

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: P638191

Luminaire Tested: GWS-SA4E-735-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638191
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19562.4 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

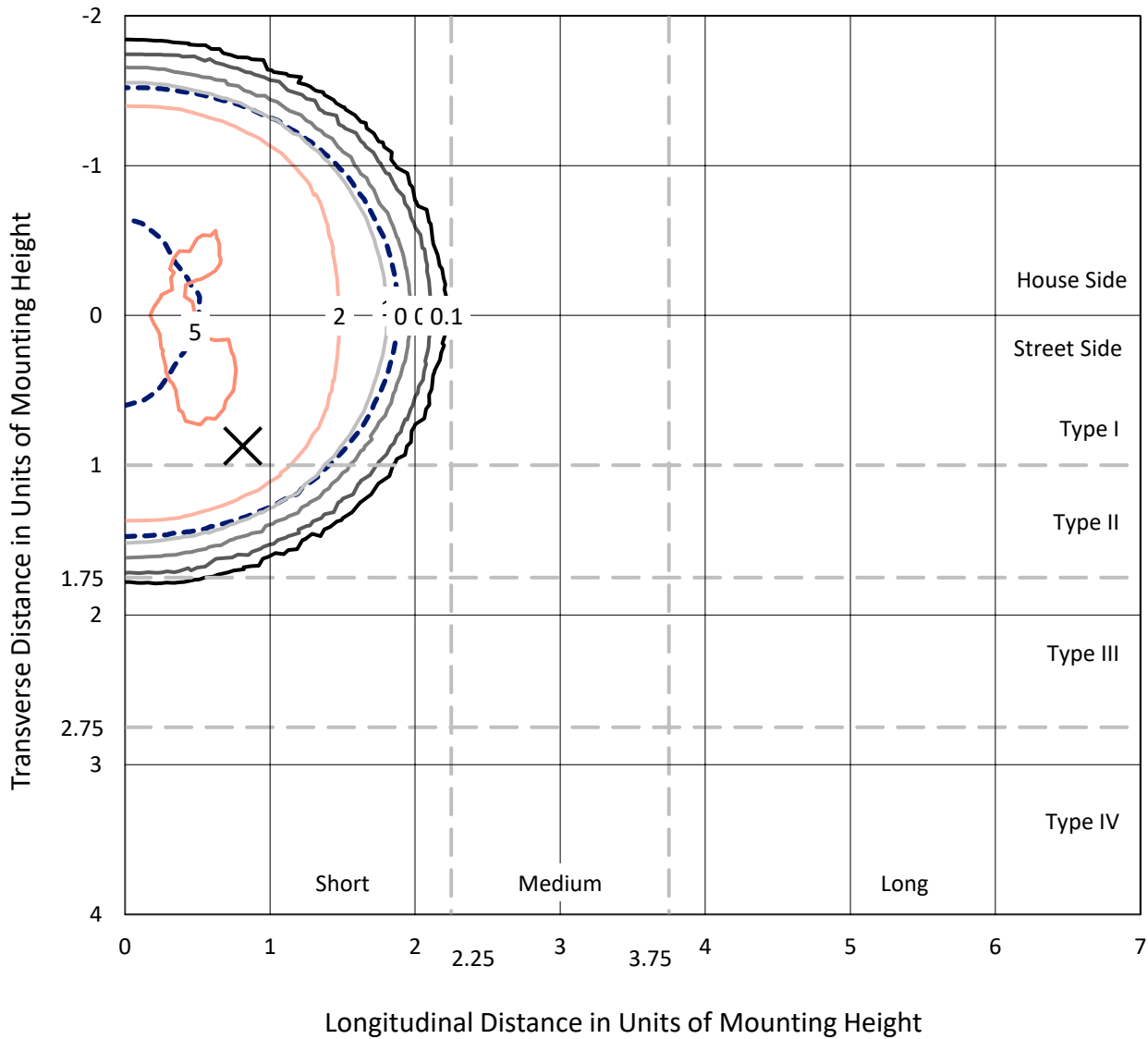
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

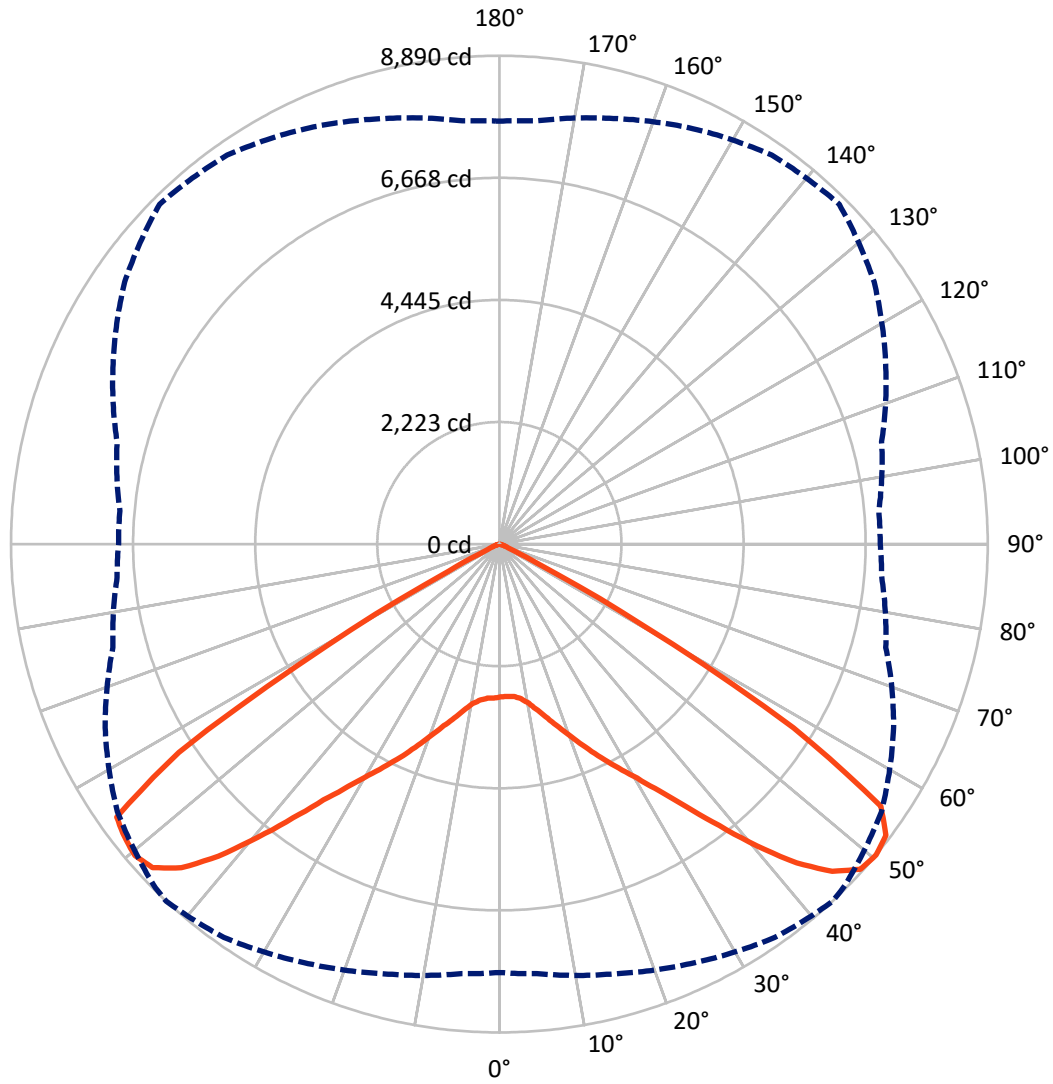
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	9781.0	0.0	9781.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9781.4	0.0	9781.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	19562.4	0.0	19562.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.0	1.4
10°-20°	942.9	4.8
20°-30°	1907.7	9.8
30°-40°	3539.5	18.1
40°-50°	5875.3	30.0
50°-60°	5996.0	30.7
60°-70°	983.3	5.0
70°-80°	43.1	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°	19562.4	100.0
0°-180°	19562.4	100.0

Coefficient of Utilization



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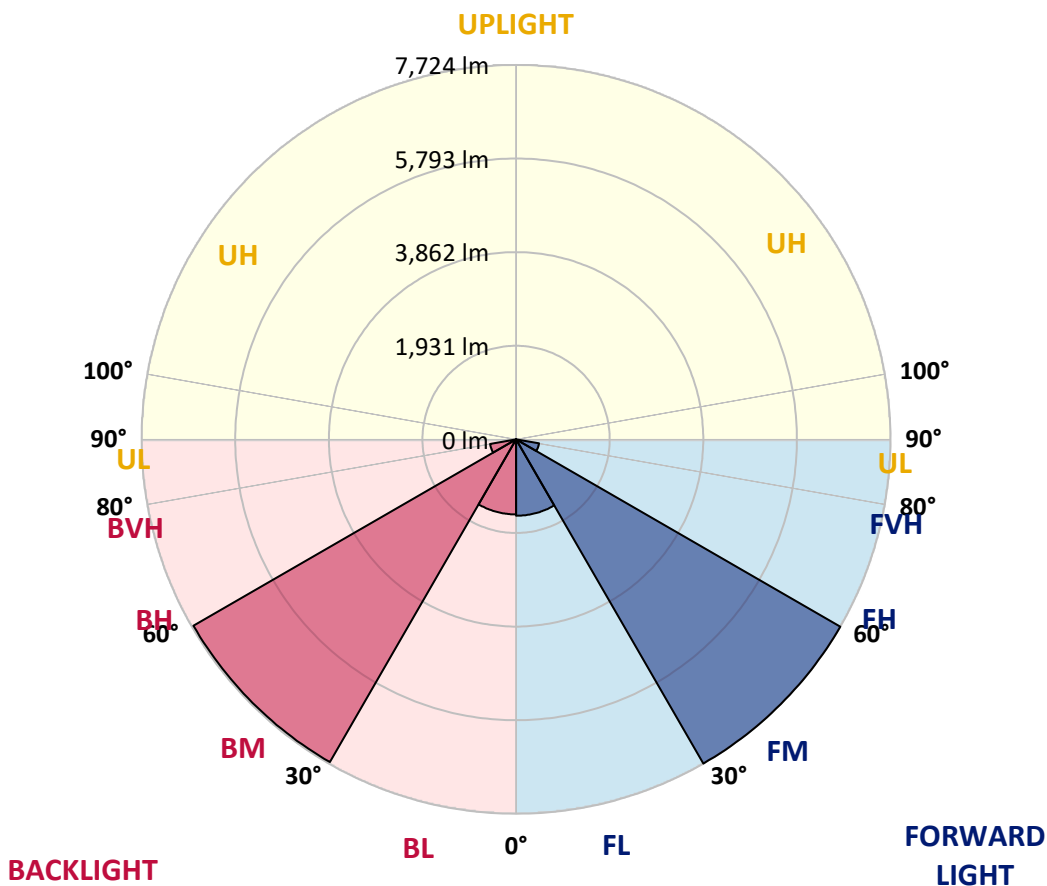
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1576.0	8.1			
FM (30°-60°)	7724.2	39.5			
FH (60°-80°)	481.0	2.5			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	1548.6	7.9	B3/2500		
BM (30°-60°)	7686.6	39.3	B4/8500		
