

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: P631258

Luminaire Tested: GWS-SA1F-735-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-735-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7538.3 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

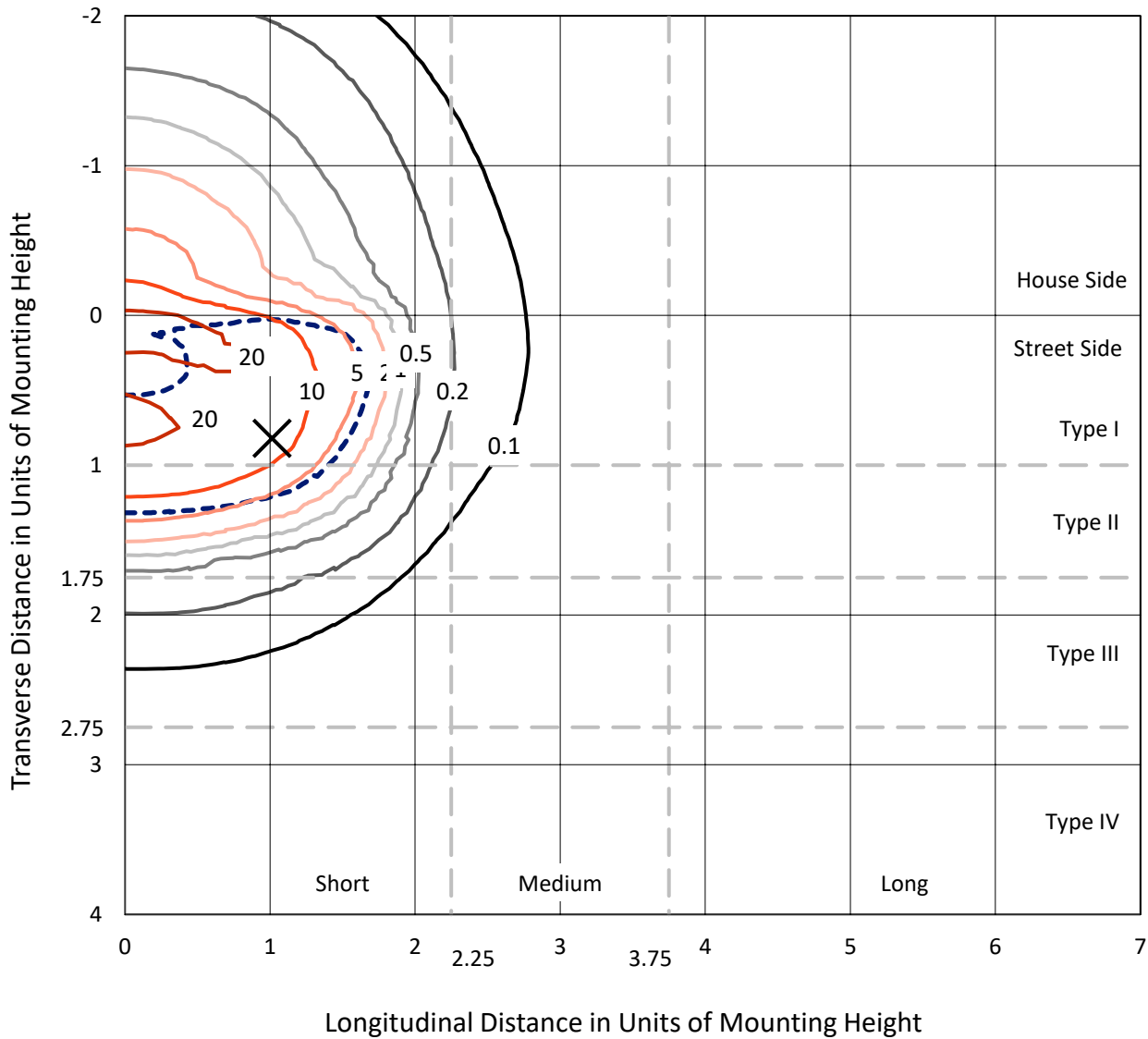
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

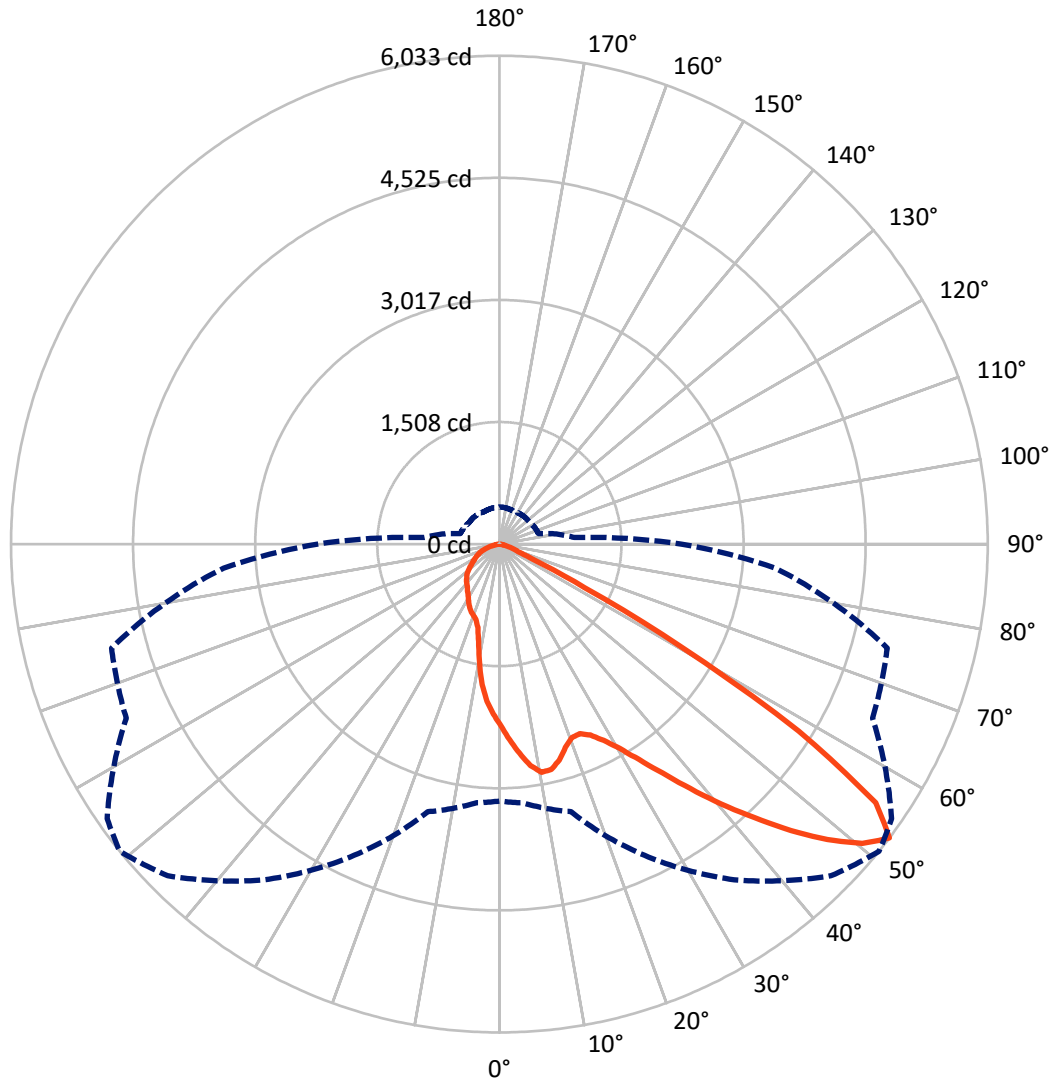
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 27.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1468.8	0.0	1468.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	6069.5	0.0	6069.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	7538.3	0.0	7538.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.4	2.8
10°-20°	544.2	7.2
20°-30°	884.9	11.7
30°-40°	1402.3	18.6
40°-50°	2115.0	28.1
50°-60°	1829.6	24.3
60°-70°	414.8	5.5
70°-80°	122.3	1.6
80°-90°	15.8	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°	7538.3	100.0
0°-180°	7538.3	100.0

Coefficient of Utilization



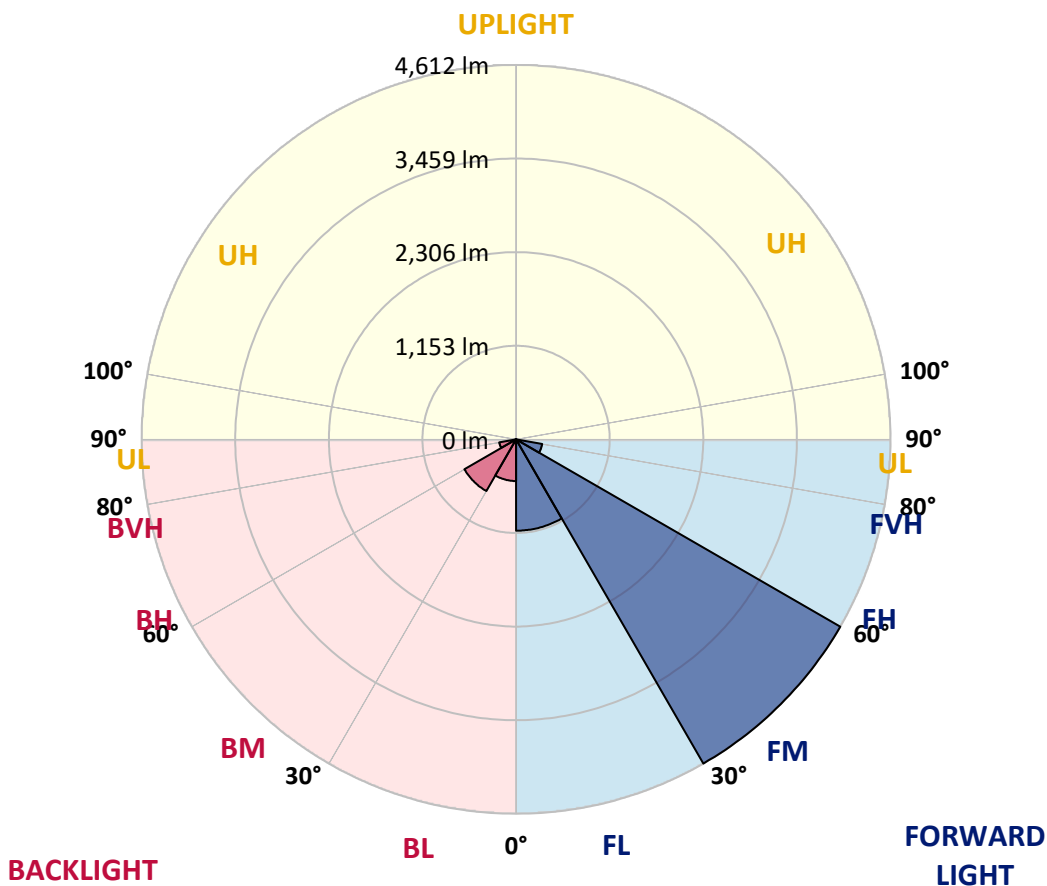
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1125.1	14.9			
FM (30°-60°)	4612.0	61.2			
FH (60°-80°)	326.4	4.3			G0/660
FVH (80°-90°)	5.9	0.1			G0/10
BL (0°-30°)	513.4	6.8	B2/1000		
BM (30°-60°)	734.9	9.7	B1/1000		
BH (60°-80°)	210.7	2.8	B1/500		G1/500
