

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: P638356

Luminaire Tested: GWS-SA4E-760-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638356
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20010.7 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

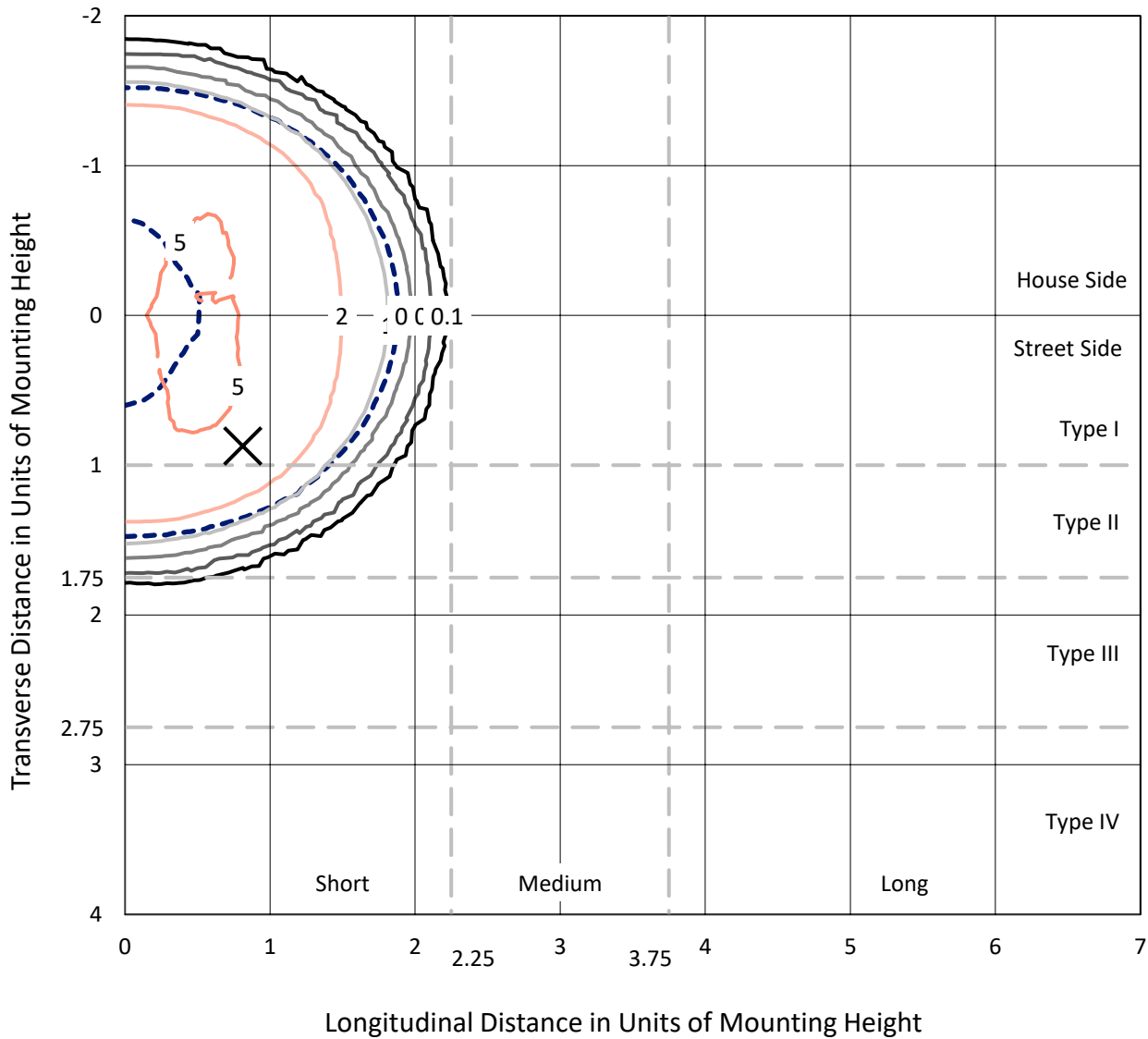
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

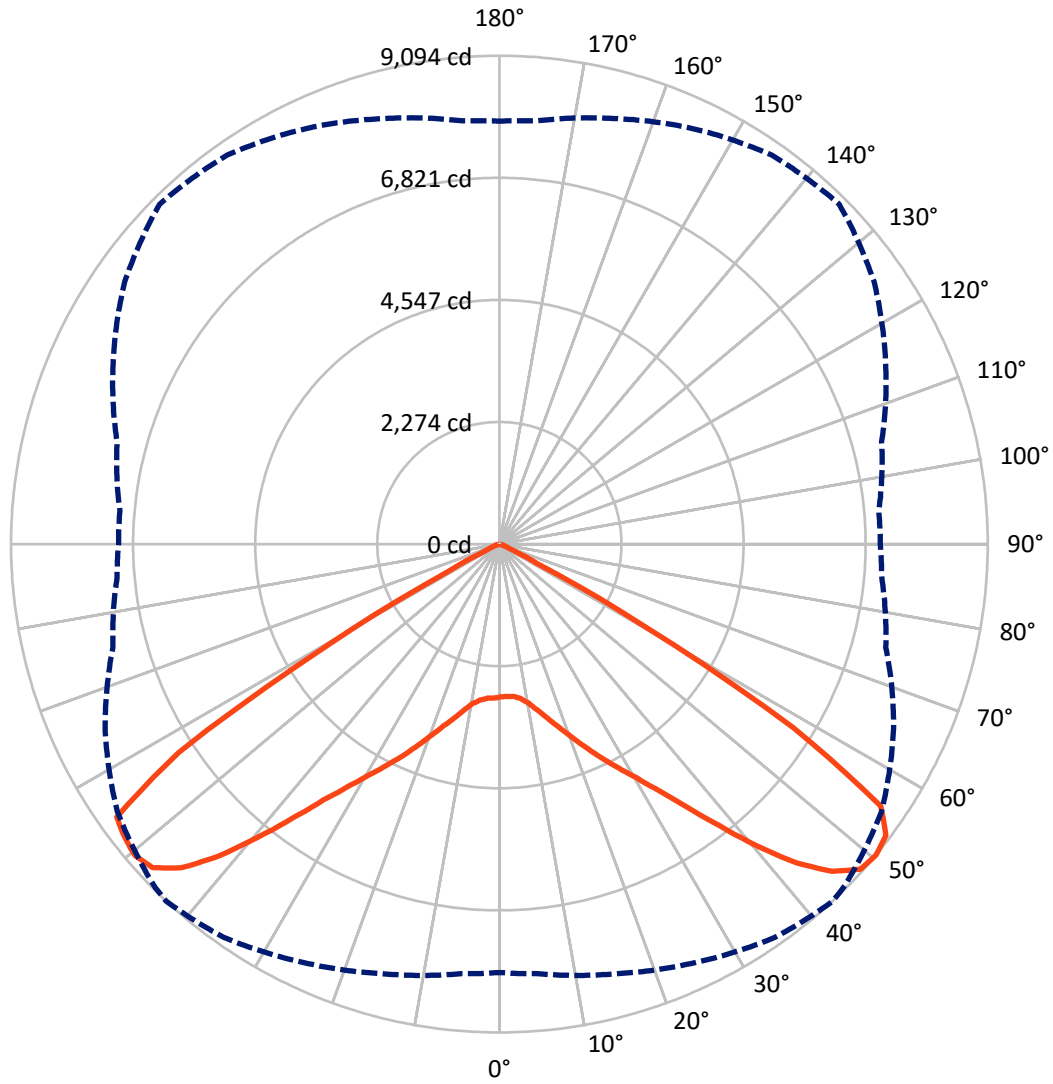
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	10005.1	0.0	10005.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10005.6	0.0	10005.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	20010.7	0.0	20010.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.3	1.4
10°-20°	964.5	4.8
20°-30°	1951.4	9.8
30°-40°	3620.6	18.1
40°-50°	6010.0	30.0
50°-60°	6133.4	30.7
60°-70°	1005.8	5.0
70°-80°	44.0	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°	20010.7	100.0
0°-180°	20010.7	100.0

Coefficient of Utilization



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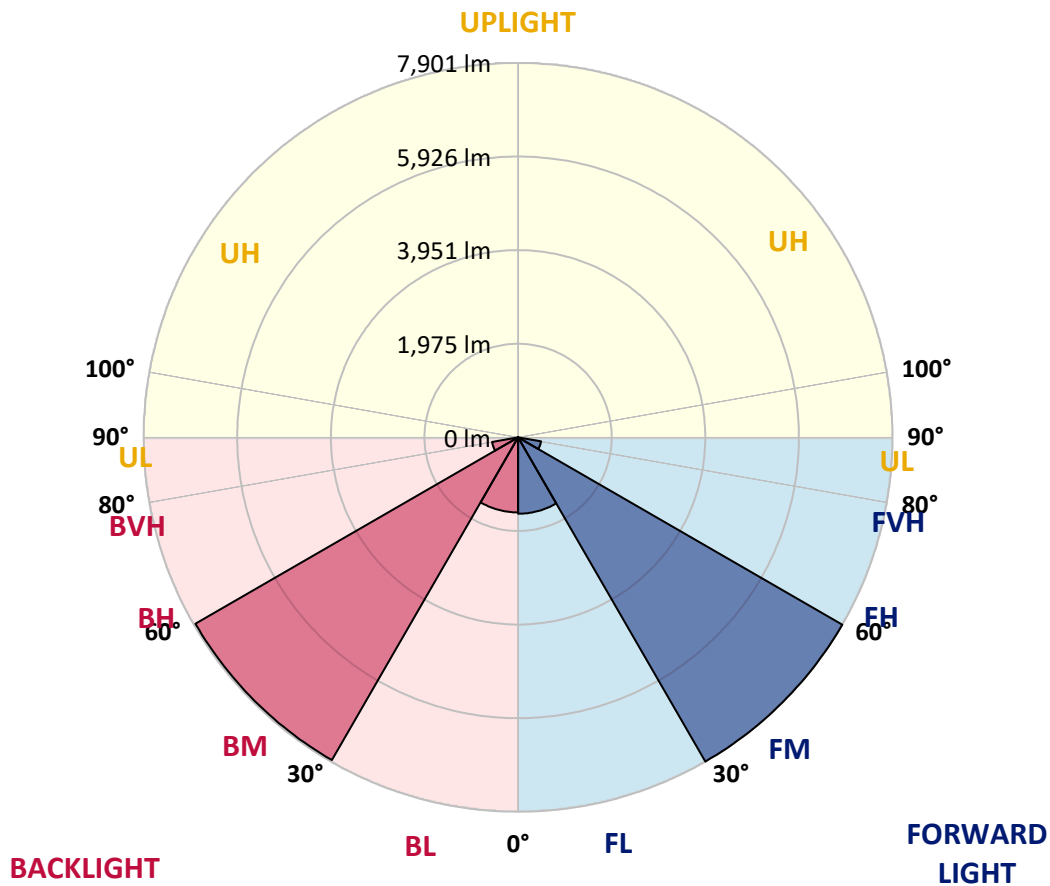
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1612.1	8.1			
FM (30°-60°)	7901.2	39.5			
FH (60°-80°)	492.0	2.5			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	1584.1	7.9	B3/2500		
BM (30°-60°)	7862.8	39.3	B4/8500		