BH (60°-80°)	545.3	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°	2782.4	2782.4	2782.4	2782.4	2782.4	2782.4	2782.4	2782.4	2782.4	2782.4	2782.4
2.5°	2730.5	2737.0	2745.7	2754.3	2765.1	2776.0	2782.4	2801.9	2797.6	2814.9	2814.9
5°	2700.2	2706.7	2717.5	2737.0	2760.8	2784.6	2801.9	2840.9	2862.5	2897.1	2910.1
7.5°	2715.4	2724.0	2737.0	2767.3	2804.1	2840.9	2860.3	2923.1	2966.4	3031.3	3068.0
10°	2765.1	2773.8	2795.4	2847.4	2895.0	2946.9	2970.7	3050.7	3120.0	3208.7	3260.6
12.5°	2821.4	2832.2	2875.5	2953.4	3035.6	3104.8	3137.3	3226.0	3297.4	3396.9	3479.1
15°	2879.8	2897.1	2964.2	3078.9	3195.7	3288.7	3323.4	3418.6	3490.0	3596.0	3689.0
17.5°	3016.1	3035.6	3111.3	3234.6	3394.8	3502.9	3533.2	3632.8	3686.8	3758.2	3855.6
20°	3187.0	3223.8	3316.9	3466.2	3641.4	3745.3	3766.9	3864.3	3859.9	3890.2	3974.6
22.5°	3399.1	3425.0	3526.7	3704.2	3901.0	4015.7	4065.5	4106.6	4052.5	4026.5	4080.6
25°	3619.8	3650.1	3760.4	3955.1	4175.8	4307.8	4348.9	4381.4	4294.8	4197.5	4204.0
27.5°	3905.4	3927.0	4035.2	4242.9	4463.6	4612.9	4649.7	4705.9	4591.2	4435.5	4392.2
30°	4245.1	4266.7	4381.4	4599.9	4818.4	4946.1	5002.3	5071.6	4946.1	4751.4	4701.6
32.5°	4643.2	4664.8	4811.9	5037.0	5216.5	5355.0	5409.1	5482.7	5383.1	5164.6	5108.4
35°	5119.2	5132.2	5305.2	5549.7	5740.1	5874.3	5911.1	5997.6	5887.3	5668.7	5638.4
37.5°	5670.9	5686.0	5874.3	6157.7	6352.4	6501.7	6560.2	6584.0	6449.8	6205.3	6181.5
