

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: P631068

Luminaire Tested: GWS-SA1E-830-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631068  
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-SA1E-830-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) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

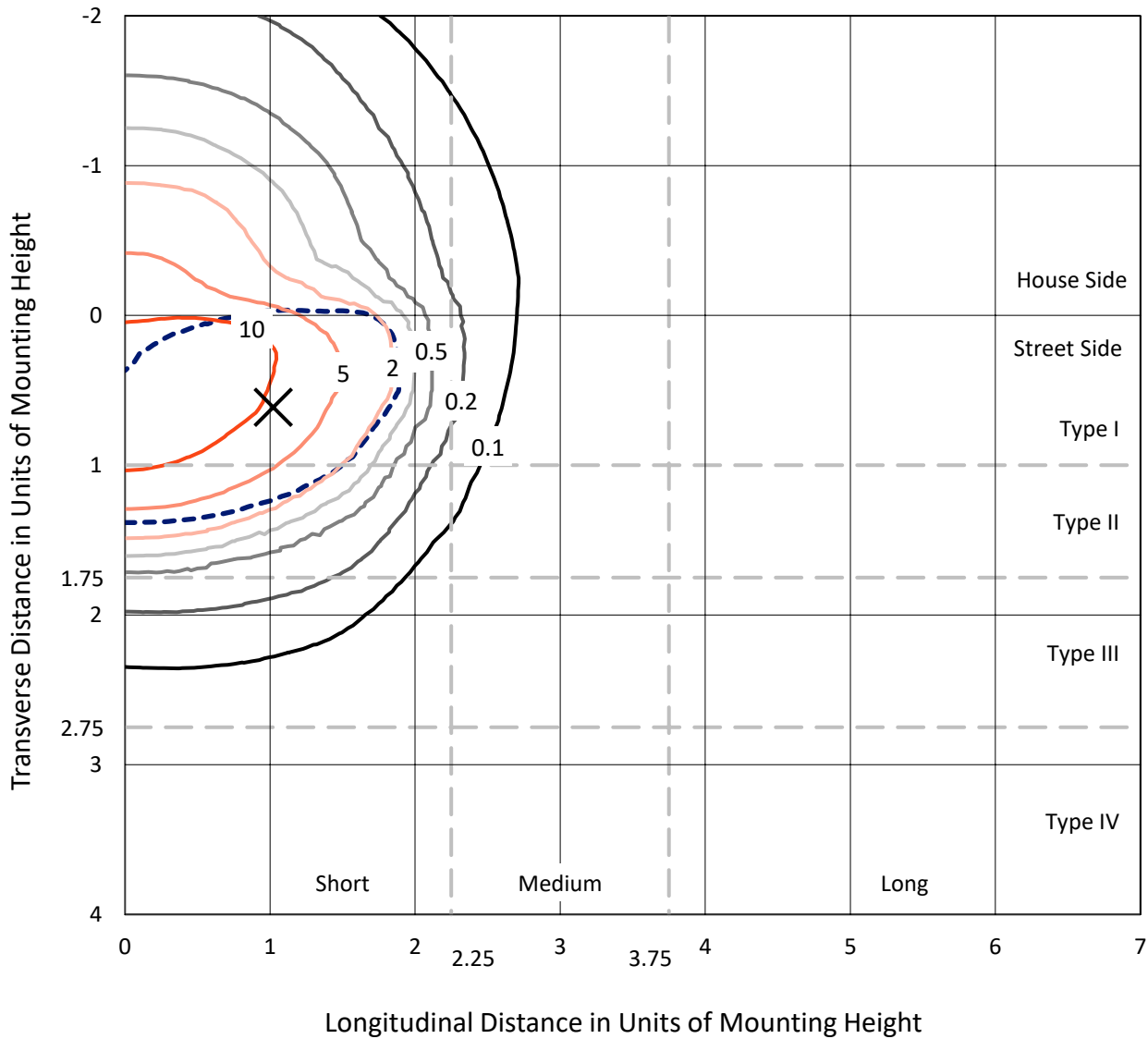
Lumens per Lamp: N/A  
Luminaire Lumens: 5297.8 lumens  
Efficiency: N/A  
Efficacy: 90.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): 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

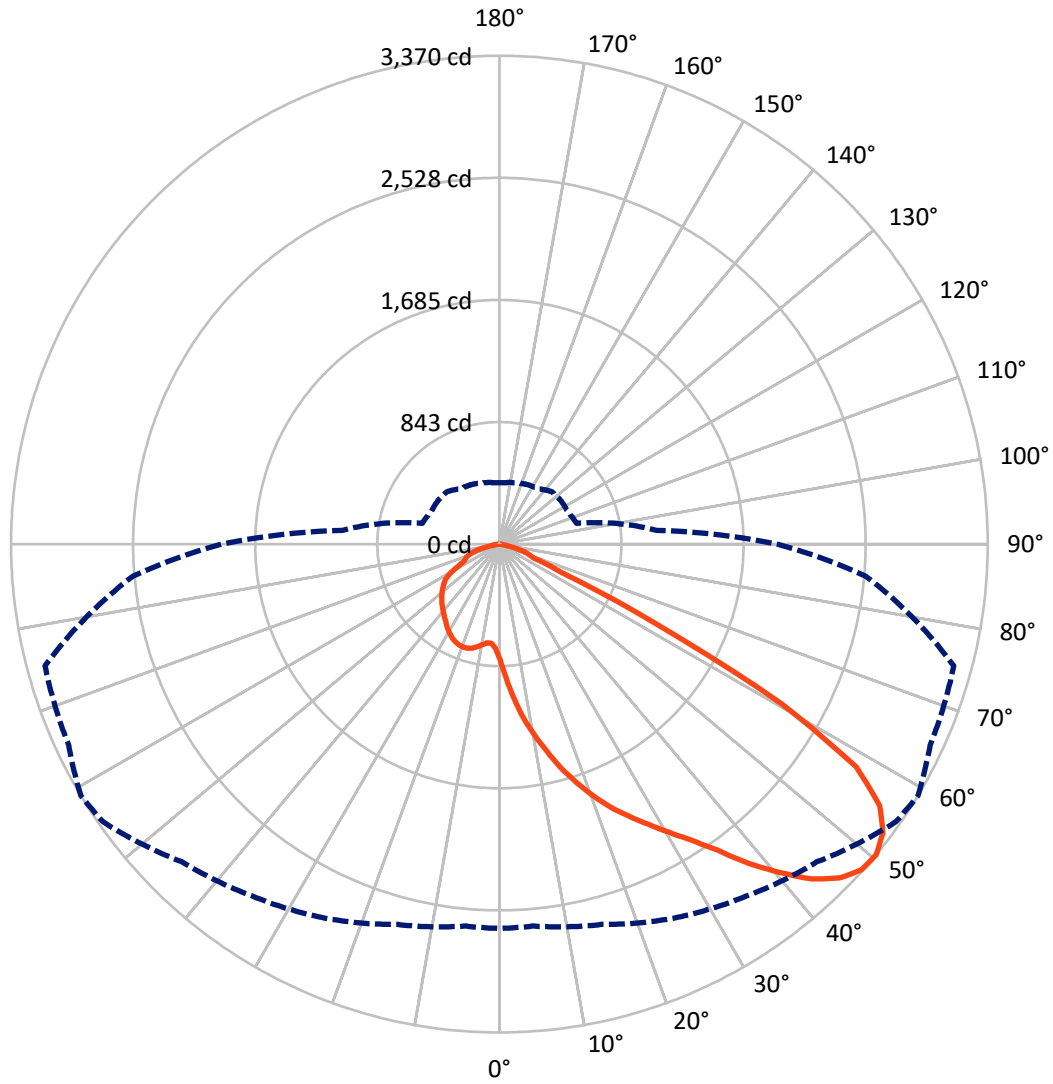
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.9 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
<b>House Side</b>	Lumens	1218.6	0.0	1218.6
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	4079.2	0.0	4079.2
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	5297.8	0.0	5297.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.0	1.7
10°-20°	326.9	6.2
20°-30°	619.0	11.7
30°-40°	1026.4	19.4
40°-50°	1402.2	26.5
50°-60°	1272.8	24.0
60°-70°	423.9	8.0
70°-80°	123.6	2.3
80°-90°	13.0	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°	5297.8	100.0
0°-180°	5297.8	100.0

**Coefficient of Utilization**



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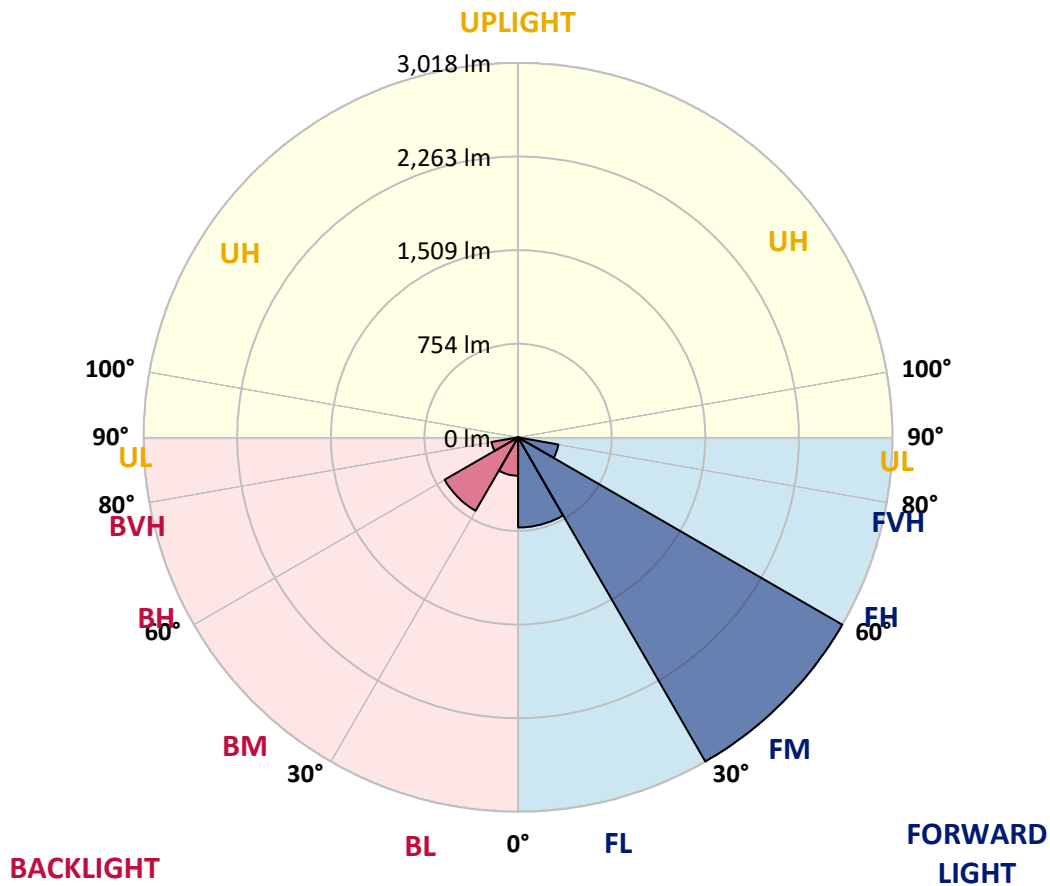
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	726.5	13.7			
