

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: P631948

Luminaire Tested: GWS-SA2B-760-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631948
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-SA2B-760-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6127.8 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

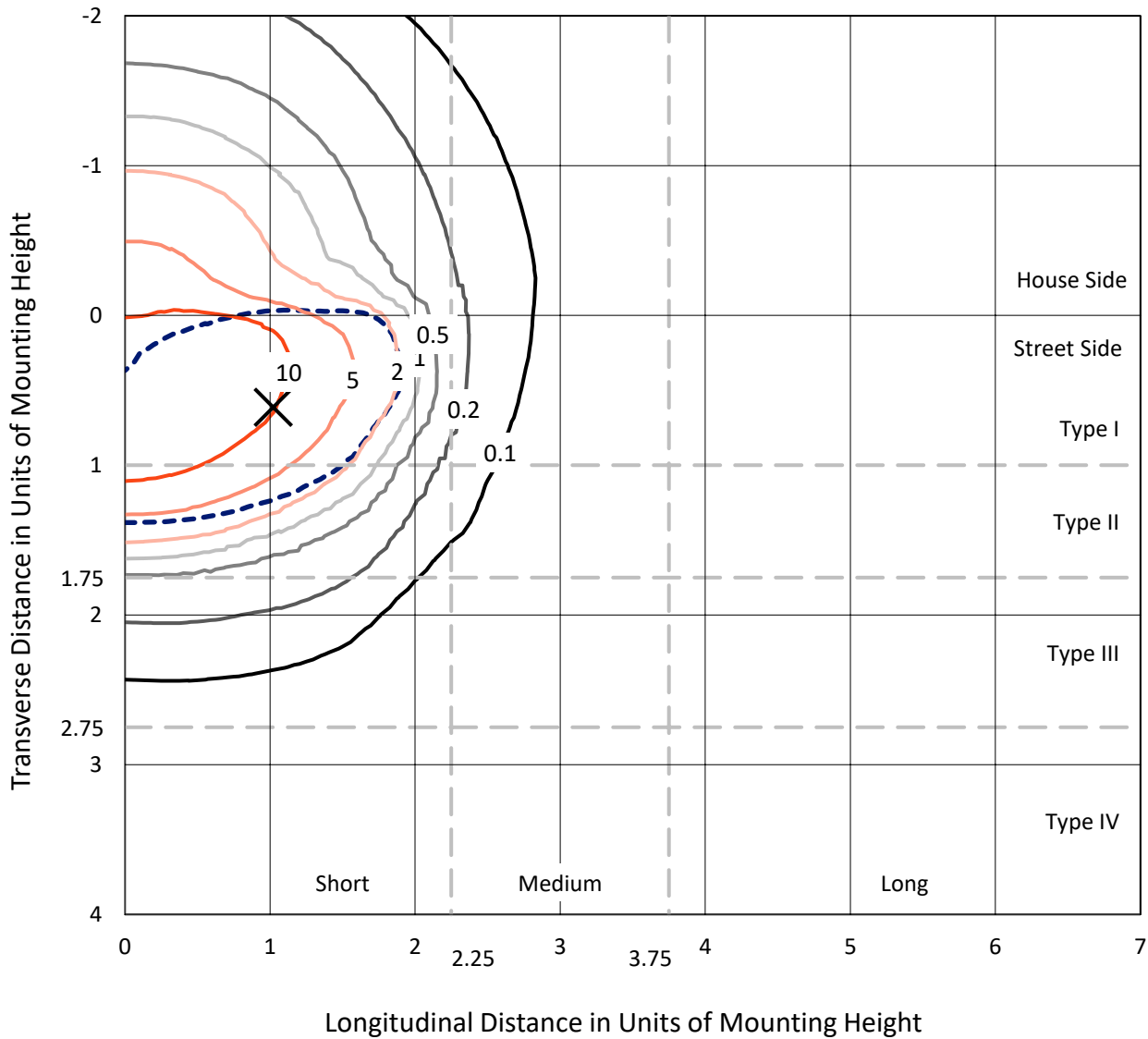
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631948
 CATALOG NUMBER: GWS-SA2B-760-U-T2R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

