

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: P633739

Luminaire Tested: GWS-SA2F-735-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633739
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-SA2F-735-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9395.2 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

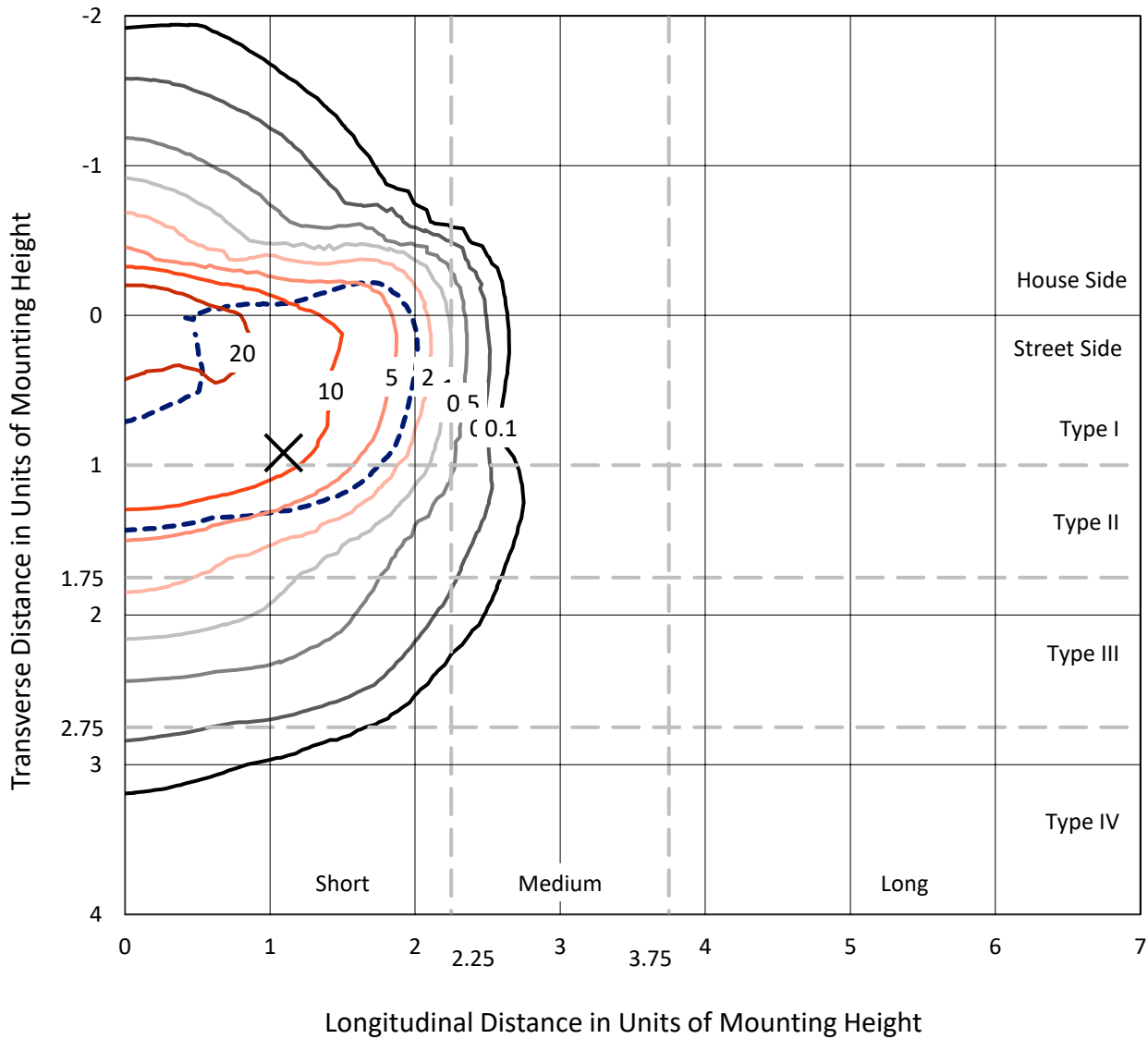
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

