

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: P638246

Luminaire Tested: GWS-SA4E-740-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-740-U-RW-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19834.3 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

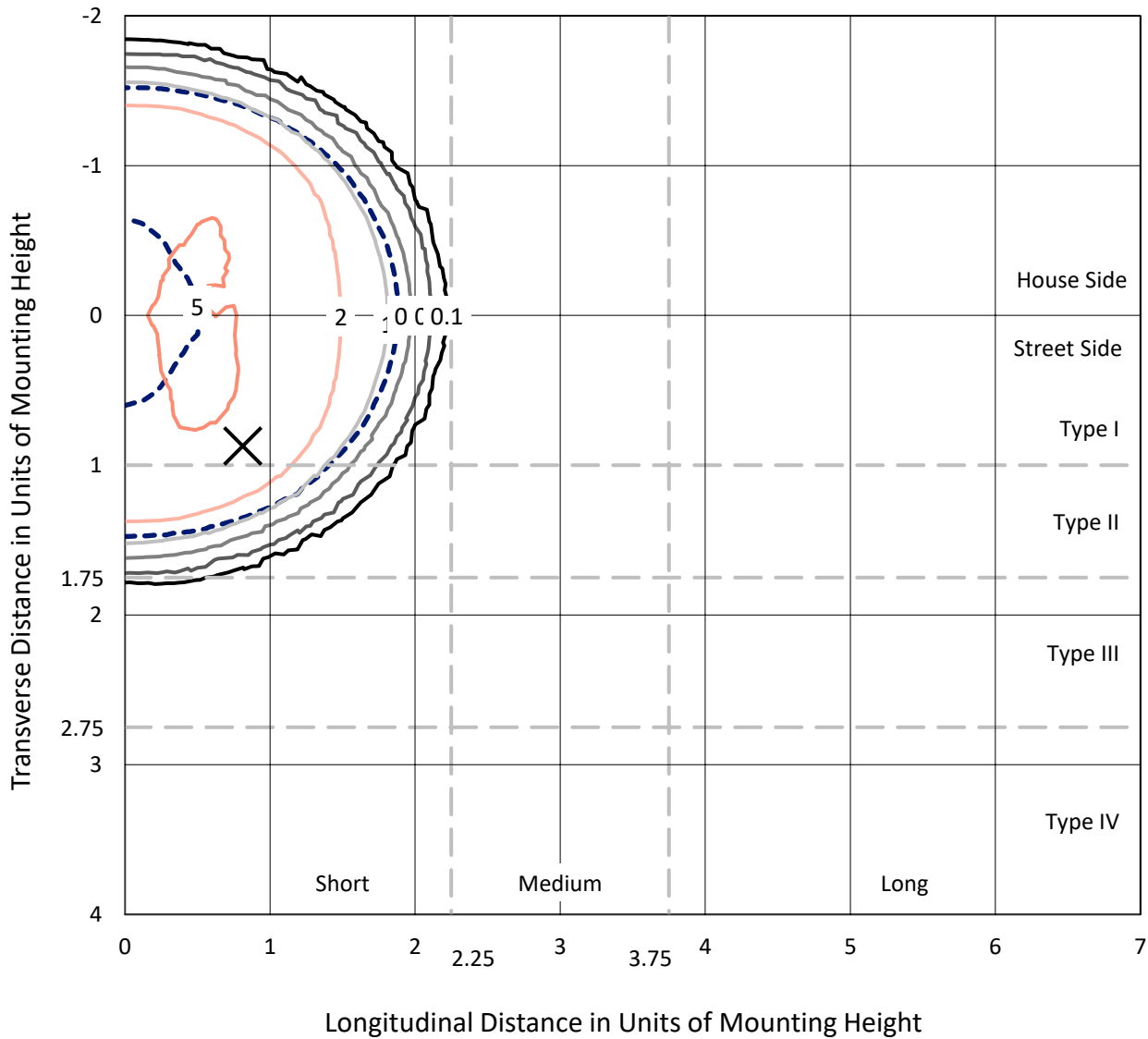
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

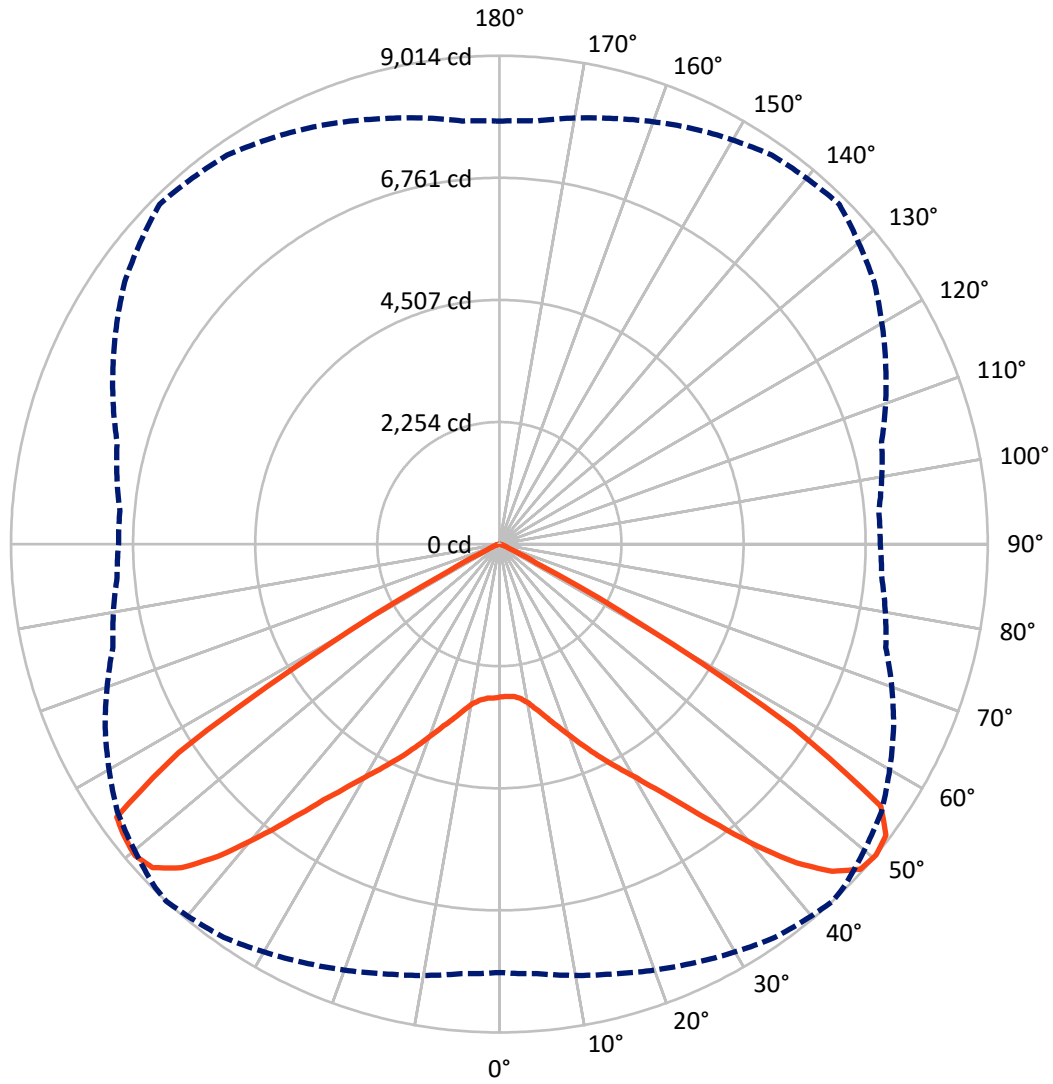
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9916.9	0.0	9916.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9917.4	0.0	9917.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	19834.3	0.0	19834.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.8	1.4
10°-20°	956.0	4.8
20°-30°	1934.2	9.8
30°-40°	3588.7	18.1
40°-50°	5957.0	30.0
50°-60°	6079.4	30.7
60°-70°	996.9	5.0
70°-80°	43.6	0.2
80°-90°	0.6	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°	19834.3	100.0
0°-180°	19834.3	100.0

Coefficient of Utilization



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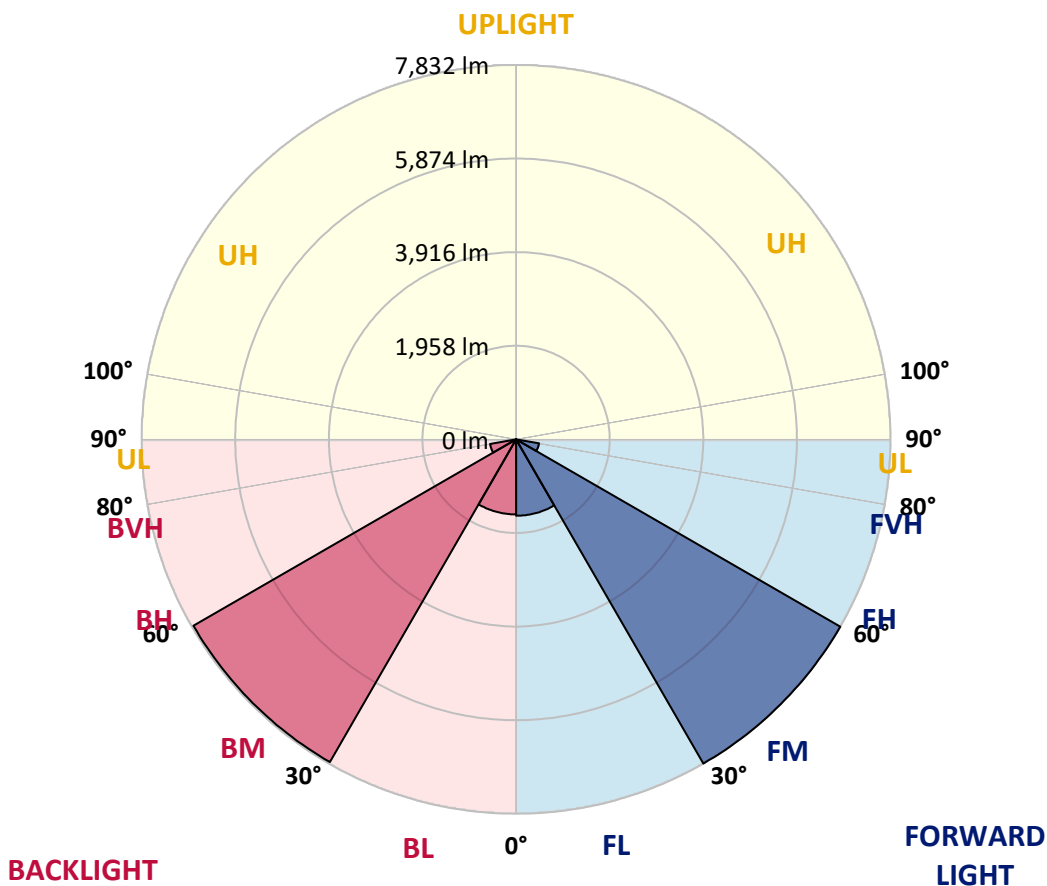
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1597.9	8.1			
FM (30°-60°)	7831.5	39.5			
FH (60°-80°)	487.7	2.5			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	1570.2	7.9	B3/2500		
BM (30°-60°)	7793.5	39.3	B4/8500		
BH (60°-80°)	552.9	2.8	B2/1000		G0/660
