

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: P645595

Luminaire Tested: GWS-SA1C-740-U-T2R-W

Issue Date: 3/3/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P645595  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 3/3/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1C-740-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

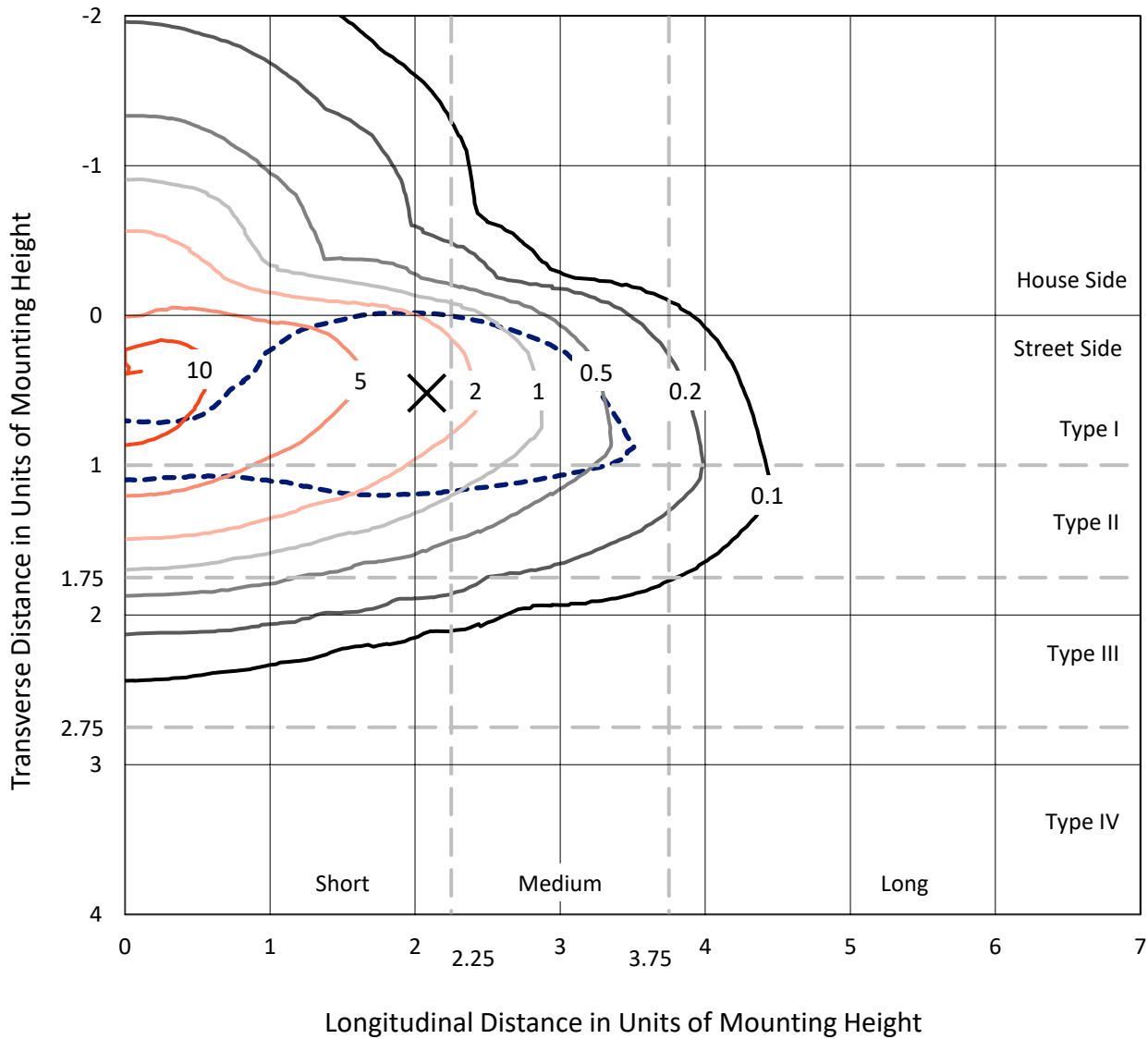
Lumens per Lamp: N/A  
Luminaire Lumens: 4901.1 lumens  
Efficiency: N/A  
Efficacy: 143.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 34.1  
Input Voltage (V): 120  
Input Current (Ain): 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

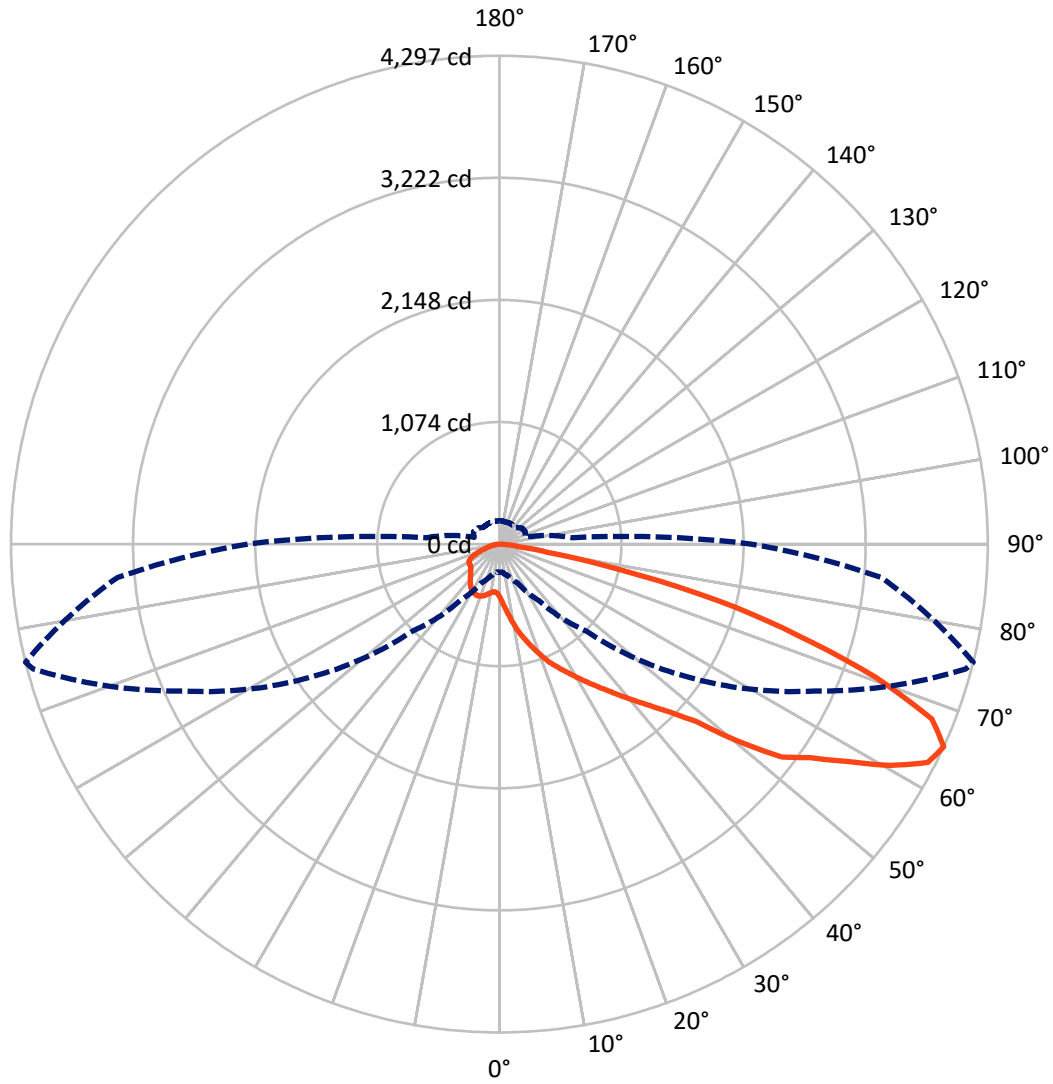
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	819.2	0.0	819.2
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	4081.9	0.0	4081.9
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	4901.1	0.0	4901.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.1	1.1
10°-20°	210.0	4.3
20°-30°	409.3	8.4
30°-40°	684.5	14.0
40°-50°	980.1	20.0
50°-60°	1160.3	23.7
60°-70°	964.8	19.7
70°-80°	394.8	8.1
80°-90°	42.0	0.9
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°	4901.1	100.0
0°-180°	4901.1	100.0

**Coefficient of Utilization**



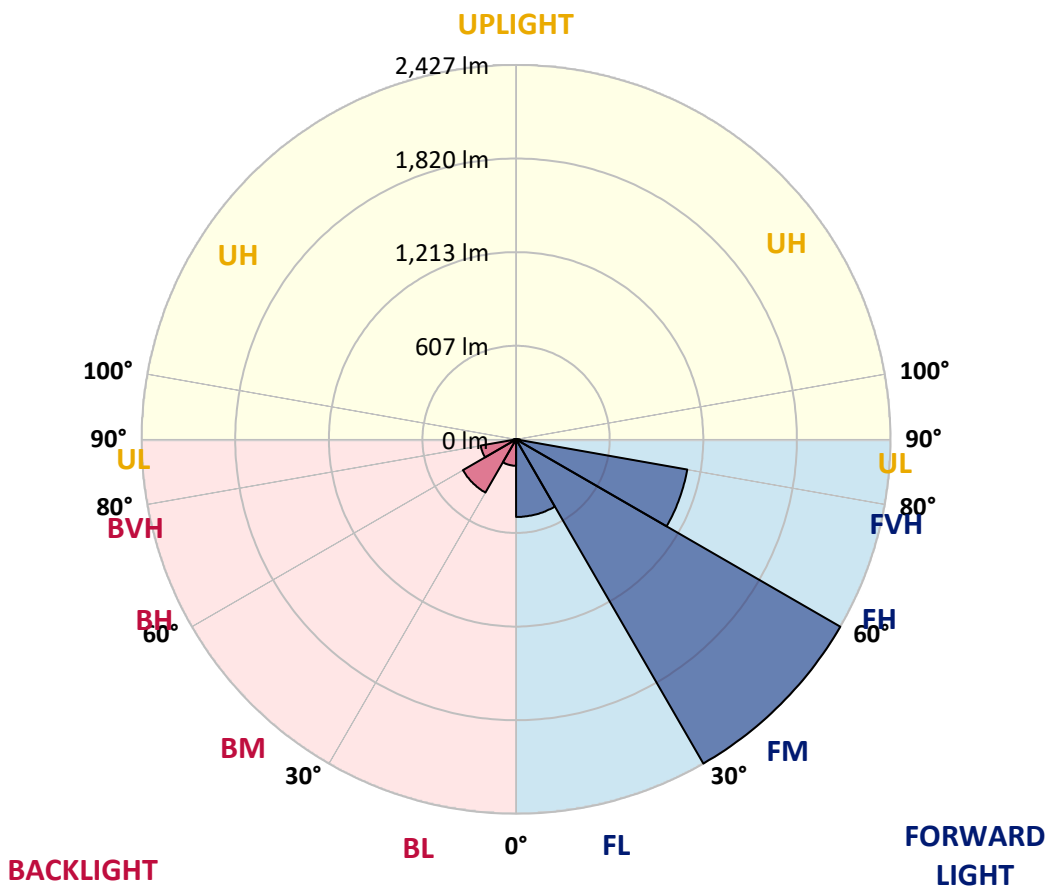
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	503.1	10.3			
FM (30°-60°)	2426.8	49.5			
FH (60°-80°)	1126.9	23.0			G1/1800
