

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: P629420

Luminaire Tested: GWS-SA1B-750-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629420
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-SA1B-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3226.6 lumens
Efficiency: N/A
Efficacy: 129.1 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

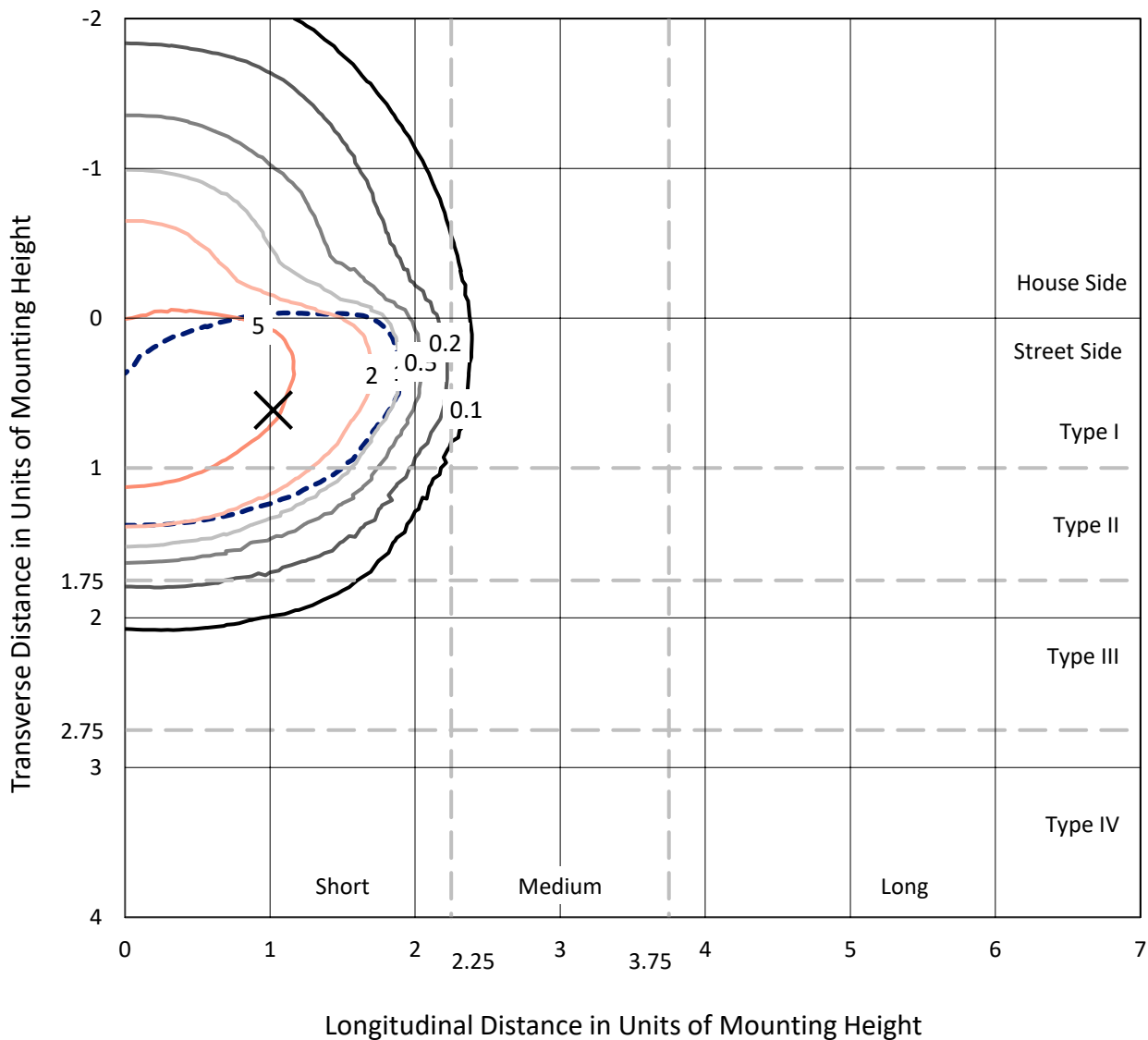
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

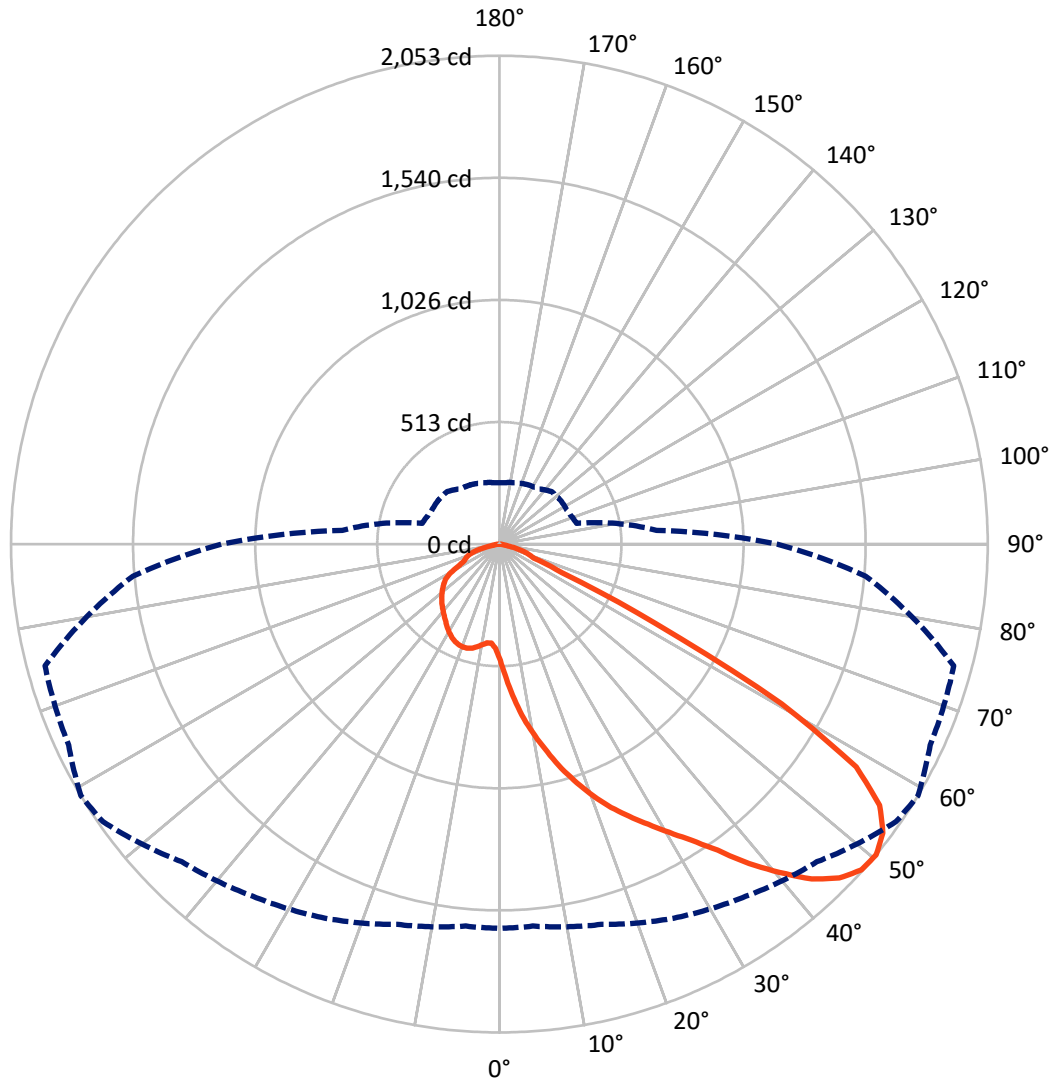
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.7 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
House Side	Lumens	742.2	0.0	742.2
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	2484.4	0.0	2484.4
	% Fixture	77.0	0.0	77.0
Total	Lumens	3226.6	0.0	3226.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	1.7
10°-20°	199.1	6.2
20°-30°	377.0	11.7
30°-40°	625.2	19.4
40°-50°	854.0	26.5
50°-60°	775.2	24.0
60°-70°	258.1	8.0
70°-80°	75.3	2.3
80°-90°	7.9	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°	3226.6	100.0
0°-180°	3226.6	100.0

Coefficient of Utilization



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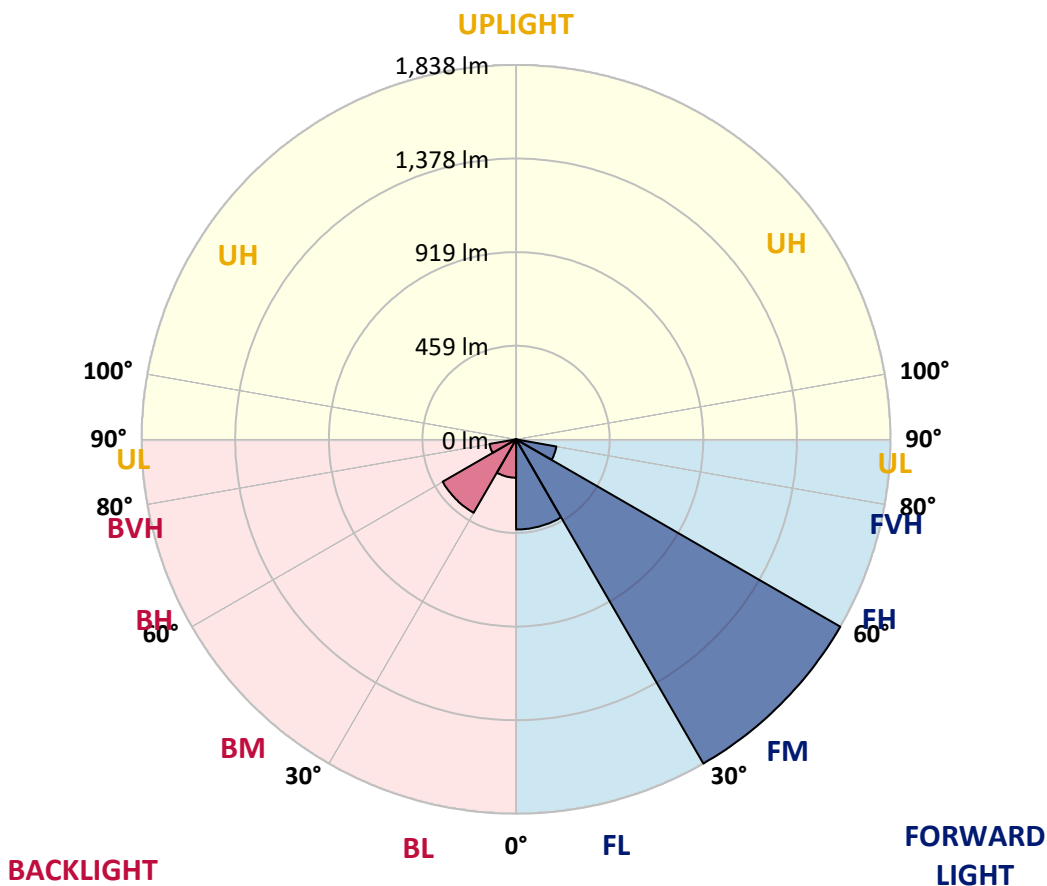
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	442.4	13.7			
FM (30°-60°)	1837.9	57.0			
FH (60°-80°)	201.0	6.2			G0/660
FVH (80°-90°)	3.1	0.1			G0/10