FM (30°-60°)	3017.7	57.0			
FH (60°-80°)	330.0	6.2			G0/660
FVH (80°-90°)	5.1	0.1			G0/10
BL (0°-30°)	309.4	5.8	B1/500		
BM (30°-60°)	683.7	12.9	B1/1000		
BH (60°-80°)	217.5	4.1	B1/500		G1/500
BVH (80°-90°)	7.9	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°	802.7	802.7	802.7	802.7	802.7	802.7	802.7	802.7	802.7	802.7	802.7
2.5°	1040.0	1047.8	1035.7	1036.5	1006.3	992.5	953.7	930.8	915.7	873.4	835.0
5°	1249.7	1240.7	1231.2	1225.6	1199.2	1162.1	1113.8	1075.4	1040.0	957.1	877.3
7.5°	1378.3	1373.6	1367.1	1363.6	1337.8	1298.9	1250.6	1217.8	1166.4	1054.2	928.7
10°	1487.5	1481.9	1478.0	1480.6	1459.4	1434.4	1381.8	1344.2	1286.4	1156.9	990.8
12.5°	1572.1	1575.1	1576.4	1590.2	1581.1	1566.0	1511.7	1472.0	1407.7	1265.3	1063.7
15°	1639.0	1638.1	1653.2	1679.5	1694.2	1684.7	1641.1	1607.9	1529.4	1371.8	1142.3
17.5°	1654.5	1655.4	1679.1	1725.3	1773.2	1796.5	1771.9	1732.2	1654.5	1477.1	1223.8
20°	1667.0	1668.7	1693.3	1746.0	1815.9	1881.1	1884.9	1856.5	1789.6	1591.1	1306.7
22.5°	1746.0	1749.9	1756.3	1789.6	1852.6	1935.0	1980.3	1974.3	1918.2	1710.6	1396.0
25°	1953.6	1941.9	1910.4	1900.9	1925.1	1992.0	2069.2	2080.9	2053.2	1842.2	1492.2
27.5°	2209.9	2197.4	2150.8	2101.6	2049.4	2072.7	2155.1	2190.0	2190.5	1987.2	1588.9
30°	2442.5	2432.6	2394.6	2324.2	2234.1	2200.4	2261.2	2308.3	2336.3	2154.7	1699.0
32.5°	2641.4	2632.4	2581.0	2523.6	2435.6	2367.8	2389.8	2435.1	2500.7	2371.3	1835.7