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	2821.1	2821.1	2821.1	2821.1	2821.1	2821.1	2821.1	2821.1	2821.1	2821.1	2821.1
2.5°	2768.5	2775.0	2783.8	2792.6	2803.6	2814.5	2821.1	2840.9	2836.5	2854.0	2854.0
5°	2737.8	2744.3	2755.3	2775.0	2799.2	2823.3	2840.9	2880.3	2902.3	2937.4	2950.5
7.5°	2753.1	2761.9	2775.0	2805.8	2843.1	2880.3	2900.1	2963.7	3007.6	3073.4	3110.7
10°	2803.6	2812.3	2834.3	2886.9	2935.2	2987.8	3012.0	3093.1	3163.3	3253.3	3305.9
12.5°	2860.6	2871.6	2915.4	2994.4	3077.8	3148.0	3180.9	3270.8	3343.2	3444.1	3527.5
15°	2919.8	2937.4	3005.4	3121.7	3240.1	3334.4	3369.5	3466.1	3538.5	3646.0	3740.3
17.5°	3058.0	3077.8	3154.6	3279.6	3441.9	3551.6	3582.3	3683.2	3738.1	3810.5	3909.2
20°	3231.3	3268.6	3363.0	3514.3	3692.0	3797.3	3819.3	3918.0	3913.6	3944.3	4029.9
22.5°	3446.3	3472.6	3575.8	3755.6	3955.3	4071.5	4122.0	4163.7	4108.8	4082.5	4137.3
25°	3670.1	3700.8	3812.7	4010.1	4233.9	4367.7	4409.4	4442.3	4354.5	4255.8	4262.4
27.5°	3959.7	3981.6	4091.3	4301.9	4525.6	4677.0	4714.3	4771.3	4655.1	4497.1	4453.2
30°	4304.1	4326.0	4442.3	4663.8	4885.4	5014.8	5071.9	5142.1	5014.8	4817.4	4766.9
32.5°	4707.7	4729.6	4878.8	5107.0	5289.0	5429.4	5484.3	5558.9	5458.0	5236.4	5179.4
35°	5190.3	5203.5	5379.0	5626.9	5819.9	5955.9	5993.2	6081.0	5969.1	5747.5	5716.8
37.5°	5749.7	5765.1	5955.9	6243.3	6440.7	6592.1	6651.3	6675.5	6539.5	6291.6	6267.4