BVH (80°-90°)	9.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	2244.5	2244.5	2244.5	2244.5	2244.5	2244.5	2244.5	2244.5	2244.5	2244.5	2244.5
2.5°	2501.3	2515.6	2493.5	2485.2	2471.5	2447.7	2420.3	2412.5	2353.5	2314.8	2271.3
5°	2752.6	2760.4	2742.5	2724.6	2690.7	2648.4	2595.4	2584.1	2476.8	2388.1	2295.8
7.5°	2808.6	2805.7	2821.1	2831.3	2827.1	2810.4	2763.4	2741.3	2613.3	2472.7	2336.3
10°	2587.0	2570.4	2627.6	2695.5	2777.1	2871.2	2865.8	2864.0	2752.6	2586.4	2388.1
12.5°	2293.4	2285.0	2331.5	2416.7	2571.0	2779.5	2857.5	2918.2	2878.3	2694.9	2445.9
15°	2125.4	2122.4	2154.0	2215.3	2338.1	2601.3	2768.1	2888.5	2986.2	2811.0	2507.2
17.5°	2095.0	2096.8	2107.5	2142.7	2230.8	2447.7	2640.7	2808.6	3070.1	2938.5	2584.1
20°	2183.8	2195.7	2177.2	2182.6	2230.2	2392.3	2553.7	2728.2	3123.8	3066.6	2666.9
22.5°	2380.9	2376.8	2336.3	2312.4	2313.0	2426.2	2544.2	2690.7	3158.9	3191.1	2741.9
25°	2604.3	2599.6	2551.3	2498.3	2464.9	2518.5	2612.7	2730.6	3190.5	3304.8	2802.1
27.5°	2868.2	2853.3	2799.7	2731.8	2657.9	2681.2	2744.9	2838.4	3239.3	3416.8	2842.0
30°	3123.8	3141.0	3064.2	2983.8	2905.7	2891.4	2928.4	3013.0	3338.8	3547.9	2889.7
32.5°	3462.7	3456.7	3371.6	3266.7	3155.3	3144.6	3173.8	3251.2	3517.5	3729.0	2962.3
35°	3873.1	3874.3	3753.4	3611.6	3453.2	3424.6	3473.4	3548.5	3783.8	3974.4	3077.3
37.5°	4299.6	4297.8	4192.4	4031.6	3815.3	3774.8	3830.8	3886.8	4116.8	4308.6	3256.0
40°	4598.7	4610.6	4561.1	4476.5	4271.6	4172.7	4222.2	4260.9	4478.9	4701.7	3491.3