35°	2808.9	2799.8	2750.6	2692.8	2611.2	2570.7	2562.9	2594.0	2679.0	2597.4	1992.8
37.5°	2944.8	2935.7	2884.4	2830.0	2767.9	2770.5	2782.1	2797.2	2846.0	2839.5	2160.7
40°	3032.8	3023.3	2986.7	2947.8	2908.5	2939.6	2997.4	2979.3	3005.2	3035.0	2315.2
42.5°	3072.1	3060.0	3038.9	3030.2	3018.2	3066.5	3177.8	3159.7	3128.6	3165.3	2430.0
45°	3032.8	3022.5	3022.0	3048.4	3076.4	3138.6	3302.5	3287.9	3209.3	3228.3	2498.6
47.5°	2912.4	2903.4	2928.0	2997.0	3066.1	3156.7	3358.2	3360.8	3266.7	3254.6	2543.0
50°	2652.2	2646.2	2717.4	2848.1	2967.2	3100.1	3340.5	3370.3	3280.5	3246.4	2537.4
52.5°	2123.1	2151.2	2306.1	2524.5	2755.8	3000.9	3274.9	3313.8	3214.1	3192.5	2507.2
55°	1453.4	1466.4	1621.3	1940.2	2307.0	2786.0	3124.3	3184.3	3135.5	3183.4	2538.7
57.5°	752.6	763.0	885.1	1168.2	1564.7	2201.7	2706.2	2902.9	2977.2	3229.2	2636.7
60°	309.0	317.6	368.1	504.9	789.3	1282.1	1947.5	2239.2	2413.6	2949.1	2341.5
62.5°	224.4	228.7	252.9	301.2	413.4	628.3	1102.1	1209.6	1332.1	1848.3	1486.6
65°	189.0	193.8	213.2	242.5	301.6	385.4	470.8	473.4	521.7	753.0	551.1
67.5°	158.4	162.7	179.9	205.0	243.8	273.6	252.9	253.3	252.4	273.2	264.1
70°	123.4	126.9	144.1	170.9	191.2	175.6	197.6	218.8	209.7	217.9	230.4
72.5°	90.2	94.1	109.2	129.5	124.3	125.1	160.1	181.7	176.5	185.6	197.2
75°	65.2	67.8	75.5	64.7	68.2	82.4	112.6	124.3	129.5	137.2	147.6
77.5°	21.1	21.1	23.7	29.8	37.1	45.7	57.4	62.1	69.9	78.5	85.9
80°	10.8	11.2	13.4	16.4	20.7	26.3	33.7	35.8	39.7	44.4	47.5
