

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: P631123

Luminaire Tested: GWS-SA1F-722-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631123  
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-SA1F-722-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) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

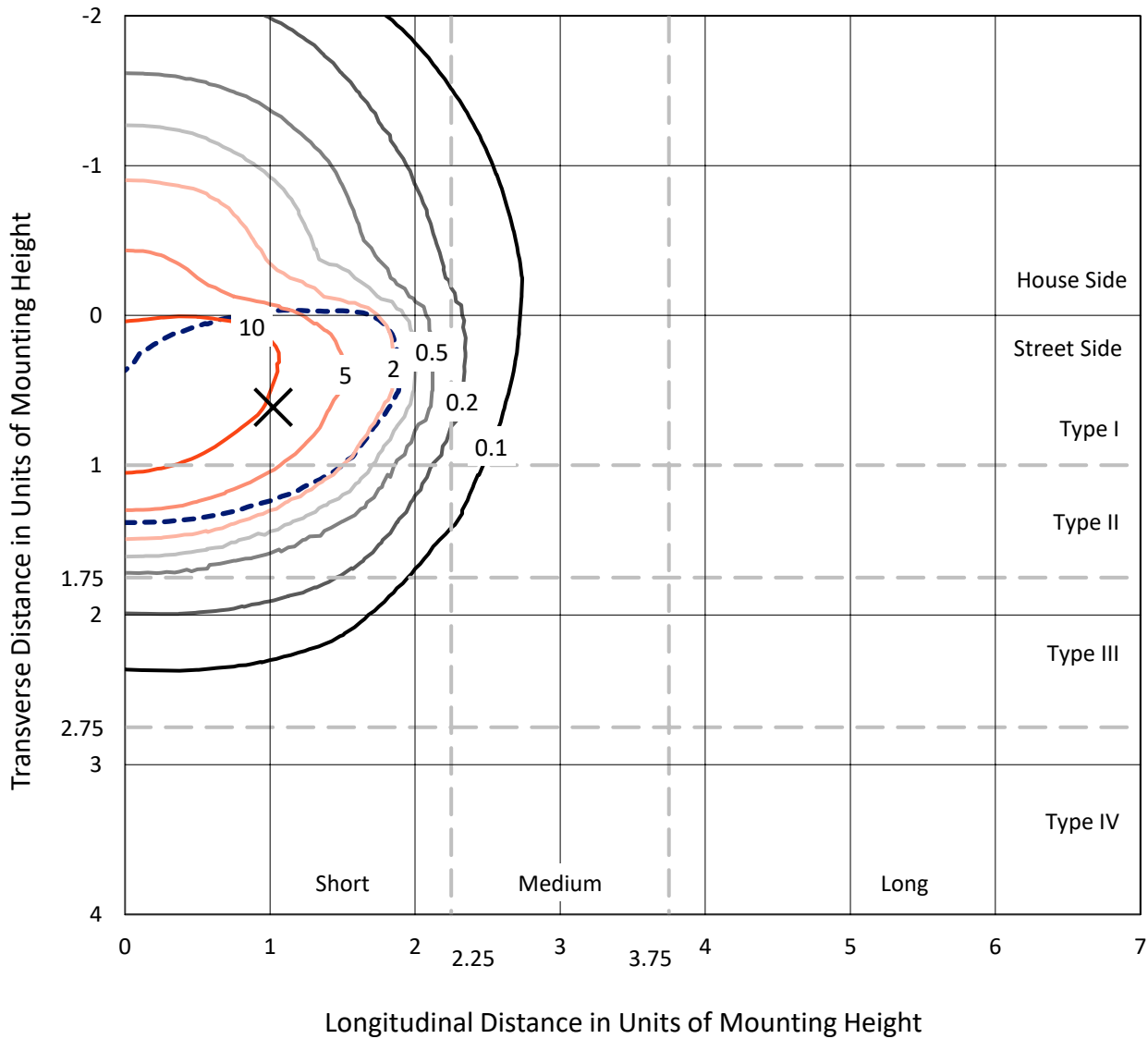
Lumens per Lamp: N/A  
Luminaire Lumens: 5461.7 lumens  
Efficiency: N/A  
Efficacy: 81.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

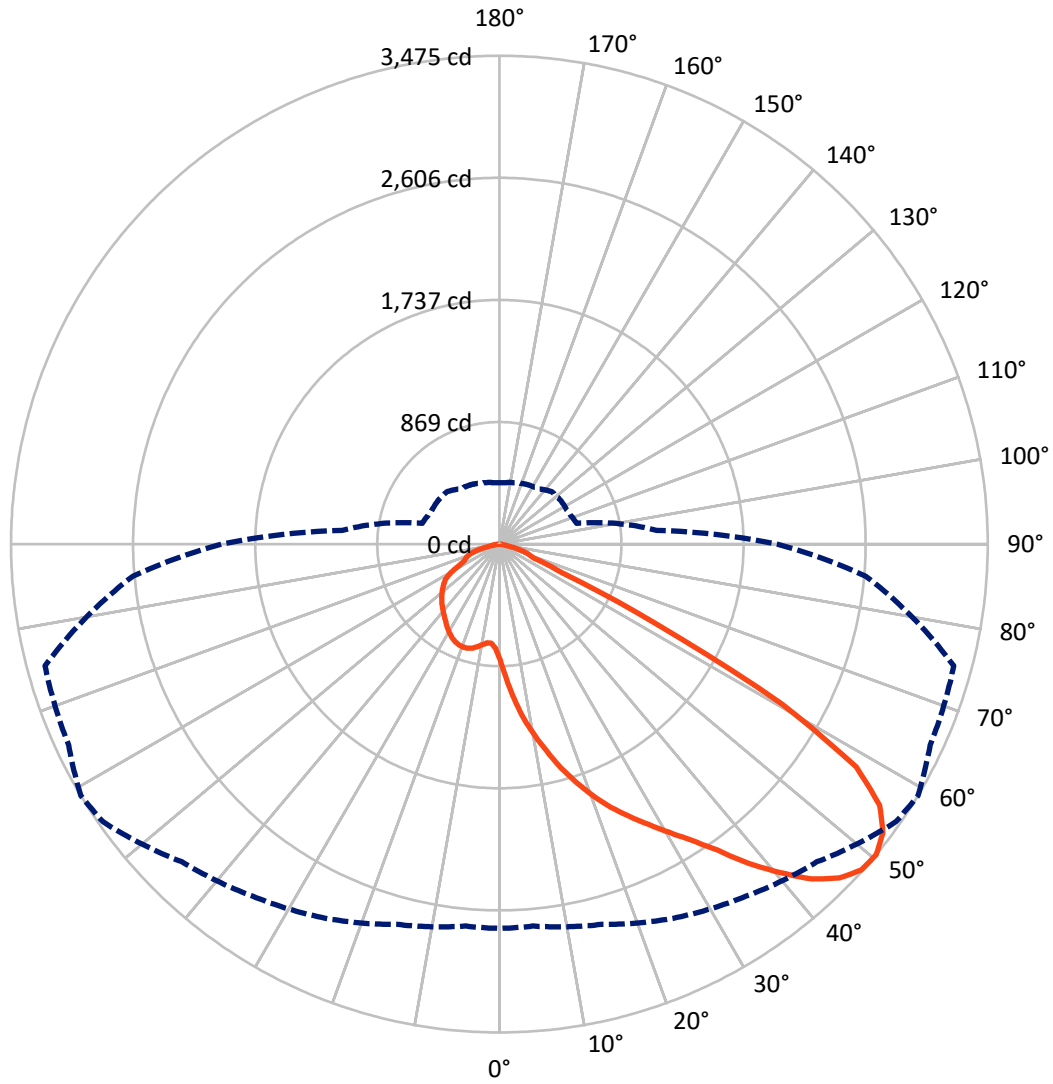
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.4 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	1256.3	0.0	1256.3
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	4205.4	0.0	4205.4
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	5461.7	0.0	5461.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.8	1.7
10°-20°	337.0	6.2
20°-30°	638.1	11.7
30°-40°	1058.2	19.4
40°-50°	1445.6	26.5
50°-60°	1312.2	24.0
60°-70°	437.0	8.0
70°-80°	127.5	2.3
80°-90°	13.4	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°	5461.7	100.0
0°-180°	5461.7	100.0

**Coefficient of Utilization**



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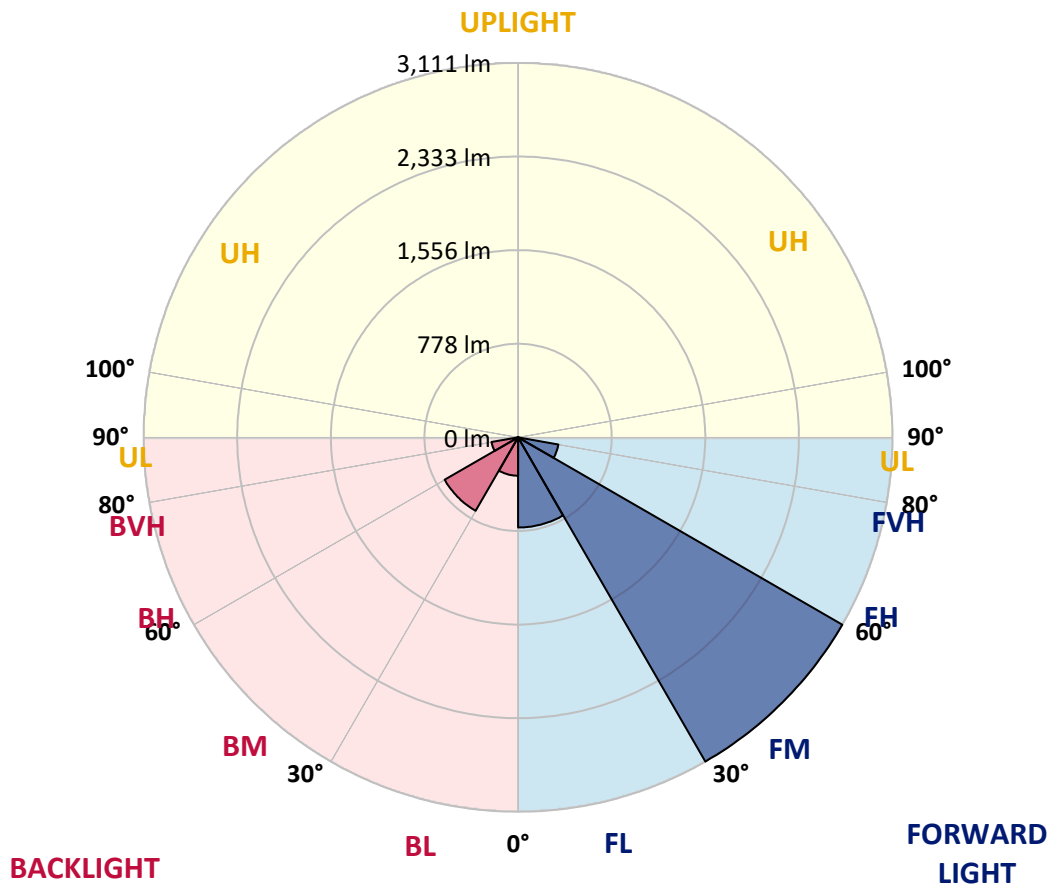
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	748.9	13.7			
FM (30°-60°)	3111.1	57.0			
FH (60°-80°)	340.2	6.2			G0/660
