

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: P631628

Luminaire Tested: GWS-SA2B-722-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631628  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-722-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

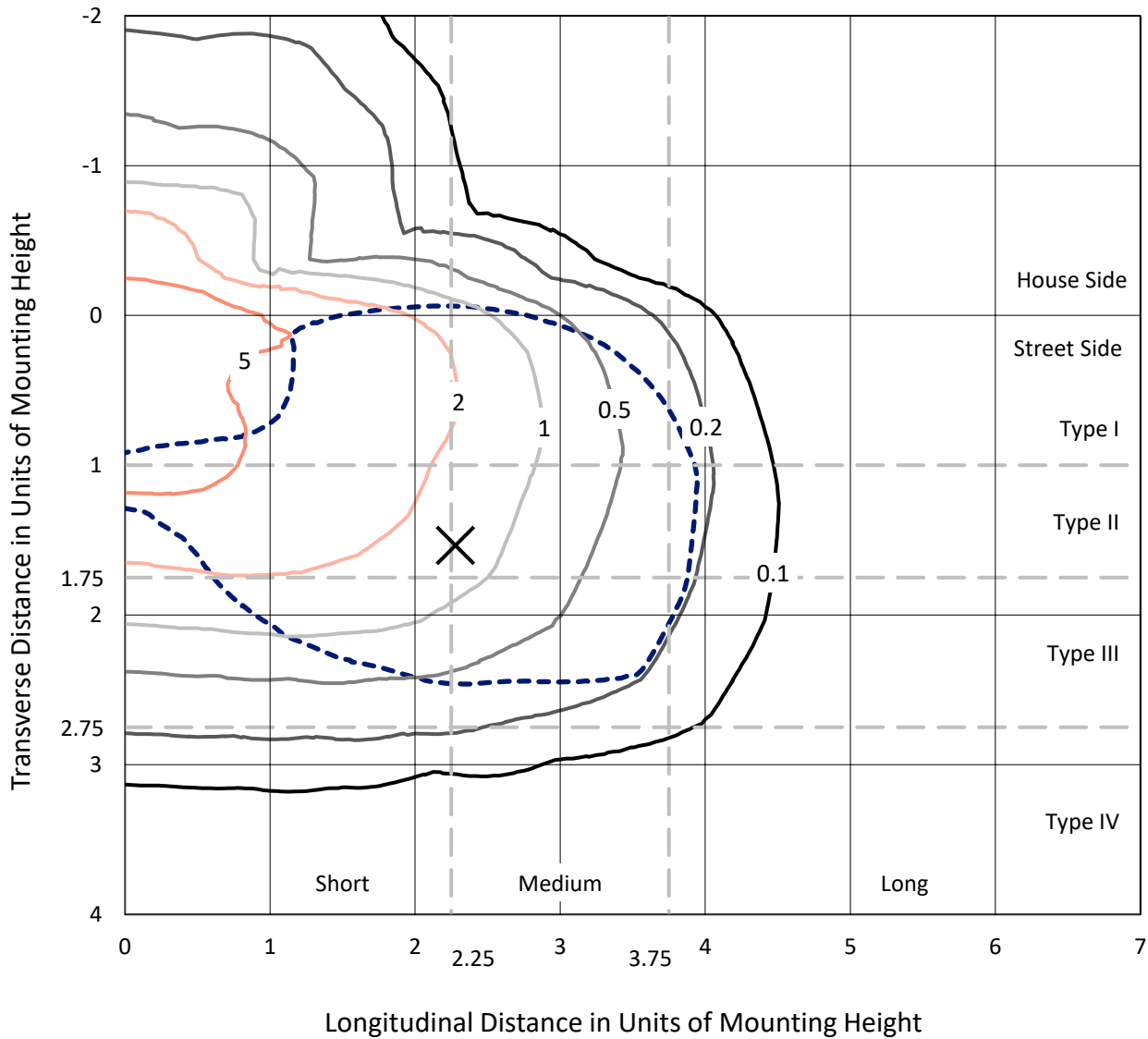
Lumens per Lamp: N/A  
Luminaire Lumens: 5167.8 lumens  
Efficiency: N/A  
Efficacy: 111.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): 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

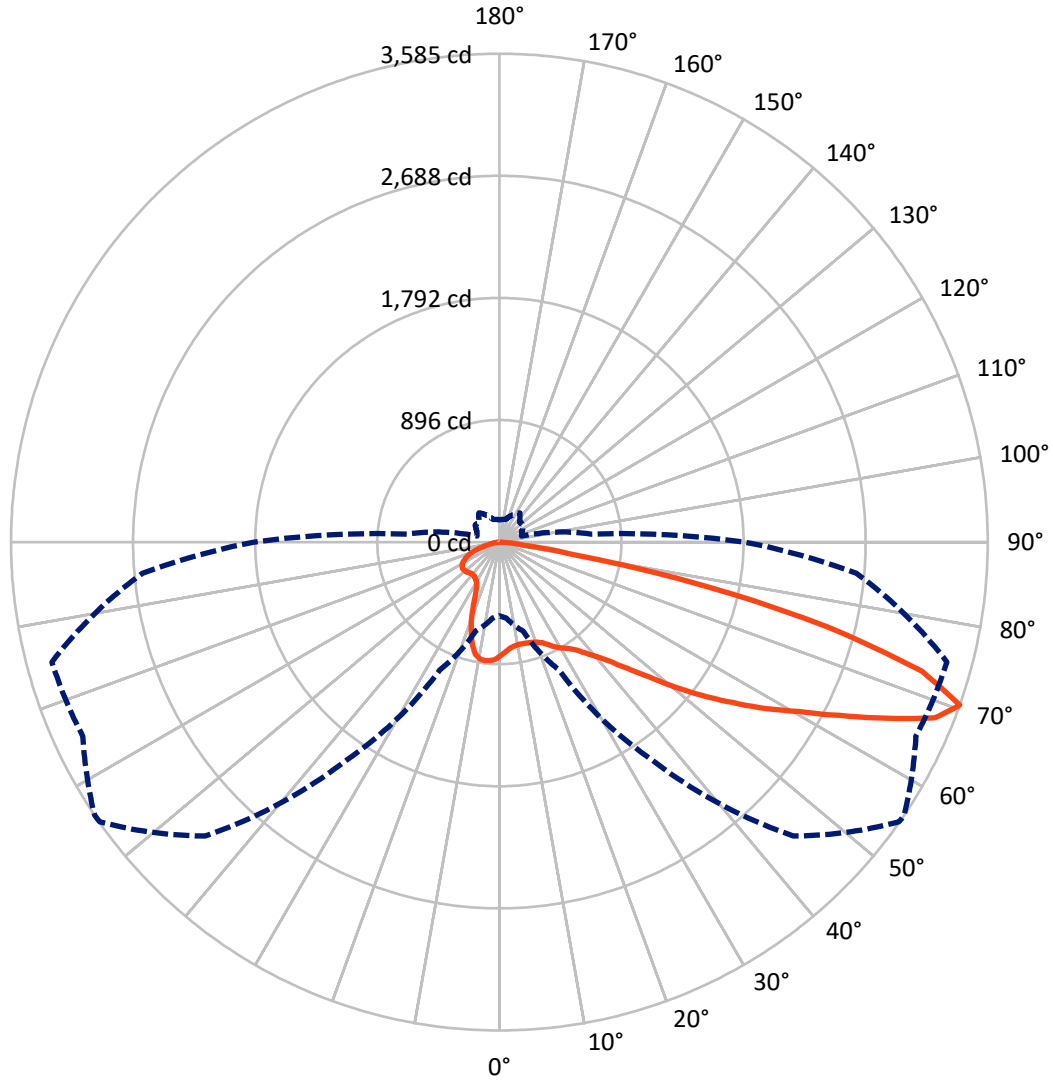
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.6 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	993.5	0.0	993.5
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	4174.3	0.0	4174.3
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	5167.8	0.0	5167.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.2	1.5
10°-20°	209.2	4.0
20°-30°	345.8	6.7
30°-40°	517.0	10.0
40°-50°	769.4	14.9
50°-60°	1093.8	21.2
60°-70°	1354.7	26.2
70°-80°	748.0	14.5
80°-90°	52.7	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°	5167.8	100.0
0°-180°	5167.8	100.0

**Coefficient of Utilization**



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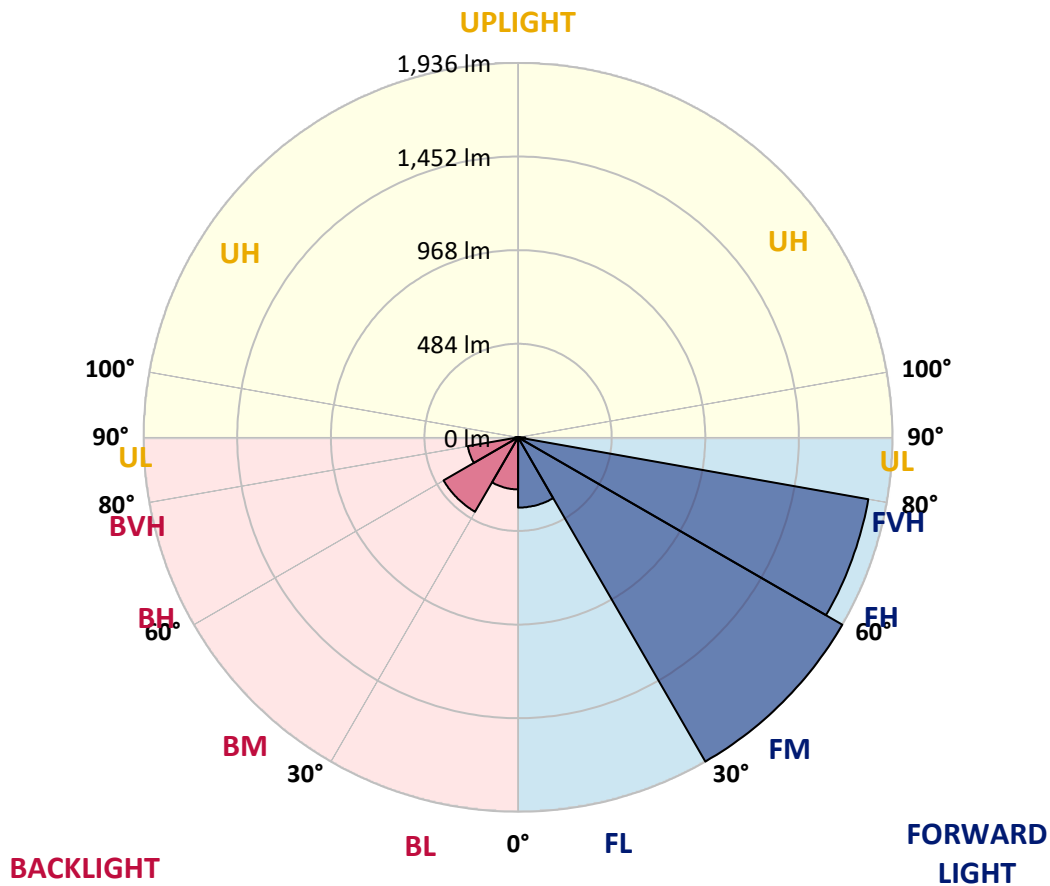
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	363.2	7.0			
FM (30°-60°)	1935.8	37.5			
FH (60°-80°)	1838.7	35.6			G2/5000
FVH (80°-90°)	36.6	0.7			G1/100
