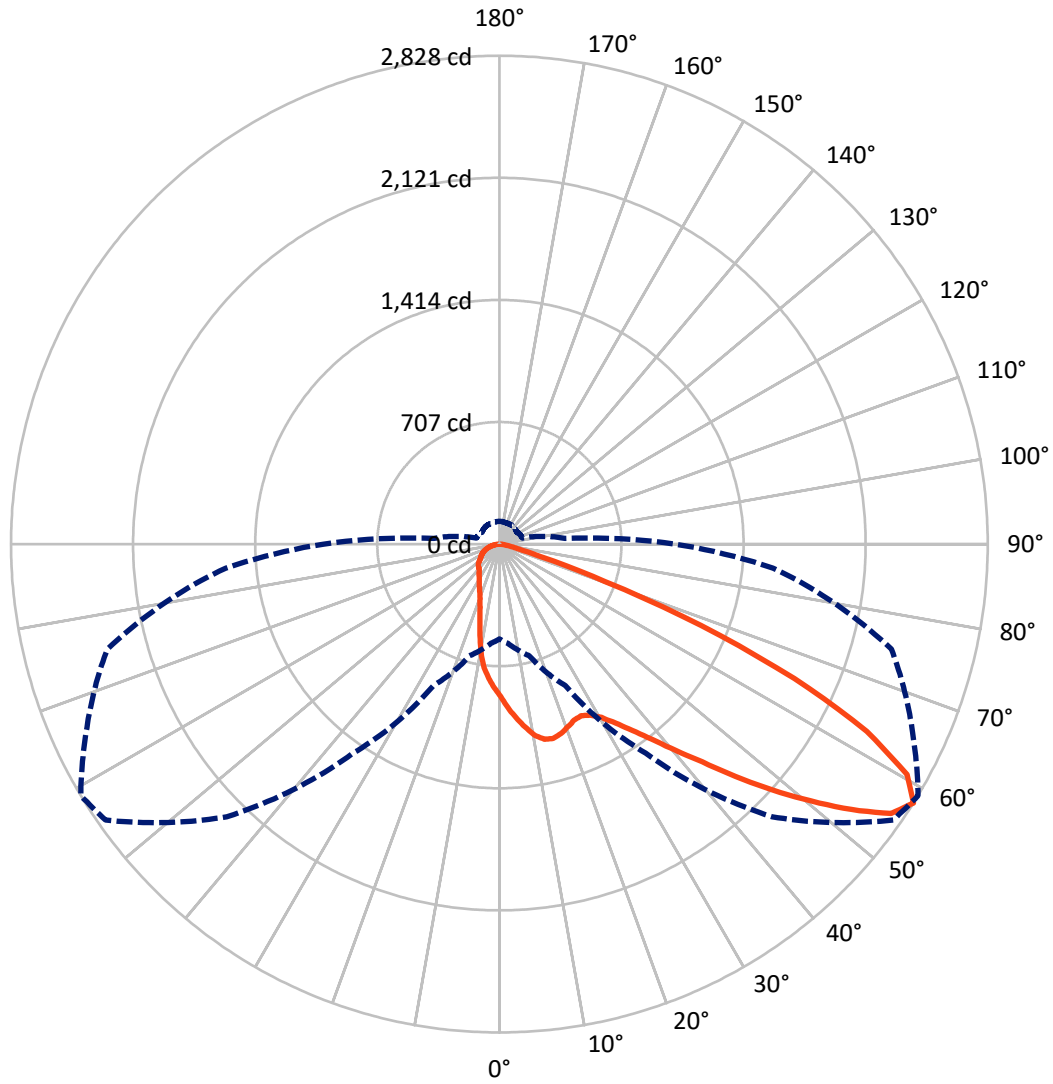
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	558.4	0.0	558.4
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	3039.7	0.0	3039.7
	% Fixture	84.5	0.0	84.5
Total	Lumens	3598.1	0.0	3598.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	2.3
10°-20°	207.8	5.8
20°-30°	336.9	9.4
30°-40°	541.9	15.1
40°-50°	841.5	23.4
50°-60°	906.4	25.2
60°-70°	526.1	14.6
70°-80°	137.3	3.8
80°-90°	18.1	0.5
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°	3598.1	100.0
0°-180°	3598.1	100.0

Coefficient of Utilization



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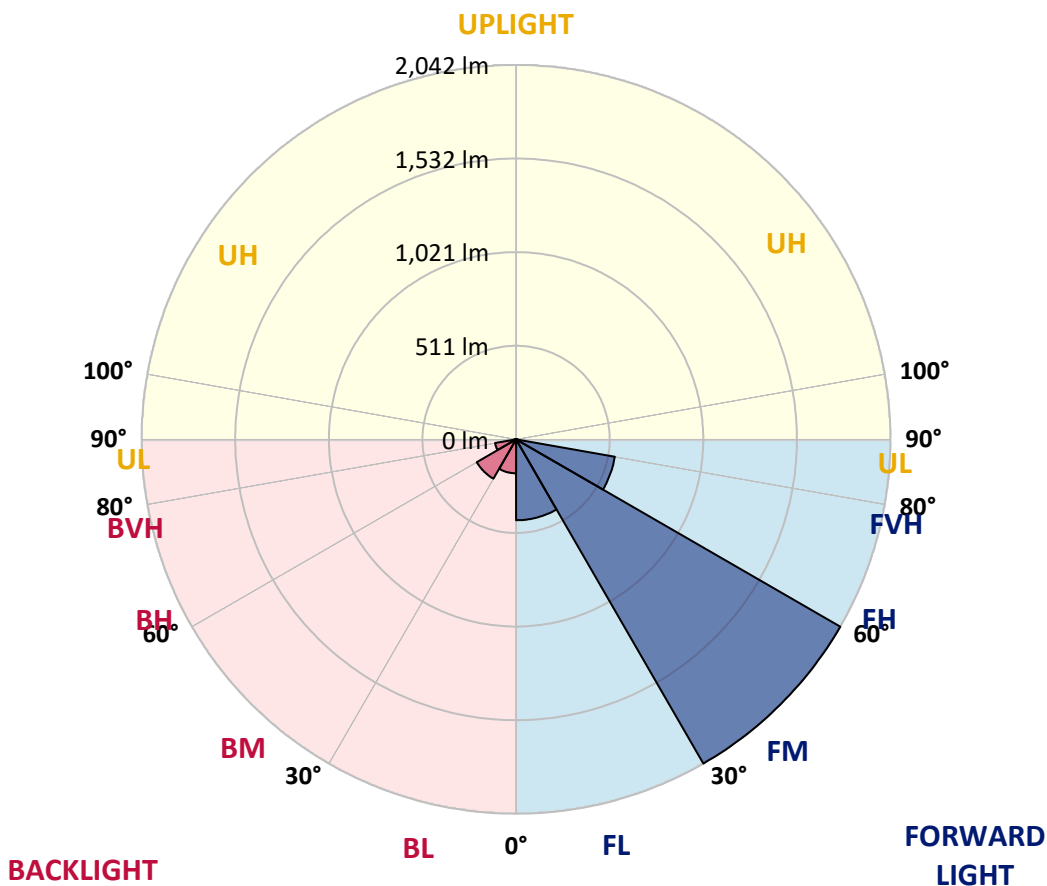
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	441.5	12.3			
FM (30°-60°)	2042.3	56.8			
FH (60°-80°)	547.3	15.2			G0/660
FVH (80°-90°)	8.7	0.2			G0/10
BL (0°-30°)	185.3	5.1	B1/500		
BM (30°-60°)	247.6	6.9	B1/1000		
BH (60°-80°)	116.2	3.2	B1/500		G1/500
BVH (80°-90°)	9.4	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	883.3	883.3	883.3	883.3	883.3	883.3	883.3	883.3	883.3	883.3	883.3
2.5°	1001.8	993.4	999.3	988.9	984.6	973.2	958.5	948.6	933.4	913.7	896.4
5°	1101.4	1095.5	1096.8	1085.6	1075.8	1056.8	1026.6	1009.9	984.1	944.3	907.3
7.5°	1098.3	1105.2	1109.0	1118.6	1121.4	1119.6	1092.5	1069.2	1040.8	981.0	925.3
10°	984.6	997.5	1009.2	1042.1	1082.1	1132.8	1139.1	1125.2	1096.5	1027.9	946.8
12.5°	860.7	870.6	881.0	920.5	981.8	1083.1	1151.8	1160.4	1149.0	1074.3	971.2
15°	799.9	804.5	814.4	840.5	889.3	1001.8	1129.7	1167.5	1188.0	1123.4	998.5
17.5°	797.4	799.4	804.2	818.2	852.1	939.0	1090.0	1153.3	1218.6	1175.3	1030.4