40°	6364.0	6414.4	6600.9	6910.2	7131.8	7322.6	7375.3	7294.1	7103.2	6765.4	6721.5
42.5°	7004.5	7048.4	7256.8	7592.4	7849.1	8044.3	8046.5	7871.0	7546.4	7079.1	7013.3
45°	7537.6	7555.1	7825.0	8162.8	8478.7	8616.9	8630.1	8312.0	7822.8	7261.2	7120.8
47.5°	7903.9	7932.5	8167.2	8491.9	8840.7	8965.7	8939.4	8542.3	7954.4	7379.7	7147.1
50°	7908.3	7956.6	8211.1	8524.8	8862.6	9014.0	8976.7	8608.1	8029.0	7384.0	7083.5
52.5°	7208.5	7287.5	7702.1	8156.2	8673.9	8932.8	8941.6	8693.7	8000.5	7313.8	7026.5
55°	5438.2	5523.8	6045.9	6820.3	7820.6	8542.3	8667.4	8592.8	7967.6	7344.6	7127.4
57.5°	2878.2	2812.3	3101.9	3869.7	5126.7	6403.4	6769.8	7366.5	7601.2	7381.8	7313.8
60°	627.4	669.1	890.6	1200.0	2000.7	3012.0	3369.5	4391.8	5607.1	6146.8	6537.3
62.5°	269.8	265.4	276.4	313.7	458.5	763.4	932.3	1522.4	2402.1	3299.3	3907.0
65°	221.6	223.8	232.5	232.5	217.2	219.4	230.3	348.8	561.6	787.5	1057.4
67.5°	166.7	168.9	184.3	188.7	177.7	157.9	155.8	131.6	138.2	173.3	179.9
70°	105.3	105.3	114.1	118.5	118.5	109.7	107.5	94.3	92.1	105.3	118.5
72.5°	57.0	57.0	61.4	63.6	61.4	59.2	59.2	57.0	54.8	63.6	81.2
75°	24.1	24.1	26.3	26.3	24.1	24.1	24.1	24.1	24.1	28.5	43.9
77.5°	4.4	6.6	8.8	6.6	4.4	4.4	4.4	6.6	6.6	8.8	13.2
80°	2.2	2.2	4.4	2.2	0.0	0.0	0.0	0.0	2.2	2.2	2.2
