

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: P631400

Luminaire Tested: GWS-SA1F-750-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631400
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-750-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (16) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8787.6 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

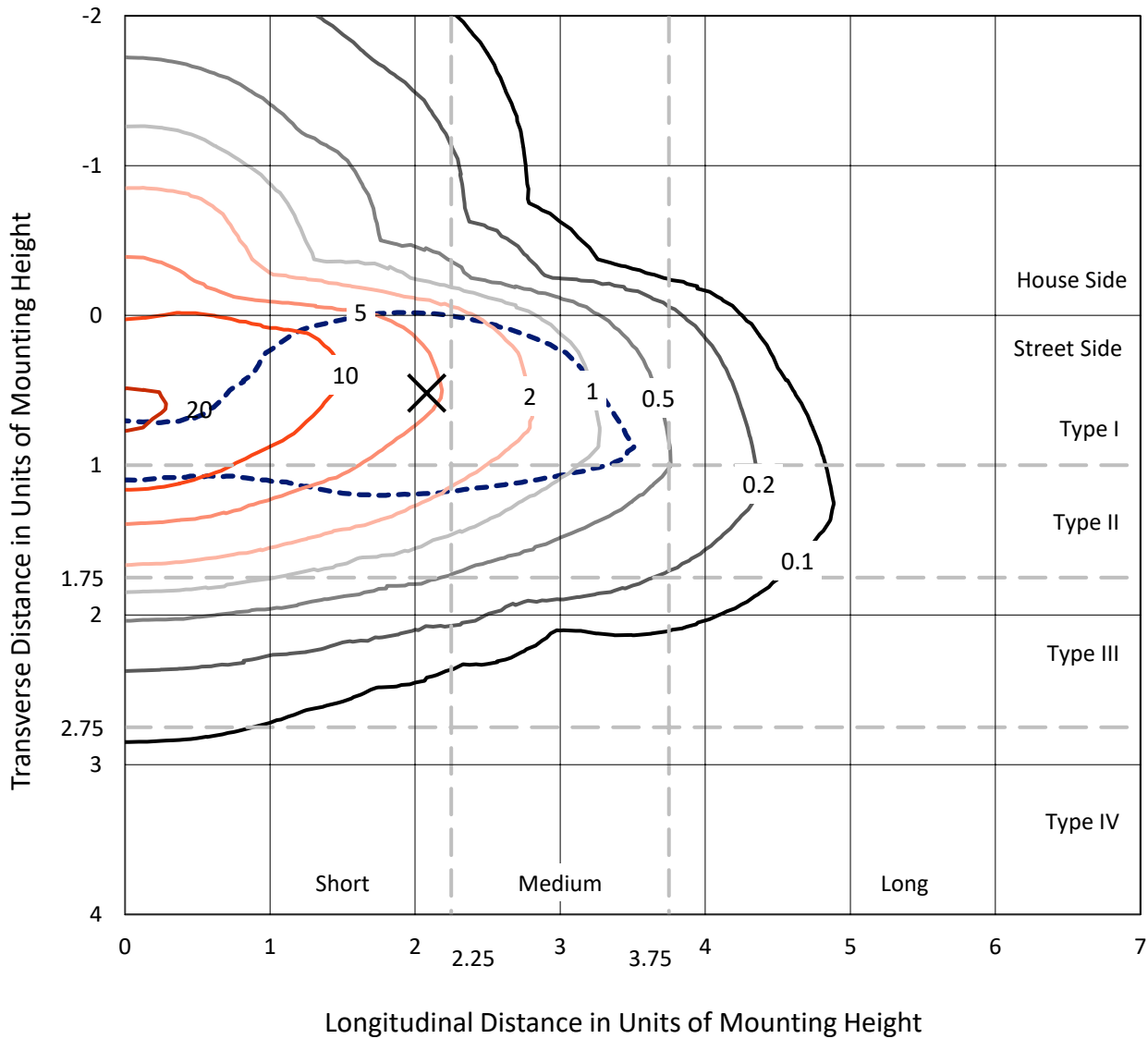
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

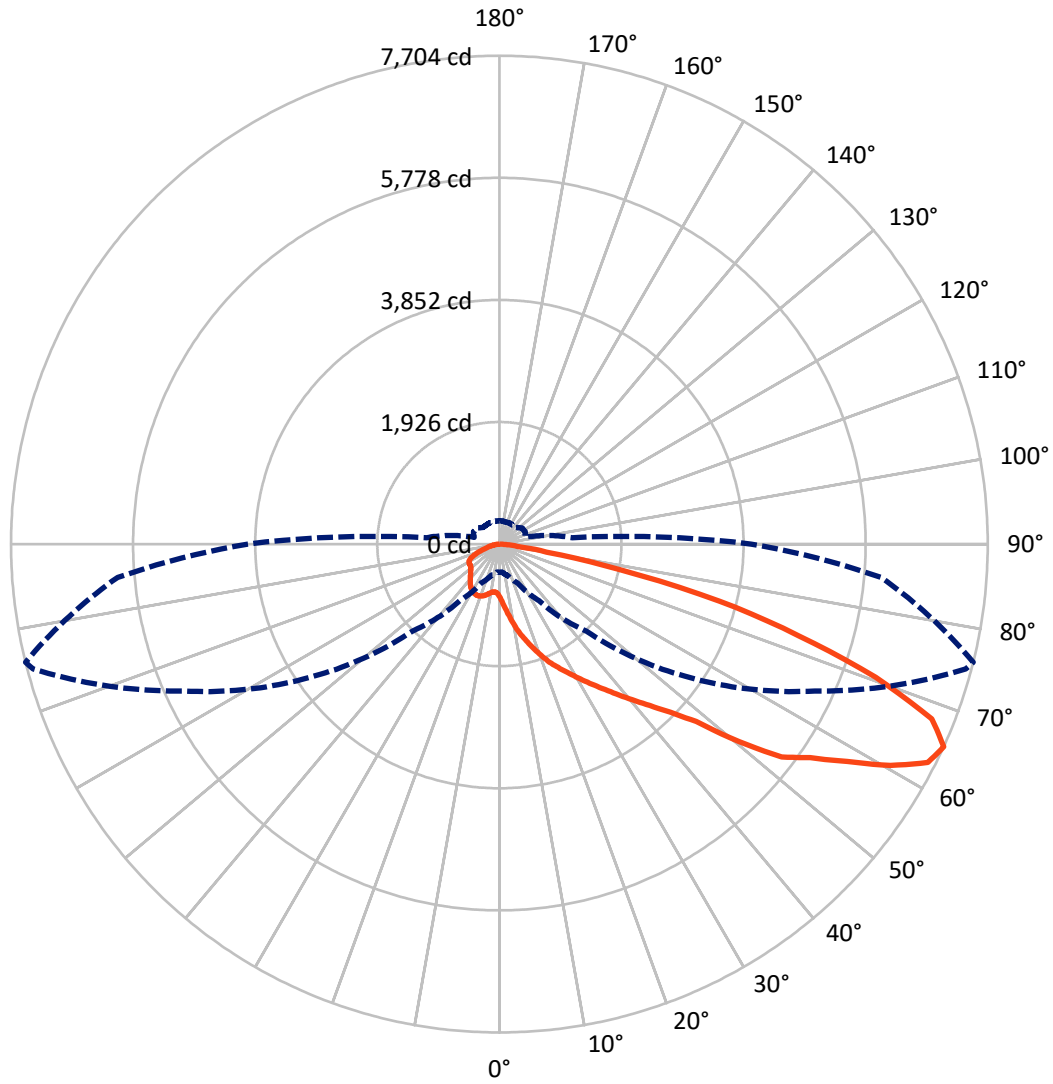
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1468.9	0.0	1468.9
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	7318.7	0.0	7318.7
	% Fixture	83.3	0.0	83.3
Total	Lumens	8787.6	0.0	8787.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	1.1
10°-20°	376.6	4.3
20°-30°	733.9	8.4
30°-40°	1227.4	14.0
40°-50°	1757.3	20.0
50°-60°	2080.4	23.7
60°-70°	1729.9	19.7
70°-80°	707.9	8.1
80°-90°	75.4	0.9
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°	8787.6	100.0
0°-180°	8787.6	100.0

Coefficient of Utilization



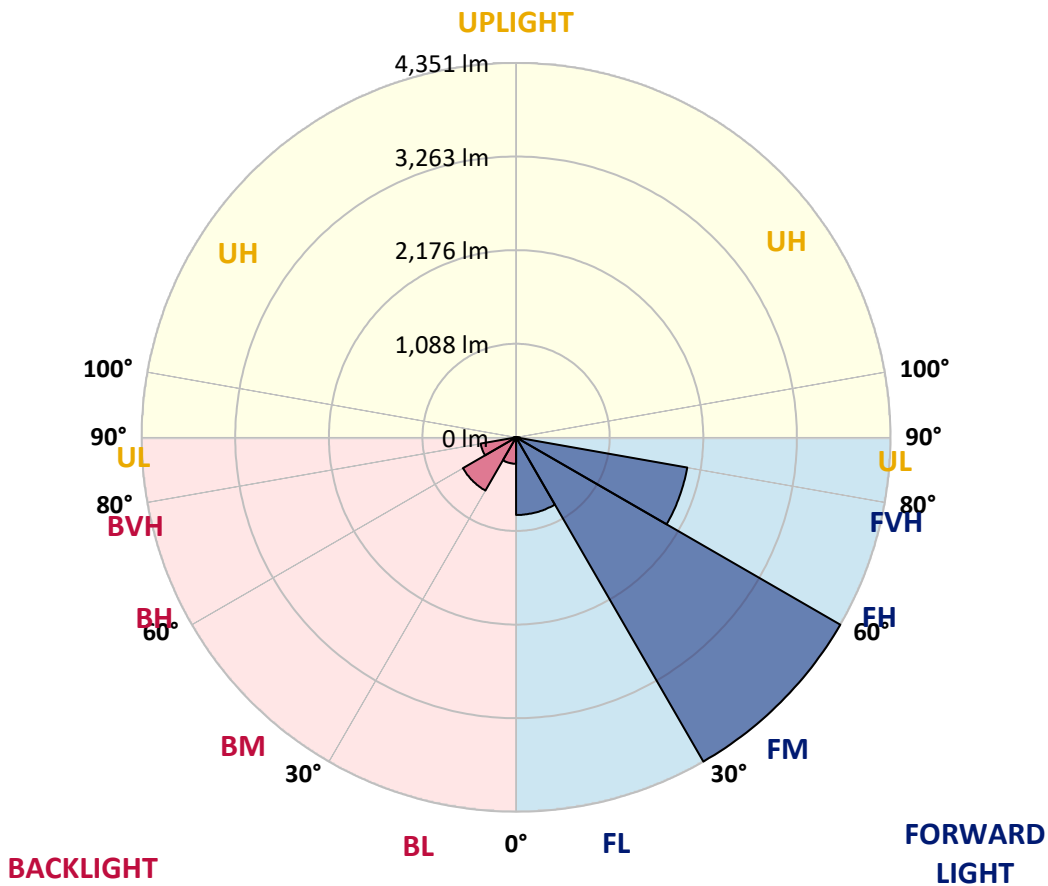
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	902.0	10.3			
FM (30°-60°)	4351.3	49.5			
FH (60°-80°)	2020.5	23.0			G2/5000
FVH (80°-90°)	44.9	0.5			G1/100
BL (0°-30°)	307.3	3.5	B1/500		
BM (30°-60°)	713.8	8.1	B1/1000		
BH (60°-80°)	417.3	4.7	B1/500		G1/500