BH (60°-80°)	557.8	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°	2846.2	2846.2	2846.2	2846.2	2846.2	2846.2	2846.2	2846.2	2846.2	2846.2	2846.2
2.5°	2793.1	2799.7	2808.6	2817.4	2828.5	2839.6	2846.2	2866.1	2861.7	2879.4	2879.4
5°	2762.1	2768.7	2779.8	2799.7	2824.1	2848.4	2866.1	2906.0	2928.1	2963.5	2976.8
7.5°	2777.6	2786.4	2799.7	2830.7	2868.3	2906.0	2925.9	2990.1	3034.3	3100.7	3138.4
10°	2828.5	2837.4	2859.5	2912.6	2961.3	3014.4	3038.8	3120.6	3191.5	3282.2	3335.3
12.5°	2886.0	2897.1	2941.4	3021.1	3105.2	3176.0	3209.2	3299.9	3373.0	3474.8	3558.9
15°	2945.8	2963.5	3032.1	3149.4	3268.9	3364.1	3399.5	3496.9	3569.9	3678.4	3773.5
17.5°	3085.2	3105.2	3182.6	3308.8	3472.5	3583.2	3614.2	3716.0	3771.3	3844.4	3944.0
20°	3260.1	3297.7	3392.9	3545.6	3724.9	3831.1	3853.2	3952.8	3948.4	3979.4	4065.7
22.5°	3477.0	3503.5	3607.6	3789.0	3990.4	4107.7	4158.6	4200.7	4145.4	4118.8	4174.1
25°	3702.7	3733.7	3846.6	4045.8	4271.5	4406.5	4448.6	4481.8	4393.2	4293.7	4300.3
27.5°	3994.9	4017.0	4127.7	4340.1	4565.9	4718.6	4756.2	4813.8	4696.5	4537.1	4492.8
30°	4342.3	4364.5	4481.8	4705.3	4928.8	5059.4	5117.0	5187.8	5059.4	4860.2	4809.3
32.5°	4749.6	4771.7	4922.2	5152.4	5336.1	5477.7	5533.1	5608.3	5506.5	5283.0	5225.4
35°	5236.5	5249.8	5426.8	5676.9	5871.7	6008.9	6046.5	6135.1	6022.2	5798.6	5767.7
