

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: P639349

Luminaire Tested: GWS-SA5B-760-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639349  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-760-U-SL2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

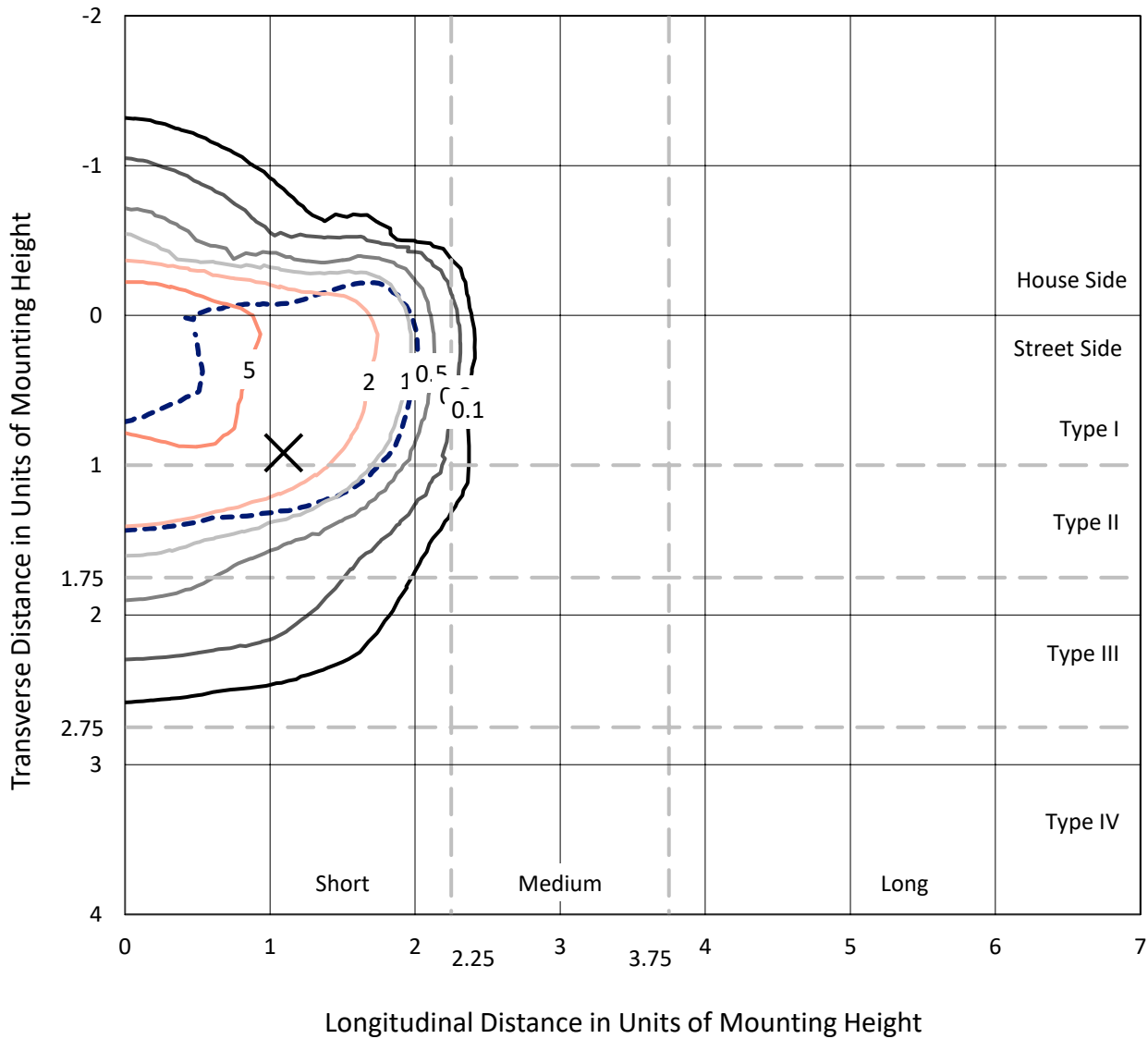
Lumens per Lamp: N/A  
Luminaire Lumens: 10518.8 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

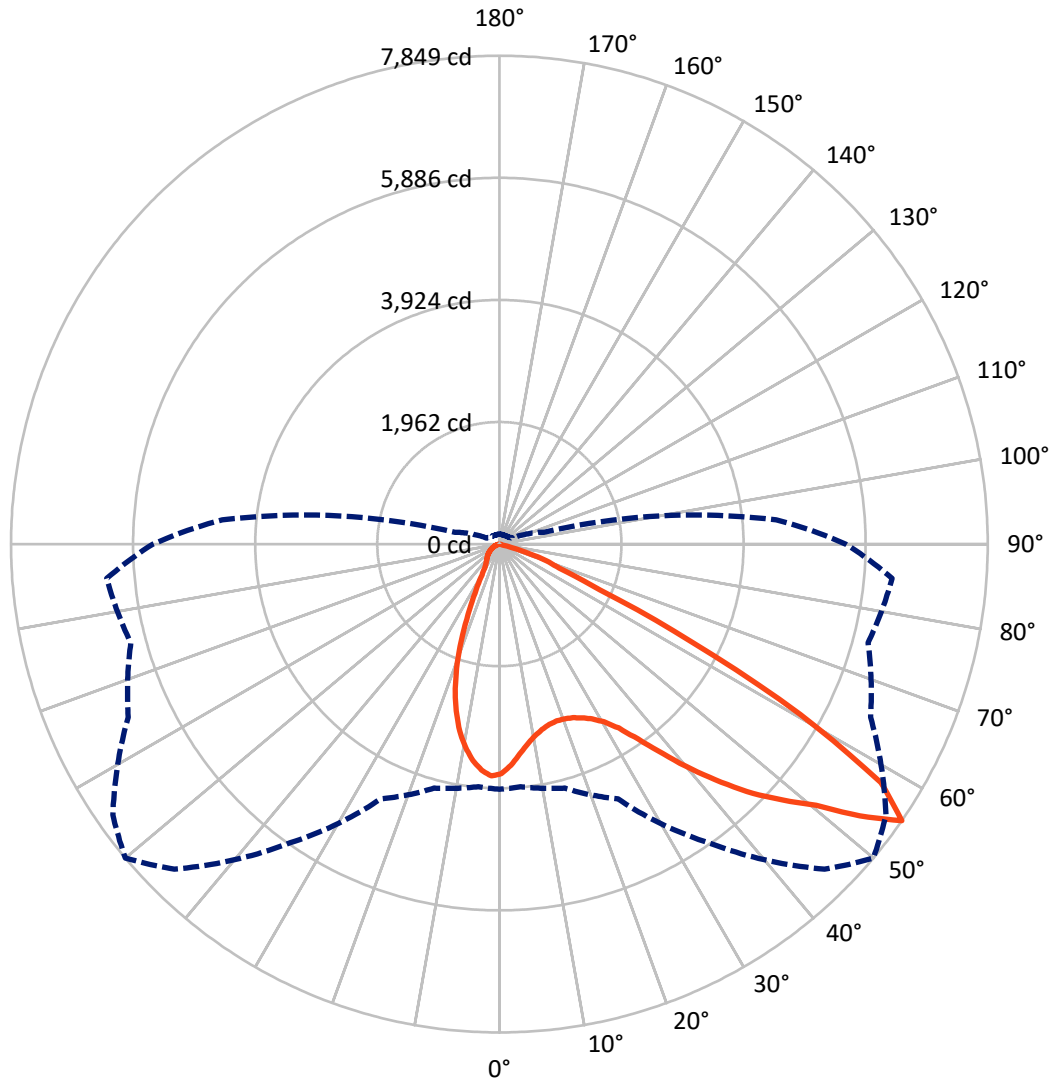
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2072.7	0.0	2072.7
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	8446.1	0.0	8446.1
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	10518.8	0.0	10518.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	324.1	3.1
10°-20°	797.6	7.6
20°-30°	1125.0	10.7
30°-40°	1664.8	15.8
40°-50°	2401.8	22.8
50°-60°	2833.1	26.9
60°-70°	1263.8	12.0
70°-80°	108.6	1.0
80°-90°	0.0	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°	10518.8	100.0
0°-180°	10518.8	100.0

**Coefficient of Utilization**



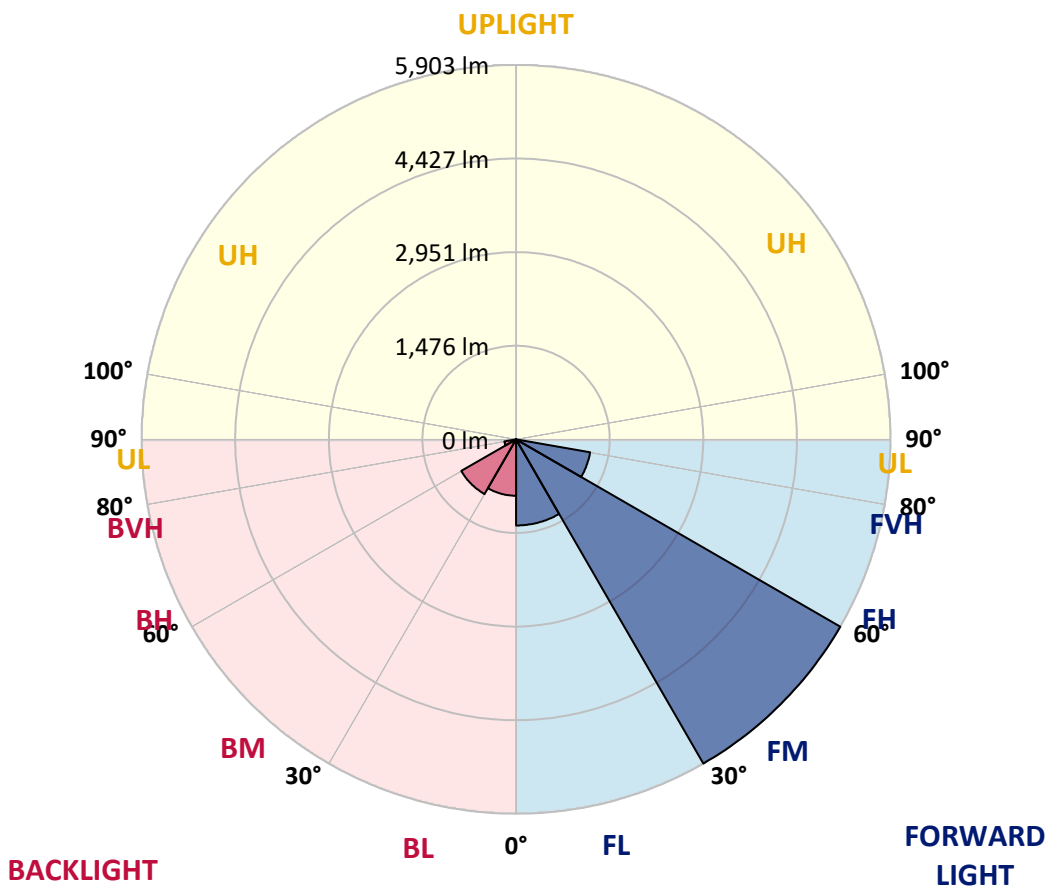
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1358.0	12.9			
FM (30°-60°)	5902.8	56.1			
FH (60°-80°)	1185.3	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	888.7	8.4	B2/1000		
BM (30°-60°)	996.8	9.5	B1/1000		
