

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: P636702

Luminaire Tested: GWS-SA4B-735-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-735-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10751.8 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

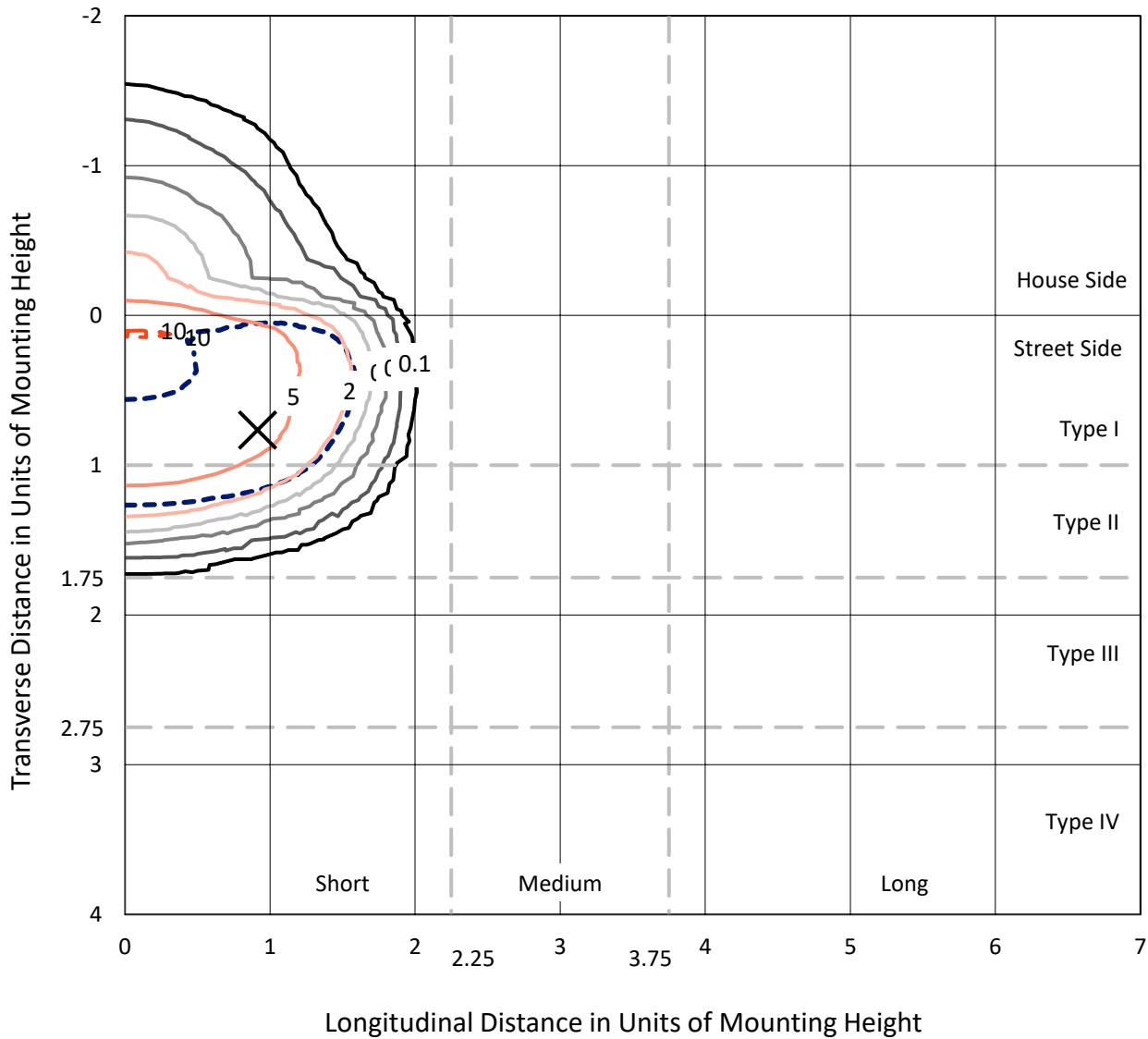
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

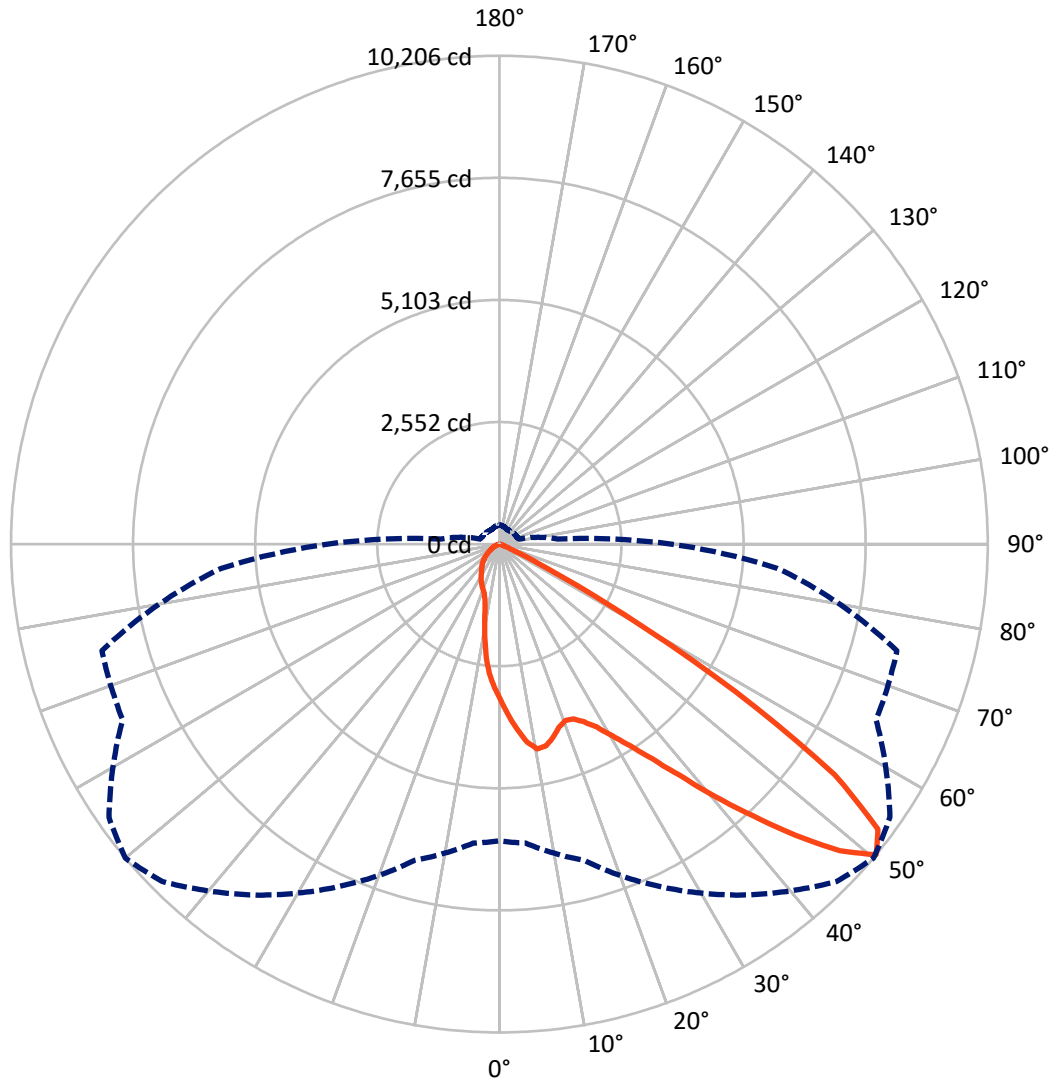
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1381.4	0.0	1381.4
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	9370.4	0.0	9370.4
	% Fixture	87.2	0.0	87.2
Total	Lumens	10751.8	0.0	10751.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.2	2.8
10°-20°	779.6	7.3
20°-30°	1286.7	12.0
30°-40°	2123.3	19.7
40°-50°	3359.5	31.2
50°-60°	2543.5	23.7
60°-70°	318.3	3.0
70°-80°	36.0	0.3
80°-90°	2.7	0.0
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°	10751.8	100.0
0°-180°	10751.8	100.0

Coefficient of Utilization



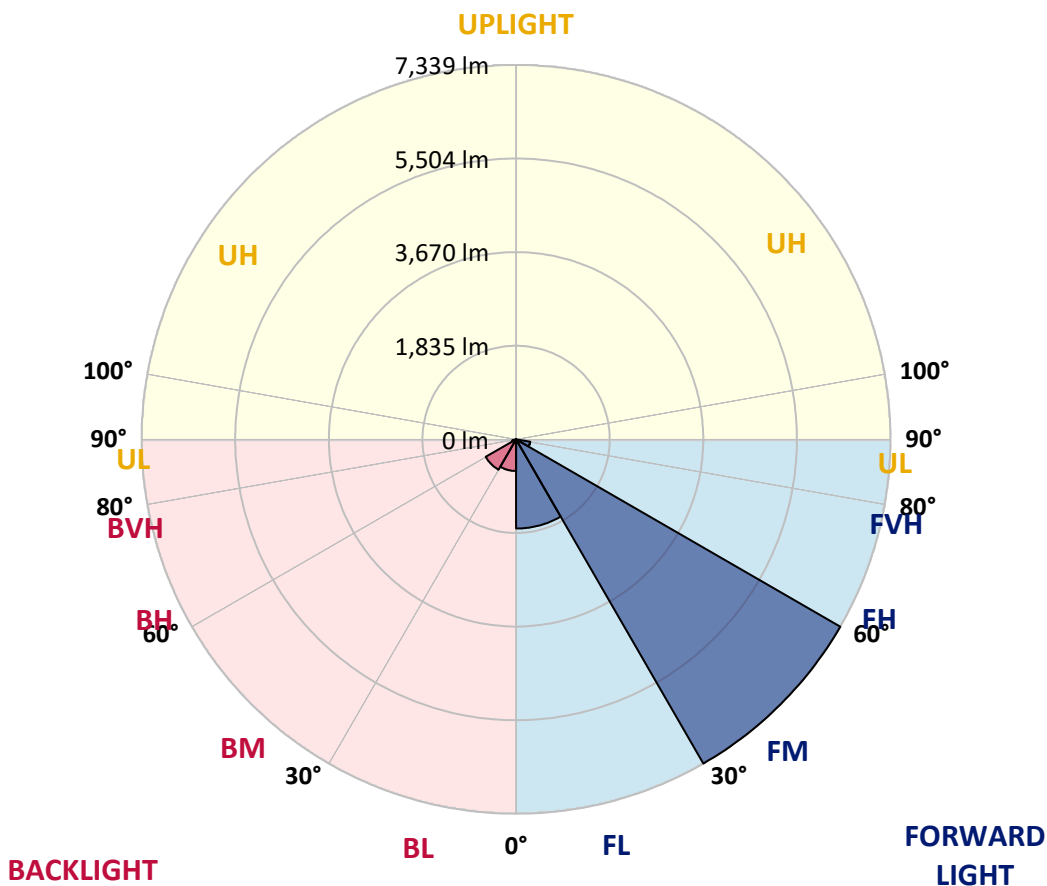
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1748.4	16.3			
FM (30°-60°)	7339.2	68.3			
FH (60°-80°)	281.4	2.6			G0/660
FVH (80°-90°)	1.3	0.0			G0/10
BL (0°-30°)	620.1	5.8	B2/1000		
BM (30°-60°)	687.0	6.4	B1/1000		
BH (60°-80°)	72.9	0.7	B0/110		G0/110
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	3257.4	3257.4	3257.4	3257.4	3257.4	3257.4	3257.4	3257.4	3257.4	3257.4	3257.4