BL (0°-30°)	188.5	5.8	B1/500		
BM (30°-60°)	416.4	12.9	B1/1000		
BH (60°-80°)	132.5	4.1	B1/500		G1/500
BVH (80°-90°)	4.8	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	488.9	488.9	488.9	488.9	488.9	488.9	488.9	488.9	488.9	488.9	488.9
2.5°	633.4	638.1	630.8	631.3	612.9	604.5	580.8	566.9	557.7	532.0	508.6
5°	761.1	755.6	749.8	746.4	730.4	707.8	678.3	655.0	633.4	582.9	534.3
7.5°	839.5	836.6	832.6	830.5	814.8	791.1	761.7	741.7	710.4	642.1	565.6
10°	906.0	902.5	900.2	901.7	888.9	873.6	841.6	818.7	783.5	704.6	603.4
12.5°	957.5	959.3	960.1	968.5	963.0	953.8	920.7	896.5	857.3	770.6	647.9
15°	998.2	997.7	1006.9	1022.9	1031.8	1026.1	999.5	979.3	931.4	835.5	695.7
17.5°	1007.7	1008.2	1022.6	1050.8	1079.9	1094.1	1079.2	1055.0	1007.7	899.6	745.4
20°	1015.3	1016.3	1031.3	1063.4	1106.0	1145.6	1148.0	1130.7	1089.9	969.0	795.8
22.5°	1063.4	1065.8	1069.7	1089.9	1128.3	1178.5	1206.1	1202.4	1168.3	1041.8	850.2
25°	1189.8	1182.7	1163.5	1157.7	1172.5	1213.2	1260.2	1267.3	1250.5	1122.0	908.8
27.5°	1345.9	1338.3	1309.9	1280.0	1248.2	1262.3	1312.5	1333.8	1334.1	1210.3	967.7
30°	1487.6	1481.5	1458.4	1415.6	1360.6	1340.1	1377.2	1405.8	1422.9	1312.3	1034.7
32.5°	1608.7	1603.2	1572.0	1537.0	1483.4	1442.1	1455.5	1483.1	1523.1	1444.2	1118.1
35°	1710.7	1705.2	1675.2	1640.0	1590.3	1565.6	1560.9	1579.8	1631.6	1581.9	1213.7
