

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: P631838

Luminaire Tested: GWS-SA2B-740-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631838
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6073.8 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

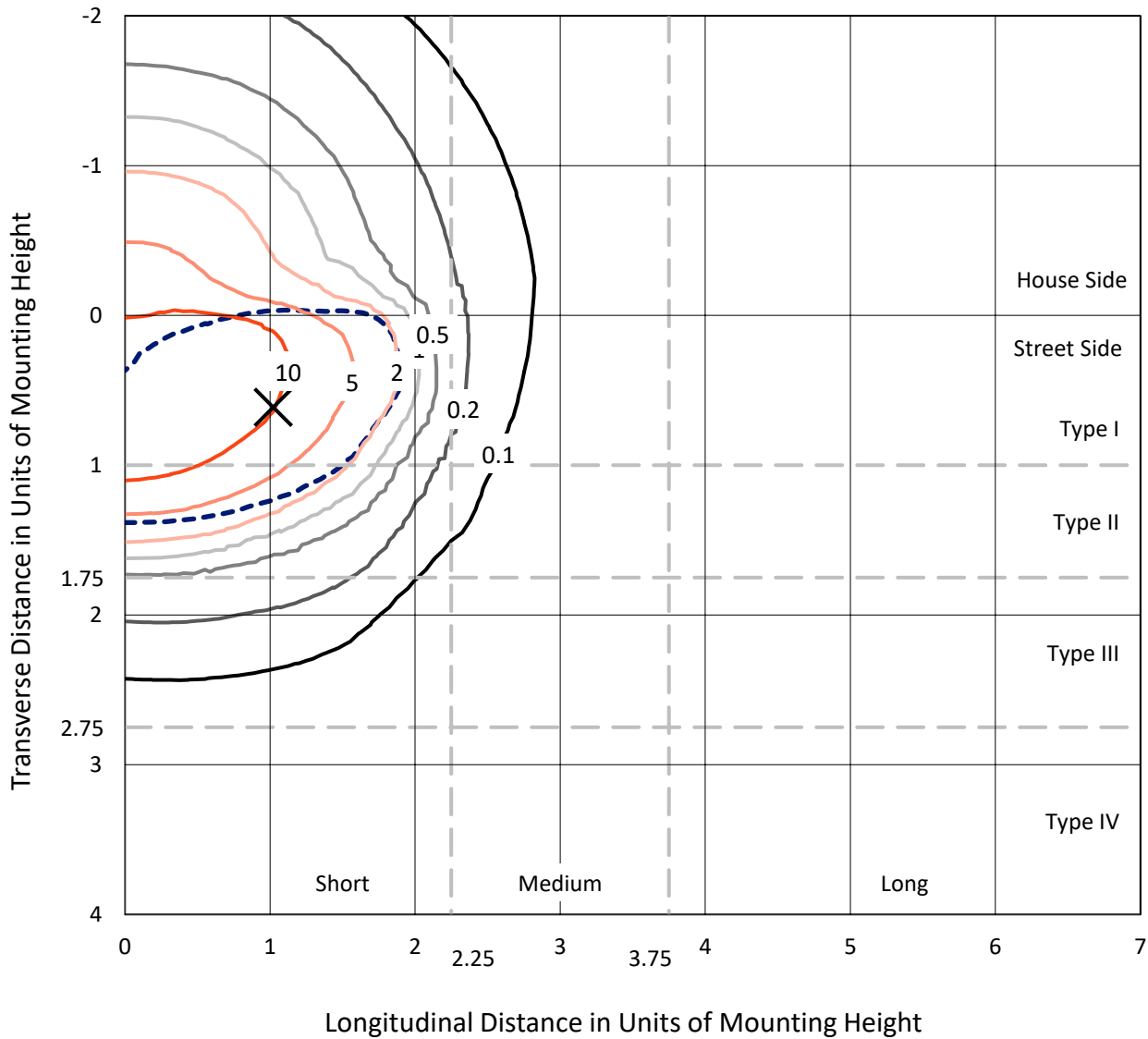
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631838
 CATALOG NUMBER: GWS-SA2B-740-U-T2R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