20°	849.8	844.5	841.5	841.2	857.9	918.0	1051.5	1130.5	1233.1	1228.5	1064.6
22.5°	922.5	924.3	917.7	901.5	899.5	932.9	1032.2	1107.4	1237.4	1275.6	1096.3
25°	1025.6	1034.5	1015.0	984.1	968.9	976.2	1044.1	1100.3	1236.9	1314.9	1116.0
27.5°	1145.9	1152.8	1133.0	1092.5	1061.1	1043.3	1079.6	1121.4	1241.2	1348.8	1128.0
30°	1283.0	1285.3	1258.1	1215.6	1169.7	1131.8	1138.6	1164.7	1263.2	1393.4	1141.9
32.5°	1450.4	1460.0	1419.0	1351.6	1287.5	1238.9	1217.9	1234.6	1310.8	1446.1	1163.4
35°	1662.9	1666.2	1614.0	1517.5	1426.8	1359.5	1315.4	1324.3	1383.3	1519.8	1195.8
37.5°	1863.3	1866.6	1811.1	1721.4	1591.7	1499.5	1435.7	1431.7	1476.0	1623.9	1248.8
40°	1990.4	1999.8	1975.0	1918.8	1794.9	1670.5	1583.9	1570.0	1597.6	1751.3	1322.5
42.5°	2058.8	2062.9	2062.4	2069.7	1996.0	1872.4	1751.1	1723.2	1741.7	1888.9	1397.0
45°	2059.3	2069.5	2096.6	2167.2	2170.5	2093.5	1962.3	1918.8	1901.8	2027.4	1474.7
47.5°	1967.1	1978.0	2052.5	2191.6	2294.1	2311.6	2215.4	2128.0	2056.6	2146.7	1538.6
50°	1688.0	1715.4	1857.2	2103.2	2318.5	2486.4	2456.8	2338.2	2194.1	2238.9	1578.6
52.5°	1445.6	1444.6	1532.0	1853.4	2216.9	2563.4	2690.3	2554.5	2330.1	2297.4	1588.7
55°	1058.5	1064.4	1153.8	1417.5	1945.9	2488.9	2818.7	2753.6	2486.2	2328.6	1584.7
57.5°	548.9	577.8	669.5	904.5	1478.5	2232.6	2784.5	2827.9	2644.7	2350.6	1590.0
60°	277.4	271.8	304.7	431.9	856.7	1743.7	2573.8	2711.8	2673.3	2367.9	1593.3
62.5°	185.2	183.6	174.5	200.1	350.1	1032.7	2194.1	2387.6	2474.5	2327.3	1551.2
65°	160.3	157.3	140.6	139.6	170.0	428.3	1608.2	1877.0	2045.2	2147.2	1450.7
