

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: P630145

Luminaire Tested: GWS-SA1D-722-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630145  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1D-722-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (16) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

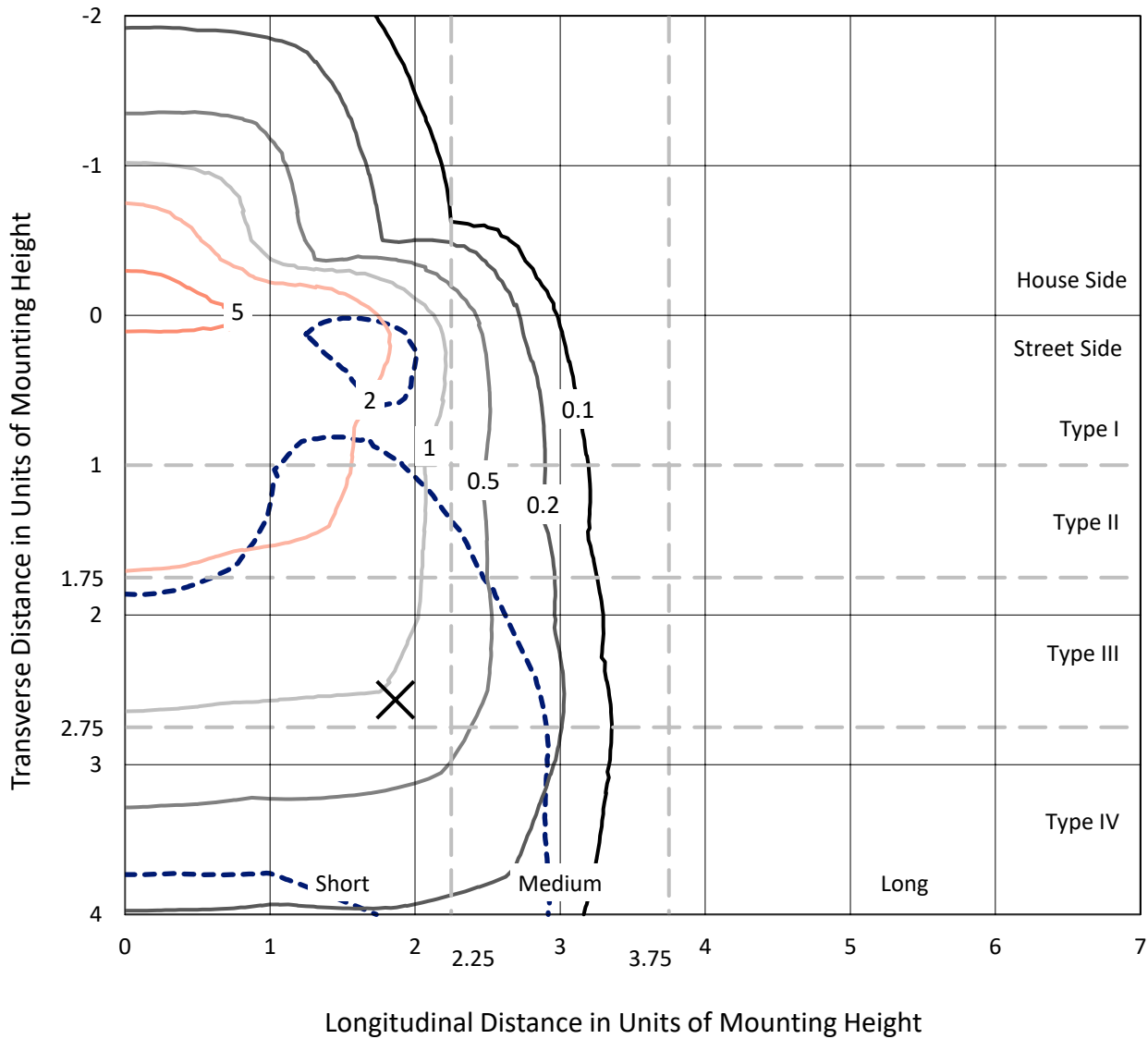
Lumens per Lamp: N/A  
Luminaire Lumens: 4314.3 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 44.3  
Input Voltage (V): 120  
Input Current (Ain): 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

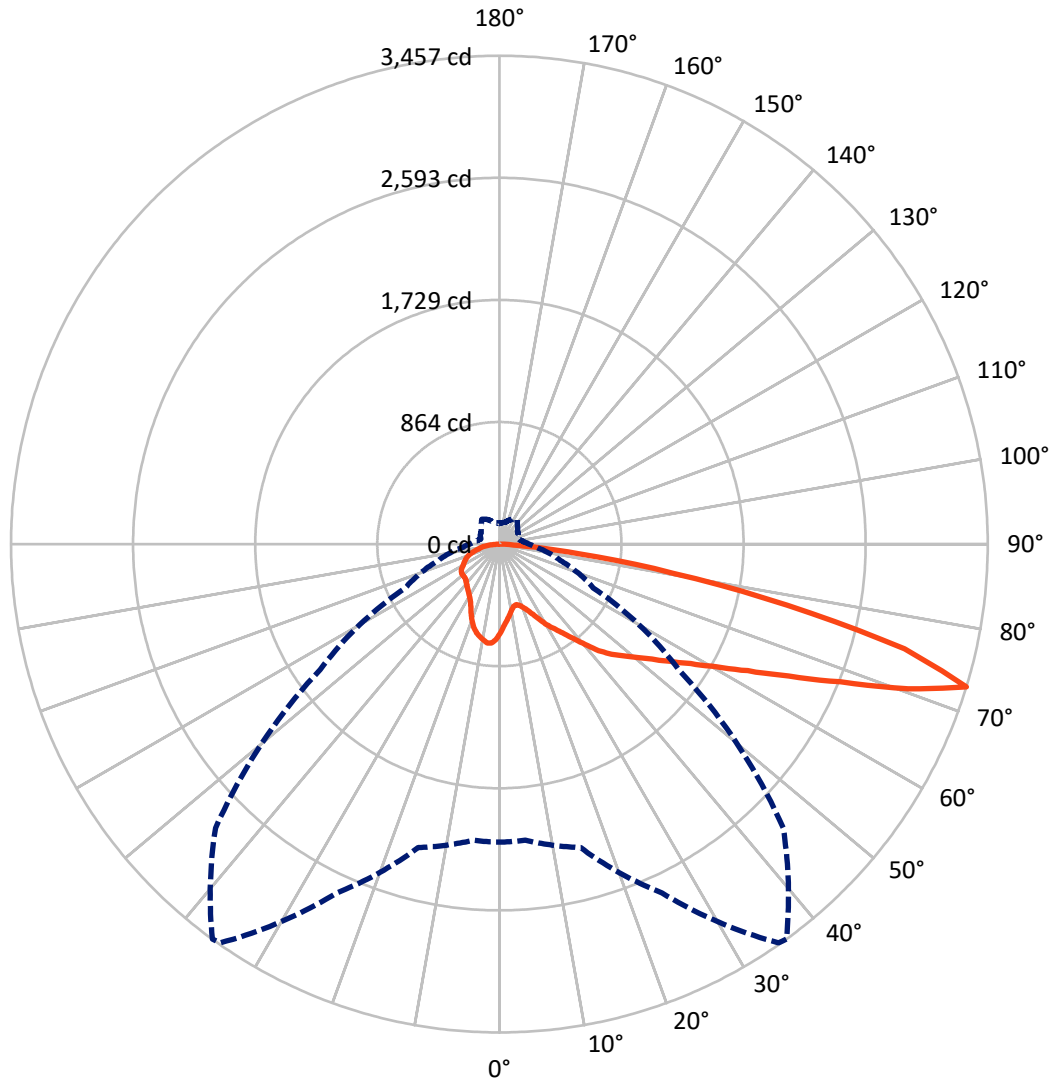
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	994.6	0.0	994.6
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	3319.7	0.0	3319.7
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	4314.3	0.0	4314.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.0	1.4
10°-20°	166.5	3.9
20°-30°	275.8	6.4
30°-40°	413.0	9.6
40°-50°	602.5	14.0
50°-60°	857.6	19.9
60°-70°	1083.5	25.1
70°-80°	772.1	17.9
80°-90°	84.3	2.0
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°	4314.3	100.0
0°-180°	4314.3	100.0

**Coefficient of Utilization**



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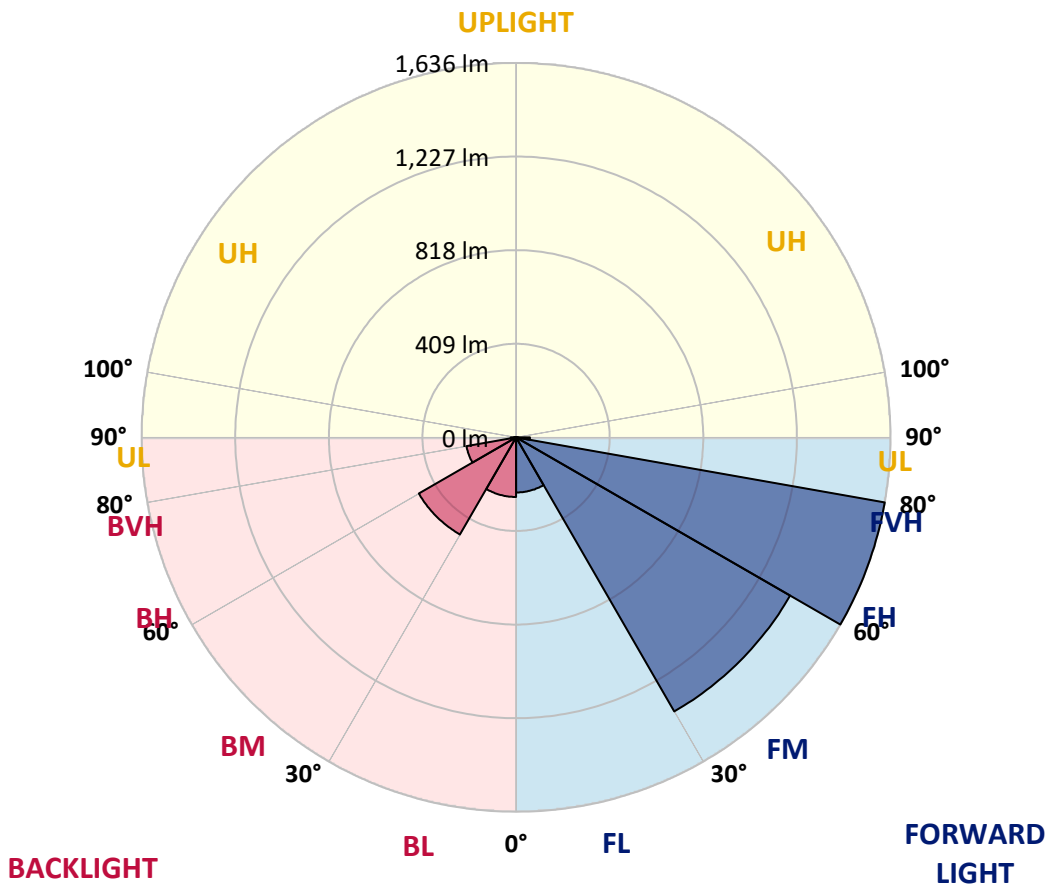
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	240.9	5.6			
FM (30°-60°)	1382.6	32.0			
