

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: P629282

Luminaire Tested: GWS-SA1B-735-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629282
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-SA1B-735-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3599.6 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

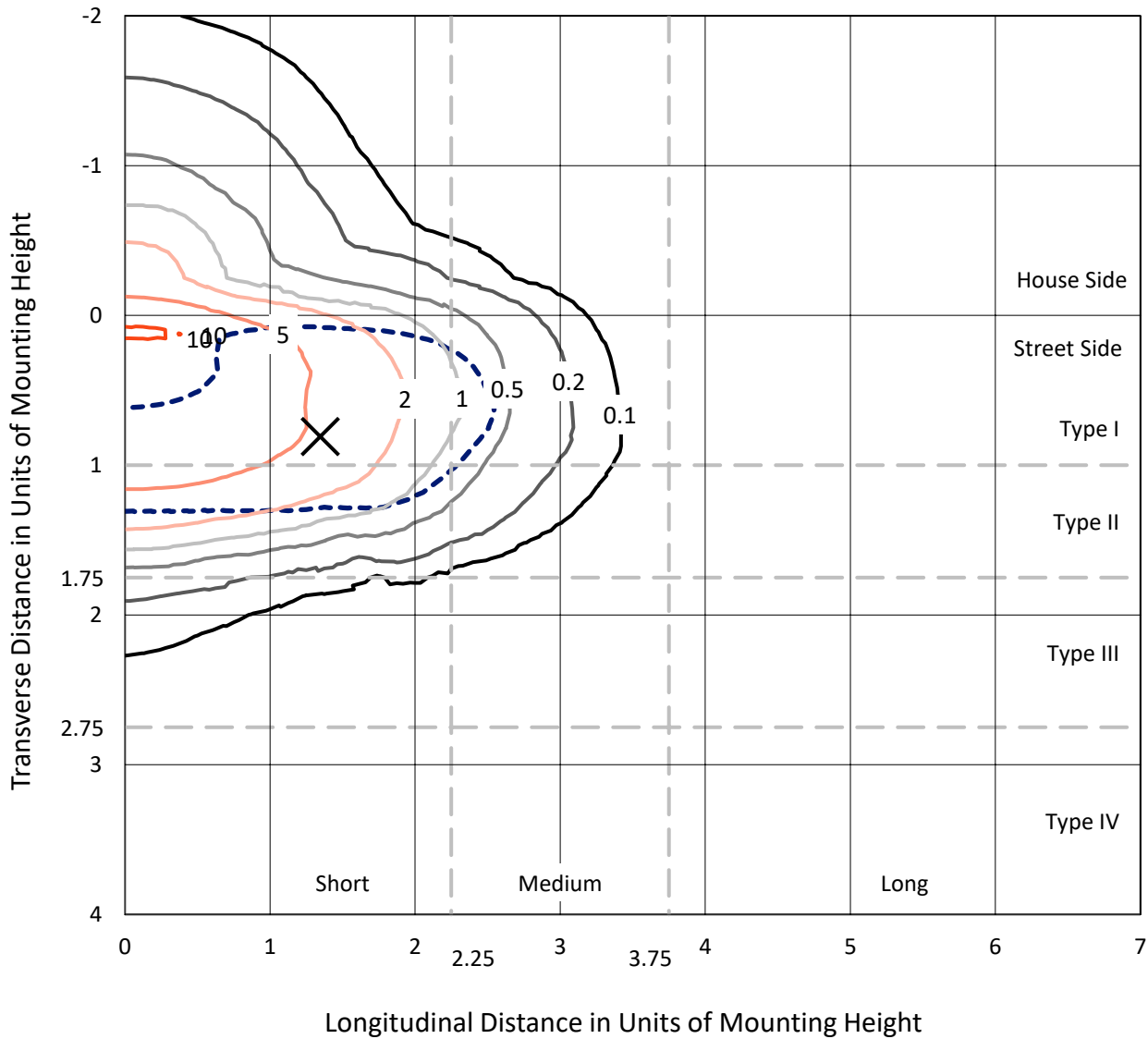
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

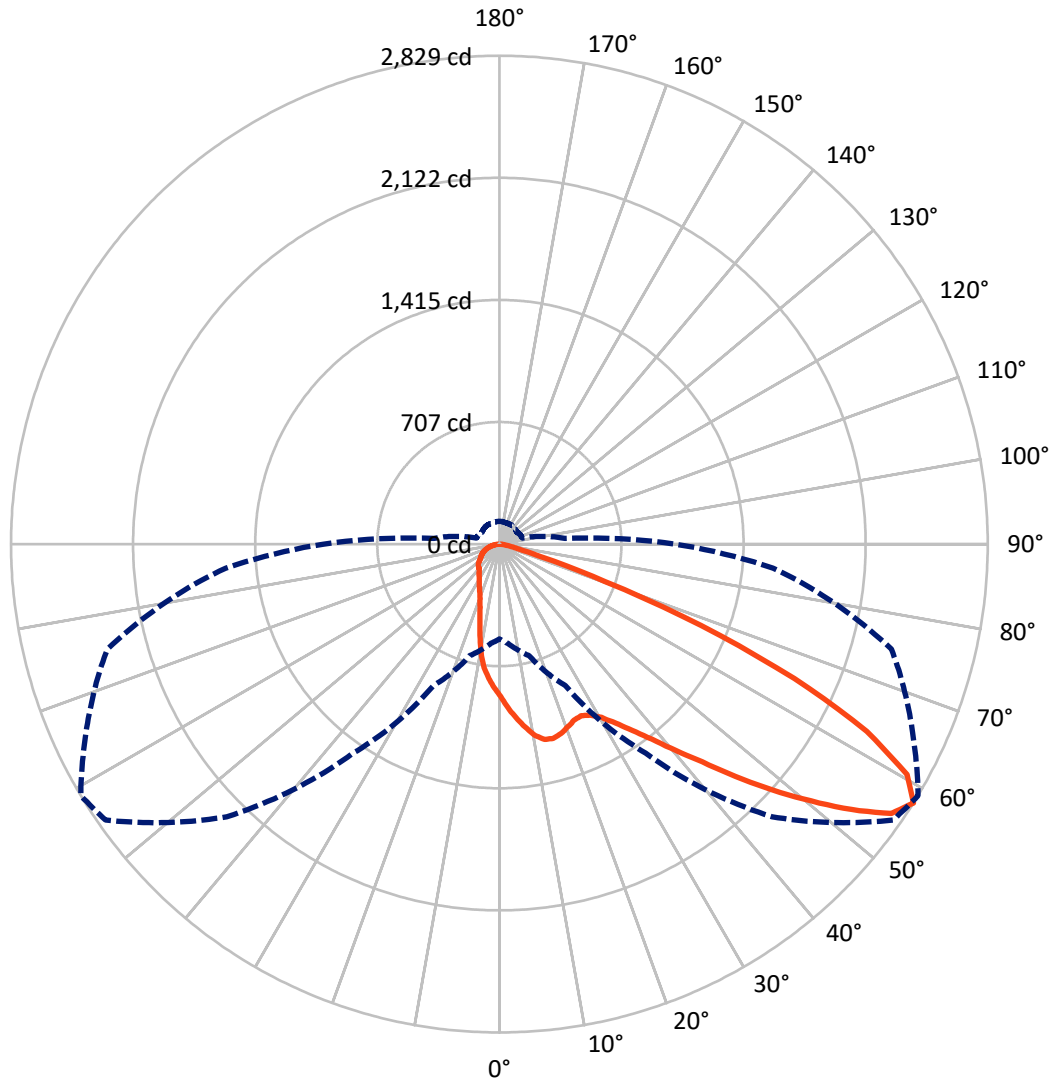
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.8 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	558.6	0.0	558.6
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	3041.0	0.0	3041.0
	% Fixture	84.5	0.0	84.5
Total	Lumens	3599.6	0.0	3599.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	2.3
10°-20°	207.9	5.8
20°-30°	337.0	9.4
30°-40°	542.1	15.1
40°-50°	841.9	23.4
50°-60°	906.8	25.2
60°-70°	526.3	14.6
70°-80°	137.4	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°	3599.6	100.0
0°-180°	3599.6	100.0

Coefficient of Utilization



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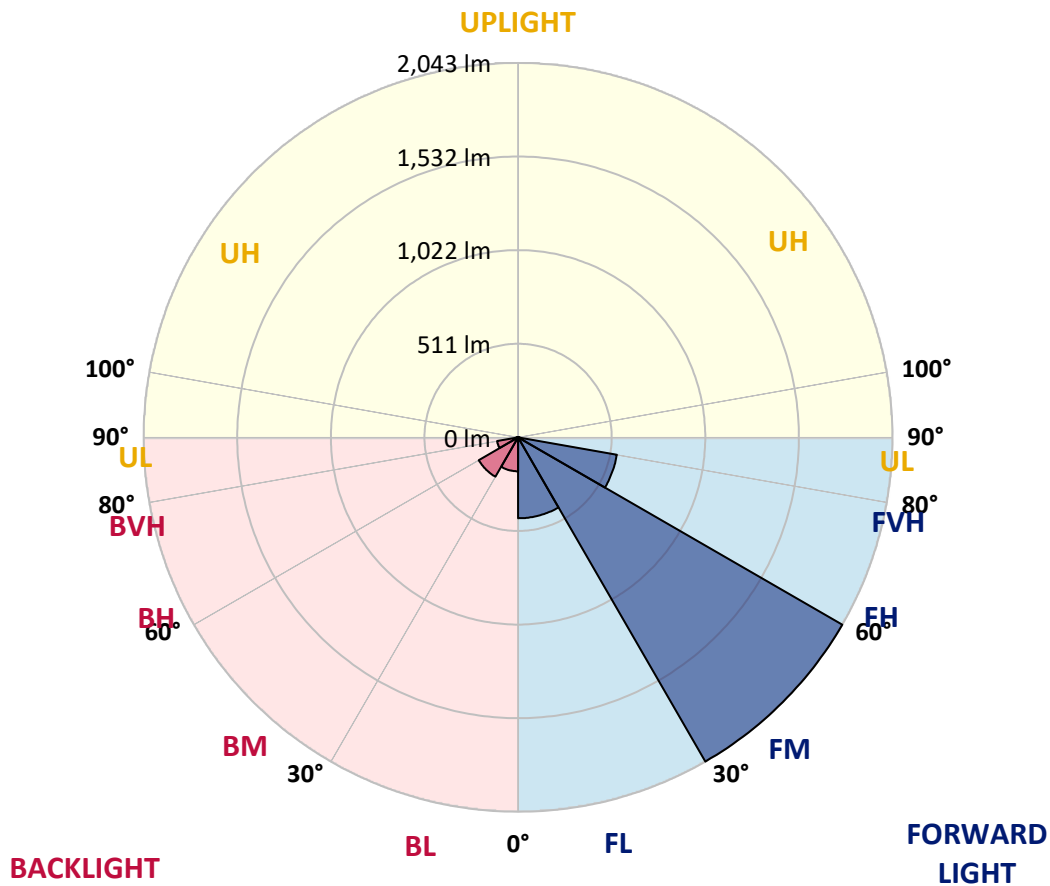
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	441.6	12.3			
FM (30°-60°)	2043.2	56.8			
