

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: P637400

Luminaire Tested: GWS-SA4C-760-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637400
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-760-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12283.1 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

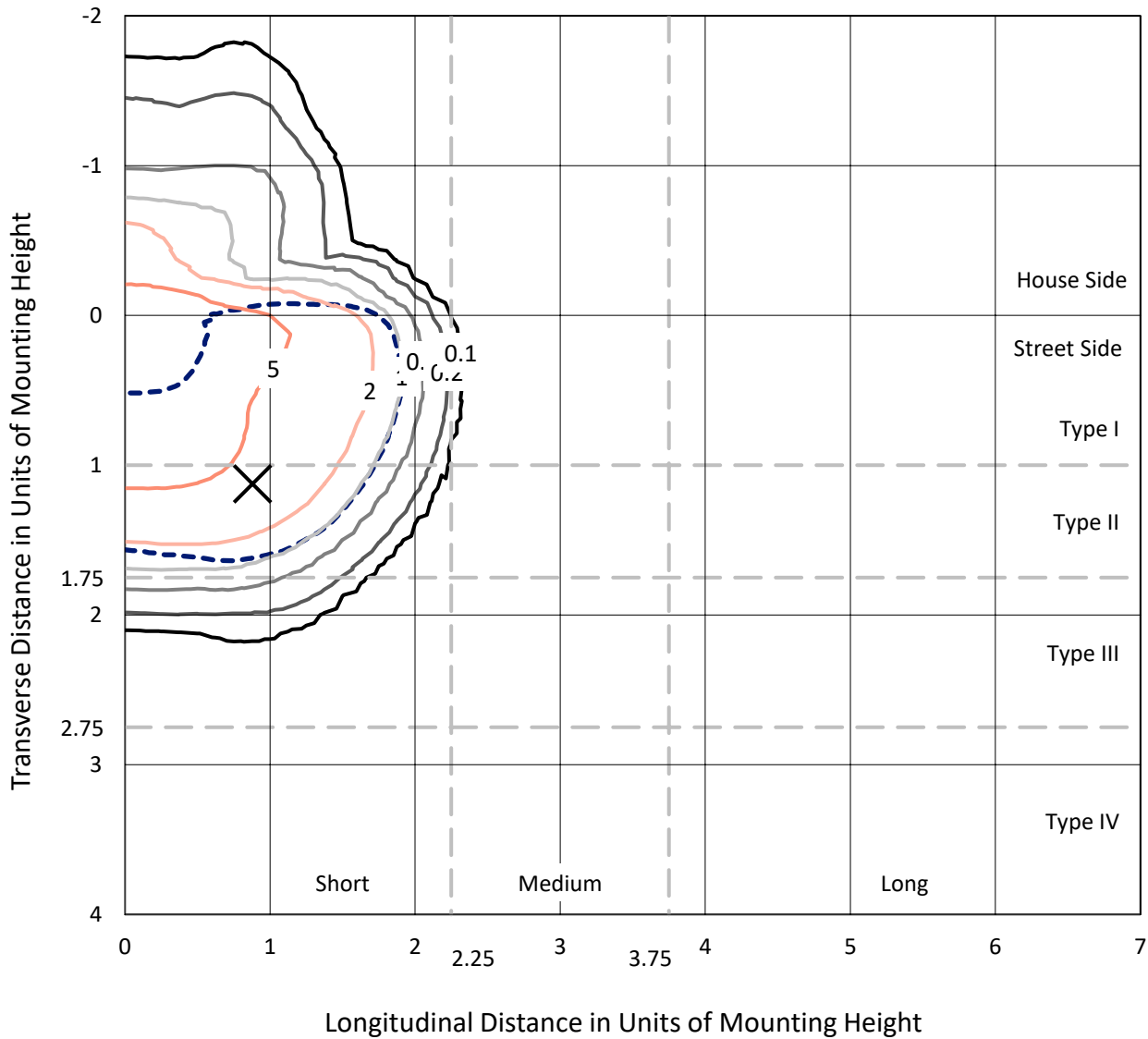
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

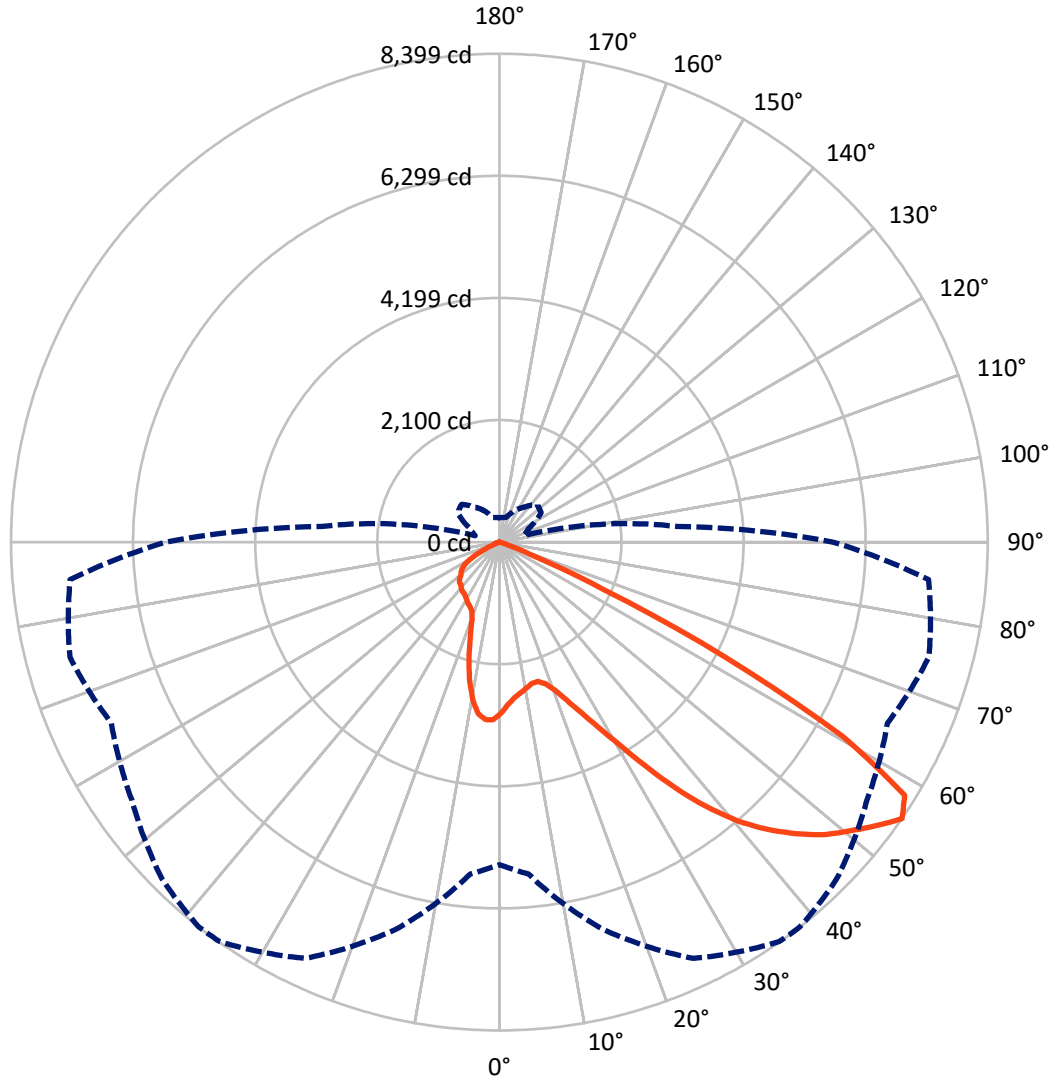
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2393.1	0.0	2393.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	9890.0	0.0	9890.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	12283.1	0.0	12283.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.4	2.2
10°-20°	733.2	6.0
20°-30°	1258.2	10.2
30°-40°	2086.9	17.0
40°-50°	3067.8	25.0
50°-60°	3584.8	29.2
60°-70°	1215.1	9.9
70°-80°	62.1	0.5
80°-90°	2.4	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°	12283.1	100.0
0°-180°	12283.1	100.0

Coefficient of Utilization

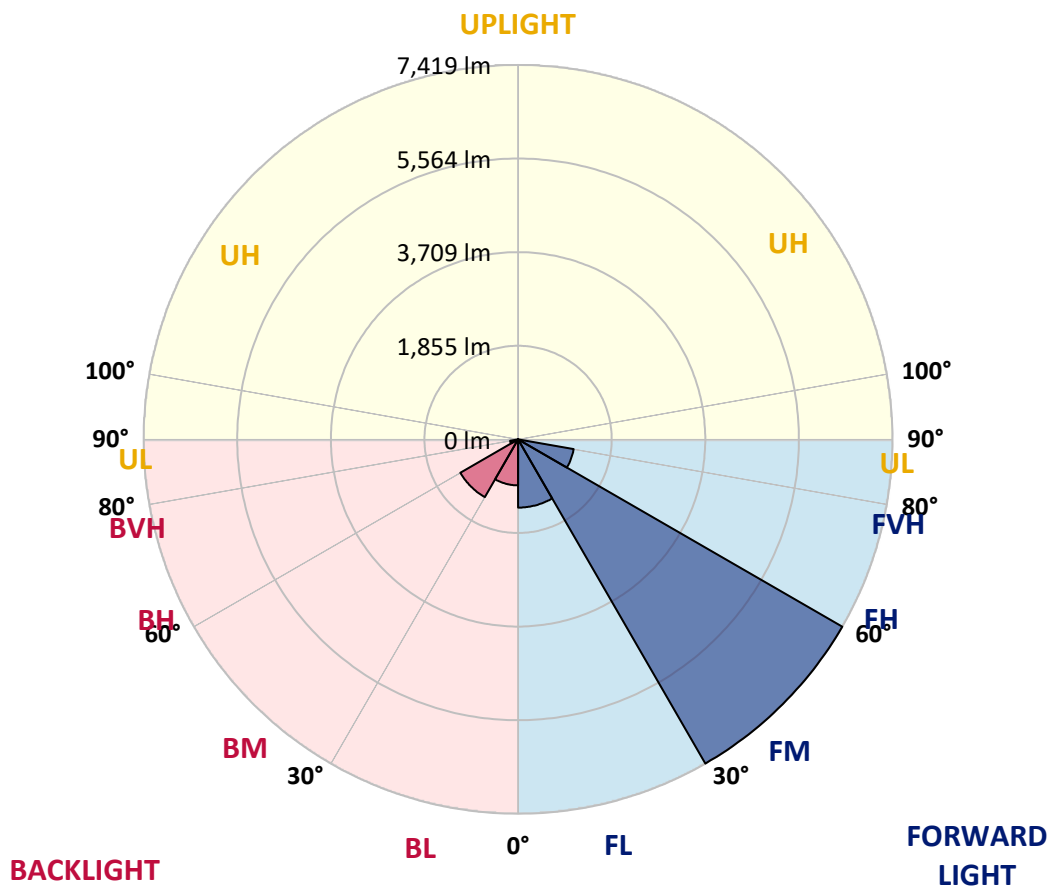


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1352.1	11.0			
FM (30°-60°)	7418.7	60.4			
FH (60°-80°)	1117.9	9.1			G1/1800
FVH (80°-90°)	1.3	0.0			G0/10
BL (0°-30°)	911.8	7.4	B2/1000		
BM (30°-60°)	1320.9	10.8	B2/2500		
BH (60°-80°)	159.3	1.3	B1/500		G1/500
BVH (80°-90°)	1.1	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6