2.5°	3711.7	3741.4	3733.2	3694.3	3652.4	3622.7	3576.7	3562.3	3457.9	3385.3	3308.5
5°	4160.0	4169.2	4159.0	4111.9	4038.2	3967.6	3891.9	3847.8	3672.9	3515.3	3354.6
7.5°	4267.4	4256.2	4275.6	4299.2	4288.9	4258.2	4178.4	4130.3	3921.5	3664.7	3421.1
10°	3931.8	3906.2	3978.8	4100.6	4228.5	4372.8	4352.4	4356.5	4164.1	3853.0	3508.1
12.5°	3486.6	3476.4	3530.6	3671.8	3922.6	4250.0	4328.8	4460.8	4386.1	4056.6	3607.4
15°	3291.1	3296.3	3329.0	3418.0	3598.1	4005.4	4194.8	4433.2	4584.7	4254.1	3716.9
17.5°	3320.8	3339.2	3338.2	3367.9	3477.4	3803.8	4024.9	4346.2	4738.2	4481.3	3842.7
20°	3522.4	3540.8	3513.2	3490.7	3527.5	3752.7	3935.9	4258.2	4841.5	4710.5	3975.8
22.5°	3824.3	3845.8	3780.3	3715.8	3692.3	3836.6	3969.6	4222.4	4920.3	4920.3	4094.5
25°	4189.7	4219.3	4118.0	4003.4	3937.9	4013.6	4113.9	4303.2	5001.2	5108.6	4175.3
27.5°	4598.0	4599.0	4512.0	4383.1	4260.3	4269.5	4329.9	4485.4	5090.2	5311.3	4238.8
30°	5057.5	5060.5	4944.9	4790.4	4635.8	4593.9	4645.0	4762.7	5275.4	5566.1	4326.8
32.5°	5651.0	5665.3	5499.6	5272.4	5071.8	4993.0	5022.7	5146.5	5570.2	5885.4	4458.8
35°	6453.3	6468.7	6224.1	5924.3	5605.0	5486.3	5515.9	5640.8	5996.9	6338.7	4669.6
37.5°	7245.4	7265.9	7018.2	6738.9	6300.9	6104.4	6135.1	6253.8	6637.5	6965.0	5007.3
40°	7792.9	7820.5	7743.8	7555.5	7149.2	6891.3	6928.2	6971.2	7342.6	7714.1	5445.3