FH (60°-80°)	547.5	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°)	247.7	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°	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6
2.5°	1002.2	993.9	999.7	989.3	985.0	973.6	958.9	949.0	933.8	914.0	896.8
5°	1101.8	1096.0	1097.3	1086.1	1076.2	1057.2	1027.1	1010.3	984.5	944.7	907.7
7.5°	1098.8	1105.6	1109.4	1119.0	1121.8	1120.1	1092.9	1069.6	1041.2	981.4	925.7
10°	985.0	997.9	1009.6	1042.5	1082.6	1133.2	1139.6	1125.6	1097.0	1028.3	947.2
12.5°	861.1	871.0	881.3	920.9	982.2	1083.6	1152.2	1160.9	1149.5	1074.7	971.6
15°	800.3	804.8	814.7	840.8	889.7	1002.2	1130.2	1168.0	1188.5	1123.9	998.9
17.5°	797.7	799.8	804.6	818.5	852.5	939.4	1090.4	1153.8	1219.1	1175.8	1030.9
20°	850.2	844.9	841.8	841.6	858.3	918.3	1051.9	1131.0	1233.6	1229.0	1065.1
22.5°	922.9	924.7	918.1	901.9	899.8	933.3	1032.6	1107.9	1237.9	1276.2	1096.7
25°	1026.0	1034.9	1015.4	984.5	969.3	976.6	1044.5	1100.8	1237.4	1315.4	1116.5
27.5°	1146.4	1153.3	1133.5	1092.9	1061.5	1043.8	1080.0	1121.8	1241.7	1349.4	1128.4
30°	1283.5	1285.8	1258.7	1216.1	1170.2	1132.2	1139.1	1165.2	1263.7	1394.0	1142.4
32.5°	1451.0	1460.6	1419.6	1352.2	1288.1	1239.4	1218.4	1235.1	1311.4	1446.7	1163.9
35°	1663.6	1666.9	1614.7	1518.2	1427.4	1360.0	1315.9	1324.8	1383.9	1520.4	1196.3
