

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: P634228

Luminaire Tested: GWS-SA3B-735-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634228
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-SA3B-735-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9306.9 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

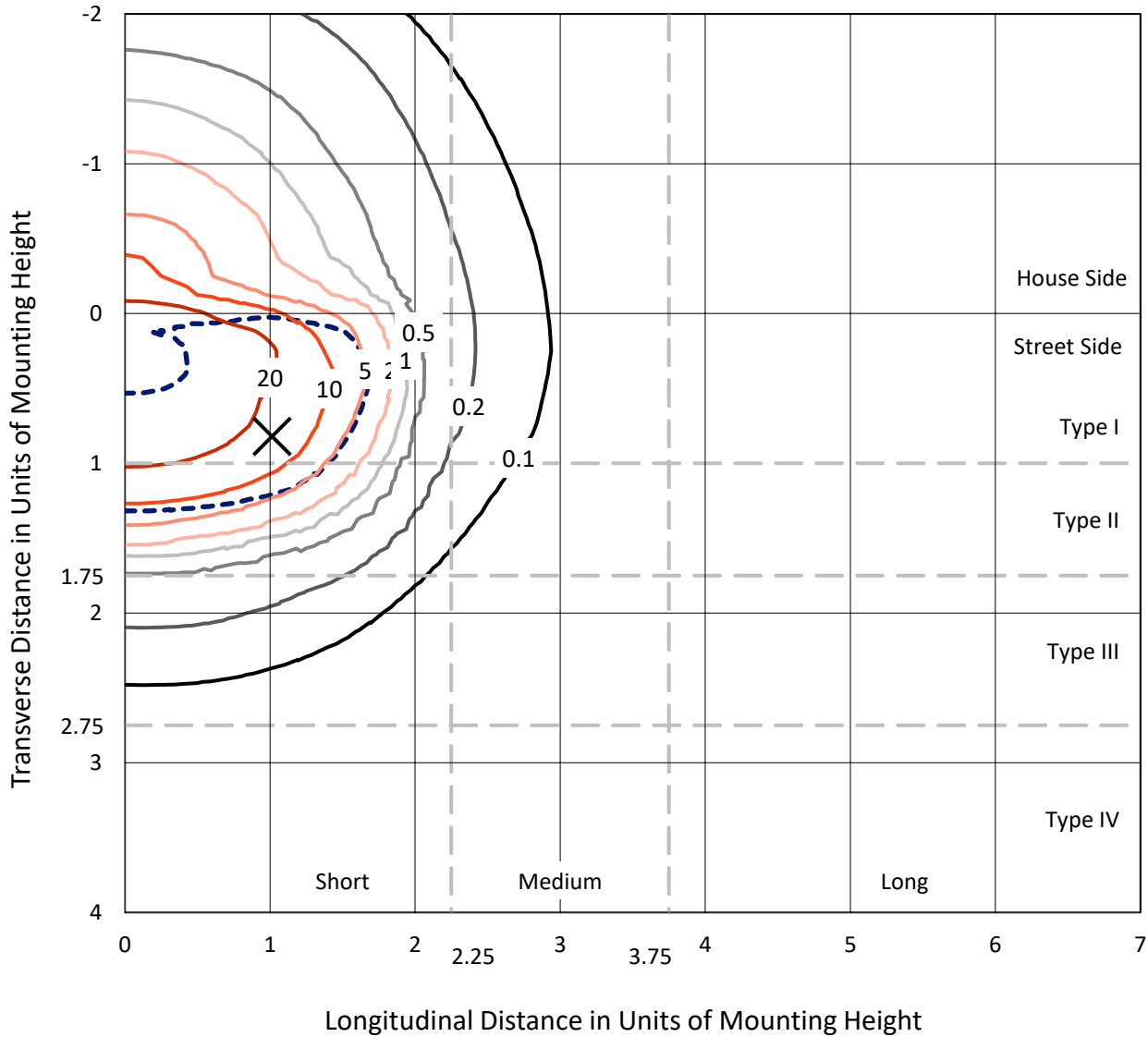
Input Watts (W): 68.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

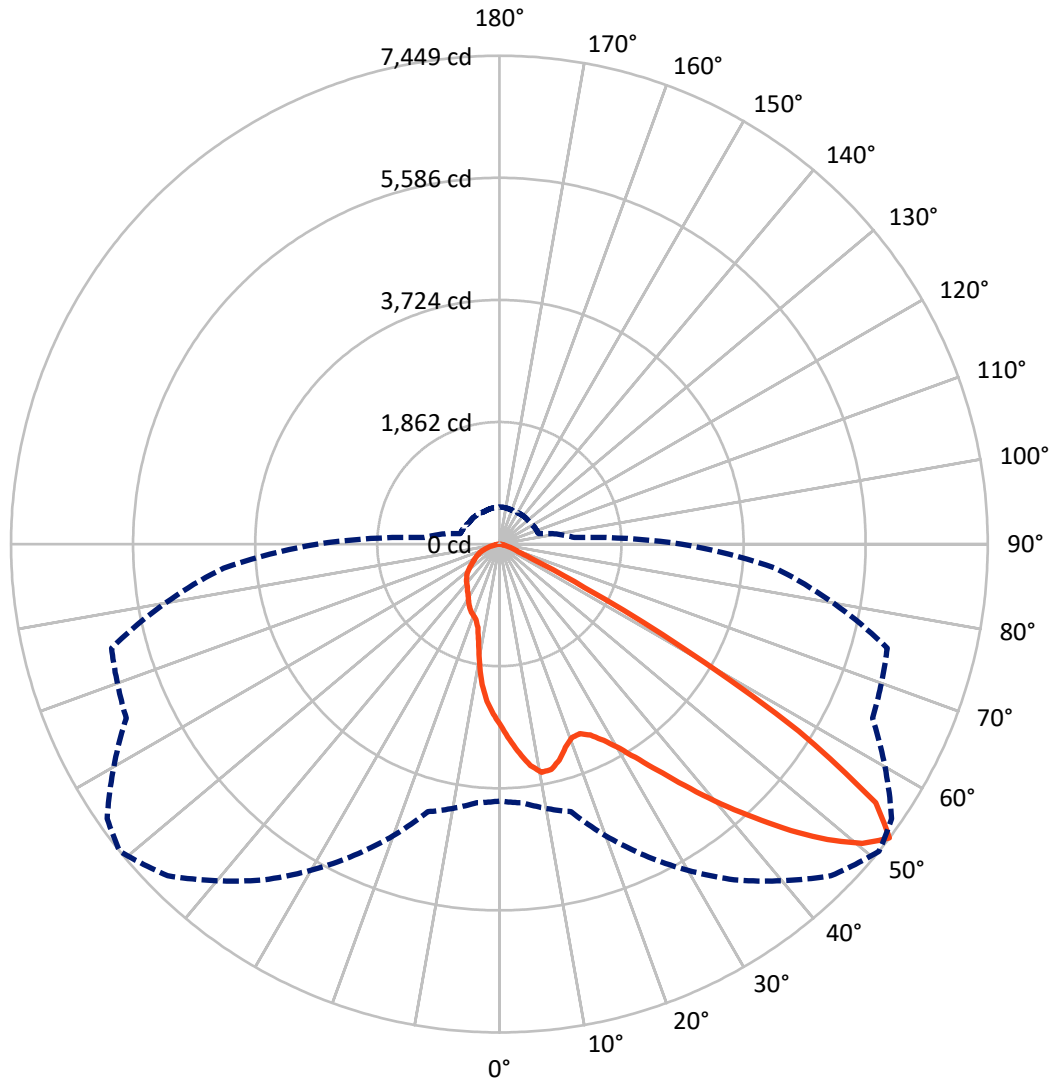
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 33.8 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	1813.4	0.0	1813.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	7493.5	0.0	7493.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	9306.9	0.0	9306.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.6	2.8
10°-20°	671.9	7.2
20°-30°	1092.5	11.7
30°-40°	1731.3	18.6
40°-50°	2611.2	28.1
50°-60°	2258.9	24.3
60°-70°	512.1	5.5
70°-80°	151.0	1.6
80°-90°	19.4	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°	9306.9	100.0
0°-180°	9306.9	100.0

Coefficient of Utilization



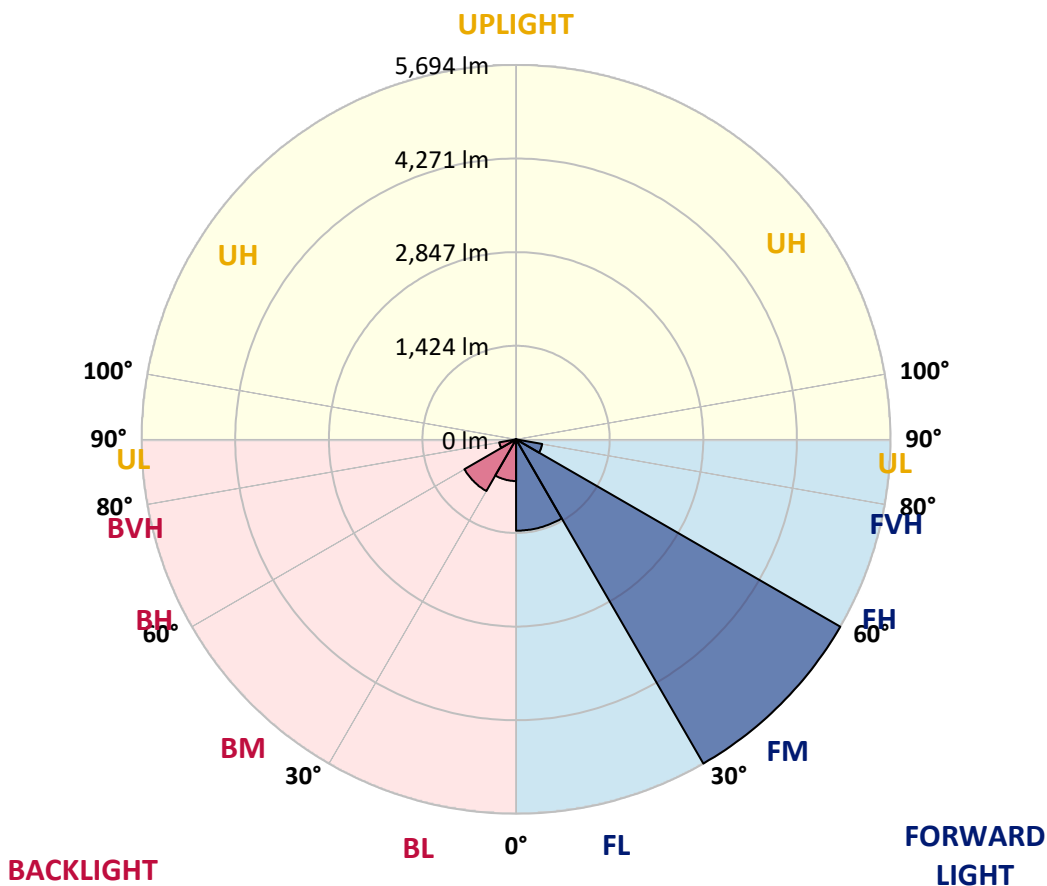
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1389.1	14.9			
FM (30°-60°)	5694.1	61.2			
FH (60°-80°)	403.0	4.3			G0/660
FVH (80°-90°)	7.3	0.1			G0/10
BL (0°-30°)	633.9	6.8	B2/1000		
BM (30°-60°)	907.3	9.7	B1/1000		
BH (60°-80°)	260.1	2.8	B1/500		G1/500