40°	6276.7	6326.5	6510.4	6815.5	7034.0	7222.2	7274.2	7194.1	7005.9	6672.7	6629.4
42.5°	6908.5	6951.8	7157.3	7488.4	7741.5	7934.1	7936.2	7763.1	7442.9	6982.1	6917.2
45°	7434.3	7451.6	7717.7	8050.9	8362.5	8498.8	8511.8	8198.0	7715.5	7161.7	7023.2
47.5°	7795.6	7823.7	8055.2	8375.5	8719.5	8842.8	8816.8	8425.2	7845.4	7278.5	7049.1
50°	7799.9	7847.5	8098.5	8407.9	8741.1	8890.4	8853.6	8490.1	7918.9	7282.8	6986.4
52.5°	7109.7	7187.6	7596.5	8044.4	8555.0	8810.3	8819.0	8574.5	7890.8	7213.6	6930.1
55°	5363.7	5448.0	5963.0	6726.8	7713.4	8425.2	8548.5	8475.0	7858.3	7243.9	7029.7
57.5°	2838.7	2773.8	3059.4	3816.7	5056.4	6315.7	6677.0	7265.5	7497.0	7280.7	7213.6
60°	618.8	659.9	878.4	1183.5	1973.2	2970.7	3323.4	4331.6	5530.3	6062.5	6447.6
62.5°	266.1	261.8	272.6	309.4	452.2	752.9	919.5	1501.6	2369.2	3254.1	3853.4
65°	218.5	220.7	229.3	229.3	214.2	216.4	227.2	344.0	553.9	776.7	1042.9
67.5°	164.4	166.6	181.7	186.1	175.3	155.8	153.6	129.8	136.3	170.9	177.4
70°	103.9	103.9	112.5	116.8	116.8	108.2	106.0	93.0	90.9	103.9	116.8
72.5°	56.3	56.3	60.6	62.7	60.6	58.4	58.4	56.3	54.1	62.7	80.1
75°	23.8	23.8	26.0	26.0	23.8	23.8	23.8	23.8	23.8	28.1	43.3
77.5°	4.3	6.5	8.7	6.5	4.3	4.3	4.3	6.5	6.5	8.7	13.0
80°	2.2	2.2	4.3	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°	2782.4	2782.4	2782.4	2782.4	2782.4	2782.4	2782.4	2782.4	2782.4	2782.4	2782.4
