

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: P645597

Luminaire Tested: GWS-SA1C-740-U-T3R-W

Issue Date: 3/3/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P645597  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 3/3/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1C-740-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

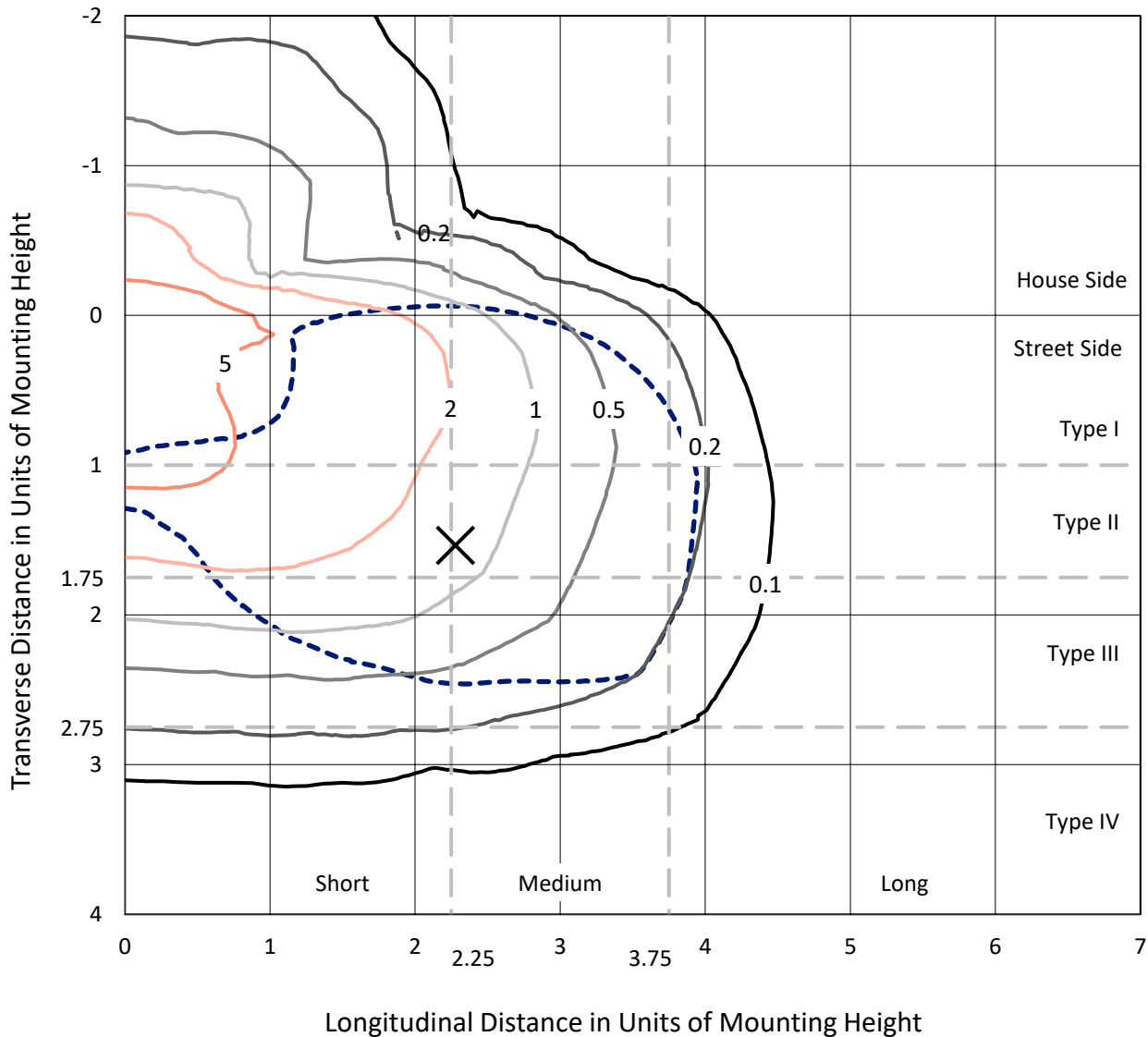
Lumens per Lamp: N/A  
Luminaire Lumens: 4886.3 lumens  
Efficiency: N/A  
Efficacy: 143.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 34.1  
Input Voltage (V): 120  
Input Current (Ain): 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

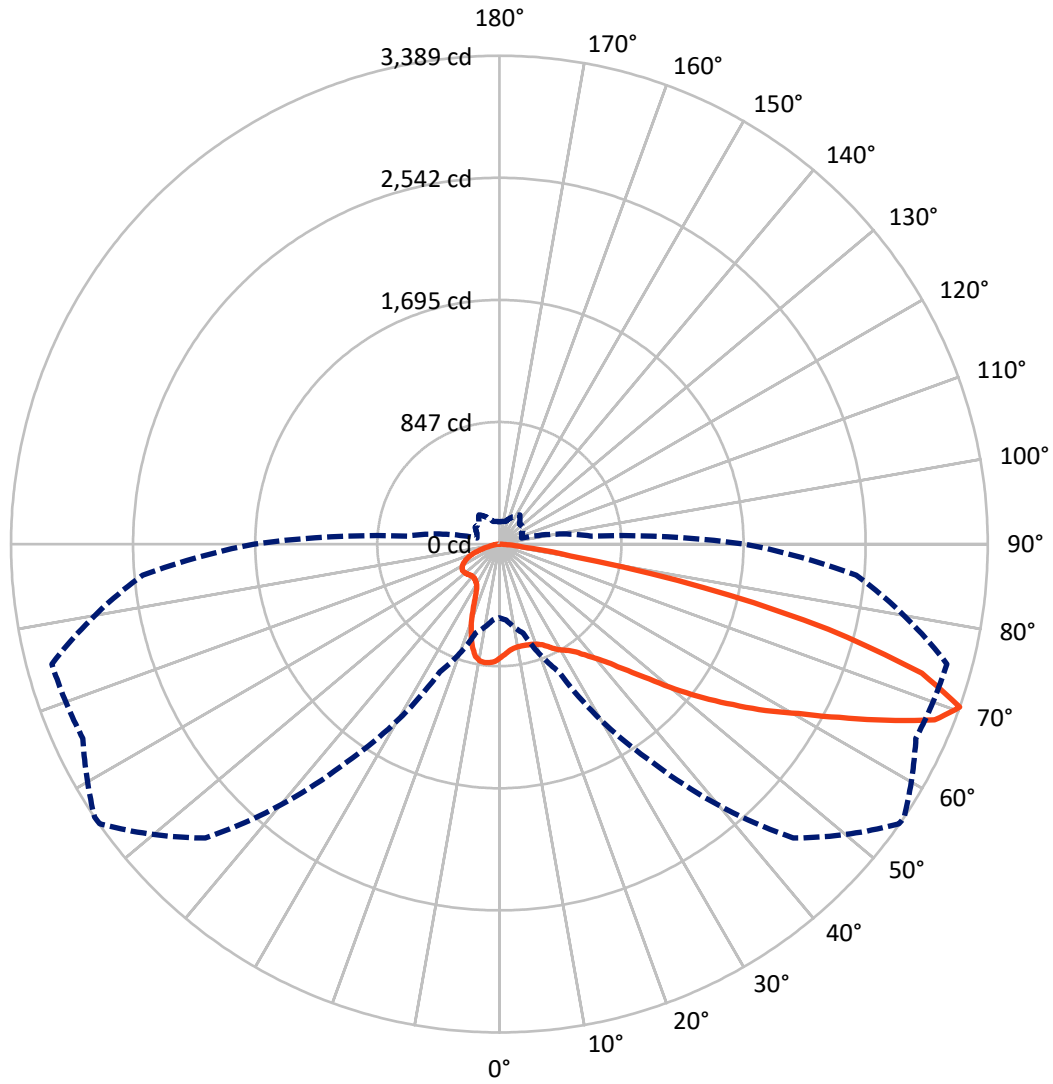
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	939.4	0.0	939.4
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	3946.9	0.0	3946.9
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	4886.3	0.0	4886.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.0	1.5
10°-20°	197.8	4.0
20°-30°	327.0	6.7
30°-40°	488.8	10.0
40°-50°	727.5	14.9
50°-60°	1034.2	21.2
60°-70°	1280.9	26.2
70°-80°	707.3	14.5
80°-90°	49.8	1.0
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°	4886.3	100.0
0°-180°	4886.3	100.0

**Coefficient of Utilization**



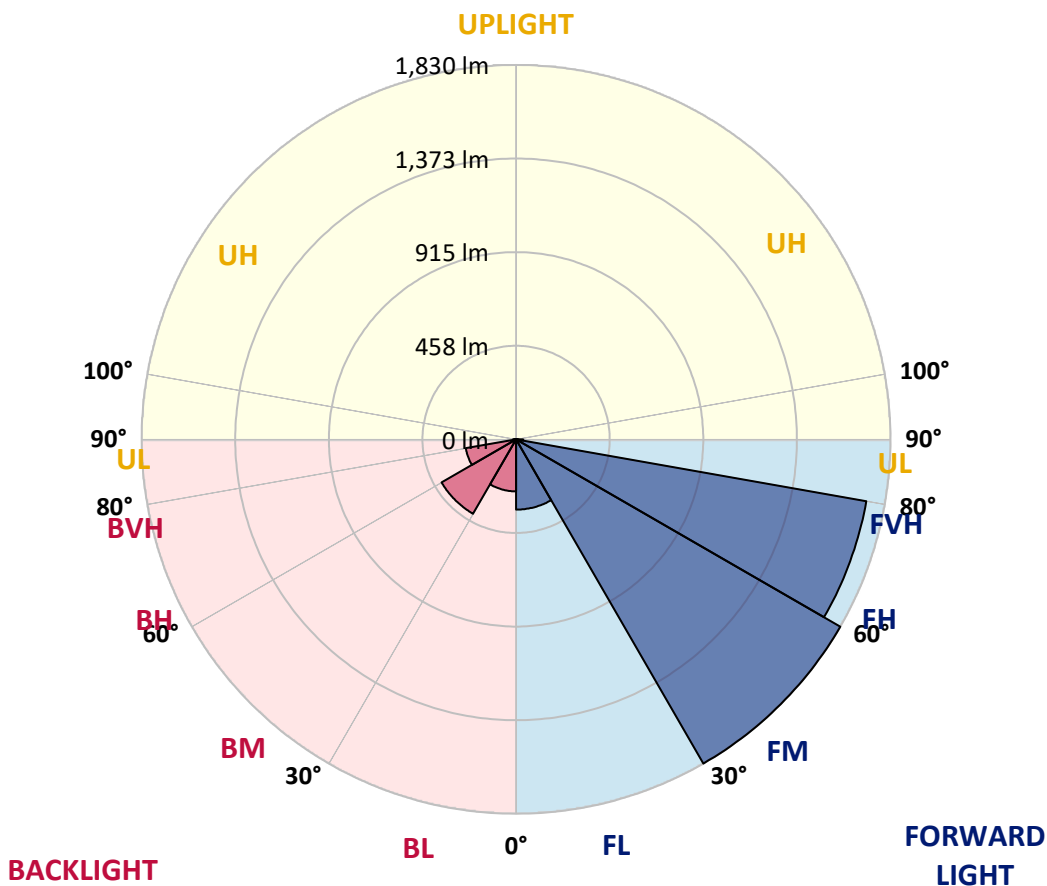
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	343.4	7.0			
FM (30°-60°)	1830.3	37.5			