BVH (80°-90°)	12.1	0.1			G1/100
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°	2771.1	2771.1	2771.1	2771.1	2771.1	2771.1	2771.1	2771.1	2771.1	2771.1	2771.1
2.5°	3088.1	3105.8	3078.5	3068.2	3051.3	3021.9	2988.1	2978.5	2905.7	2857.9	2804.2
5°	3398.5	3408.0	3386.0	3363.9	3322.0	3269.8	3204.3	3190.3	3057.9	2948.4	2834.4
7.5°	3467.6	3463.9	3483.0	3495.5	3490.4	3469.8	3411.7	3384.5	3226.4	3052.8	2884.4
10°	3194.0	3173.4	3244.0	3327.9	3428.6	3544.8	3538.2	3536.0	3398.5	3193.3	2948.4
12.5°	2831.4	2821.1	2878.5	2983.7	3174.1	3431.6	3527.9	3602.9	3553.6	3327.1	3019.7
15°	2624.0	2620.4	2659.3	2735.1	2886.6	3211.7	3417.6	3566.1	3686.7	3470.5	3095.5
17.5°	2586.5	2588.7	2602.0	2645.4	2754.2	3021.9	3260.2	3467.6	3790.4	3627.9	3190.3
20°	2696.1	2710.8	2688.0	2694.6	2753.5	2953.5	3152.8	3368.3	3856.6	3786.0	3292.6
22.5°	2939.5	2934.4	2884.4	2855.0	2855.7	2995.4	3141.1	3322.0	3900.0	3939.7	3385.2
25°	3215.3	3209.4	3149.9	3084.4	3043.2	3109.4	3225.6	3371.2	3939.0	4080.2	3459.5
27.5°	3541.1	3522.7	3456.6	3372.7	3281.5	3310.2	3388.9	3504.4	3999.3	4218.5	3508.8
30°	3856.6	3878.0	3783.1	3683.8	3587.5	3569.8	3615.4	3719.8	4122.1	4380.3	3567.6
32.5°	4275.1	4267.7	4162.6	4033.1	3895.6	3882.4	3918.4	4014.0	4342.8	4603.8	3657.3
35°	4781.8	4783.3	4634.0	4459.0	4263.3	4228.0	4288.3	4381.0	4671.5	4906.8	3799.3
37.5°	5308.4	5306.2	5176.0	4977.4	4710.5	4660.5	4729.6	4798.7	5082.6	5319.4	4019.9