BH (60°-80°)	187.1	1.8	B1/500		G1/500
BVH (80°-90°)	0.0	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°	45°	50°	55°	65°	75°	85°
0°	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6
2.5°	3428.6	3431.2	3432.5	3467.1	3480.0	3531.3	3558.3	3572.4	3609.7	3653.3	3689.3
5°	3198.8	3194.9	3201.3	3245.0	3273.2	3349.0	3390.1	3418.3	3500.5	3603.3	3689.3
7.5°	2998.4	3006.1	3013.8	3061.4	3103.7	3185.9	3245.0	3287.4	3401.7	3554.5	3699.6
10°	2857.2	2857.2	2868.7	2922.7	2972.8	3074.2	3133.3	3187.2	3323.3	3510.8	3711.1
12.5°	2753.2	2754.5	2768.6	2830.2	2888.0	2993.3	3054.9	3107.6	3257.8	3467.1	3713.7
15°	2704.4	2700.5	2712.1	2777.6	2841.8	2940.6	3004.9	3056.2	3211.6	3442.7	3726.5
17.5°	2691.5	2689.0	2698.0	2762.2	2827.6	2924.0	2986.9	3038.2	3205.2	3450.4	3765.1
20°	2728.8	2723.6	2719.8	2775.0	2836.6	2931.7	2997.2	3054.9	3236.0	3492.8	3824.1
22.5°	2817.4	2817.4	2808.4	2835.4	2876.4	2962.5	3030.5	3106.3	3316.9	3577.6	3911.4
25°	2980.5	2967.6	2950.9	2962.5	2957.3	3011.3	3092.2	3197.5	3469.7	3717.5	4018.0
27.5°	3166.7	3178.2	3150.0	3151.2	3106.3	3087.0	3180.8	3340.0	3697.0	3915.3	4176.0
30°	3419.6	3410.6	3411.9	3408.1	3304.1	3212.9	3314.3	3526.2	3983.4	4217.1	4381.4
32.5°	3617.4	3630.2	3672.6	3697.0	3560.9	3414.5	3522.4	3779.2	4309.5	4561.2	4633.1