37.5°	5800.9	5816.4	6008.9	6298.8	6498.0	6650.7	6710.5	6734.8	6597.6	6347.5	6323.2
40°	6420.6	6471.5	6659.6	6971.7	7195.2	7387.7	7440.9	7359.0	7166.4	6825.6	6781.3
42.5°	7066.8	7111.1	7321.3	7660.0	7918.9	8115.9	8118.1	7941.0	7613.5	7142.1	7075.7
45°	7604.6	7622.3	7894.6	8235.4	8554.1	8693.5	8706.8	8385.9	7892.4	7325.8	7184.1
47.5°	7974.2	8003.0	8239.8	8567.4	8919.3	9045.4	9018.9	8618.3	8025.1	7445.3	7210.7
50°	7978.7	8027.4	8284.1	8600.6	8941.4	9094.1	9056.5	8684.7	8100.4	7449.7	7146.5
52.5°	7272.7	7352.3	7770.6	8228.8	8751.1	9012.2	9021.1	8771.0	8071.6	7378.9	7089.0
55°	5486.6	5572.9	6099.6	6880.9	7890.1	8618.3	8744.4	8669.2	8038.4	7409.9	7190.8
57.5°	2903.7	2837.4	3129.5	3904.1	5172.3	6460.4	6830.0	7432.0	7668.8	7447.5	7378.9
60°	633.0	675.0	898.6	1210.6	2018.5	3038.8	3399.5	4430.9	5657.0	6201.5	6595.4
62.5°	272.2	267.8	278.9	316.5	462.6	770.2	940.6	1536.0	2423.5	3328.7	3941.8
65°	223.5	225.7	234.6	234.6	219.1	221.3	232.4	351.9	566.6	794.5	1066.8
67.5°	168.2	170.4	185.9	190.3	179.3	159.4	157.1	132.8	139.4	174.8	181.5
70°	106.2	106.2	115.1	119.5	119.5	110.7	108.4	95.2	93.0	106.2	119.5
72.5°	57.5	57.5	62.0	64.2	62.0	59.8	59.8	57.5	55.3	64.2	81.9
75°	24.3	24.3	26.6	26.6	24.3	24.3	24.3	24.3	24.3	28.8	44.3
77.5°	4.4	6.6	8.9	6.6	4.4	4.4	4.4	6.6	6.6	8.9	13.3