40°	5677.6	5692.3	5631.2	5526.8	5273.8	5151.7	5212.8	5260.6	5529.8	5804.8	4310.4
42.5°	5887.2	5909.2	5922.5	5985.0	5851.9	5721.7	5699.6	5724.6	5929.1	6255.6	4583.2
45°	5932.0	5961.5	6057.8	6289.5	6340.9	6304.2	6232.1	6171.8	6226.9	6575.5	4762.0
47.5°	5734.2	5785.7	5991.6	6396.8	6697.6	6813.1	6732.9	6641.0	6399.0	6657.9	4743.6
50°	4950.2	5010.5	5474.6	6177.7	6748.4	7169.0	7176.4	7040.3	6378.4	6420.4	4512.6
52.5°	3919.1	3960.3	4225.8	5237.1	6250.5	7154.3	7448.5	7302.9	6279.2	6123.3	4223.6
55°	2342.4	2408.6	2656.4	3455.1	4869.3	6340.9	6967.5	7038.1	6230.6	5873.9	4026.5
57.5°	790.6	823.0	1059.8	1526.0	2869.7	4642.8	5383.4	5670.2	5656.2	5493.0	3641.9
60°	376.5	383.9	431.7	578.8	1148.8	2426.2	3186.7	3517.6	3819.1	3849.3	2265.9
62.5°	286.8	291.2	315.5	347.1	461.9	1022.3	1460.6	1713.6	1830.5	1570.9	825.2
65°	239.8	243.4	261.8	281.7	314.0	442.7	560.4	646.4	582.5	453.8	393.5
67.5°	200.0	203.0	217.0	238.3	260.3	296.4	311.1	319.9	335.4	376.5	361.8
70°	156.6	159.6	174.3	192.7	214.0	222.8	236.8	245.6	276.5	329.5	328.0
72.5°	120.6	124.3	132.4	144.1	161.8	170.6	186.1	196.4	214.0	256.7	274.3
75°	88.3	90.5	97.8	101.5	103.7	101.5	116.9	128.7	152.2	168.4	172.8
77.5°	36.0	40.4	39.0	39.0	46.3	55.9	64.0	71.3	87.5	97.1	97.8
80°	14.7	16.2	19.1	21.3	25.7	33.1	38.2	41.2	48.5	54.4	58.8
82.5°	8.8	9.6	11.0	11.8	14.7	19.1	22.1	24.3	30.2	36.0	38.2
85°	4.4	4.4	5.1	5.9	7.4	8.8	10.3	11.8	15.4	19.1	21.3