FVH (80°-90°)	5.2	0.1			G0/10
BL (0°-30°)	319.0	5.8	B1/500		
BM (30°-60°)	704.9	12.9	B1/1000		
BH (60°-80°)	224.2	4.1	B1/500		G1/500
BVH (80°-90°)	8.1	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°	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5
2.5°	1072.2	1080.2	1067.7	1068.6	1037.5	1023.2	983.2	959.6	944.0	900.4	860.9
5°	1288.4	1279.0	1269.3	1263.5	1236.3	1198.1	1148.2	1108.7	1072.2	986.8	904.5
7.5°	1421.0	1416.1	1409.4	1405.8	1379.1	1339.1	1289.3	1255.5	1202.5	1086.9	957.4
10°	1533.5	1527.7	1523.7	1526.4	1504.6	1478.8	1424.5	1385.8	1326.2	1192.7	1021.5
12.5°	1620.7	1623.8	1625.2	1639.4	1630.1	1614.5	1558.4	1517.5	1451.2	1304.4	1096.6
15°	1689.7	1688.8	1704.4	1731.5	1746.6	1736.8	1691.9	1657.6	1576.7	1414.3	1177.6
17.5°	1705.7	1706.6	1731.0	1778.7	1828.0	1852.1	1826.7	1785.8	1705.7	1522.8	1261.7
20°	1718.6	1720.4	1745.7	1800.0	1872.1	1939.3	1943.3	1913.9	1844.9	1640.3	1347.1
22.5°	1800.0	1804.0	1810.7	1844.9	1909.9	1994.9	2041.6	2035.3	1977.5	1763.5	1439.2
25°	2014.0	2002.0	1969.5	1959.7	1984.6	2053.6	2133.2	2145.2	2116.8	1899.2	1538.4
27.5°	2278.3	2265.4	2217.3	2166.6	2112.8	2136.8	2221.8	2257.8	2258.2	2048.7	1638.1
30°	2518.0	2507.8	2468.7	2396.2	2303.2	2268.5	2331.2	2379.7	2408.6	2221.3	1751.5
32.5°	2723.1	2713.8	2660.9	2601.7	2510.9	2441.1	2463.8	2510.5	2578.1	2444.6	1892.5
35°	2895.8	2886.4	2835.7	2776.1	2692.0	2650.2	2642.2	2674.2	2761.8	2677.8	2054.5