42.5°	4768.4	4786.3	4797.0	4847.7	4739.8	4634.4	4616.5	4636.8	4802.4	5066.9	3712.3
45°	4804.8	4828.6	4906.6	5094.3	5136.0	5106.2	5047.8	4999.0	5043.6	5326.0	3857.0
47.5°	4644.5	4686.2	4853.0	5181.2	5424.9	5518.4	5453.5	5379.0	5183.0	5392.7	3842.1
50°	4009.5	4058.4	4434.3	5003.7	5466.0	5806.7	5812.7	5702.5	5166.3	5200.3	3655.1
52.5°	3174.4	3207.7	3422.8	4241.8	5062.7	5794.8	6033.1	5915.1	5085.9	4959.6	3421.0
55°	1897.2	1950.9	2151.6	2798.5	3944.0	5136.0	5643.5	5700.7	5046.6	4757.7	3261.4
57.5°	640.4	666.6	858.4	1236.0	2324.3	3760.5	4360.4	4592.7	4581.4	4449.1	2949.8
60°	305.0	310.9	349.7	468.8	930.5	1965.2	2581.1	2849.1	3093.4	3117.8	1835.3
62.5°	232.3	235.9	255.5	281.2	374.1	828.0	1183.0	1387.9	1482.7	1272.4	668.4
65°	194.2	197.2	212.1	228.1	254.4	358.6	453.9	523.6	471.8	367.5	318.7
67.5°	162.0	164.4	175.7	193.0	210.9	240.1	252.0	259.1	271.6	305.0	293.1
70°	126.9	129.3	141.2	156.1	173.3	180.5	191.8	199.0	224.0	266.9	265.7
72.5°	97.7	100.7	107.2	116.8	131.0	138.2	150.7	159.0	173.3	207.9	222.2
75°	71.5	73.3	79.2	82.2	84.0	82.2	94.7	104.2	123.3	136.4	140.0
77.5°	29.2	32.8	31.6	31.6	37.5	45.3	51.8	57.8	70.9	78.6	79.2
80°	11.9	13.1	15.5	17.3	20.8	26.8	31.0	33.4	39.3	44.1	47.7
82.5°	7.1	7.7	8.9	9.5	11.9	15.5	17.9	19.7	24.4	29.2	31.0
85°	3.6	3.6	4.2	4.8	6.0	7.1	8.3	9.5	12.5	15.5	17.3
87.5°	0.6	0.6	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	6.0