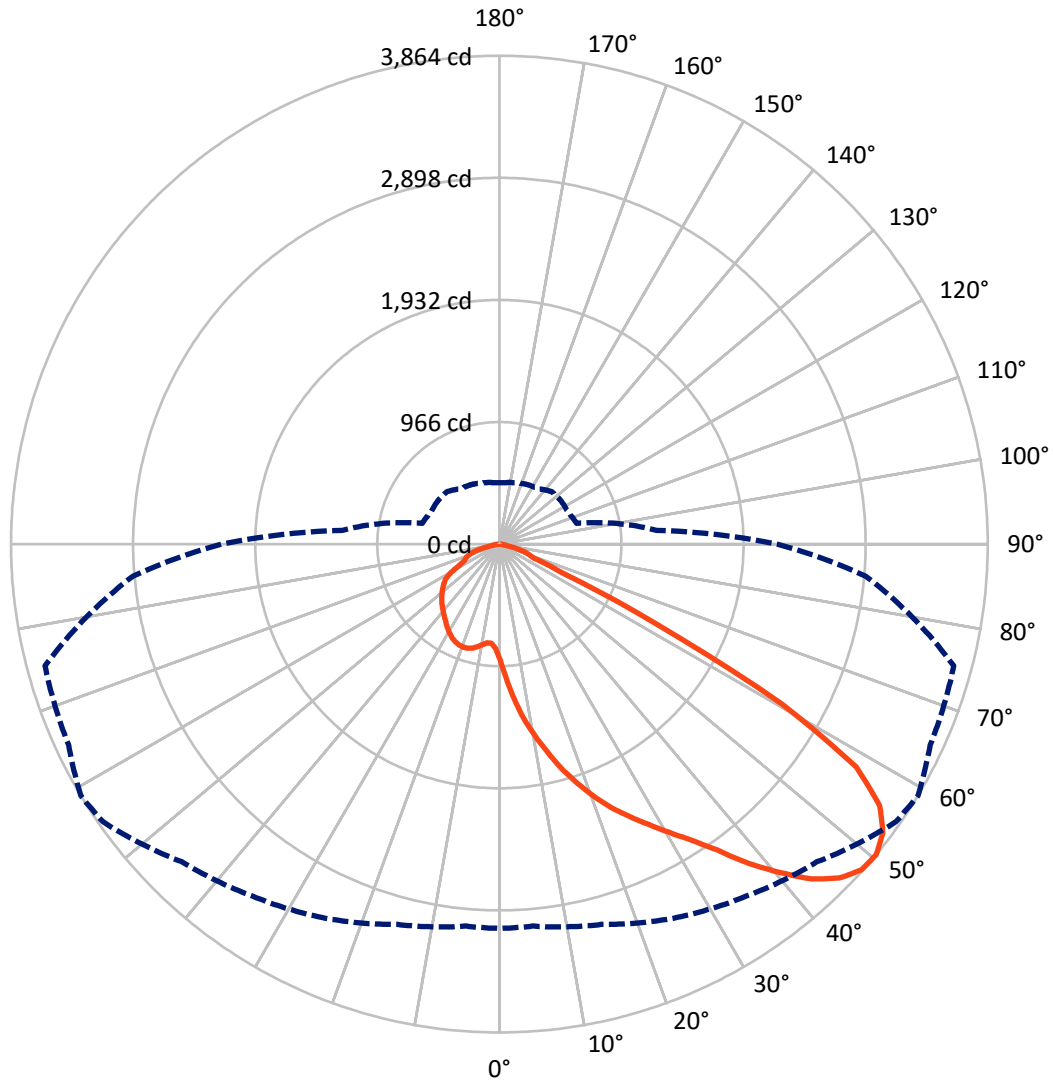
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.2 fc
 Type II - Short - N/A

REPORT NUMBER: P631838
CATALOG NUMBER: GWS-SA2B-740-U-T2R-W-GRSWH

Luminous Intensity Polar Plot



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



REPORT NUMBER: P631838

CATALOG NUMBER: GWS-SA2B-740-U-T2R-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1397.1	0.0	1397.1
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	4676.7	0.0	4676.7
	% Fixture	77.0	0.0	77.0
Total	Lumens	6073.8	0.0	6073.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.2	1.7
10°-20°	374.8	6.2
20°-30°	709.6	11.7
30°-40°	1176.8	19.4
40°-50°	1607.6	26.5
50°-60°	1459.3	24.0
60°-70°	485.9	8.0
70°-80°	141.7	2.3
80°-90°	14.9	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°	6073.8	100.0
0°-180°	6073.8	100.0