67.5°	144.4	139.8	122.9	114.5	122.1	188.2	906.3	1258.9	1510.2	1815.9	1230.3
70°	128.9	126.7	109.7	97.5	96.8	114.7	333.9	649.7	924.0	1238.9	899.5
72.5°	115.5	111.5	97.0	85.4	79.5	81.3	144.9	250.3	478.2	772.8	538.0
75°	100.1	97.0	84.3	72.7	65.6	59.5	88.4	115.8	218.1	367.3	254.1
77.5°	77.3	75.2	66.6	57.8	53.7	44.3	53.7	73.0	100.8	154.8	132.2
80°	44.8	46.1	49.6	45.1	39.5	31.7	35.0	42.0	60.5	83.8	75.0
82.5°	22.5	24.1	32.2	26.1	23.6	18.5	20.8	24.8	31.7	46.4	29.4
85°	1.8	1.8	5.8	6.6	8.1	6.6	8.4	10.1	14.4	18.5	9.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.3	2.3	4.3	2.8
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°	883.3	883.3	883.3	883.3	883.3	883.3	883.3	883.3	883.3	883.3	883.3
2.5°	884.8	871.9	856.4	843.7	824.2	813.9	800.7	784.5	777.9	774.8	773.1
5°	886.6	863.8	830.8	800.4	766.7	740.1	710.5	679.6	661.9	657.6	654.5
7.5°	893.1	861.2	808.8	758.6	696.1	638.1	581.6	525.6	497.0	486.1	485.1
10°	902.3	860.2	786.5	703.2	597.5	505.8	439.7	395.9	377.4	371.3	369.3
12.5°	913.7	859.5	757.1	626.2	483.8	397.2	359.4	352.3	354.9	354.4	354.4
15°	928.1	860.5	721.7	539.0	391.4	344.7	345.5	353.9	361.7	363.0	363.0
17.5°	943.8	859.5	670.2	451.6	335.9	332.3	344.0	355.6	362.7	363.7	363.7
20°	960.8	854.6	605.4	369.3	311.6	324.5	337.1	346.3	350.6	351.6	351.6
22.5°	970.9	841.0	535.0	312.6	296.1	312.1	320.4	329.8	330.3	322.2	321.9
25°	969.4	815.4	454.7	276.1	279.6	293.6	304.2	297.6	289.5	285.0	284.2
27.5°	959.8	776.9	372.9	248.5	260.1	275.8	272.6	267.0	265.0	259.9	259.4
30°	947.6	729.5	299.4	227.0	239.9	254.3	249.2	248.7	246.7	241.1	241.1