FVH (80°-90°)	25.1	0.5			G1/100
BL (0°-30°)	171.4	3.5	B1/500		
BM (30°-60°)	398.1	8.1	B1/1000		
BH (60°-80°)	232.8	4.7	B1/500		G1/500
BVH (80°-90°)	17.0	0.3			G1/100
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°	65°	75°	76°	85°
0°	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1
2.5°	650.5	652.9	645.0	642.3	623.6	598.5	577.5	545.8	516.5	512.0	485.8
5°	826.2	815.9	806.9	801.1	775.2	746.7	702.2	642.6	580.2	572.7	516.1
7.5°	930.6	928.9	917.9	914.4	894.5	865.9	820.0	746.0	655.3	642.9	557.1
10°	1014.4	1013.3	1007.8	1010.9	992.7	964.8	920.3	843.8	737.7	725.3	603.0
12.5°	1087.4	1089.1	1088.1	1099.5	1090.2	1068.5	1022.3	938.2	820.0	806.6	658.8
15°	1140.8	1142.2	1147.4	1172.2	1177.3	1172.9	1126.0	1030.9	901.4	882.1	716.3
17.5°	1156.0	1158.7	1171.1	1211.1	1239.0	1257.6	1222.8	1125.3	981.3	960.3	774.9
20°	1176.3	1179.4	1191.8	1233.5	1274.5	1316.9	1310.7	1221.1	1061.9	1044.7	834.2
22.5°	1270.4	1268.0	1262.5	1282.4	1311.7	1364.4	1379.9	1313.1	1145.3	1128.8	899.6
25°	1451.6	1447.1	1412.0	1393.7	1384.1	1416.1	1443.7	1396.8	1226.6	1201.8	960.6
27.5°	1651.5	1649.0	1604.2	1560.8	1501.6	1487.8	1504.0	1469.9	1305.5	1280.4	1013.7
30°	1840.6	1833.4	1786.5	1732.1	1652.8	1593.6	1569.8	1541.5	1392.0	1365.8	1075.7
32.5°	2009.8	2000.5	1945.4	1885.1	1802.0	1732.1	1661.1	1617.7	1489.9	1459.5	1139.1
35°	2148.6	2139.3	2082.8	2018.7	1927.4	1875.8	1778.6	1700.4	1589.4	1558.8	1213.9