FH (60°-80°)	1738.6	35.6			G1/1800
FVH (80°-90°)	34.6	0.7			G1/100
BL (0°-30°)	254.3	5.2	B1/500		
BM (30°-60°)	420.2	8.6	B1/1000		
BH (60°-80°)	249.7	5.1	B1/500		G1/500
BVH (80°-90°)	15.2	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	788.7	788.7	788.7	788.7	788.7	788.7	788.7	788.7	788.7	788.7	788.7
2.5°	738.1	733.9	738.8	741.2	747.4	756.3	764.3	764.6	768.7	778.7	788.4
5°	704.6	702.6	704.0	711.2	717.7	729.1	741.2	742.2	753.9	773.6	792.9
7.5°	678.8	676.0	681.2	690.5	698.8	711.5	727.4	728.8	745.3	774.9	804.6
10°	641.6	639.5	649.2	661.6	679.5	700.5	721.5	723.3	745.0	783.9	825.2
12.5°	625.4	625.4	629.5	641.2	660.9	688.8	720.5	723.3	750.5	797.7	851.8
15°	650.6	652.3	648.8	648.1	656.1	682.6	721.9	726.0	760.8	811.8	878.0
17.5°	701.2	702.9	694.0	679.8	671.9	688.5	727.0	731.5	771.8	827.3	906.2
20°	772.2	774.3	754.6	732.9	705.7	705.3	737.0	741.2	786.0	844.2	936.2
22.5°	855.2	856.6	831.8	797.3	755.6	736.7	754.3	758.4	804.2	867.6	968.6
25°	951.4	955.5	925.5	875.6	819.0	779.8	782.9	787.7	837.0	899.0	1006.8
27.5°	1054.0	1059.2	1024.8	969.6	891.8	827.3	819.7	823.9	871.8	918.3	1027.2
30°	1159.1	1162.9	1128.5	1065.4	970.0	881.1	850.7	853.2	886.9	927.6	1047.8
32.5°	1275.9	1272.8	1239.8	1167.1	1060.2	945.5	879.7	879.0	903.8	946.2	1077.5
35°	1385.5	1390.0	1354.9	1274.6	1159.5	1025.1	923.1	920.4	939.6	976.5	1119.2
37.5°	1518.2	1516.8	1474.8	1387.9	1259.1	1101.3	984.1	979.3	986.2	1023.7	1177.4