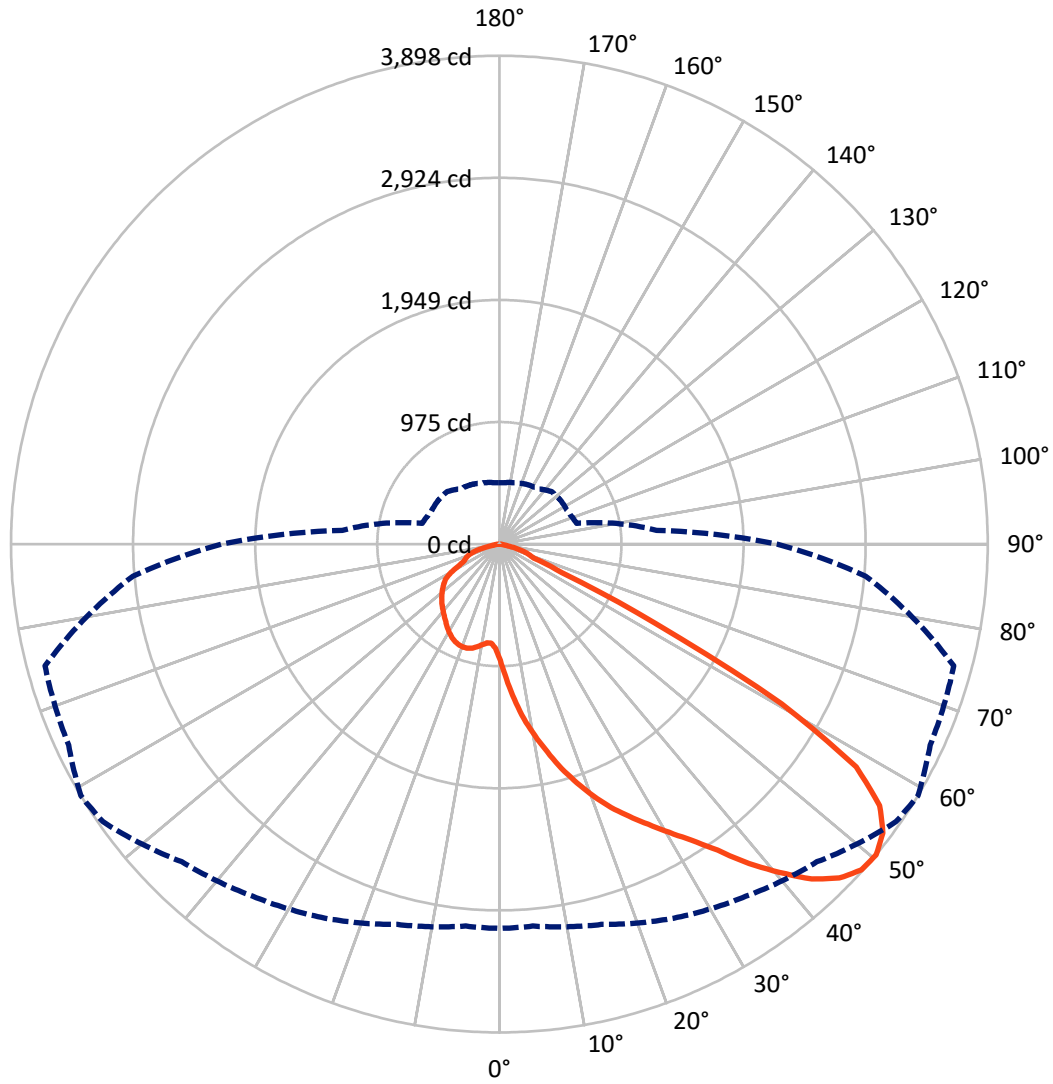
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.4 fc
 Type II - Short - N/A

REPORT NUMBER: P631948
CATALOG NUMBER: GWS-SA2B-760-U-T2R-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P631948

CATALOG NUMBER: GWS-SA2B-760-U-T2R-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1409.5	0.0	1409.5
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	4718.3	0.0	4718.3
	% Fixture	77.0	0.0	77.0
Total	Lumens	6127.8	0.0	6127.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.2	1.7
10°-20°	378.1	6.2
20°-30°	715.9	11.7
30°-40°	1187.3	19.4
40°-50°	1621.9	26.5
50°-60°	1472.2	24.0
60°-70°	490.3	8.0
70°-80°	143.0	2.3
80°-90°	15.0	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°	6127.8	100.0
0°-180°	6127.8	100.0