BL (0°-30°)	268.9	5.2	B1/500		
BM (30°-60°)	444.4	8.6	B1/1000		
BH (60°-80°)	264.1	5.1	B1/500		G1/500
BVH (80°-90°)	16.1	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-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	834.2	834.2	834.2	834.2	834.2	834.2	834.2	834.2	834.2	834.2	834.2
2.5°	780.6	776.2	781.3	783.9	790.4	799.9	808.3	808.7	813.0	823.6	833.8
5°	745.2	743.1	744.5	752.2	759.1	771.1	783.9	785.0	797.4	818.1	838.5
7.5°	717.9	715.0	720.5	730.3	739.0	752.5	769.3	770.8	788.2	819.6	850.9
10°	678.6	676.4	686.6	699.7	718.6	740.9	763.1	764.9	787.9	829.1	872.8
12.5°	661.4	661.4	665.8	678.2	699.0	728.5	762.0	764.9	793.7	843.6	900.9
15°	688.0	689.9	686.2	685.5	693.9	721.9	763.5	767.8	804.6	858.6	928.5
17.5°	741.6	743.4	733.9	719.0	710.6	728.1	768.9	773.7	816.3	875.0	958.4
20°	816.7	818.9	798.1	775.1	746.3	746.0	779.5	783.9	831.2	892.8	990.1
22.5°	904.5	906.0	879.7	843.3	799.2	779.1	797.7	802.1	850.6	917.6	1024.4
25°	1006.2	1010.5	978.8	926.0	866.2	824.7	828.0	833.1	885.2	950.8	1064.8
27.5°	1114.8	1120.2	1083.8	1025.5	943.1	875.0	867.0	871.3	922.0	971.2	1086.3
30°	1225.9	1229.9	1193.5	1126.8	1025.8	931.8	899.8	902.3	938.0	981.0	1108.2
32.5°	1349.5	1346.2	1311.2	1234.3	1121.3	1000.0	930.4	929.6	955.9	1000.7	1139.5
35°	1465.3	1470.1	1432.9	1348.0	1226.3	1084.2	976.3	973.4	993.8	1032.8	1183.6
37.5°	1605.6	1604.2	1559.7	1467.9	1331.6	1164.7	1040.8	1035.7	1043.0	1082.7	1245.2