FH (60°-80°)	1635.7	37.9			G1/1800
FVH (80°-90°)	60.5	1.4			G1/100
BL (0°-30°)	260.5	6.0	B1/500		
BM (30°-60°)	490.5	11.4	B1/1000		
BH (60°-80°)	219.9	5.1	B1/500		G1/500
BVH (80°-90°)	23.8	0.6			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4
2.5°	576.0	575.1	573.1	578.9	584.7	584.0	592.0	599.7	608.0	616.7	628.2
5°	529.9	529.3	527.7	536.3	545.0	544.6	557.8	570.3	587.2	605.8	628.9
7.5°	483.8	482.2	484.4	495.3	507.5	508.8	526.7	547.2	571.9	599.7	632.4
10°	443.1	442.8	443.8	456.0	474.2	475.5	498.5	527.0	559.7	596.8	640.4
12.5°	432.6	431.9	429.4	435.5	449.2	451.1	476.4	511.3	551.4	598.4	651.3
15°	449.9	448.3	439.3	436.4	443.1	444.7	466.2	502.1	546.6	601.3	665.0
17.5°	479.6	478.7	461.7	449.9	454.4	455.6	471.6	500.5	545.3	607.1	682.0
20°	523.2	519.0	492.5	474.5	474.5	476.4	486.1	507.5	546.9	614.1	701.2
22.5°	580.8	572.5	535.0	510.7	504.3	506.9	511.0	525.1	553.6	626.0	725.2
25°	645.5	637.8	593.3	559.1	550.1	551.0	547.5	550.1	568.3	642.3	755.0
27.5°	714.3	709.2	661.8	618.3	604.2	604.2	591.7	585.6	588.8	660.9	788.3
30°	775.8	768.8	728.8	681.0	662.5	662.5	638.8	625.7	618.0	683.6	832.8
32.5°	808.2	804.0	777.4	740.9	718.2	714.7	694.2	678.8	660.9	717.2	893.0
35°	850.4	849.5	833.5	805.0	776.1	771.0	756.9	744.8	713.7	759.2	973.1
37.5°	903.6	902.0	899.4	882.4	847.9	846.9	834.4	819.7	779.3	819.7	1070.1
40°	963.1	960.3	957.1	956.7	935.9	932.4	931.4	914.8	858.4	892.7	1171.3