BVH (80°-90°)	30.4	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	832.2	832.2	832.2	832.2	832.2	832.2	832.2	832.2	832.2	832.2	832.2
2.5°	1166.4	1170.7	1156.5	1151.5	1118.2	1073.1	1035.4	978.6	926.1	918.0	871.1
5°	1481.4	1462.9	1446.8	1436.3	1390.0	1338.7	1259.0	1152.2	1040.3	1026.8	925.4
7.5°	1668.6	1665.5	1645.8	1639.6	1603.8	1552.5	1470.3	1337.5	1175.0	1152.8	999.0
10°	1818.8	1816.9	1807.0	1812.6	1779.8	1729.8	1650.1	1512.9	1322.7	1300.4	1081.1
12.5°	1949.7	1952.8	1951.0	1971.3	1954.7	1915.7	1833.0	1682.2	1470.3	1446.2	1181.2
15°	2045.5	2047.9	2057.2	2101.7	2111.0	2102.9	2018.9	1848.4	1616.1	1581.5	1284.4
17.5°	2072.7	2077.6	2099.8	2171.5	2221.5	2254.9	2192.5	2017.7	1759.4	1721.8	1389.4
20°	2109.1	2114.7	2136.9	2211.7	2285.2	2361.2	2350.0	2189.4	1904.0	1873.1	1495.7
22.5°	2277.8	2273.4	2263.6	2299.4	2351.9	2446.4	2474.2	2354.4	2053.5	2023.9	1613.0
25°	2602.7	2594.7	2531.7	2498.9	2481.6	2539.1	2588.5	2504.5	2199.3	2154.8	1722.4
27.5°	2961.0	2956.7	2876.4	2798.6	2692.3	2667.6	2696.6	2635.5	2340.8	2295.7	1817.5
30°	3300.2	3287.2	3203.2	3105.6	2963.5	2857.2	2814.6	2764.0	2495.8	2448.9	1928.7
32.5°	3603.5	3586.8	3488.0	3379.9	3231.0	3105.6	2978.3	2900.5	2671.3	2616.9	2042.4
35°	3852.5	3835.8	3734.5	3619.6	3455.9	3363.2	3189.0	3048.8	2849.8	2794.8	2176.4
37.5°	4045.2	4029.8	3924.2	3811.1	3668.4	3594.9	3443.5	3215.6	3055.6	2998.1	2318.5
40°	4153.4	4142.2	4057.6	3968.0	3848.2	3784.5	3716.6	3426.2	3286.0	3228.5	2486.0