Coefficient of Utilization



REPORT NUMBER: P631948

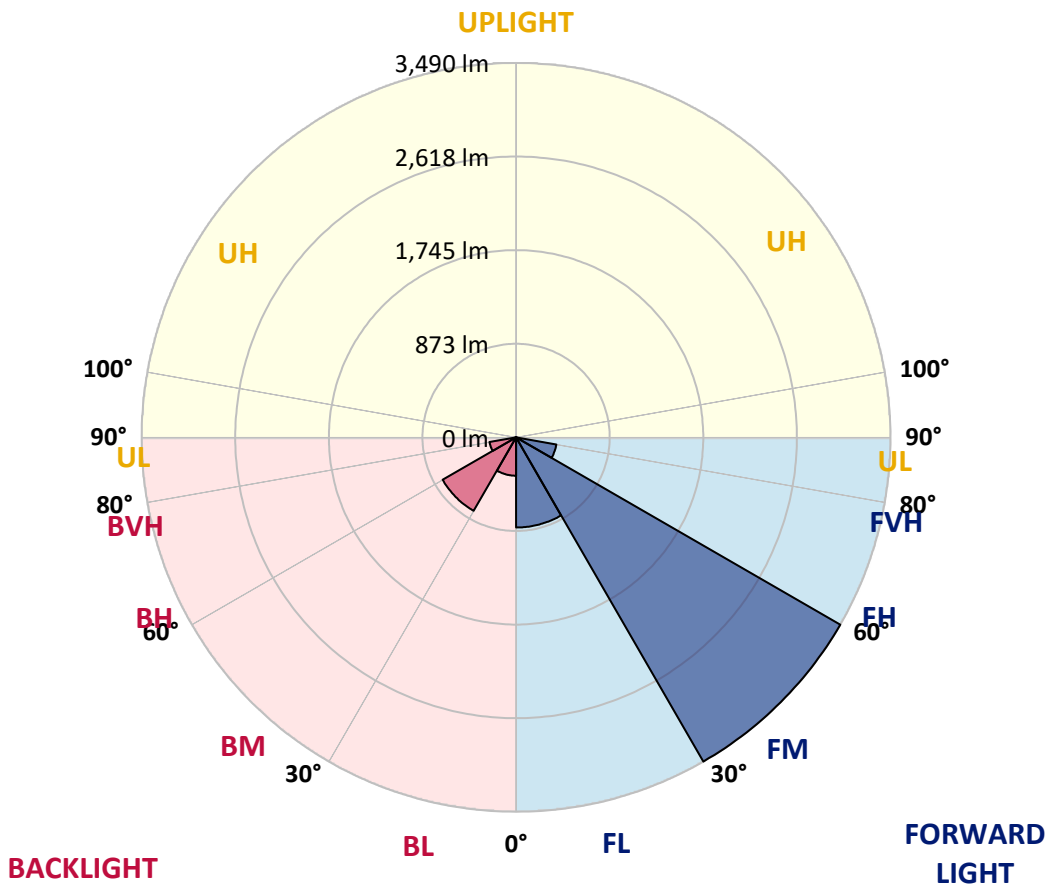
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	840.3	13.7			
FM (30°-60°)	3490.5	57.0			
FH (60°-80°)	381.7	6.2			G0/660
FVH (80°-90°)	5.9	0.1			G0/10
BL (0°-30°)	357.9	5.8	B1/500		
BM (30°-60°)	790.9	12.9	B1/1000		
BH (60°-80°)	251.6	4.1	B1/500		G1/500
BVH (80°-90°)	9.1	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