82.5°	5.2	5.6	6.5	8.2	10.8	13.8	18.6	20.7	23.3	26.3	28.5
85°	1.3	1.3	1.7	2.6	3.5	5.2	6.9	8.2	10.4	12.5	13.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.4	1.3	1.7	2.2	2.6	3.5
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°	802.7	802.7	802.7	802.7	802.7	802.7	802.7	802.7	802.7	802.7	802.7
2.5°	817.8	793.6	762.5	736.2	712.0	693.5	677.5	669.7	662.4	657.2	659.0
5°	840.2	798.8	740.9	700.8	676.2	663.7	655.1	650.8	649.9	646.4	645.1
7.5°	873.0	813.9	736.6	696.1	679.7	673.2	668.4	665.9	667.2	663.7	662.4
10°	913.6	838.9	747.4	711.6	697.4	692.6	687.4	684.0	682.3	677.1	676.2
12.5°	964.0	870.0	766.8	731.5	717.2	709.0	702.1	696.1	692.2	685.7	684.0
15°	1018.4	904.5	789.7	750.9	734.0	722.0	710.7	701.7	694.8	686.1	684.8
17.5°	1077.5	940.7	808.7	764.2	742.7	726.7	710.3	696.9	687.4	676.2	674.9
20°	1139.3	977.4	822.9	770.7	743.1	721.5	699.5	681.8	669.7	658.5	657.7
22.5°	1203.1	1011.1	831.6	769.0	736.2	709.4	683.1	663.3	649.0	635.7	634.8
25°	1267.4	1043.5	833.7	762.1	722.4	691.3	665.0	641.7	625.7	610.6	608.9
27.5°	1332.6	1070.6	828.5	748.3	703.8	670.2	643.8	621.0	604.6	589.5	586.9
30°	1402.1	1093.9	817.3	730.2	682.3	647.7	621.8	604.6	589.0	573.9	571.4
32.5°	1476.3	1114.2	801.4	708.1	657.2	625.3	606.3	590.8	575.2	561.9	559.3
35°	1564.7	1127.6	777.6	679.7	633.9	608.9	595.9	577.8	558.8	544.2	542.9
37.5°	1656.2	1138.0	749.1	652.5	613.6	599.4	588.6	564.0	540.3	522.6	520.4