42.5°	8081.5	8120.4	8153.1	8249.3	8035.5	7819.5	7757.1	7760.2	8060.0	8477.5	5900.7
45°	8098.9	8136.8	8304.6	8676.1	8838.8	8793.8	8680.2	8603.4	8607.5	8986.2	6185.2
47.5°	7536.1	7606.7	7920.8	8648.5	9260.4	9633.9	9576.6	9394.5	8837.8	9019.9	6154.5
50°	6202.6	6272.2	6843.2	7890.1	8953.4	9969.6	10206.0	9961.4	8687.3	8599.3	5838.3
52.5°	4504.8	4512.0	4882.5	6105.4	7709.0	9350.5	9907.2	9883.7	8458.1	8089.7	5406.4
55°	2139.9	2114.3	2530.8	3445.7	5331.7	7562.7	8501.1	8767.2	8132.7	7721.3	5071.8
57.5°	623.2	635.5	820.7	1344.7	2666.9	4833.3	5821.9	6317.2	6675.4	6347.9	3933.8
60°	279.4	280.4	312.1	409.3	888.3	2248.3	3009.7	3622.7	3991.1	3698.4	1951.6
62.5°	202.6	203.6	215.9	231.3	301.9	761.4	1128.8	1504.3	1532.0	1002.9	494.3
65°	168.9	168.9	170.9	170.9	181.1	272.2	342.8	442.1	372.5	276.3	193.4
67.5°	136.1	137.1	139.2	139.2	136.1	136.1	147.4	161.7	172.9	213.9	178.1
70°	106.4	105.4	105.4	106.4	103.4	88.0	95.2	108.5	118.7	166.8	154.5
72.5°	82.9	83.9	82.9	78.8	71.6	52.2	56.3	70.6	75.7	104.4	104.4
75°	62.4	63.4	59.4	45.0	29.7	16.4	21.5	34.8	44.0	51.2	37.9
77.5°	8.2	8.2	6.1	6.1	5.1	6.1	6.1	8.2	12.3	12.3	9.2
80°	1.0	1.0	1.0	2.0	3.1	4.1	4.1	4.1	4.1	5.1	5.1
82.5°	1.0	1.0	1.0	1.0	3.1	3.1	4.1	4.1	4.1	4.1	4.1
85°	0.0	0.0	0.0	1.0	2.0	3.1	3.1	4.1	4.1	4.1	4.1
87.5°	0.0	0.0	0.0	1.0	2.0	3.1	3.1	3.1	4.1	4.1	4.1