37.5°	3035.9	3026.6	2973.6	2917.6	2853.5	2856.2	2868.2	2883.7	2934.0	2927.3	2227.5
40°	3126.7	3116.9	3079.0	3039.0	2998.5	3030.6	3090.2	3071.5	3098.2	3128.9	2386.8
42.5°	3167.1	3154.7	3132.9	3124.0	3111.5	3161.4	3276.1	3257.4	3225.4	3263.2	2505.1
45°	3126.7	3116.0	3115.5	3142.7	3171.6	3235.6	3404.7	3389.6	3308.6	3328.2	2575.9
47.5°	3002.5	2993.2	3018.5	3089.7	3160.9	3254.3	3462.1	3464.8	3367.8	3355.3	2621.7
50°	2734.3	2728.0	2801.4	2936.2	3059.0	3196.1	3443.9	3474.6	3382.0	3346.9	2615.9
52.5°	2188.8	2217.8	2377.5	2602.6	2841.0	3093.7	3376.2	3416.3	3313.5	3291.3	2584.8
55°	1498.4	1511.7	1671.4	2000.2	2378.4	2872.2	3221.0	3282.8	3232.5	3281.9	2617.3
57.5°	775.9	786.6	912.5	1204.3	1613.2	2269.8	2789.9	2992.7	3069.3	3329.1	2718.2
60°	318.5	327.4	379.5	520.5	813.7	1321.8	2007.8	2308.5	2488.2	3040.3	2413.9
62.5°	231.3	235.8	260.7	310.5	426.2	647.8	1136.2	1247.0	1373.4	1905.4	1532.6
65°	194.9	199.8	219.8	250.0	311.0	397.3	485.4	488.0	537.9	776.3	568.1
67.5°	163.3	167.7	185.5	211.3	251.4	282.1	260.7	261.1	260.3	281.6	272.3
70°	127.2	130.8	148.6	176.2	197.1	181.1	203.8	225.6	216.2	224.7	237.6
72.5°	93.0	97.0	112.6	133.5	128.1	129.0	165.1	187.3	182.0	191.3	203.3
75°	67.2	69.8	77.9	66.7	70.3	85.0	116.1	128.1	133.5	141.5	152.2
77.5°	21.8	21.8	24.5	30.7	38.3	47.2	59.2	64.1	72.1	81.0	88.5
80°	11.1	11.6	13.8	16.9	21.4	27.1	34.7	36.9	40.9	45.8	48.9