40°	1612.9	1622.6	1595.4	1514.4	1375.5	1195.0	1055.4	1044.7	1046.5	1082.0	1255.3
42.5°	1690.5	1699.4	1702.2	1650.5	1508.9	1310.7	1144.3	1133.6	1134.7	1185.0	1351.1
45°	1750.1	1762.1	1801.1	1785.9	1659.1	1444.4	1264.6	1253.6	1254.2	1310.1	1466.8
47.5°	1774.5	1787.6	1866.5	1902.7	1818.6	1604.3	1414.1	1397.9	1400.3	1462.0	1599.2
50°	1766.6	1784.2	1891.0	1992.7	1952.3	1767.0	1593.0	1581.6	1572.3	1661.9	1742.8
52.5°	1698.4	1717.7	1888.6	2049.9	2061.6	1920.6	1777.6	1771.1	1769.0	1874.1	1903.4
55°	1497.5	1529.9	1805.6	2065.0	2147.0	2065.4	1977.8	1966.8	1977.5	2101.5	2065.7
57.5°	1386.2	1410.3	1642.9	2048.1	2217.0	2203.2	2177.7	2178.7	2190.8	2348.6	2262.5
60°	1322.8	1351.1	1552.6	2002.0	2284.2	2370.7	2386.8	2386.8	2408.6	2615.0	2462.3
62.5°	1238.7	1267.3	1468.2	1913.1	2346.2	2567.7	2649.8	2648.7	2657.3	2900.6	2657.7
65°	1068.2	1094.7	1298.7	1772.8	2376.5	2784.8	2948.5	2945.4	2928.2	3154.9	2786.9
67.5°	775.6	800.8	994.8	1506.1	2267.3	2959.9	3256.2	3257.6	3154.6	3315.1	2793.8
70°	511.3	528.6	639.5	978.2	1843.8	2884.4	3385.1	3389.2	3189.4	3215.2	2486.4
72.5°	319.1	331.1	399.4	583.4	1089.5	2283.1	3054.3	3065.7	2869.2	2825.5	2043.0
75°	211.9	220.2	265.7	340.1	504.1	1235.6	2321.7	2358.2	2299.7	2214.9	1423.4
77.5°	127.5	134.4	169.2	216.0	223.3	482.7	1355.2	1449.6	1457.9	1156.4	596.1
80°	58.2	66.2	93.4	123.4	118.9	168.2	477.9	500.0	589.9	367.3	188.1