40°	1705.9	1716.1	1687.3	1601.6	1454.8	1263.8	1116.2	1104.9	1106.8	1144.3	1327.6
42.5°	1787.9	1797.3	1800.2	1745.6	1595.8	1386.3	1210.2	1198.9	1200.0	1253.2	1428.9
45°	1850.9	1863.7	1904.8	1888.8	1754.7	1527.7	1337.4	1325.8	1326.5	1385.5	1551.3
47.5°	1876.8	1890.6	1974.1	2012.3	1923.4	1696.7	1495.6	1478.5	1481.0	1546.2	1691.3
50°	1868.4	1887.0	1999.9	2107.5	2064.8	1868.8	1684.7	1672.7	1662.9	1757.6	1843.2
52.5°	1796.2	1816.6	1997.4	2167.9	2180.3	2031.3	1880.1	1873.1	1870.9	1982.1	2013.1
55°	1583.8	1618.0	1909.6	2184.0	2270.7	2184.3	2091.8	2080.1	2091.4	2222.6	2184.7
57.5°	1466.1	1491.6	1737.6	2166.1	2344.7	2330.1	2303.1	2304.2	2317.0	2483.9	2392.8
60°	1399.0	1428.9	1642.1	2117.3	2415.8	2507.2	2524.4	2524.4	2547.3	2765.6	2604.2
62.5°	1310.1	1340.3	1552.8	2023.3	2481.4	2715.7	2802.4	2801.3	2810.4	3067.7	2810.8
65°	1129.7	1157.8	1373.5	1875.0	2513.4	2945.3	3118.4	3115.1	3096.9	3336.6	2947.4
67.5°	820.3	846.9	1052.1	1592.9	2397.9	3130.4	3443.8	3445.2	3336.3	3506.1	2954.7
70°	540.8	559.0	676.4	1034.6	1950.0	3050.6	3580.1	3584.5	3373.1	3400.4	2629.7
72.5°	337.5	350.2	422.4	617.0	1152.3	2414.7	3230.2	3242.3	3034.5	2988.3	2160.7
75°	224.1	232.9	281.0	359.7	533.1	1306.8	2455.5	2494.1	2432.2	2342.5	1505.4
77.5°	134.8	142.1	178.9	228.5	236.1	510.6	1433.3	1533.1	1541.9	1223.0	630.5
80°	61.6	70.0	98.8	130.5	125.7	177.8	505.5	528.8	623.9	388.5	199.0