42.5°	4186.1	4178.7	4119.4	4073.0	3992.1	3943.9	3982.8	3674.0	3531.9	3481.8	2674.4
45°	4103.9	4103.9	4086.6	4110.1	4113.8	4113.2	4249.7	3953.8	3834.0	3779.0	2940.0
47.5°	3893.9	3907.5	3932.8	4048.3	4170.0	4272.0	4561.7	4326.9	4222.5	4177.4	3316.3
50°	3509.6	3546.7	3633.2	3858.7	4117.5	4377.0	4857.0	4878.6	4978.1	4898.4	3869.8
52.5°	2946.8	2941.3	3161.8	3483.1	3877.8	4381.3	5019.5	5365.4	5632.9	5578.0	4281.2
55°	2342.0	2332.7	2538.5	2981.4	3510.2	4215.7	5117.1	5588.5	5996.2	5946.8	4651.3
57.5°	1793.4	1781.7	1964.5	2364.3	2991.3	3864.2	5098.6	5854.1	6496.0	6470.7	5154.2
60°	1234.3	1220.1	1391.2	1740.9	2377.2	3326.8	4893.5	5990.6	7081.0	7089.7	5692.2
62.5°	741.3	733.3	857.5	1128.7	1710.0	2660.8	4413.4	5907.9	7546.8	7585.8	6038.2
65°	447.3	441.7	514.6	673.4	1084.8	1941.7	3673.3	5484.7	7614.2	7703.7	6046.2
67.5°	325.6	326.2	347.2	410.2	632.6	1254.1	2756.5	4726.0	7263.3	7355.9	5665.1
70°	282.9	284.2	295.3	309.5	382.4	717.9	1792.2	3730.8	6226.0	6297.7	4751.4
72.5°	251.4	251.4	258.9	266.3	299.0	437.4	960.0	2607.7	4913.8	4933.0	3626.4
75°	221.2	219.3	223.0	226.7	259.5	305.8	467.0	1816.9	3629.5	3585.0	2343.9
77.5°	176.1	174.2	174.8	178.5	208.2	218.7	236.6	1134.9	2045.5	1930.6	1035.4
80°	125.4	124.2	131.0	140.2	153.8	134.1	148.3	549.2	811.1	754.9	401.6
82.5°	74.8	77.2	87.7	95.1	106.3	84.0	95.8	183.5	287.3	279.9	163.1