37.5°	2256.1	2247.5	2188.6	2125.6	2046.0	2005.0	1920.6	1793.4	1704.2	1672.1	1293.1
40°	2316.4	2310.2	2263.0	2213.1	2146.2	2110.7	2072.8	1910.9	1832.7	1800.6	1386.5
42.5°	2334.7	2330.6	2297.5	2271.7	2226.5	2199.6	2221.3	2049.1	1969.8	1941.9	1491.6
45°	2288.9	2288.9	2279.2	2292.3	2294.4	2294.0	2370.2	2205.2	2138.3	2107.6	1639.7
47.5°	2171.7	2179.3	2193.4	2257.9	2325.7	2382.6	2544.2	2413.3	2355.0	2329.9	1849.6
50°	1957.4	1978.1	2026.3	2152.1	2296.5	2441.2	2708.9	2721.0	2776.4	2732.0	2158.3
52.5°	1643.5	1640.4	1763.4	1942.6	2162.8	2443.6	2799.5	2992.5	3141.7	3111.0	2387.8
55°	1306.2	1301.0	1415.8	1662.8	1957.8	2351.2	2854.0	3116.8	3344.3	3316.7	2594.2
57.5°	1000.2	993.7	1095.7	1318.6	1668.3	2155.2	2843.6	3265.0	3623.0	3608.9	2874.6
60°	688.4	680.5	775.9	971.0	1325.8	1855.4	2729.2	3341.2	3949.3	3954.1	3174.7
62.5°	413.5	409.0	478.2	629.5	953.7	1484.0	2461.5	3295.0	4209.1	4230.8	3367.7
65°	249.5	246.4	287.0	375.6	605.0	1082.9	2048.7	3059.0	4246.6	4296.6	3372.2
67.5°	181.6	181.9	193.6	228.8	352.8	699.4	1537.4	2635.8	4050.9	4102.6	3159.6
70°	157.8	158.5	164.7	172.6	213.3	400.4	999.6	2080.8	3472.4	3512.4	2650.0
72.5°	140.2	140.2	144.4	148.5	166.8	243.9	535.4	1454.4	2740.6	2751.3	2022.5
75°	123.4	122.3	124.4	126.5	144.7	170.6	260.5	1013.3	2024.3	1999.5	1307.2
77.5°	98.2	97.2	97.5	99.6	116.1	122.0	132.0	632.9	1140.8	1076.7	577.5
80°	69.9	69.3	73.0	78.2	85.8	74.8	82.7	306.3	452.4	421.0	224.0