REPORT NUMBER: P631948

CATALOG NUMBER: GWS-SA2B-760-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	928.4	928.4	928.4	928.4	928.4	928.4	928.4	928.4	928.4	928.4	928.4
2.5°	1202.9	1211.9	1197.9	1198.9	1164.0	1148.0	1103.1	1076.7	1059.2	1010.3	965.8
5°	1445.5	1435.0	1424.1	1417.6	1387.1	1344.2	1288.3	1243.9	1202.9	1107.1	1014.8
7.5°	1594.3	1588.8	1581.3	1577.3	1547.3	1502.4	1446.5	1408.6	1349.2	1219.4	1074.2
10°	1720.5	1714.1	1709.6	1712.6	1688.1	1659.1	1598.3	1554.8	1487.9	1338.2	1146.0
12.5°	1818.4	1821.9	1823.4	1839.3	1828.9	1811.4	1748.5	1702.6	1628.2	1463.5	1230.4
15°	1895.7	1894.7	1912.2	1942.7	1959.6	1948.7	1898.2	1859.8	1769.0	1586.8	1321.2
17.5°	1913.7	1914.7	1942.2	1995.6	2051.0	2077.9	2049.5	2003.6	1913.7	1708.6	1415.6
20°	1928.2	1930.2	1958.6	2019.5	2100.4	2175.8	2180.3	2147.3	2069.9	1840.3	1511.4
22.5°	2019.5	2024.0	2031.5	2069.9	2142.8	2238.2	2290.6	2283.6	2218.7	1978.6	1614.7
25°	2259.6	2246.1	2209.7	2198.7	2226.7	2304.0	2393.4	2406.9	2374.9	2130.8	1726.0
27.5°	2556.1	2541.6	2487.7	2430.8	2370.4	2397.4	2492.7	2533.1	2533.6	2298.6	1837.8
30°	2825.1	2813.7	2769.7	2688.4	2584.1	2545.1	2615.5	2669.9	2702.4	2492.2	1965.1
32.5°	3055.3	3044.8	2985.4	2919.0	2817.2	2738.8	2764.3	2816.7	2892.5	2742.8	2123.4
35°	3248.9	3238.4	3181.5	3114.6	3020.3	2973.4	2964.4	3000.3	3098.7	3004.3	2305.0
37.5°	3406.1	3395.7	3336.3	3273.4	3201.5	3204.5	3218.0	3235.4	3291.8	3284.4	2499.2
40°	3508.0	3497.0	3454.6	3409.6	3364.2	3400.2	3467.0	3446.1	3476.0	3510.5	2677.9
42.5°	3553.4	3539.4	3515.0	3505.0	3491.0	3546.9	3675.7	3654.7	3618.8	3661.2	2810.7
45°	3508.0	3496.0	3495.5	3525.9	3558.4	3630.3	3819.9	3803.0	3712.1	3734.1	2890.0
47.5°	3368.7	3358.2	3386.7	3466.5	3546.4	3651.2	3884.3	3887.3	3778.5	3764.5	2941.4
50°	3067.7	3060.7	3143.1	3294.3	3432.1	3585.8	3863.9	3898.3	3794.5	3755.0	2935.0
52.5°	2455.8	2488.2	2667.4	2920.0	3187.5	3471.0	3788.0	3832.9	3717.6	3692.7	2900.0
55°	1681.1	1696.1	1875.3	2244.1	2668.4	3222.5	3613.8	3683.2	3626.8	3682.2	2936.5
57.5°	870.5	882.5	1023.7	1351.2	1809.9	2546.6	3130.1	3357.7	3443.6	3735.1	3049.8
60°	357.4	367.4	425.8	584.0	912.9	1483.0	2252.6	2590.1	2791.7	3411.1	2708.3
62.5°	259.6	264.5	292.5	348.4	478.2	726.8	1274.8	1399.1	1540.9	2137.8	1719.5
65°	218.6	224.1	246.6	280.5	348.9	445.7	544.6	547.6	603.5	871.0	637.4
67.5°	183.2	188.2	208.1	237.1	282.0	316.5	292.5	293.0	292.0	316.0	305.5
70°	142.8	146.7	166.7	197.7	221.1	203.2	228.6	253.1	242.6	252.1	266.5
72.5°	104.3	108.8	126.3	149.7	143.8	144.8	185.2	210.1	204.1	214.6	228.1
75°	75.4	78.4	87.3	74.9	78.9	95.3	130.3	143.8	149.7	158.7	170.7
77.5°	24.5	24.5	27.5	34.4	42.9	52.9	66.4	71.9	80.9	90.8	99.3
80°	12.5	13.0	15.5	19.0	24.0	30.4	38.9	41.4	45.9	51.4	54.9
82.5°	6.0	6.5	7.5	9.5	12.5	16.0	21.5	24.0	27.0	30.4	32.9
85°	1.5	1.5	2.0	3.0	4.0	6.0	8.0	9.5	12.0	14.5	16.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.5	1.5	2.0	2.5	3.0	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P631948