37.5°	1864.1	1867.4	1811.9	1722.2	1592.4	1500.2	1436.3	1432.3	1476.6	1624.6	1249.3
40°	1991.3	2000.6	1975.8	1919.6	1795.6	1671.2	1584.6	1570.6	1598.2	1752.1	1323.0
42.5°	2059.7	2063.7	2063.2	2070.6	1996.8	1873.2	1751.8	1723.9	1742.4	1889.7	1397.5
45°	2060.2	2070.3	2097.4	2168.1	2171.4	2094.4	1963.1	1919.6	1902.6	2028.3	1475.3
47.5°	1968.0	1978.9	2053.4	2192.5	2295.1	2312.6	2216.3	2128.9	2057.4	2147.6	1539.2
50°	1688.7	1716.1	1858.0	2104.0	2319.4	2487.4	2457.8	2339.2	2195.0	2239.9	1579.2
52.5°	1446.2	1445.2	1532.6	1854.2	2217.8	2564.5	2691.4	2555.6	2331.1	2298.4	1589.4
55°	1059.0	1064.8	1154.3	1418.1	1946.7	2490.0	2819.9	2754.8	2487.2	2329.6	1585.3
57.5°	549.1	578.0	669.8	904.9	1479.1	2233.5	2785.7	2829.0	2645.8	2351.6	1590.6
60°	277.5	271.9	304.8	432.1	857.0	1744.5	2574.9	2713.0	2674.5	2368.8	1593.9
62.5°	185.2	183.7	174.6	200.2	350.2	1033.1	2195.0	2388.6	2475.5	2328.3	1551.9
65°	160.4	157.4	140.6	139.6	170.0	428.5	1608.9	1877.7	2046.0	2148.1	1451.3
67.5°	144.4	139.9	122.9	114.5	122.1	188.3	906.7	1259.4	1510.8	1816.7	1230.8
70°	129.0	126.7	109.7	97.6	96.8	114.8	334.0	650.0	924.4	1239.4	899.8
72.5°	115.6	111.5	97.1	85.4	79.6	81.3	144.9	250.4	478.4	773.1	538.2
75°	100.1	97.1	84.4	72.7	65.6	59.6	88.4	115.8	218.2	367.4	254.2