37.5°	1793.5	1788.0	1756.7	1723.6	1685.8	1687.3	1694.4	1703.6	1733.3	1729.4	1316.0
40°	1847.1	1841.3	1819.0	1795.4	1771.4	1790.4	1825.6	1814.5	1830.3	1848.4	1410.1
42.5°	1871.0	1863.7	1850.8	1845.6	1838.2	1867.6	1935.4	1924.4	1905.5	1927.8	1480.0
45°	1847.1	1840.8	1840.6	1856.6	1873.7	1911.5	2011.4	2002.5	1954.6	1966.2	1521.8
47.5°	1773.8	1768.3	1783.3	1825.3	1867.4	1922.6	2045.3	2046.9	1989.6	1982.2	1548.8
50°	1615.3	1611.6	1655.0	1734.6	1807.2	1888.1	2034.5	2052.7	1998.0	1977.2	1545.4
52.5°	1293.1	1310.2	1404.5	1537.5	1678.4	1827.7	1994.6	2018.2	1957.5	1944.4	1527.0
55°	885.2	893.1	987.4	1181.7	1405.1	1696.8	1902.8	1939.4	1909.7	1938.9	1546.2
57.5°	458.4	464.7	539.1	711.5	953.0	1340.9	1648.2	1768.0	1813.2	1966.7	1605.9
60°	188.2	193.4	224.2	307.5	480.7	780.9	1186.1	1363.8	1470.0	1796.1	1426.1
62.5°	136.7	139.3	154.0	183.5	251.8	382.7	671.3	736.7	811.3	1125.7	905.4
65°	115.1	118.0	129.8	147.7	183.7	234.7	286.7	288.3	317.8	458.6	335.6
67.5°	96.5	99.1	109.6	124.8	148.5	166.6	154.0	154.3	153.8	166.4	160.8
70°	75.2	77.3	87.8	104.1	116.4	107.0	120.4	133.3	127.7	132.7	140.3
72.5°	54.9	57.3	66.5	78.8	75.7	76.2	97.5	110.6	107.5	113.0	120.1
75°	39.7	41.3	46.0	39.4	41.5	50.2	68.6	75.7	78.8	83.6	89.9
77.5°	12.9	12.9	14.5	18.1	22.6	27.9	35.0	37.8	42.6	47.8	52.3
80°	6.6	6.8	8.1	10.0	12.6	16.0	20.5	21.8	24.2	27.1	28.9
82.5°	3.2	3.4	3.9	5.0	6.6	8.4	11.3	12.6	14.2	16.0	17.3