CATALOG NUMBER: GWS-SA2B-760-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	928.4	928.4	928.4	928.4	928.4	928.4	928.4	928.4	928.4	928.4	928.4
2.5°	945.9	917.9	882.0	851.5	823.6	802.1	783.7	774.7	766.2	760.2	762.2
5°	971.8	923.9	857.0	810.6	782.2	767.7	757.7	752.7	751.7	747.7	746.2
7.5°	1009.8	941.4	852.0	805.1	786.1	778.7	773.2	770.2	771.7	767.7	766.2
10°	1056.7	970.3	864.5	823.1	806.6	801.1	795.1	791.1	789.1	783.2	782.2
12.5°	1115.1	1006.3	887.0	846.0	829.6	820.1	812.1	805.1	800.6	793.1	791.1
15°	1178.0	1046.2	913.4	868.5	849.0	835.1	822.1	811.6	803.6	793.6	792.1
17.5°	1246.4	1088.1	935.4	884.0	859.0	840.6	821.6	806.1	795.1	782.2	780.7
20°	1317.7	1130.6	951.9	891.5	859.5	834.6	809.1	788.6	774.7	761.7	760.7
22.5°	1391.6	1169.5	961.8	889.5	851.5	820.6	790.1	767.2	750.7	735.2	734.2
25°	1466.0	1206.9	964.3	881.5	835.6	799.6	769.2	742.2	723.8	706.3	704.3
27.5°	1541.4	1238.4	958.4	865.5	814.1	775.2	744.7	718.3	699.3	681.8	678.8
30°	1621.7	1265.3	945.4	844.5	789.1	749.2	719.3	699.3	681.3	663.9	660.9
32.5°	1707.6	1288.8	926.9	819.1	760.2	723.3	701.3	683.3	665.4	649.9	646.9
35°	1809.9	1304.3	899.5	786.1	733.2	704.3	689.3	668.4	646.4	629.4	627.9
37.5°	1915.7	1316.2	866.5	754.7	709.8	693.3	680.8	652.4	624.9	604.5	602.0
40°	2018.0	1326.2	825.6	725.3	688.3	685.3	668.4	632.9	585.5	562.5	560.5
42.5°	2113.4	1329.2	782.7	693.8	668.9	667.4	648.4	593.5	557.0	542.6	540.6
45°	2178.8	1326.7	738.2	664.4	649.4	641.4	621.4	565.0	542.6	529.6	527.1
47.5°	2227.2	1313.7	688.3	633.4	627.4	616.4	573.5	547.1	526.1	513.1	510.6
50°	2218.7	1259.8	637.9	603.5	601.0	591.5	538.6	524.6	506.1	492.2	490.2
52.5°	2174.8	1157.5	586.5	570.5	575.5	557.0	513.6	497.6	481.7	465.7	462.2
55°	2185.7	1083.6	547.6	538.6	547.6	505.6	485.7	468.7	453.7	438.2	435.3
57.5°	2233.7	1010.8	506.1	504.1	513.6	466.2	449.7	428.3	406.8	394.3	394.3
60°	1875.8	736.7	433.3	438.2	459.7	434.3	419.8	397.8	374.4	363.4	363.4
62.5°	1109.1	462.2	359.4	353.9	367.4	383.3	391.3	373.4	345.4	330.9	331.4
65°	488.7	336.4	317.0	312.5	308.5	319.5	341.4	342.9	313.5	296.5	297.0
67.5°	301.0	304.5	296.5	293.0	289.5	287.5	285.5	286.5	278.5	263.0	262.5
70°	271.5	281.0	275.5	272.5	268.0	264.5	252.6	233.1	219.6	215.6	220.1
72.5°	233.6	246.6	243.6	242.1	236.6	228.1	212.1	193.2	177.2	167.2	169.2
75°	176.2	186.7	188.2	188.7	182.7	174.7	158.2	142.3	128.3	117.8	120.3
77.5°	101.3	107.3	108.8	110.3	105.8	102.8	91.8	80.4	72.9	61.9	64.9
80°	56.4	58.9	58.9	59.4	56.9	53.4	45.9	39.4	35.9	30.9	31.4
82.5°	33.9	34.9	35.4	35.9	34.4	30.9	25.5	21.0	19.0	16.5	16.0
85°	16.5	17.5	17.5	18.0	15.5	13.5	10.5	8.0	7.0	5.0	5.5
87.5°	4.0	4.5	4.5	4.0	3.5	2.5	1.5	0.5	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)