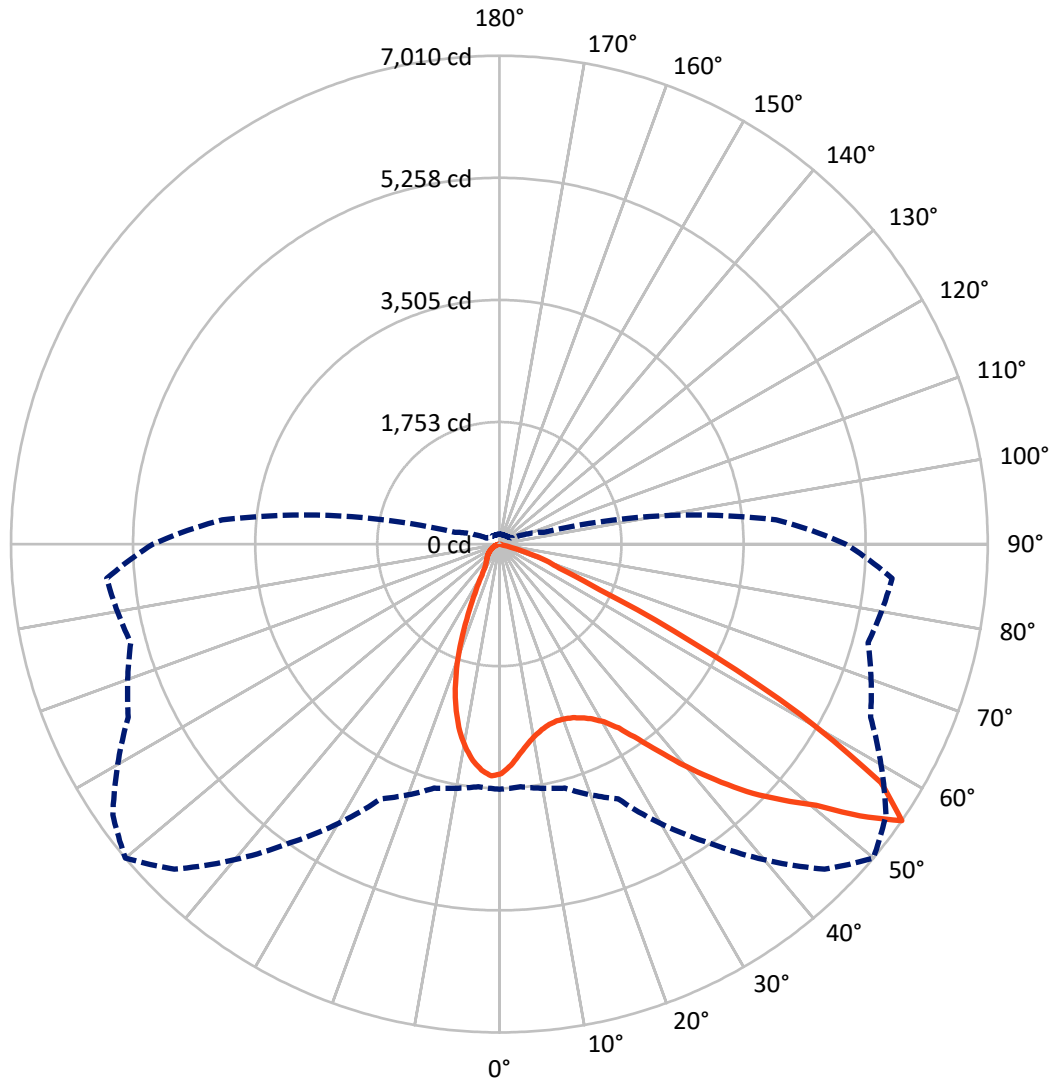
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 33 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
House Side	Lumens	1851.3	0.0	1851.3
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	7543.9	0.0	7543.9
	% Fixture	80.3	0.0	80.3
Total	Lumens	9395.2	0.0	9395.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.5	3.1
10°-20°	712.4	7.6
20°-30°	1004.8	10.7
30°-40°	1487.0	15.8
40°-50°	2145.2	22.8
50°-60°	2530.4	26.9
60°-70°	1128.8	12.0
70°-80°	97.0	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°	9395.2	100.0
0°-180°	9395.2	100.0