85°	0.8	0.8	1.1	1.6	2.1	3.2	4.2	5.0	6.3	7.6	8.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.8	1.1	1.3	1.6	2.1
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°	488.9	488.9	488.9	488.9	488.9	488.9	488.9	488.9	488.9	488.9	488.9
2.5°	498.1	483.3	464.4	448.4	433.7	422.4	412.6	407.9	403.4	400.3	401.3
5°	511.7	486.5	451.3	426.8	411.8	404.2	399.0	396.3	395.8	393.7	392.9
7.5°	531.7	495.7	448.6	423.9	413.9	410.0	407.1	405.5	406.3	404.2	403.4
10°	556.4	510.9	455.2	433.4	424.7	421.8	418.7	416.6	415.5	412.4	411.8
12.5°	587.1	529.9	467.0	445.5	436.8	431.8	427.6	423.9	421.6	417.6	416.6
15°	620.3	550.9	481.0	457.3	447.1	439.7	432.9	427.4	423.1	417.9	417.1
17.5°	656.3	573.0	492.5	465.5	452.3	442.6	432.6	424.5	418.7	411.8	411.1
20°	693.9	595.3	501.2	469.4	452.6	439.4	426.0	415.3	407.9	401.1	400.5
22.5°	732.8	615.8	506.5	468.4	448.4	432.1	416.1	404.0	395.3	387.1	386.6
25°	771.9	635.5	507.8	464.1	440.0	421.0	405.0	390.8	381.1	371.9	370.8
27.5°	811.6	652.1	504.6	455.7	428.7	408.2	392.1	378.2	368.2	359.0	357.4
30°	853.9	666.3	497.8	444.7	415.5	394.5	378.7	368.2	358.8	349.6	348.0
32.5°	899.1	678.6	488.1	431.3	400.3	380.8	369.3	359.8	350.3	342.2	340.6
35°	953.0	686.8	473.6	413.9	386.1	370.8	363.0	351.9	340.4	331.4	330.6
37.5°	1008.7	693.1	456.3	397.4	373.7	365.1	358.5	343.5	329.1	318.3	317.0