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°	2846.2	2846.2	2846.2	2846.2	2846.2	2846.2	2846.2	2846.2	2846.2	2846.2	2846.2
2.5°	2894.9	2870.6	2879.4	2883.8	2877.2	2872.8	2848.4	2841.8	2830.7	2813.0	2808.6
5°	2992.3	2972.4	2970.1	2956.9	2925.9	2888.3	2841.8	2821.9	2799.7	2777.6	2773.2
7.5°	3156.1	3131.7	3116.2	3072.0	3001.1	2941.4	2863.9	2821.9	2793.1	2764.3	2757.7
10°	3366.3	3337.5	3293.3	3211.4	3116.2	3029.9	2939.2	2883.8	2839.6	2799.7	2797.5
12.5°	3589.8	3558.9	3479.2	3375.2	3260.1	3180.4	3065.3	2987.9	2921.5	2861.7	2855.1
15°	3824.5	3786.8	3678.4	3554.4	3448.2	3366.3	3240.2	3116.2	3014.4	2928.1	2919.2
17.5°	4003.7	3957.2	3828.9	3735.9	3649.6	3565.5	3423.9	3260.1	3125.1	3021.1	2996.7
20°	4116.6	4072.3	3950.6	3899.7	3859.9	3800.1	3631.9	3461.5	3311.0	3182.6	3160.5
22.5°	4225.0	4171.9	4065.7	4065.7	4096.7	4072.3	3890.8	3696.1	3519.0	3370.7	3337.5
25°	4346.8	4304.7	4229.5	4291.4	4368.9	4366.7	4180.8	3937.3	3733.7	3567.7	3534.5
27.5°	4523.8	4481.8	4455.2	4572.5	4669.9	4663.3	4459.6	4196.3	3981.6	3817.8	3786.8
30°	4835.9	4796.1	4767.3	4908.9	5032.9	4986.4	4762.9	4508.3	4291.4	4105.5	4083.4
32.5°	5252.0	5209.9	5172.3	5313.9	5424.6	5364.9	5152.4	4913.4	4663.3	4481.8	4437.5
35°	5798.6	5710.1	5672.5	5840.7	5887.2	5820.8	5617.2	5406.9	5141.3	4933.3	4904.5
37.5°	6363.0	6259.0	6232.4	6378.5	6453.8	6429.4	6190.4	5971.3	5683.6	5453.4	5420.2