82.5°	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2821.1	2821.1	2821.1	2821.1	2821.1	2821.1	2821.1	2821.1	2821.1	2821.1	2821.1
2.5°	2869.4	2845.2	2854.0	2858.4	2851.8	2847.4	2823.3	2816.7	2805.8	2788.2	2783.8
5°	2965.9	2946.2	2944.0	2930.8	2900.1	2862.8	2816.7	2797.0	2775.0	2753.1	2748.7
7.5°	3128.2	3104.1	3088.7	3044.9	2974.7	2915.4	2838.7	2797.0	2768.5	2739.9	2733.4
10°	3336.6	3308.1	3264.2	3183.1	3088.7	3003.2	2913.3	2858.4	2814.5	2775.0	2772.9
12.5°	3558.2	3527.5	3448.5	3345.4	3231.3	3152.4	3038.3	2961.5	2895.7	2836.5	2829.9
15°	3790.7	3753.4	3646.0	3523.1	3417.8	3336.6	3211.6	3088.7	2987.8	2902.3	2893.5
17.5°	3968.4	3922.4	3795.1	3703.0	3617.4	3534.1	3393.7	3231.3	3097.5	2994.4	2970.3
20°	4080.3	4036.4	3915.8	3865.3	3825.8	3766.6	3599.9	3431.0	3281.8	3154.6	3132.6
22.5°	4187.8	4135.1	4029.9	4029.9	4060.6	4036.4	3856.5	3663.5	3488.0	3341.0	3308.1
25°	4308.5	4266.8	4192.2	4253.6	4330.4	4328.2	4143.9	3902.6	3700.8	3536.3	3503.4
27.5°	4484.0	4442.3	4415.9	4532.2	4628.7	4622.2	4420.3	4159.3	3946.5	3784.2	3753.4
30°	4793.3	4753.8	4725.3	4865.7	4988.5	4942.4	4720.9	4468.6	4253.6	4069.3	4047.4
32.5°	5205.7	5164.0	5126.7	5267.1	5376.8	5317.6	5107.0	4870.0	4622.2	4442.3	4398.4
35°	5747.5	5659.8	5622.5	5789.2	5835.3	5769.5	5567.6	5359.2	5096.0	4889.8	4861.3
37.5°	6306.9	6203.8	6177.5	6322.3	6396.9	6372.7	6135.8	5918.6	5633.5	5405.3	5372.4