40°	1062.6	698.3	434.7	381.9	362.4	360.9	351.9	333.3	308.3	296.2	295.2
42.5°	1112.8	699.9	412.1	365.3	352.2	351.4	341.4	312.5	293.3	285.7	284.6
45°	1147.2	698.6	388.7	349.8	341.9	337.7	327.2	297.5	285.7	278.9	277.5
47.5°	1172.7	691.8	362.4	333.5	330.4	324.6	302.0	288.1	277.0	270.2	268.9
50°	1168.3	663.4	335.9	317.8	316.4	311.4	283.6	276.2	266.5	259.1	258.1
52.5°	1145.1	609.5	308.8	300.4	303.0	293.3	270.4	262.0	253.6	245.2	243.4
55°	1150.9	570.6	288.3	283.6	288.3	266.2	255.7	246.8	238.9	230.8	229.2
57.5°	1176.1	532.2	266.5	265.5	270.4	245.5	236.8	225.5	214.2	207.6	207.6
60°	987.7	387.9	228.1	230.8	242.1	228.7	221.0	209.5	197.1	191.3	191.3
62.5°	584.0	243.4	189.2	186.3	193.4	201.8	206.1	196.6	181.9	174.3	174.5
65°	257.3	177.1	166.9	164.5	162.4	168.2	179.8	180.6	165.1	156.1	156.4
67.5°	158.5	160.3	156.1	154.3	152.4	151.4	150.3	150.9	146.7	138.5	138.2
70°	143.0	148.0	145.1	143.5	141.1	139.3	133.0	122.7	115.6	113.5	115.9
72.5°	123.0	129.8	128.3	127.5	124.6	120.1	111.7	101.7	93.3	88.0	89.1
75°	92.8	98.3	99.1	99.3	96.2	92.0	83.3	74.9	67.5	62.0	63.3
77.5°	53.4	56.5	57.3	58.1	55.7	54.1	48.4	42.3	38.4	32.6	34.2
80°	29.7	31.0	31.0	31.3	30.0	28.1	24.2	20.8	18.9	16.3	16.6
82.5°	17.9	18.4	18.7	18.9	18.1	16.3	13.4	11.0	10.0	8.7	8.4
85°	8.7	9.2	9.2	9.5	8.1	7.1	5.5	4.2	3.7	2.6	2.9
87.5°	2.1	2.4	2.4	2.1	1.8	1.3	0.8	0.3	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)