Coefficient of Utilization



REPORT NUMBER: P631838

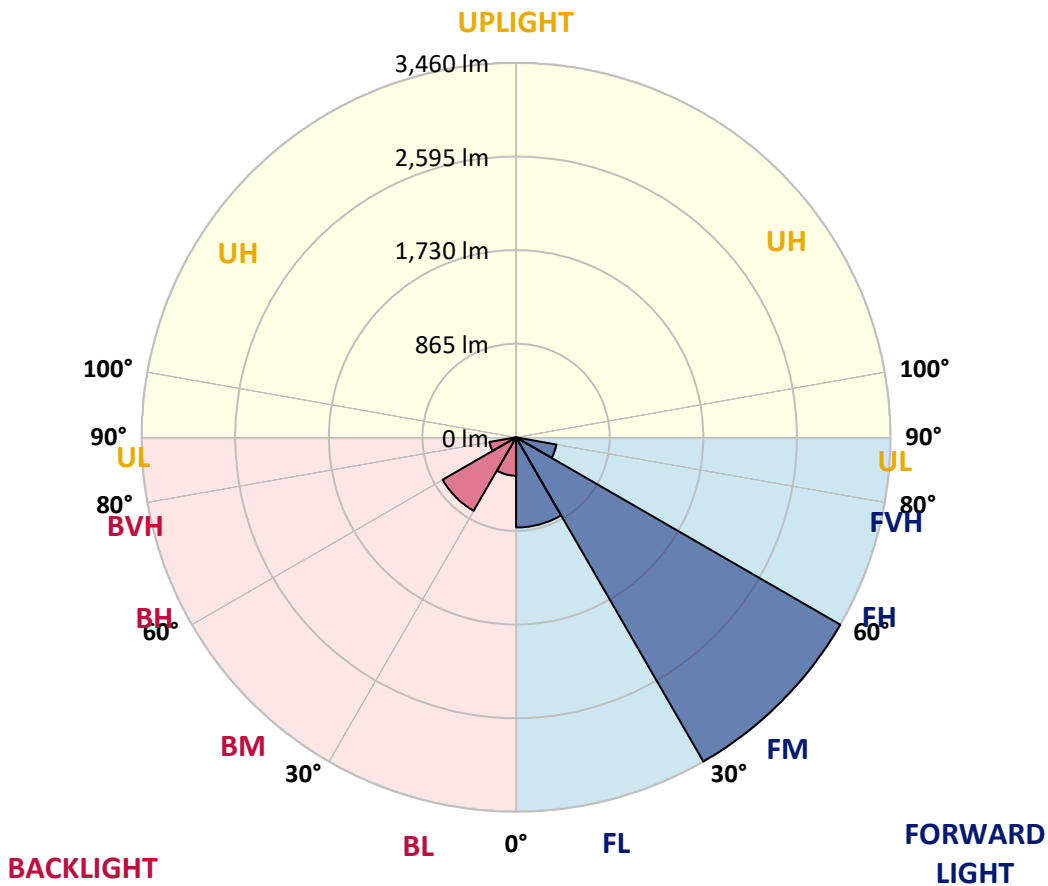
CATALOG NUMBER: GWS-SA2B-740-U-T2R-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	832.9	13.7			
FM (30°-60°)	3459.7	57.0			
FH (60°-80°)	378.3	6.2			G0/660
FVH (80°-90°)	5.8	0.1			G0/10
BL (0°-30°)	354.8	5.8	B1/500		
BM (30°-60°)	783.9	12.9	B1/1000		
BH (60°-80°)	249.4	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: P631838