35°	3826.7	3849.8	3935.8	4015.5	3901.2	3733.0	3848.5	4114.3	4616.4	4901.5	4922.1
37.5°	4047.6	4093.8	4196.5	4336.5	4318.5	4169.6	4274.9	4508.6	4857.9	5107.0	5160.9
40°	4300.5	4345.5	4513.7	4715.3	4757.7	4724.3	4759.0	4895.1	5017.1	5116.0	5263.6
42.5°	4577.9	4639.5	4852.7	5122.4	5281.6	5311.1	5230.2	5216.1	5086.4	5013.2	5241.8
45°	4905.4	4977.3	5218.7	5568.0	5820.9	5860.8	5720.8	5539.7	5130.1	4937.5	5176.3
47.5°	5272.6	5340.7	5580.8	6000.7	6377.0	6392.4	6148.4	5856.9	5259.8	5024.8	5226.4
50°	5395.9	5438.3	5646.3	6139.4	6832.8	6951.0	6597.8	6213.9	5520.5	5281.6	5470.4
52.5°	4972.1	4988.8	5169.9	5668.1	6740.4	7499.3	7254.0	6746.8	5984.0	5673.3	5846.6
55°	3939.7	3912.7	4059.1	4516.3	5858.2	7387.6	7848.6	7584.1	6581.1	6133.0	6335.9
57.5°	2755.7	2723.6	2690.2	2999.7	4371.2	6262.7	7232.2	7700.9	7150.0	6588.9	6863.7
60°	2265.2	2234.4	2072.6	1930.0	2642.7	4497.0	5555.1	6437.3	7103.8	6565.7	6847.0
62.5°	1957.0	1939.0	1873.5	1679.6	1555.1	2567.0	3478.7	4323.7	5451.1	5155.8	5171.2
65°	1537.1	1532.0	1576.9	1597.5	1375.3	1420.2	1774.7	2247.2	2947.1	2778.9	2635.0
67.5°	1050.4	1038.9	1123.6	1381.7	1322.7	1121.0	1038.9	1047.8	1275.1	779.5	618.9
70°	667.7	640.8	642.1	856.5	1076.1	884.8	801.3	705.0	634.4	115.6	131.0
72.5°	427.6	410.9	353.1	386.5	498.2	431.5	435.3	375.0	250.4	61.6	71.9