42.5°	1045.1	1035.2	1005.1	1018.5	1033.9	1030.7	1042.9	1017.9	957.1	979.5	1267.0
45°	1146.0	1121.6	1062.1	1065.9	1104.7	1111.1	1153.3	1147.2	1065.6	1079.7	1367.9
47.5°	1206.5	1185.3	1130.0	1126.8	1175.1	1183.1	1275.0	1286.5	1182.5	1200.4	1492.4
50°	1256.1	1241.4	1195.9	1200.4	1251.6	1259.6	1395.7	1420.4	1292.6	1324.0	1637.1
52.5°	1316.0	1294.9	1259.6	1280.8	1343.5	1353.1	1529.9	1556.4	1391.9	1459.8	1787.0
55°	1349.6	1341.0	1341.6	1373.9	1452.7	1465.8	1670.4	1666.0	1482.8	1576.0	1899.7
57.5°	1427.1	1423.9	1453.3	1465.5	1580.1	1597.1	1811.0	1772.6	1565.4	1666.0	1953.8
60°	1563.8	1555.8	1581.4	1600.0	1737.7	1761.7	1967.9	1877.0	1621.4	1732.9	1935.6
62.5°	1755.9	1746.0	1747.0	1776.4	1948.7	1974.0	2142.4	1964.1	1638.7	1743.1	1820.0
65°	1994.8	1980.4	1964.1	2004.1	2228.9	2250.0	2332.3	2027.5	1597.4	1644.5	1578.5
67.5°	2246.8	2234.9	2215.7	2299.6	2591.6	2604.4	2545.2	2022.0	1466.5	1380.7	1107.2
70°	2261.5	2264.4	2355.3	2658.9	3065.2	3068.4	2746.6	1912.5	1187.6	894.9	551.7
72.5°	2109.7	2104.9	2223.4	2724.5	3446.2	3457.1	2841.7	1549.4	733.9	446.3	258.7
75°	1713.7	1722.0	1846.5	2383.8	2953.8	2963.4	2316.6	913.5	348.7	218.4	165.5
77.5°	737.7	784.1	1029.7	1679.4	2115.5	2085.7	1194.0	370.1	186.0	155.6	126.8
80°	212.9	231.2	366.9	798.6	1267.6	1245.2	472.6	138.6	129.7	116.9	90.9
82.5°	68.8	76.2	134.5	317.9	568.0	567.4	179.3	82.0	84.9	79.4	58.6