CATALOG NUMBER: GWS-SA2B-740-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2
2.5°	1192.3	1201.2	1187.4	1188.4	1153.7	1137.9	1093.4	1067.2	1049.8	1001.4	957.3
5°	1432.8	1422.4	1411.5	1405.1	1374.9	1332.3	1276.9	1232.9	1192.3	1097.3	1005.8
7.5°	1580.2	1574.8	1567.3	1563.4	1533.7	1489.2	1433.8	1396.2	1337.3	1208.7	1064.7
10°	1705.4	1699.0	1694.5	1697.5	1673.2	1644.5	1584.2	1541.1	1474.8	1326.4	1135.9
12.5°	1802.4	1805.8	1807.3	1823.1	1812.7	1795.4	1733.1	1687.6	1613.9	1450.6	1219.5
15°	1879.0	1878.0	1895.4	1925.5	1942.4	1931.5	1881.5	1843.4	1753.4	1572.8	1309.6
17.5°	1896.8	1897.8	1925.0	1978.0	2032.9	2059.6	2031.4	1985.9	1896.8	1693.5	1403.1
20°	1911.2	1913.2	1941.4	2001.7	2081.9	2156.6	2161.0	2128.4	2051.7	1824.1	1498.1
22.5°	2001.7	2006.2	2013.6	2051.7	2123.9	2218.4	2270.4	2263.5	2199.1	1961.2	1600.5
25°	2239.7	2226.3	2190.2	2179.3	2207.1	2283.7	2372.3	2385.7	2354.0	2112.1	1710.8
27.5°	2533.6	2519.2	2465.8	2409.4	2349.5	2376.3	2470.8	2510.8	2511.3	2278.3	1821.6
30°	2800.3	2788.9	2745.3	2664.7	2561.3	2522.7	2592.5	2646.4	2678.5	2470.3	1947.8
32.5°	3028.3	3017.9	2959.1	2893.3	2792.3	2714.7	2739.9	2791.8	2867.0	2718.6	2104.6
35°	3220.3	3209.9	3153.5	3087.2	2993.7	2947.2	2938.3	2973.9	3071.4	2977.9	2284.7
37.5°	3376.1	3365.7	3306.9	3244.5	3173.3	3176.3	3189.6	3206.9	3262.8	3255.4	2477.2
40°	3477.1	3466.2	3424.1	3379.6	3334.6	3370.2	3436.5	3415.7	3445.4	3479.5	2654.3
42.5°	3522.1	3508.2	3484.0	3474.1	3460.2	3515.7	3643.3	3622.5	3586.9	3628.9	2785.9
45°	3477.1	3465.2	3464.7	3494.9	3527.0	3598.3	3786.3	3769.5	3679.4	3701.2	2864.6
47.5°	3339.0	3328.6	3356.8	3436.0	3515.2	3619.1	3850.1	3853.1	3745.2	3731.4	2915.5
50°	3040.7	3033.8	3115.4	3265.3	3401.9	3554.2	3829.8	3863.9	3761.0	3722.0	2909.1
52.5°	2434.1	2466.3	2643.9	2894.3	3159.4	3440.4	3754.6	3799.1	3684.9	3660.1	2874.5
55°	1666.3	1681.1	1858.8	2224.4	2644.9	3194.1	3581.9	3650.7	3594.8	3649.7	2910.6
57.5°	862.8	874.7	1014.7	1339.3	1793.9	2524.2	3102.5	3328.1	3413.2	3702.2	3022.9
60°	354.2	364.1	422.0	578.9	904.9	1469.9	2232.8	2567.2	2767.1	3381.1	2684.5
62.5°	257.3	262.2	289.9	345.3	474.0	720.3	1263.6	1386.8	1527.3	2119.0	1704.4
65°	216.7	222.1	244.4	278.0	345.8	441.8	539.8	542.7	598.1	863.3	631.8
67.5°	181.6	186.5	206.3	235.0	279.5	313.7	289.9	290.4	289.4	313.2	302.8
70°	141.5	145.5	165.2	195.9	219.2	201.4	226.6	250.8	240.4	249.8	264.2
72.5°	103.4	107.9	125.2	148.4	142.5	143.5	183.5	208.3	202.4	212.7	226.1
75°	74.7	77.7	86.6	74.2	78.2	94.5	129.1	142.5	148.4	157.3	169.2
77.5°	24.2	24.2	27.2	34.1	42.5	52.4	65.8	71.2	80.1	90.0	98.5
80°	12.4	12.9	15.3	18.8	23.7	30.2	38.6	41.1	45.5	51.0	54.4
82.5°	5.9	6.4	7.4	9.4	12.4	15.8	21.3	23.7	26.7	30.2	32.7