75°	179.8	165.7	127.1	101.4	100.2	62.9	55.2	51.4	34.7	34.7	37.2
77.5°	1.3	0.0	0.0	1.3	2.6	1.3	1.3	2.6	5.1	7.7	9.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6
2.5°	3711.1	3680.3	3715.0	3727.8	3726.5	3727.8	3690.6	3664.9	3663.6	3631.5	3616.1
5°	3725.3	3700.9	3726.5	3709.8	3670.0	3620.0	3553.2	3495.4	3469.7	3432.5	3414.5
7.5°	3752.2	3726.5	3722.7	3655.9	3557.0	3451.7	3333.6	3228.3	3171.8	3103.7	3107.6
10°	3771.5	3741.9	3691.9	3555.7	3391.4	3223.2	3047.2	2890.6	2791.7	2700.5	2685.1
12.5°	3779.2	3735.5	3618.7	3413.2	3182.1	2962.5	2704.4	2480.9	2326.8	2207.4	2190.7
15°	3793.3	3722.7	3524.9	3241.1	2924.0	2613.2	2284.5	1978.8	1774.7	1637.3	1648.8
17.5°	3815.1	3708.6	3419.6	3048.5	2646.6	2207.4	1763.1	1412.5	1225.1	1145.4	1146.7
20°	3846.0	3691.9	3304.1	2836.6	2314.0	1749.0	1232.8	968.2	915.6	913.0	909.2
22.5°	3887.1	3675.2	3180.8	2604.2	1919.8	1225.1	820.6	738.4	760.2	802.6	810.3
25°	3935.8	3654.6	3043.4	2342.2	1489.6	803.9	615.1	602.3	654.9	711.4	724.2
27.5°	4011.6	3644.4	2886.7	2044.3	1045.3	576.6	503.4	511.1	558.6	606.1	617.7
30°	4140.0	3663.6	2715.9	1710.5	671.6	459.7	436.6	448.2	473.8	498.2	508.5
32.5°	4314.7	3720.1	2550.3	1345.8	479.0	399.4	394.2	400.6	410.9	425.0	428.9
35°	4518.8	3817.7	2379.5	963.1	395.5	364.7	359.6	359.6	364.7	367.3	368.5