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°	3257.4	3257.4	3257.4	3257.4	3257.4	3257.4	3257.4	3257.4	3257.4	3257.4	3257.4
2.5°	3262.5	3203.1	3131.5	3082.4	3012.8	2966.7	2901.2	2857.2	2819.4	2789.7	2806.1
5°	3263.5	3169.4	3023.0	2898.2	2762.1	2637.2	2503.1	2397.7	2302.6	2259.6	2283.1
7.5°	3284.0	3148.9	2924.8	2702.7	2441.7	2183.9	1942.3	1745.9	1648.6	1602.6	1616.9
10°	3323.9	3139.7	2815.3	2446.9	2023.2	1671.2	1436.8	1303.8	1249.5	1220.9	1226.0
12.5°	3360.7	3133.5	2673.0	2110.2	1596.4	1296.6	1174.8	1156.4	1167.7	1168.7	1167.7
15°	3410.9	3122.3	2497.0	1764.3	1277.2	1120.6	1123.7	1150.3	1176.9	1185.1	1183.0
17.5°	3464.1	3104.9	2269.8	1432.7	1083.7	1069.4	1105.2	1141.1	1167.7	1171.8	1172.8
20°	3519.3	3069.1	2010.9	1169.7	993.7	1030.5	1070.4	1097.0	1116.5	1122.6	1124.7
22.5°	3544.9	2993.3	1712.1	981.4	933.3	982.4	1012.1	1046.9	1053.0	1030.5	1034.6
25°	3531.6	2865.4	1420.4	854.5	872.9	922.1	966.1	948.7	923.1	906.7	911.8
27.5°	3489.7	2695.5	1134.9	761.4	808.5	870.9	876.0	856.6	852.5	839.2	843.3
30°	3444.6	2500.1	912.8	686.7	743.0	808.5	793.1	800.3	801.3	785.9	791.1
32.5°	3417.0	2295.4	726.6	636.5	701.0	713.3	744.0	758.3	759.3	723.5	729.7
35°	3426.2	2093.8	615.0	595.6	662.1	659.0	702.0	710.2	650.9	601.7	606.9
37.5°	3500.9	1907.6	551.6	563.9	594.6	618.1	650.9	596.6	583.3	560.8	563.9