82.5°	5.3	5.8	6.7	8.5	11.1	14.2	19.1	21.4	24.0	27.1	29.4
85°	1.3	1.3	1.8	2.7	3.6	5.3	7.1	8.5	10.7	12.9	14.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.4	1.3	1.8	2.2	2.7	3.6
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°	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5
2.5°	843.1	818.1	786.1	759.0	734.1	714.9	698.5	690.5	682.9	677.6	679.3
5°	866.2	823.5	763.9	722.5	697.1	684.2	675.3	670.9	670.0	666.4	665.1
7.5°	900.0	839.1	759.4	717.6	700.7	694.0	689.1	686.5	687.8	684.2	682.9
10°	941.8	864.9	770.5	733.6	718.9	714.0	708.7	705.1	703.4	698.0	697.1
12.5°	993.9	896.9	790.6	754.1	739.4	730.9	723.8	717.6	713.6	706.9	705.1
15°	1049.9	932.5	814.1	774.1	756.7	744.3	732.7	723.4	716.3	707.4	706.0
17.5°	1110.9	969.8	833.7	787.9	765.6	749.2	732.3	718.5	708.7	697.1	695.8
20°	1174.5	1007.7	848.4	794.6	766.1	743.8	721.2	702.9	690.5	678.9	678.0
22.5°	1240.3	1042.4	857.3	792.8	759.0	731.4	704.3	683.8	669.1	655.3	654.4
25°	1306.6	1075.7	859.5	785.7	744.7	712.7	685.6	661.5	645.1	629.5	627.7
27.5°	1373.8	1103.8	854.2	771.4	725.6	690.9	663.8	640.2	623.3	607.7	605.0
30°	1445.4	1127.8	842.6	752.7	703.4	667.8	641.1	623.3	607.3	591.7	589.0
32.5°	1522.0	1148.7	826.2	730.1	677.6	644.6	625.1	609.0	593.0	579.2	576.6
35°	1613.2	1162.5	801.7	700.7	653.5	627.7	614.4	595.7	576.1	561.0	559.7
37.5°	1707.5	1173.2	772.3	672.7	632.6	617.9	606.8	581.5	557.0	538.8	536.5