32.5°	935.9	680.6	243.9	211.0	227.0	228.0	235.1	235.6	234.6	224.9	223.9
35°	932.7	631.7	206.4	198.3	214.3	213.8	223.9	223.7	206.2	192.8	192.5
37.5°	942.5	582.1	184.2	187.9	196.8	203.4	211.5	196.8	191.0	182.9	182.4
40°	963.6	536.2	172.8	181.9	185.7	195.3	182.6	183.6	182.1	176.0	175.3
42.5°	991.4	497.2	166.4	179.8	179.3	181.9	167.9	172.0	174.3	169.7	169.0
45°	1018.3	463.3	163.1	172.2	174.8	160.1	157.3	161.1	164.6	162.9	162.1
47.5°	1038.0	433.9	161.4	161.9	169.0	152.7	148.2	150.0	154.3	155.0	154.8
50°	1044.1	408.8	159.3	153.2	151.7	145.4	141.8	141.3	146.4	150.0	150.5
52.5°	1032.5	386.5	154.0	145.6	138.3	139.3	138.0	135.5	140.6	145.4	145.9
55°	1015.2	373.9	145.6	138.3	129.7	133.7	134.2	132.0	135.3	138.6	138.6
57.5°	1016.5	381.2	137.5	131.5	122.1	127.4	130.2	129.2	129.2	131.7	132.0
60°	1024.9	391.9	132.2	122.9	114.5	120.1	126.4	125.4	123.1	126.4	126.4
62.5°	1000.8	377.7	128.7	114.5	106.4	113.0	120.6	120.1	117.5	122.9	123.4
65°	929.9	339.7	124.6	104.1	98.3	105.9	112.5	114.2	112.0	119.1	120.3
67.5°	779.4	285.7	116.8	94.2	90.2	97.3	103.6	106.1	104.4	112.7	113.7
70°	581.1	231.3	104.4	83.3	80.3	86.6	92.5	93.5	93.7	103.6	104.6
72.5°	370.6	179.8	87.9	71.2	68.9	73.7	78.0	82.1	83.8	93.2	93.0
75°	206.7	133.7	70.7	60.3	56.2	60.0	65.1	69.9	75.0	88.7	90.2
77.5°	119.1	94.0	56.0	48.4	43.6	47.6	51.9	58.8	74.0	85.9	84.3
80°	67.1	61.0	42.3	35.5	32.4	35.5	38.8	51.7	58.3	63.3	64.1
82.5°	31.4	34.2	28.9	21.8	21.8	23.8	26.8	40.0	44.1	36.0	31.4
85°	11.4	15.5	14.2	11.1	9.9	9.6	16.7	22.8	14.2	12.7	10.9
87.5°	3.0	4.3	4.1	2.8	1.5	1.3	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)