40°	3640.1	1748.9	513.7	544.4	548.5	586.4	536.2	543.4	544.4	530.1	533.2
42.5°	3802.8	1616.9	491.2	533.2	522.9	529.1	478.9	493.3	508.6	502.5	503.5
45°	3884.7	1488.0	471.8	494.3	497.4	439.0	427.8	443.1	462.6	465.6	466.7
47.5°	3812.0	1365.2	451.3	438.0	458.5	400.1	386.8	391.9	414.5	426.7	428.8
50°	3590.0	1223.9	420.6	387.9	376.6	359.2	346.9	347.9	373.5	395.0	399.1
52.5°	3277.8	1076.6	370.5	328.5	302.9	316.2	319.3	313.1	336.7	358.2	362.3
55°	2974.9	892.4	293.7	267.1	243.6	272.2	280.4	272.2	279.4	293.7	294.7
57.5°	2094.8	504.5	225.1	221.0	201.6	233.3	246.6	234.4	222.1	231.3	233.3
60°	971.2	264.0	172.9	172.9	167.8	200.6	223.1	205.7	182.2	186.3	189.3
62.5°	303.9	166.8	126.9	119.7	137.1	170.9	189.3	171.9	144.3	144.3	148.4
65°	171.9	143.3	100.3	92.1	111.5	137.1	148.4	130.0	105.4	103.4	103.4
67.5°	159.6	136.1	89.0	74.7	78.8	88.0	92.1	79.8	72.7	71.6	72.7
70°	132.0	113.6	71.6	51.2	48.1	47.1	49.1	46.1	44.0	45.0	48.1
72.5°	81.9	68.6	45.0	30.7	26.6	25.6	25.6	25.6	24.6	24.6	24.6
75°	29.7	25.6	20.5	15.4	13.3	12.3	12.3	13.3	12.3	11.3	10.2
77.5°	9.2	8.2	8.2	8.2	7.2	6.1	5.1	5.1	4.1	3.1	3.1
80°	5.1	5.1	5.1	5.1	4.1	4.1	3.1	2.0	1.0	1.0	0.0
82.5°	5.1	5.1	5.1	4.1	4.1	4.1	3.1	2.0	1.0	0.0	0.0
85°	4.1	4.1	4.1	4.1	4.1	4.1	3.1	2.0	1.0	0.0	0.0
87.5°	4.1	4.1	4.1	4.1	4.1	4.1	3.1	2.0	1.0	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)