40°	6785.2	6690.8	6644.8	6870.7	7039.6	7055.0	6842.2	6576.8	6241.1	6004.2	5945.0
42.5°	7066.0	6984.8	6973.8	7324.8	7601.2	7798.7	7544.2	7270.0	6916.8	6649.1	6600.9
45°	7129.6	7076.9	7169.1	7629.7	8059.7	8419.5	8202.3	7912.7	7531.0	7248.0	7202.0
47.5°	7123.0	7105.4	7270.0	7787.7	8331.7	8774.9	8667.4	8340.5	7972.0	7675.8	7631.9
50°	7028.7	7030.9	7305.1	7866.7	8441.4	8871.4	8763.9	8461.2	8132.1	7840.3	7805.2
52.5°	6991.4	6978.2	7239.3	7842.5	8553.3	8827.5	8586.2	8246.2	7879.8	7520.0	7467.4
55°	7123.0	7090.1	7248.0	7822.8	8566.5	8803.4	8167.2	7430.1	6679.9	6254.3	6219.2
57.5°	7320.4	7285.3	7359.9	7678.0	7879.8	7320.4	6010.8	4821.8	4049.6	3722.7	3580.1
60°	6537.3	6513.1	6456.1	6072.2	5207.9	3928.9	2676.3	1706.7	1226.3	991.6	991.6
62.5°	4056.2	4023.3	3714.0	2759.7	2005.1	1160.5	638.4	399.3	302.7	283.0	280.8
65°	1138.5	1132.0	936.7	662.5	421.2	261.1	230.3	234.7	230.3	223.8	221.6
67.5°	171.1	188.7	188.7	153.6	147.0	164.5	193.0	206.2	195.2	184.3	179.9
70°	109.7	118.5	114.1	98.7	105.3	122.8	138.2	140.4	133.8	122.8	120.7
72.5°	76.8	85.6	70.2	63.6	65.8	72.4	79.0	79.0	76.8	72.4	68.0
75°	46.1	46.1	32.9	30.7	30.7	32.9	32.9	37.3	37.3	35.1	32.9
77.5°	15.4	17.5	11.0	8.8	8.8	8.8	11.0	13.2	13.2	11.0	8.8
80°	2.2	4.4	2.2	2.2	2.2	2.2	2.2	2.2	4.4	4.4	2.2
82.5°	2.2	2.2	2.2	0.0	0.0	0.0	0.0	2.2	2.2	2.2	2.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)