40°	1744.7	1146.6	713.8	627.0	595.1	592.5	577.8	547.2	506.2	486.3	484.6
42.5°	1827.1	1149.2	676.6	599.8	578.3	577.0	560.6	513.1	481.6	469.1	467.4
45°	1883.6	1147.0	638.2	574.4	561.4	554.5	537.3	488.5	469.1	457.9	455.7
47.5°	1925.5	1135.8	595.1	547.6	542.4	532.9	495.8	473.0	454.8	443.6	441.5
50°	1918.2	1089.2	551.5	521.7	519.6	511.4	465.6	453.5	437.6	425.5	423.8
52.5°	1880.2	1000.7	507.1	493.2	497.6	481.6	444.0	430.2	416.4	402.6	399.6
55°	1889.7	936.9	473.4	465.6	473.4	437.1	419.9	405.2	392.3	378.9	376.3
57.5°	1931.1	873.9	437.6	435.8	444.0	403.1	388.8	370.3	351.7	340.9	340.9
60°	1621.7	636.9	374.6	378.9	397.4	375.4	362.9	343.9	323.7	314.2	314.2
62.5°	958.9	399.6	310.7	306.0	317.6	331.4	338.3	322.8	298.6	286.1	286.5
65°	422.5	290.9	274.0	270.1	266.7	276.2	295.2	296.5	271.0	256.3	256.8
67.5°	260.2	263.2	256.3	253.3	250.3	248.6	246.8	247.7	240.8	227.4	227.0
70°	234.8	243.0	238.2	235.6	231.7	228.7	218.4	201.5	189.9	186.4	190.3
72.5°	202.0	213.2	210.6	209.3	204.5	197.2	183.4	167.0	153.2	144.6	146.3
75°	152.3	161.4	162.7	163.1	157.9	151.0	136.8	123.0	110.9	101.8	104.0
77.5°	87.6	92.8	94.1	95.4	91.5	88.9	79.4	69.5	63.0	53.5	56.1
80°	48.8	50.9	50.9	51.4	49.2	46.2	39.7	34.1	31.1	26.8	27.2
82.5°	29.3	30.2	30.6	31.1	29.8	26.8	22.0	18.1	16.4	14.2	13.8
85°	14.2	15.1	15.1	15.5	13.4	11.7	9.1	6.9	6.0	4.3	4.7
87.5°	3.5	3.9	3.9	3.5	3.0	2.2	1.3	0.4	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)