85°	1.5	1.5	2.0	3.0	4.0	5.9	7.9	9.4	11.9	14.3	15.8
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: P631838
 CATALOG NUMBER: GWS-SA2B-740-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2
2.5°	937.5	909.8	874.2	844.0	816.3	795.1	776.7	767.8	759.4	753.5	755.5
5°	963.3	915.8	849.5	803.5	775.3	760.9	751.0	746.1	745.1	741.1	739.6
7.5°	1000.9	933.1	844.5	798.0	779.2	771.8	766.4	763.4	764.9	760.9	759.4
10°	1047.4	961.8	856.9	815.8	799.5	794.1	788.1	784.2	782.2	776.3	775.3
12.5°	1105.3	997.4	879.2	838.6	822.3	812.9	804.9	798.0	793.6	786.1	784.2
15°	1167.6	1037.0	905.4	860.9	841.6	827.7	814.8	804.5	796.5	786.6	785.2
17.5°	1235.4	1078.5	927.2	876.2	851.5	833.1	814.3	799.0	788.1	775.3	773.8
20°	1306.1	1120.6	943.5	883.6	851.9	827.2	802.0	781.7	767.8	755.0	754.0
22.5°	1379.3	1159.2	953.4	881.6	844.0	813.4	783.2	760.4	744.1	728.8	727.8
25°	1453.1	1196.3	955.8	873.7	828.2	792.6	762.4	735.7	717.4	700.1	698.1
27.5°	1527.8	1227.5	949.9	857.9	806.9	768.3	738.2	711.9	693.1	675.8	672.9
30°	1607.4	1254.2	937.0	837.1	782.2	742.6	712.9	693.1	675.3	658.0	655.0
32.5°	1692.5	1277.4	918.7	811.9	753.5	716.9	695.1	677.3	659.5	644.2	641.2
35°	1793.9	1292.8	891.5	779.2	726.8	698.1	683.2	662.5	640.7	623.9	622.4
37.5°	1898.8	1304.6	858.9	748.1	703.5	687.2	674.8	646.6	619.4	599.1	596.7
40°	2000.2	1314.5	818.3	718.9	682.3	679.3	662.5	627.3	580.3	557.6	555.6
42.5°	2094.7	1317.5	775.8	687.7	663.0	661.5	642.7	588.3	552.1	537.8	535.8
45°	2159.6	1315.0	731.7	658.5	643.7	635.7	616.0	560.1	537.8	524.9	522.4
47.5°	2207.5	1302.2	682.3	627.8	621.9	611.0	568.5	542.2	521.5	508.6	506.1
50°	2199.1	1248.7	632.3	598.1	595.7	586.3	533.8	520.0	501.7	487.8	485.8
52.5°	2155.6	1147.3	581.3	565.5	570.4	552.1	509.1	493.3	477.4	461.6	458.1
55°	2166.5	1074.1	542.7	533.8	542.7	501.2	481.4	464.6	449.7	434.4	431.4
57.5°	2214.0	1001.9	501.7	499.7	509.1	462.1	445.8	424.5	403.2	390.8	390.8
60°	1859.2	730.2	429.4	434.4	455.7	430.4	416.1	394.3	371.1	360.2	360.2
62.5°	1099.3	458.1	356.2	350.8	364.1	380.0	387.9	370.1	342.4	328.0	328.5
65°	484.4	333.5	314.2	309.7	305.8	316.6	338.4	339.9	310.7	293.9	294.4
67.5°	298.3	301.8	293.9	290.4	287.0	285.0	283.0	284.0	276.1	260.7	260.2
70°	269.1	278.5	273.1	270.1	265.7	262.2	250.3	231.0	217.7	213.7	218.2
72.5°	231.5	244.4	241.4	240.0	234.5	226.1	210.3	191.5	175.6	165.7	167.7
75°	174.6	185.0	186.5	187.0	181.1	173.2	156.8	141.0	127.1	116.8	119.2
77.5°	100.4	106.4	107.9	109.3	104.9	101.9	91.0	79.7	72.2	61.3	64.3
80°	55.9	58.4	58.4	58.9	56.4	52.9	45.5	39.1	35.6	30.7	31.2
82.5°	33.6	34.6	35.1	35.6	34.1	30.7	25.2	20.8	18.8	16.3	15.8
85°	16.3	17.3	17.3	17.8	15.3	13.4	10.4	7.9	6.9	4.9	5.4
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)