82.5°	36.4	40.1	65.6	64.9	53.6	86.4	181.8	186.6	158.5	142.1	84.9
85°	14.6	17.1	27.7	24.4	19.7	28.1	68.5	71.8	68.9	62.0	31.3
87.5°	0.0	0.0	0.0	0.0	0.4	0.7	6.2	6.6	9.5	17.1	9.5
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°	834.2	834.2	834.2	834.2	834.2	834.2	834.2	834.2	834.2	834.2	834.2
2.5°	840.4	838.2	849.1	857.5	861.1	864.8	861.5	860.4	860.4	853.1	849.5
5°	849.5	850.6	865.5	872.4	872.4	869.5	860.8	854.6	852.4	842.9	840.4
7.5°	866.6	871.3	885.2	884.8	874.6	858.6	836.7	819.9	804.6	798.1	794.1
10°	894.7	900.9	910.3	895.0	866.6	824.3	778.0	741.6	719.7	702.2	702.2
12.5°	926.7	932.6	930.7	895.4	836.7	757.6	690.9	649.0	618.4	602.4	602.4
15°	958.8	963.5	943.9	878.6	774.4	669.1	596.2	545.9	519.3	504.4	504.4
17.5°	991.2	990.9	949.3	840.0	693.1	571.0	499.6	460.6	451.5	449.0	448.6
20°	1022.6	1014.2	942.4	775.5	598.7	472.3	427.1	429.7	443.1	449.0	449.7
22.5°	1057.9	1037.1	922.0	693.1	491.6	403.8	406.7	427.8	447.5	456.3	457.3
25°	1094.0	1056.8	887.7	596.6	402.0	378.6	401.2	424.9	447.1	458.4	459.5
27.5°	1108.6	1056.8	829.4	484.7	354.2	368.1	392.8	415.8	439.1	452.2	454.8
30°	1120.6	1047.7	747.8	383.7	334.5	357.9	379.4	400.5	423.5	439.5	442.4
32.5°	1137.4	1039.7	649.0	322.5	325.4	348.0	363.0	380.8	401.6	412.2	411.1
35°	1157.0	1027.3	529.9	293.4	317.8	339.6	350.2	360.8	351.3	350.9	352.0
37.5°	1185.1	1016.4	426.0	280.2	312.7	333.8	342.6	320.0	306.8	301.4	299.2
40°	1225.6	1012.0	336.0	272.6	311.9	333.4	327.3	292.3	274.4	255.5	255.1