82.5°	34.5	37.9	62.0	61.3	50.7	81.7	171.9	176.4	149.9	134.4	80.3
85°	13.8	16.2	26.2	23.1	18.6	26.5	64.8	67.9	65.1	58.6	29.6
87.5°	0.0	0.0	0.0	0.0	0.3	0.7	5.9	6.2	9.0	16.2	9.0
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°	788.7	788.7	788.7	788.7	788.7	788.7	788.7	788.7	788.7	788.7	788.7
2.5°	794.6	792.5	802.9	810.8	814.2	817.7	814.6	813.5	813.5	806.6	803.2
5°	803.2	804.2	818.4	824.9	824.9	822.1	813.9	808.0	806.0	797.0	794.6
7.5°	819.4	823.9	837.0	836.6	827.0	811.8	791.1	775.3	760.8	754.6	750.8
10°	845.9	851.8	860.7	846.3	819.4	779.4	735.7	701.2	680.5	664.0	664.0
12.5°	876.2	881.8	880.0	846.6	791.1	716.4	653.3	613.7	584.7	569.6	569.6
15°	906.6	911.0	892.4	830.8	732.2	632.6	563.7	516.2	491.0	476.9	476.9
17.5°	937.2	936.9	897.6	794.2	655.4	539.9	472.4	435.5	426.9	424.5	424.2
20°	966.9	958.9	891.1	733.2	566.1	446.6	403.8	406.2	419.0	424.5	425.2
22.5°	1000.3	980.7	871.8	655.4	464.8	381.8	384.5	404.5	423.1	431.4	432.4
25°	1034.4	999.3	839.4	564.1	380.1	358.0	379.4	401.8	422.8	433.5	434.5
27.5°	1048.2	999.3	784.2	458.3	334.9	348.0	371.4	393.2	415.2	427.6	430.0
30°	1059.6	990.6	707.1	362.8	316.3	338.4	358.7	378.7	400.4	415.6	418.3
32.5°	1075.4	983.1	613.7	304.9	307.7	329.1	343.2	360.1	379.7	389.7	388.7
35°	1094.0	971.3	501.0	277.4	300.5	321.1	331.1	341.1	332.2	331.8	332.9
37.5°	1120.5	961.0	402.8	265.0	295.6	315.6	323.9	302.5	290.1	285.0	282.9
40°	1158.8	956.9	317.7	257.7	295.0	315.3	309.4	276.3	259.5	241.5	241.2