87.5°	0.7	0.7	0.7	1.5	2.2	2.9	3.7	4.4	5.1	5.9	7.4
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°	2771.1	2771.1	2771.1	2771.1	2771.1	2771.1	2771.1	2771.1	2771.1	2771.1	2771.1
2.5°	2772.6	2732.9	2686.6	2649.8	2607.1	2575.5	2530.6	2502.7	2476.2	2454.2	2438.0
5°	2775.5	2708.6	2612.3	2527.0	2438.7	2354.9	2268.8	2199.0	2136.4	2084.2	2079.8
7.5°	2792.5	2696.1	2545.3	2396.1	2224.0	2057.8	1891.5	1756.2	1653.3	1599.6	1588.5
10°	2821.1	2694.6	2477.0	2238.7	1945.2	1677.5	1480.4	1377.5	1317.9	1296.6	1289.2
12.5°	2851.3	2691.0	2389.4	2016.6	1609.1	1374.5	1266.4	1253.9	1265.0	1266.4	1265.7
15°	2888.1	2688.8	2279.1	1756.2	1363.5	1234.1	1241.4	1267.9	1293.6	1299.5	1299.5
17.5°	2932.9	2683.6	2129.1	1501.8	1209.8	1206.9	1245.8	1281.1	1305.4	1309.8	1309.8
20°	2980.0	2670.4	1944.5	1294.4	1147.3	1189.9	1231.9	1259.1	1276.0	1281.9	1282.6
22.5°	3012.4	2635.1	1732.0	1140.7	1108.3	1157.6	1187.7	1215.7	1215.7	1201.0	1196.6
25°	3019.0	2559.3	1501.8	1035.5	1062.0	1107.6	1138.5	1122.3	1092.1	1080.4	1079.6
27.5°	2994.7	2449.0	1274.5	960.5	1006.1	1051.7	1046.5	1023.0	1009.8	998.0	1002.4
30°	2965.3	2316.6	1077.4	898.7	941.4	986.2	968.6	960.5	950.9	937.7	940.6
32.5°	2945.4	2168.8	925.9	850.9	898.0	905.3	917.8	917.1	908.3	883.3	881.8
35°	2951.3	2019.5	824.4	811.9	861.9	859.0	882.5	878.1	817.1	782.5	780.3
37.5°	2998.4	1876.1	764.9	781.0	804.6	823.0	843.5	790.6	769.3	747.2	748.7