40°	1798.7	1182.1	735.8	646.4	613.5	610.8	595.7	564.1	521.9	501.4	499.6
42.5°	1883.6	1184.7	697.6	618.4	596.1	594.8	577.9	529.0	496.5	483.6	481.8
45°	1941.9	1182.5	658.0	592.1	578.8	571.7	553.9	503.6	483.6	472.0	469.8
47.5°	1985.1	1170.9	613.5	564.6	559.2	549.4	511.2	487.6	468.9	457.3	455.1
50°	1977.5	1122.9	568.6	537.9	535.6	527.2	480.0	467.6	451.1	438.7	436.9
52.5°	1938.4	1031.7	522.7	508.5	513.0	496.5	457.8	443.6	429.3	415.1	412.0
55°	1948.2	965.8	488.0	480.0	488.0	450.7	432.9	417.7	404.4	390.6	387.9
57.5°	1990.9	900.9	451.1	449.3	457.8	415.5	400.8	381.7	362.6	351.5	351.5
60°	1671.9	656.7	386.2	390.6	409.7	387.0	374.1	354.6	333.7	323.9	323.9
62.5°	988.5	412.0	320.3	315.4	327.4	341.7	348.8	332.8	307.9	295.0	295.4
65°	435.5	299.9	282.5	278.5	274.9	284.7	304.3	305.6	279.4	264.3	264.7
67.5°	268.3	271.4	264.3	261.1	258.0	256.3	254.5	255.4	248.2	234.5	234.0
70°	242.0	250.5	245.6	242.9	238.9	235.8	225.1	207.8	195.7	192.2	196.2
72.5°	208.2	219.8	217.1	215.8	210.9	203.3	189.1	172.2	157.9	149.0	150.8
75°	157.0	166.4	167.7	168.2	162.8	155.7	141.0	126.8	114.3	105.0	107.2
77.5°	90.3	95.7	97.0	98.3	94.3	91.6	81.9	71.6	65.0	55.2	57.8
80°	50.3	52.5	52.5	52.9	50.7	47.6	40.9	35.1	32.0	27.6	28.0
82.5°	30.3	31.1	31.6	32.0	30.7	27.6	22.7	18.7	16.9	14.7	14.2
85°	14.7	15.6	15.6	16.0	13.8	12.0	9.3	7.1	6.2	4.4	4.9
87.5°	3.6	4.0	4.0	3.6	3.1	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)