2.5°	2830.0	2806.2	2814.9	2819.2	2812.7	2808.4	2784.6	2778.1	2767.3	2750.0	2745.7
5°	2925.2	2905.8	2903.6	2890.6	2860.3	2823.6	2778.1	2758.6	2737.0	2715.4	2711.0
7.5°	3085.4	3061.6	3046.4	3003.1	2933.9	2875.5	2799.8	2758.6	2730.5	2702.4	2695.9
10°	3290.9	3262.8	3219.5	3139.4	3046.4	2962.0	2873.3	2819.2	2776.0	2737.0	2734.8
12.5°	3509.4	3479.1	3401.2	3299.6	3187.0	3109.2	2996.6	2920.9	2856.0	2797.6	2791.1
15°	3738.8	3702.0	3596.0	3474.8	3371.0	3290.9	3167.6	3046.4	2946.9	2862.5	2853.8
17.5°	3914.0	3868.6	3743.1	3652.2	3567.8	3485.6	3347.2	3187.0	3055.1	2953.4	2929.6
20°	4024.4	3981.1	3862.1	3812.3	3773.4	3715.0	3550.5	3383.9	3236.8	3111.3	3089.7
22.5°	4130.4	4078.5	3974.6	3974.6	4004.9	3981.1	3803.7	3613.3	3440.2	3295.2	3262.8
25°	4249.4	4208.3	4134.7	4195.3	4271.0	4268.9	4087.1	3849.1	3650.1	3487.8	3455.3
27.5°	4422.5	4381.4	4355.4	4470.1	4565.3	4558.8	4359.7	4102.3	3892.4	3732.3	3702.0
30°	4727.6	4688.6	4660.5	4799.0	4920.1	4874.7	4656.2	4407.3	4195.3	4013.6	3991.9
32.5°	5134.3	5093.2	5056.4	5194.9	5303.1	5244.7	5037.0	4803.3	4558.8	4381.4	4338.1
35°	5668.7	5582.2	5545.4	5709.8	5755.3	5690.4	5491.3	5285.8	5026.1	4822.8	4794.6
37.5°	6220.5	6118.8	6092.8	6235.6	6309.2	6285.4	6051.7	5837.5	5556.2	5331.2	5298.8