2.5°	2743.4	2737.8	2749.0	2771.5	2792.5	2799.6	2820.6	2850.1	2868.4	2911.9	2947.0
5°	2619.9	2617.0	2628.3	2647.9	2676.0	2685.8	2718.1	2767.3	2816.4	2892.2	2966.6
7.5°	2507.5	2506.1	2523.0	2566.5	2607.2	2619.9	2659.2	2719.5	2785.5	2902.1	3011.6
10°	2360.1	2361.5	2393.8	2455.6	2530.0	2555.3	2618.5	2705.5	2791.1	2941.4	3093.0
12.5°	2312.4	2315.2	2332.0	2379.8	2461.2	2493.5	2581.9	2713.9	2823.4	2997.5	3198.3
15°	2428.9	2428.9	2414.9	2420.5	2457.0	2486.5	2579.1	2742.0	2878.2	3064.9	3302.2
17.5°	2655.0	2646.5	2611.4	2563.7	2551.1	2560.9	2635.3	2802.4	2955.4	3143.5	3420.1
20°	2961.0	2963.8	2895.0	2795.4	2715.3	2713.9	2758.9	2909.1	3066.3	3237.6	3547.9
22.5°	3331.7	3320.4	3229.2	3093.0	2954.0	2942.8	2961.0	3071.9	3226.4	3386.4	3705.1
25°	3761.3	3755.7	3626.5	3444.0	3260.1	3233.4	3233.4	3342.9	3455.2	3598.4	3893.3
27.5°	4210.6	4210.6	4085.6	3875.0	3630.7	3583.0	3576.0	3705.1	3779.6	3807.6	4051.9
30°	4672.5	4666.9	4543.3	4327.1	4066.0	4016.8	3997.2	4092.6	4146.0	4061.8	4249.9
32.5°	5141.4	5151.3	5026.3	4825.5	4592.5	4560.2	4499.8	4499.8	4543.3	4425.4	4561.6
35°	5645.5	5642.7	5544.4	5408.2	5208.8	5172.3	5072.6	4916.8	4982.8	4930.8	4992.6
37.5°	6090.5	6111.6	6063.9	5962.8	5801.3	5764.8	5600.5	5318.3	5368.9	5450.3	5505.1
40°	6542.6	6559.5	6607.2	6574.9	6371.3	6303.9	6011.9	5548.6	5604.7	5884.1	6041.4