42.5°	1207.0	953.8	262.6	254.3	297.4	323.2	289.4	259.1	224.3	216.4	215.7
45°	1269.1	948.9	235.0	253.6	303.2	329.4	287.4	235.3	211.6	208.1	208.1
47.5°	1343.8	941.4	222.6	253.6	309.8	326.7	281.2	230.2	205.7	209.5	211.9
50°	1429.6	931.7	216.0	252.9	316.3	326.7	268.1	229.1	204.3	224.0	231.9
52.5°	1521.3	920.7	211.6	250.2	320.8	327.0	268.8	232.6	205.7	227.4	234.0
55°	1622.6	919.0	205.4	244.3	322.2	318.0	270.5	240.2	207.8	206.1	206.4
57.5°	1750.4	939.6	200.9	235.7	316.7	299.8	273.9	245.7	205.4	205.7	208.1
60°	1884.1	978.6	204.7	227.4	305.3	282.5	276.3	242.9	193.6	188.1	188.8
62.5°	1997.8	1008.2	207.8	223.6	288.8	267.4	273.9	236.7	187.1	185.7	188.8
65°	2045.4	983.8	200.2	215.7	264.6	248.8	268.8	228.8	181.6	176.4	176.8
67.5°	1992.7	869.0	185.4	198.1	237.4	225.0	260.5	218.5	174.0	167.8	166.4
70°	1702.2	638.5	159.9	170.2	204.3	197.1	247.7	205.0	161.9	157.5	154.4
72.5°	1371.7	452.1	132.7	135.4	160.2	166.1	225.7	188.1	148.2	135.4	130.9
75°	954.8	283.9	110.6	107.9	115.8	126.8	176.1	156.1	127.8	114.4	110.3
77.5°	410.7	145.8	86.5	85.1	77.2	87.9	135.1	130.2	107.2	91.7	89.2
80°	137.5	84.4	62.4	60.0	51.3	61.7	95.1	104.1	84.1	67.9	63.7
82.5°	68.9	48.9	39.6	35.8	34.5	38.9	56.2	64.8	58.2	46.9	39.6
85°	33.8	27.9	21.7	21.4	17.9	16.9	23.4	27.6	26.2	19.3	18.3
87.5°	12.4	11.0	6.9	5.5	3.4	2.4	1.4	1.4	1.0	1.0	1.0
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)