82.5°	41.7	43.1	48.9	53.1	59.3	46.9	53.4	102.3	160.2	156.1	91.0
85°	5.9	6.2	17.6	20.3	25.5	18.3	28.3	46.2	64.1	68.6	32.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	8.3	18.3	18.6	7.9
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°	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1
2.5°	472.4	456.2	433.1	413.8	397.6	384.5	373.5	365.2	362.8	359.4	359.4
5°	489.6	460.3	419.0	389.7	372.8	362.8	355.9	352.5	350.8	348.7	347.7
7.5°	513.4	472.4	416.6	386.9	373.8	367.6	363.2	361.1	359.7	357.6	357.6
10°	546.1	490.3	424.1	396.6	386.2	380.0	374.9	371.4	368.3	365.2	364.5
12.5°	581.6	513.7	437.9	409.7	398.7	391.1	383.8	378.7	374.9	371.1	370.1
15°	620.9	537.9	452.7	422.4	408.6	398.3	389.7	381.8	376.6	371.1	370.4
17.5°	659.5	562.3	465.1	431.0	413.5	400.7	388.3	378.0	371.4	365.2	363.5
20°	705.6	586.8	473.8	433.5	412.4	395.5	380.7	367.6	360.4	353.2	352.1
22.5°	748.0	609.5	477.9	430.0	404.5	384.5	367.3	353.2	345.2	338.0	336.6
25°	789.0	629.5	476.2	421.7	392.4	369.4	351.4	337.3	329.7	322.2	320.1
27.5°	828.7	642.9	469.3	409.0	377.3	352.5	335.3	322.5	316.0	309.4	306.7
30°	867.6	655.3	458.6	392.4	358.0	334.9	320.8	311.8	305.3	298.4	296.3
32.5°	906.9	664.3	442.4	373.2	338.4	319.4	310.8	304.2	297.4	290.5	288.4
35°	946.5	668.1	422.8	351.1	321.8	309.4	306.3	298.7	289.4	281.2	278.4
37.5°	993.7	671.5	398.3	329.4	307.3	304.6	303.9	292.5	281.5	270.1	267.0