42.5°	6986.3	6994.7	7091.6	7144.9	6872.6	6754.6	6323.6	5689.0	5748.0	6223.9	6499.1
45°	7268.5	7286.7	7446.8	7609.7	7314.8	7153.4	6594.6	5868.7	5894.0	6459.8	6837.5
47.5°	7257.2	7299.4	7599.8	7896.1	7695.3	7521.2	6920.3	6156.5	6114.4	6681.6	7060.7
50°	7031.2	7081.8	7512.8	7983.1	7969.1	7807.6	7282.5	6573.5	6441.5	6878.2	7088.8
52.5°	6562.3	6708.3	7359.7	7994.3	8189.5	8108.1	7730.4	7135.1	6883.8	7160.4	7133.7
55°	5548.6	5728.3	6895.0	7898.9	8388.9	8398.7	8200.7	7720.6	7364.0	7646.2	7410.3
57.5°	4212.0	4355.2	5307.1	7031.2	8058.9	8220.4	8383.3	8029.4	7660.2	7977.5	7474.9
60°	2538.4	2704.1	3323.3	5159.7	6508.9	6784.1	7422.9	7354.1	6909.1	7045.2	6129.8
62.5°	1029.1	1116.2	1534.6	2843.1	4096.9	4353.8	4965.9	5069.8	4960.3	4821.3	3717.8
65°	376.3	411.4	614.9	1175.1	1884.2	1978.2	2301.1	2485.1	2636.7	2245.0	1382.9
67.5°	233.1	255.5	400.1	603.7	685.1	637.4	648.6	773.6	738.5	456.3	247.1
70°	172.7	190.9	313.1	418.4	276.6	213.4	144.6	154.4	139.0	122.1	120.7
72.5°	119.3	136.2	234.5	247.1	106.7	75.8	53.4	74.4	84.2	82.8	85.6
75°	78.6	91.3	147.4	96.9	26.7	21.1	18.3	39.3	50.5	50.5	51.9
77.5°	46.3	53.4	51.9	19.7	5.6	5.6	4.2	7.0	11.2	12.6	15.4
80°	5.6	4.2	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2	4.2
82.5°	1.4	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2
85°	0.0	0.0	1.4	1.4	2.8	2.8	2.8	2.8	2.8	4.2	4.2
87.5°	0.0	0.0	1.4	1.4	2.8	2.8	2.8	2.8	2.8	4.2	4.2