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°	2244.5	2244.5	2244.5	2244.5	2244.5	2244.5	2244.5	2244.5	2244.5	2244.5	2244.5
2.5°	2245.7	2213.6	2176.0	2146.2	2111.7	2086.1	2049.7	2027.1	2005.7	1987.8	1974.7
5°	2248.1	2193.9	2115.9	2046.8	1975.3	1907.4	1837.7	1781.1	1730.5	1688.2	1684.6
7.5°	2261.8	2183.8	2061.7	1940.7	1801.3	1666.7	1532.1	1422.5	1339.1	1295.6	1286.7
10°	2285.0	2182.6	2006.3	1813.3	1575.6	1358.7	1199.1	1115.7	1067.5	1050.2	1044.2
12.5°	2309.5	2179.6	1935.4	1633.4	1303.4	1113.3	1025.8	1015.6	1024.6	1025.8	1025.2
15°	2339.2	2177.8	1846.0	1422.5	1104.4	999.6	1005.5	1027.0	1047.8	1052.6	1052.6
17.5°	2375.6	2173.6	1724.5	1216.4	979.9	977.5	1009.1	1037.7	1057.3	1060.9	1060.9
20°	2413.7	2162.9	1575.0	1048.4	929.3	963.8	997.8	1019.8	1033.5	1038.3	1038.9
22.5°	2439.9	2134.3	1402.8	923.9	897.7	937.6	962.0	984.7	984.7	972.7	969.2
25°	2445.3	2073.0	1216.4	838.7	860.2	897.1	922.1	909.0	884.6	875.1	874.5
27.5°	2425.6	1983.6	1032.3	778.0	814.9	851.8	847.7	828.6	817.9	808.3	811.9
30°	2401.8	1876.4	872.7	727.9	762.5	798.8	784.5	778.0	770.2	759.5	761.9
32.5°	2385.7	1756.7	750.0	689.2	727.3	733.3	743.4	742.8	735.7	715.4	714.2
35°	2390.5	1635.7	667.8	657.6	698.1	695.8	714.8	711.2	661.8	633.8	632.0
37.5°	2428.6	1519.6	619.5	632.6	651.7	666.6	683.2	640.4	623.1	605.2	606.4
40°	2501.3	1411.8	593.3	618.9	623.7	645.7	607.0	606.4	598.7	582.6	582.0