40°	1050.5	676.0	373.2	309.8	295.6	302.9	300.1	284.6	262.6	251.5	248.1
42.5°	1120.1	684.3	347.0	291.8	287.0	296.3	293.2	265.3	250.5	244.3	242.6
45°	1222.5	714.6	320.8	277.7	280.5	287.0	282.2	253.9	248.1	243.9	241.9
47.5°	1404.8	761.1	298.0	267.0	275.3	278.7	260.1	250.8	246.4	240.8	238.4
50°	1594.3	781.5	279.8	260.5	269.4	271.2	248.1	246.7	243.6	237.7	235.3
52.5°	1722.4	778.7	268.8	258.1	264.6	258.1	242.6	242.2	240.2	233.3	230.5
55°	1867.1	783.5	263.9	258.8	262.6	236.0	235.7	236.7	235.7	228.1	226.7
57.5°	2062.5	798.3	261.5	261.2	261.2	225.3	229.1	230.5	228.4	225.0	224.0
60°	2250.3	799.4	257.0	263.9	260.1	218.8	221.5	222.9	220.5	219.8	219.5
62.5°	2320.9	749.8	247.0	261.9	256.0	211.6	213.6	214.3	211.9	213.6	213.3
65°	2215.8	644.3	230.5	251.9	243.3	205.0	203.6	205.4	201.2	205.7	206.0
67.5°	1967.4	512.0	205.4	232.9	225.3	197.8	195.0	195.0	188.1	195.0	194.7
70°	1586.3	361.8	168.5	202.6	205.7	189.2	187.8	179.9	168.8	179.2	178.1
72.5°	1202.5	259.8	132.7	160.2	177.1	177.1	177.4	164.0	151.3	156.1	151.9
75°	761.8	183.0	106.1	122.7	138.9	155.4	163.3	138.5	127.1	125.1	123.0
77.5°	343.2	120.2	82.7	94.1	98.5	122.7	149.2	119.2	103.7	99.2	97.9
80°	143.7	74.8	58.9	66.5	60.6	103.0	131.6	92.7	76.1	69.9	65.5
82.5°	63.1	44.4	37.6	35.8	37.9	76.5	98.2	61.7	47.5	64.4	65.1
85°	26.5	23.4	19.3	17.6	15.5	29.3	46.2	24.1	29.6	16.9	13.8
87.5°	6.2	6.9	5.2	3.4	2.1	0.3	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)