85°	10.5	11.1	31.5	36.4	45.7	32.7	50.7	82.8	114.9	122.9	57.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.3	14.8	32.7	33.4	14.2
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°	832.2	832.2	832.2	832.2	832.2	832.2	832.2	832.2	832.2	832.2	832.2
2.5°	847.0	817.9	776.6	742.0	712.9	689.4	669.7	654.8	650.5	644.3	644.3
5°	877.9	825.4	751.2	698.7	668.4	650.5	638.2	632.0	628.9	625.2	623.3
7.5°	920.5	847.0	746.9	693.8	670.3	659.2	651.1	647.4	645.0	641.3	641.3
10°	979.2	879.1	760.5	711.1	692.5	681.4	672.1	666.0	660.4	654.8	653.6
12.5°	1042.8	921.1	785.2	734.5	714.8	701.2	688.2	678.9	672.1	665.4	663.5
15°	1113.2	964.4	811.8	757.4	732.7	714.2	698.7	684.5	675.2	665.4	664.1
17.5°	1182.4	1008.2	834.0	772.8	741.3	718.5	696.2	677.7	666.0	654.8	651.8
20°	1265.2	1052.1	849.5	777.2	739.5	709.2	682.6	659.2	646.2	633.2	631.4
22.5°	1341.2	1092.9	856.9	771.0	725.3	689.4	658.6	633.2	619.0	606.0	603.6
25°	1414.7	1128.7	853.8	756.2	703.7	662.3	630.1	604.8	591.2	577.6	573.9
27.5°	1485.8	1152.8	841.4	733.3	676.5	632.0	601.1	578.2	566.5	554.8	549.8
30°	1555.6	1175.0	822.3	703.7	641.9	600.5	575.2	559.1	547.4	535.0	531.3
32.5°	1626.0	1191.1	793.2	669.1	606.7	572.7	557.2	545.5	533.1	520.8	517.1
35°	1697.0	1197.9	758.0	629.5	577.0	554.8	549.2	535.6	518.9	504.1	499.2
37.5°	1781.7	1204.1	714.2	590.6	551.1	546.1	544.9	524.5	504.7	484.3	478.8
40°	1883.6	1212.1	669.1	555.4	530.1	543.0	538.1	510.3	470.8	451.0	444.8