77.5°	77.3	75.3	66.6	57.8	53.7	44.3	53.7	73.0	100.9	154.8	132.3
80°	44.9	46.1	49.7	45.1	39.5	31.7	35.0	42.1	60.6	83.9	75.0
82.5°	22.6	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°	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6
2.5°	885.2	872.2	856.8	844.1	824.6	814.2	801.0	784.8	778.2	775.2	773.4
5°	886.9	864.1	831.2	800.8	767.1	740.5	710.8	679.9	662.2	657.8	654.8
7.5°	893.5	861.6	809.1	759.0	696.4	638.3	581.8	525.8	497.2	486.3	485.3
10°	902.6	860.6	786.8	703.5	597.8	506.1	439.9	396.1	377.6	371.5	369.5
12.5°	914.0	859.8	757.4	626.4	484.0	397.3	359.6	352.5	355.0	354.5	354.5
15°	928.5	860.8	722.0	539.2	391.5	344.9	345.6	354.0	361.9	363.1	363.1
17.5°	944.2	859.8	670.5	451.8	336.0	332.5	344.1	355.8	362.9	363.9	363.9
20°	961.2	855.0	605.6	369.5	311.7	324.6	337.3	346.4	350.7	351.7	351.7
22.5°	971.3	841.3	535.2	312.7	296.2	312.2	320.6	329.9	330.4	322.3	322.1
25°	969.8	815.7	454.9	276.2	279.8	293.7	304.3	297.8	289.6	285.1	284.3
27.5°	960.2	777.2	373.0	248.6	260.2	276.0	272.7	267.1	265.1	260.0	259.5
30°	948.0	729.8	299.5	227.1	240.0	254.4	249.4	248.8	246.8	241.2	241.2
32.5°	936.3	680.9	244.0	211.1	227.1	228.1	235.2	235.7	234.7	225.0	224.0
35°	933.0	632.0	206.5	198.4	214.4	213.9	224.0	223.8	206.3	192.8	192.6
37.5°	942.9	582.3	184.2	188.0	196.9	203.5	211.6	196.9	191.1	183.0	182.5