42.5°	2583.5	1320.6	575.4	612.4	605.8	610.0	568.9	573.6	573.0	562.9	559.9
45°	2633.5	1236.6	561.1	587.9	589.7	548.0	535.5	540.9	543.9	538.5	537.9
47.5°	2581.7	1140.1	546.2	550.4	565.9	520.0	504.5	505.1	510.5	511.1	508.7
50°	2436.3	1032.3	528.4	518.2	508.1	490.8	476.5	473.6	478.9	484.3	486.1
52.5°	2248.7	929.3	498.6	483.1	459.3	459.3	452.7	443.2	450.3	457.5	459.9
55°	2111.1	853.0	456.3	439.0	412.8	421.7	420.6	412.2	421.7	427.1	428.9
57.5°	1829.3	685.6	401.5	396.1	374.1	384.8	387.2	376.5	371.7	372.9	374.7
60°	1085.9	442.6	362.2	361.6	341.9	354.4	361.6	350.9	336.6	338.3	340.7
62.5°	487.3	338.3	312.7	310.4	309.8	325.8	333.6	323.5	303.2	305.0	307.4
65°	306.8	292.5	271.6	271.6	281.2	294.9	300.8	292.5	269.2	266.3	268.7
67.5°	284.7	272.2	250.8	246.6	251.4	262.7	263.3	247.2	233.5	231.1	231.1
70°	255.5	246.0	225.2	216.8	215.0	214.4	212.7	208.5	199.6	197.2	198.4
72.5°	211.5	204.9	191.8	182.9	178.1	177.5	170.4	166.8	159.0	157.9	157.3
75°	140.0	141.8	141.8	140.6	136.4	134.6	126.9	123.3	114.4	110.8	110.2
77.5°	82.8	84.6	87.0	87.6	87.0	87.0	79.8	75.7	66.7	62.0	60.8
80°	50.6	51.8	53.0	54.8	52.4	50.6	44.1	39.9	35.7	32.8	32.2
82.5°	32.8	34.0	34.5	35.7	34.5	32.2	26.8	24.4	21.4	19.1	18.5
85°	18.5	19.1	20.3	20.3	18.5	16.7	13.7	11.9	10.1	8.9	8.9
87.5°	6.6	6.6	6.6	7.1	6.0	5.4	3.6	2.4	1.8	1.8	1.8
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)