42.5°	2008.4	1226.9	622.1	523.3	514.6	531.3	525.7	475.7	449.1	438.0	434.9
45°	2191.9	1281.3	575.2	497.9	502.9	514.6	506.0	455.3	444.8	437.4	433.7
47.5°	2518.7	1364.7	534.4	478.8	493.6	499.8	466.4	449.7	441.7	431.8	427.5
50°	2858.5	1401.1	501.6	467.0	483.1	486.2	444.8	442.3	436.8	426.3	421.9
52.5°	3088.3	1396.2	481.9	462.7	474.5	462.7	434.9	434.3	430.6	418.2	413.3
55°	3347.8	1404.8	473.2	464.0	470.8	423.2	422.6	424.4	422.6	409.0	406.5
57.5°	3698.0	1431.4	468.9	468.3	468.3	404.0	410.8	413.3	409.6	403.4	401.6
60°	4034.7	1433.3	460.9	473.2	466.4	392.3	397.2	399.7	395.4	394.1	393.5
62.5°	4161.4	1344.3	443.0	469.5	459.0	379.3	383.0	384.3	379.9	383.0	382.4
65°	3973.0	1155.3	413.3	451.6	436.2	367.6	365.1	368.2	360.8	368.8	369.4
67.5°	3527.5	918.0	368.2	417.6	404.0	354.6	349.7	349.7	337.3	349.7	349.0
70°	2844.3	648.7	302.1	363.3	368.8	339.2	336.7	322.5	302.7	321.2	319.4
72.5°	2156.1	465.8	237.8	287.3	317.5	317.5	318.2	294.1	271.2	279.9	272.4
75°	1365.9	328.0	190.3	219.9	249.0	278.6	292.8	248.3	228.0	224.3	220.5
77.5°	615.3	215.6	148.3	168.7	176.7	219.9	267.5	213.8	186.0	177.9	175.5
80°	257.6	134.1	105.6	119.2	108.7	184.7	236.0	166.2	136.5	125.4	117.4
82.5°	113.1	79.7	67.3	64.2	68.0	137.1	176.1	110.6	85.3	115.5	116.8
85°	47.6	42.0	34.6	31.5	27.8	52.5	82.8	43.2	53.1	30.3	24.7
87.5°	11.1	12.4	9.3	6.2	3.7	0.6	0.0	0.0	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)