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°	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6
2.5°	2973.7	2963.8	3004.5	3034.0	3057.9	3069.1	3053.7	3052.3	3052.3	3021.4	3013.0
5°	3008.8	3013.0	3070.5	3095.8	3100.0	3086.0	3050.9	3027.0	3013.0	2980.7	2962.4
7.5°	3076.2	3090.2	3144.9	3140.7	3102.8	3038.2	2945.6	2874.0	2827.6	2777.1	2746.2
10°	3173.0	3199.7	3233.4	3174.4	3053.7	2889.4	2698.5	2562.3	2480.9	2423.3	2388.2
12.5°	3291.0	3317.6	3306.4	3167.4	2916.1	2622.7	2377.0	2180.4	2086.3	2034.4	1997.9
15°	3410.3	3427.2	3354.1	3083.2	2673.2	2278.7	2004.9	1809.7	1694.6	1652.5	1621.6
17.5°	3532.5	3528.2	3362.6	2917.5	2348.9	1891.2	1621.6	1488.2	1455.9	1448.9	1446.1
20°	3660.2	3622.3	3328.9	2680.2	1958.6	1507.9	1354.9	1363.3	1422.2	1450.3	1455.9
22.5°	3806.2	3710.8	3244.6	2358.7	1559.8	1256.6	1272.0	1354.9	1434.9	1472.8	1478.4
25°	3962.1	3792.2	3104.2	1945.9	1229.9	1155.5	1246.7	1342.2	1427.9	1474.2	1479.8
27.5°	4064.6	3811.8	2874.0	1530.4	1055.8	1116.2	1213.1	1304.3	1392.8	1443.3	1450.3
30°	4175.5	3803.4	2560.9	1179.4	996.8	1082.5	1166.7	1249.6	1331.0	1387.1	1392.8
32.5°	4338.3	3797.8	2179.0	957.5	973.0	1055.8	1117.6	1186.4	1242.5	1274.8	1270.6
35°	4551.8	3790.8	1733.9	863.5	958.9	1034.7	1083.9	1116.2	1054.4	1034.7	1039.0
37.5°	4825.5	3807.6	1359.1	824.1	954.7	1029.1	1071.2	978.6	883.1	846.6	841.0