42.5°	1276.6	1008.7	277.7	268.9	314.5	341.8	306.1	274.0	237.2	228.9	228.1
45°	1342.2	1003.6	248.5	268.2	320.7	348.4	303.9	248.9	223.8	220.1	220.1
47.5°	1421.2	995.6	235.4	268.2	327.6	345.5	297.4	243.4	217.6	221.6	224.1
50°	1512.0	985.4	228.5	267.5	334.5	345.5	283.5	242.3	216.1	236.9	245.3
52.5°	1608.9	973.7	223.8	264.6	339.3	345.8	284.2	246.0	217.6	240.5	247.4
55°	1716.1	971.9	217.2	258.4	340.7	336.4	286.1	254.0	219.7	217.9	218.3
57.5°	1851.3	993.8	212.5	249.3	334.9	317.0	289.7	259.8	217.2	217.6	220.1
60°	1992.7	1035.0	216.5	240.5	322.9	298.8	292.3	256.9	204.8	199.0	199.7
62.5°	2112.9	1066.3	219.7	236.5	305.4	282.8	289.7	250.4	197.9	196.4	199.7
65°	2163.2	1040.4	211.7	228.1	279.9	263.1	284.2	242.0	192.1	186.6	186.9
67.5°	2107.5	919.1	196.1	209.5	251.1	238.0	275.5	231.0	184.0	177.5	176.0
70°	1800.2	675.3	169.1	180.0	216.1	208.4	262.0	216.8	171.3	166.5	163.3
72.5°	1450.8	478.1	140.3	143.2	169.5	175.7	238.7	199.0	156.7	143.2	138.5
75°	1009.8	300.3	117.0	114.1	122.4	134.1	186.2	165.1	135.2	121.0	116.6
77.5°	434.4	154.2	91.5	90.0	81.6	92.9	142.9	137.8	113.3	96.9	94.4
80°	145.4	89.3	66.0	63.4	54.3	65.2	100.6	110.1	88.9	71.8	67.4
82.5°	72.9	51.7	41.9	37.9	36.4	41.2	59.4	68.5	61.6	49.6	41.9
85°	35.7	29.5	23.0	22.6	18.9	17.9	24.8	29.2	27.7	20.4	19.3
87.5°	13.1	11.7	7.3	5.8	3.6	2.6	1.5	1.5	1.1	1.1	1.1
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)