40°	3088.1	1743.0	732.5	764.1	770.0	797.2	749.4	748.7	739.1	719.3	718.5
42.5°	3189.6	1630.5	710.4	756.0	747.9	753.1	702.3	708.2	707.5	695.0	691.3
45°	3251.4	1526.8	692.8	725.9	728.1	676.6	661.2	667.8	671.5	664.8	664.1
47.5°	3187.4	1407.6	674.4	679.5	698.7	642.0	622.9	623.7	630.3	631.0	628.1
50°	3007.9	1274.5	652.3	639.8	627.3	606.0	588.3	584.7	591.3	597.9	600.1
52.5°	2776.3	1147.3	615.6	596.4	567.0	567.0	558.9	547.2	556.0	564.8	567.8
55°	2606.4	1053.1	563.3	542.0	509.7	520.7	519.2	508.9	520.7	527.3	529.5
57.5°	2258.5	846.5	495.7	489.1	461.9	475.1	478.0	464.8	458.9	460.4	462.6
60°	1340.7	546.4	447.1	446.4	422.1	437.6	446.4	433.2	415.5	417.7	420.7
62.5°	601.6	417.7	386.1	383.2	382.4	402.3	411.8	399.3	374.3	376.5	379.5
65°	378.8	361.1	335.4	335.4	347.1	364.0	371.4	361.1	332.4	328.7	331.7
67.5°	351.5	336.1	309.6	304.5	310.4	324.3	325.1	305.2	288.3	285.3	285.3
70°	315.5	303.7	278.0	267.7	265.5	264.8	262.6	257.4	246.4	243.4	244.9
72.5°	261.1	253.0	236.8	225.8	219.9	219.2	210.3	205.9	196.4	194.9	194.2
75°	172.8	175.0	175.0	173.6	168.4	166.2	156.6	152.2	141.2	136.8	136.1
77.5°	102.2	104.4	107.4	108.1	107.4	107.4	98.5	93.4	82.4	76.5	75.0
80°	62.5	64.0	65.5	67.7	64.7	62.5	54.4	49.3	44.1	40.4	39.7
82.5°	40.4	41.9	42.7	44.1	42.7	39.7	33.1	30.2	26.5	23.5	22.8
85°	22.8	23.5	25.0	25.0	22.8	20.6	16.9	14.7	12.5	11.0	11.0
87.5°	8.1	8.1	8.1	8.8	7.4	6.6	4.4	2.9	2.2	2.2	2.2
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)