40°	5128.8	3851.2	1036.1	808.7	968.8	1043.2	1023.5	870.5	752.5	680.9	665.5
42.5°	5433.5	3898.9	819.9	803.1	992.6	1082.5	944.9	791.9	614.9	574.2	568.6
45°	5659.5	3890.5	709.0	793.3	1013.7	1104.9	923.8	679.5	549.0	530.7	532.1
47.5°	5773.2	3797.8	648.6	770.8	1022.1	1082.5	871.9	633.2	504.0	523.7	540.5
50°	5712.9	3557.7	592.5	727.3	1003.9	1053.0	789.0	598.1	481.6	563.0	600.9
52.5°	5639.8	3262.9	530.7	659.9	960.3	1012.3	756.8	588.3	467.5	543.3	571.4
55°	5736.7	3076.2	429.6	556.0	874.7	916.8	731.5	586.9	435.2	422.6	418.4
57.5°	5600.5	2704.1	307.5	400.1	671.1	725.9	713.2	577.0	386.1	384.7	390.3
60°	4328.5	1649.7	210.6	254.1	411.4	463.3	647.2	551.8	332.7	306.1	307.5
62.5°	2459.8	702.0	144.6	157.2	210.6	249.9	494.2	501.2	307.5	292.0	307.5
65°	856.4	251.3	112.3	105.3	116.5	133.4	283.6	387.5	279.4	252.7	255.5
67.5°	176.9	125.0	99.7	87.0	87.0	87.0	144.6	241.5	230.3	200.8	203.6
70°	112.3	106.7	87.0	74.4	71.6	66.0	82.8	133.4	158.7	146.0	147.4
72.5°	82.8	81.4	68.8	60.4	53.4	47.7	51.9	66.0	81.4	84.2	85.6
75°	50.5	51.9	44.9	37.9	33.7	29.5	30.9	30.9	30.9	28.1	30.9
77.5°	15.4	16.8	14.0	11.2	9.8	9.8	9.8	8.4	7.0	4.2	4.2
80°	4.2	4.2	4.2	4.2	4.2	2.8	2.8	1.4	1.4	0.0	0.0
82.5°	4.2	4.2	4.2	4.2	2.8	2.8	1.4	1.4	0.0	0.0	0.0
85°	4.2	4.2	4.2	4.2	2.8	2.8	1.4	1.4	0.0	0.0	0.0
87.5°	4.2	4.2	4.2	4.2	2.8	2.8	1.4	1.4	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)