85°	19.2	22.1	41.3	96.4	175.8	172.3	51.9	38.7	45.1	45.8	29.1
87.5°	0.0	0.0	0.3	0.6	0.6	0.6	1.3	5.8	13.1	16.6	11.8
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°	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4	631.4
2.5°	635.3	634.3	647.4	657.7	667.3	673.7	675.6	676.9	679.4	680.7	679.4
5°	639.7	644.5	666.3	682.3	695.1	702.8	703.1	702.5	704.4	702.8	701.9
7.5°	649.3	658.6	686.2	703.1	711.5	711.8	704.1	695.1	690.7	686.8	685.5
10°	662.2	675.9	706.0	717.2	714.7	702.8	685.8	671.8	663.8	658.0	656.7
12.5°	679.8	695.1	723.6	723.3	707.3	686.2	666.3	649.3	637.8	631.1	628.9
15°	696.4	715.9	736.4	721.4	696.1	670.5	644.9	622.1	606.8	596.2	594.3
17.5°	716.9	737.7	745.7	715.3	682.0	649.0	614.8	585.0	564.2	551.7	550.7
20°	740.6	759.2	750.2	704.7	663.8	620.5	574.1	540.8	518.4	506.2	507.2
22.5°	768.1	781.6	751.5	690.3	638.5	580.2	528.3	496.3	481.2	474.8	475.2
25°	797.6	806.2	749.2	670.8	599.7	530.9	481.2	466.5	465.2	463.6	464.3
27.5°	832.5	830.6	742.5	643.3	547.5	473.6	448.3	452.1	457.2	456.6	457.2
30°	879.2	861.0	733.9	605.2	485.4	425.5	428.7	439.6	446.3	447.0	448.9
32.5°	932.7	894.6	720.1	553.3	426.2	398.6	410.5	423.6	431.6	433.2	435.8
35°	996.4	933.0	695.8	488.6	383.6	382.6	393.5	402.5	411.1	411.8	411.8
37.5°	1069.8	971.5	657.0	417.2	357.3	368.9	379.1	381.0	383.3	381.3	382.3
40°	1137.0	1008.6	602.0	352.2	335.9	356.7	365.3	358.9	351.9	347.1	348.0