40°	6692.1	6599.1	6553.7	6776.5	6943.1	6958.3	6748.4	6486.6	6155.6	5921.9	5863.5
42.5°	6969.1	6889.0	6878.2	7224.4	7497.0	7691.7	7440.8	7170.3	6822.0	6558.0	6510.4
45°	7031.8	6979.9	7070.8	7525.1	7949.2	8304.1	8089.9	7804.3	7427.8	7148.7	7103.2
47.5°	7025.3	7008.0	7170.3	7680.9	8217.5	8654.6	8548.5	8226.2	7862.7	7570.6	7527.3
50°	6932.3	6934.5	7204.9	7758.8	8325.7	8749.8	8643.7	8345.2	8020.6	7732.9	7698.2
52.5°	6895.5	6882.5	7140.0	7735.0	8436.0	8706.5	8468.5	8133.1	7771.8	7417.0	7365.0
55°	7025.3	6992.9	7148.7	7715.5	8449.0	8682.7	8055.2	7328.3	6588.3	6168.5	6133.9
57.5°	7220.1	7185.5	7259.0	7572.7	7771.8	7220.1	5928.4	4755.7	3994.1	3671.7	3531.1
60°	6447.6	6423.8	6367.6	5989.0	5136.5	3875.1	2639.6	1683.3	1209.5	978.0	978.0
62.5°	4000.6	3968.1	3663.0	2721.9	1977.6	1144.6	629.6	393.8	298.6	279.1	276.9
65°	1122.9	1116.4	923.9	653.4	415.4	257.5	227.2	231.5	227.2	220.7	218.5
67.5°	168.8	186.1	186.1	151.5	145.0	162.3	190.4	203.4	192.6	181.7	177.4
70°	108.2	116.8	112.5	97.4	103.9	121.2	136.3	138.5	132.0	121.2	119.0
72.5°	75.7	84.4	69.2	62.7	64.9	71.4	77.9	77.9	75.7	71.4	67.1
75°	45.4	45.4	32.5	30.3	30.3	32.5	32.5	36.8	36.8	34.6	32.5
77.5°	15.1	17.3	10.8	8.7	8.7	8.7	10.8	13.0	13.0	10.8	8.7
80°	2.2	4.3	2.2	2.2	2.2	2.2	2.2	2.2	4.3	4.3	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)