40°	6845.5	6750.3	6703.9	6931.8	7102.2	7117.7	6903.0	6635.2	6296.6	6057.6	5997.8
42.5°	7128.8	7046.9	7035.8	7390.0	7668.8	7868.0	7611.3	7334.6	6978.3	6708.3	6659.6
45°	7193.0	7139.9	7232.8	7697.6	8131.4	8494.4	8275.2	7983.1	7598.0	7312.5	7266.0
47.5°	7186.3	7168.6	7334.6	7856.9	8405.8	8852.9	8744.4	8414.7	8042.9	7744.1	7699.8
50°	7091.2	7093.4	7370.0	7936.6	8516.5	8950.3	8841.8	8536.4	8204.4	7910.1	7874.6
52.5°	7053.5	7040.3	7303.6	7912.3	8629.4	8906.0	8662.6	8319.5	7949.9	7586.9	7533.8
55°	7186.3	7153.1	7312.5	7892.4	8642.6	8881.7	8239.8	7496.2	6739.3	6309.9	6274.5
57.5°	7385.5	7350.1	7425.4	7746.3	7949.9	7385.5	6064.2	4864.7	4085.6	3755.8	3612.0
60°	6595.4	6571.1	6513.5	6126.2	5254.2	3963.9	2700.1	1721.9	1237.2	1000.4	1000.4
62.5°	4092.3	4059.1	3747.0	2784.2	2022.9	1170.8	644.0	402.8	305.4	285.5	283.3
65°	1148.7	1142.0	945.0	668.4	424.9	263.4	232.4	236.8	232.4	225.7	223.5
67.5°	172.6	190.3	190.3	154.9	148.3	166.0	194.8	208.0	197.0	185.9	181.5
70°	110.7	119.5	115.1	99.6	106.2	123.9	139.4	141.6	135.0	123.9	121.7
72.5°	77.5	86.3	70.8	64.2	66.4	73.0	79.7	79.7	77.5	73.0	68.6
75°	46.5	46.5	33.2	31.0	31.0	33.2	33.2	37.6	37.6	35.4	33.2
77.5°	15.5	17.7	11.1	8.9	8.9	8.9	11.1	13.3	13.3	11.1	8.9
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)