42.5°	1193.4	1033.9	529.0	306.7	314.1	345.8	352.5	339.4	325.6	316.7	317.9
45°	1256.8	1057.3	443.1	276.0	295.5	338.1	342.6	325.6	308.0	294.6	292.7
47.5°	1344.2	1105.0	366.9	254.6	282.4	334.0	341.3	318.3	295.2	275.0	272.8
50°	1452.1	1172.5	303.2	240.5	276.3	331.7	341.0	310.3	282.7	259.0	257.4
52.5°	1569.9	1238.5	256.2	229.6	270.2	325.0	339.4	301.3	269.6	244.0	242.1
55°	1648.3	1264.4	224.5	219.3	260.3	314.4	333.0	292.7	249.7	226.4	223.5
57.5°	1671.4	1231.1	202.4	210.0	247.5	299.7	320.8	274.4	237.6	219.0	216.8
60°	1631.7	1147.2	188.6	202.4	233.4	280.8	299.7	263.8	228.0	211.3	209.7
62.5°	1519.6	1017.9	178.0	194.4	219.0	261.0	286.3	251.0	217.4	204.3	202.0
65°	1294.2	834.7	169.4	186.0	205.2	242.1	271.5	238.2	205.9	196.0	193.4
67.5°	905.2	586.3	160.1	176.1	191.5	223.8	256.2	226.4	194.0	186.7	184.1
70°	442.5	310.9	148.9	164.6	176.7	205.2	240.8	212.0	178.3	174.2	170.7
72.5°	210.7	173.9	135.8	148.9	156.6	180.6	215.2	191.2	159.8	150.8	144.7
75°	141.2	123.6	118.5	130.3	132.2	151.5	184.4	164.9	140.9	130.6	125.5
77.5°	106.9	94.5	99.6	110.1	106.3	124.6	151.8	147.0	127.1	117.8	115.3
80°	75.2	68.8	79.1	85.5	82.6	106.0	136.7	125.8	104.7	94.5	92.5
82.5°	47.4	46.1	58.3	59.2	60.2	83.9	112.4	98.9	81.3	66.9	62.1
85°	23.7	26.3	34.9	34.9	34.6	43.2	64.0	55.7	43.9	34.9	33.9
87.5°	8.0	11.2	15.0	12.2	9.3	7.4	8.3	10.2	10.9	10.6	10.6
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)