40°	964.0	536.5	172.8	181.9	185.7	195.4	182.7	183.7	182.2	176.1	175.4
42.5°	991.8	497.4	166.5	179.9	179.4	181.9	168.0	172.1	174.3	169.8	169.0
45°	1018.7	463.5	163.2	172.3	174.9	160.2	157.4	161.2	164.7	162.9	162.2
47.5°	1038.5	434.1	161.4	161.9	169.0	152.8	148.2	150.0	154.3	155.1	154.8
50°	1044.5	409.0	159.4	153.3	151.8	145.5	141.9	141.4	146.5	150.0	150.5
52.5°	1032.9	386.7	154.1	145.7	138.4	139.4	138.1	135.6	140.6	145.5	146.0
55°	1015.7	374.0	145.7	138.4	129.7	133.8	134.3	132.0	135.3	138.6	138.6
57.5°	1016.9	381.4	137.6	131.5	122.1	127.5	130.3	129.2	129.2	131.8	132.0
60°	1025.3	392.0	132.3	122.9	114.5	120.1	126.5	125.4	123.2	126.5	126.5
62.5°	1001.2	377.8	128.7	114.5	106.4	113.0	120.6	120.1	117.6	122.9	123.4
65°	930.3	339.8	124.7	104.2	98.3	105.9	112.5	114.3	112.0	119.1	120.4
67.5°	779.7	285.8	116.8	94.3	90.2	97.3	103.6	106.2	104.4	112.8	113.8
70°	581.3	231.4	104.4	83.4	80.3	86.7	92.5	93.5	93.8	103.6	104.7
72.5°	370.7	179.9	87.9	71.2	68.9	73.7	78.0	82.1	83.9	93.3	93.0
75°	206.8	133.8	70.7	60.3	56.3	60.1	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	84.4
80°	67.2	61.1	42.3	35.5	32.4	35.5	38.8	51.7	58.3	63.4	64.1
82.5°	31.4	34.2	28.9	21.8	21.8	23.8	26.9	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)