37.5°	4687.1	3920.4	2219.0	640.8	354.4	337.7	330.0	326.2	324.9	327.5	328.7
40°	4760.3	3962.8	2044.3	466.1	324.9	313.3	301.8	290.2	290.2	299.2	300.5
42.5°	4708.9	3915.3	1842.7	385.2	304.3	287.6	269.7	259.4	264.5	273.5	276.1
45°	4599.7	3798.4	1620.6	340.3	283.8	262.0	241.4	235.0	240.1	251.7	254.3
47.5°	4581.8	3721.4	1354.8	310.8	262.0	240.1	218.3	211.9	218.3	227.3	229.9
50°	4760.3	3788.2	1059.4	285.1	241.4	217.0	199.0	192.6	196.5	201.6	204.2
52.5°	5086.4	4036.0	855.2	260.7	217.0	193.9	182.3	174.6	174.6	179.8	181.1
55°	5568.0	4468.8	738.4	232.4	188.8	175.9	165.7	157.9	157.9	160.5	161.8
57.5°	6122.7	4992.7	765.3	195.2	165.7	159.2	150.2	143.8	146.4	146.4	146.4
60°	6045.7	4954.2	819.3	164.4	146.4	143.8	136.1	133.5	140.0	134.8	132.3
62.5°	4453.4	3422.2	428.9	134.8	125.8	123.3	118.1	123.3	132.3	118.1	113.0
65°	2162.5	1656.5	172.1	110.4	106.6	104.0	101.4	109.2	114.3	92.5	87.3
67.5°	508.5	413.5	111.7	93.7	88.6	83.5	86.0	87.3	83.5	62.9	60.4
70°	132.3	129.7	87.3	78.3	70.6	65.5	65.5	64.2	55.2	39.8	37.2
72.5°	71.9	70.6	62.9	59.1	48.8	43.7	44.9	39.8	30.8	23.1	21.8
75°	36.0	38.5	36.0	33.4	27.0	24.4	24.4	21.8	15.4	9.0	9.0
77.5°	7.7	9.0	9.0	7.7	6.4	5.1	5.1	6.4	2.6	0.0	0.0
80°	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

(END OF REPORT)