Coefficient of Utilization



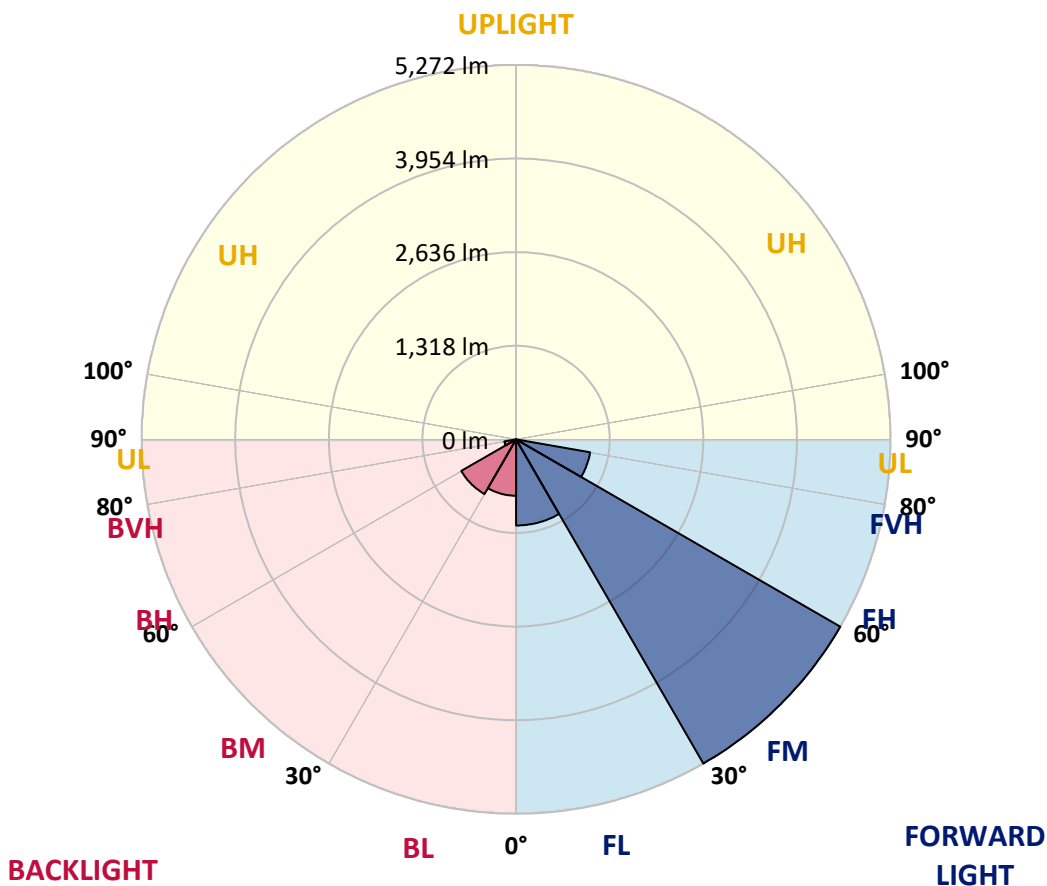
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1212.9	12.9			
FM (30°-60°)	5272.3	56.1			
FH (60°-80°)	1058.7	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	793.8	8.4	B2/1000		
BM (30°-60°)	890.3	9.5	B1/1000		
BH (60°-80°)	167.2	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°	3296.4	3296.4	3296.4	3296.4	3296.4	3296.4	3296.4	3296.4	3296.4	3296.4	3296.4
2.5°	3062.4	3064.7	3065.8	3096.8	3108.3	3154.1	3178.2	3190.8	3224.1	3263.1	3295.2
5°	2857.1	2853.6	2859.4	2898.4	2923.6	2991.3	3028.0	3053.2	3126.6	3218.4	3295.2
7.5°	2678.1	2685.0	2691.9	2734.3	2772.2	2845.6	2898.4	2936.2	3038.3	3174.8	3304.4
10°	2552.0	2552.0	2562.3	2610.5	2655.2	2745.8	2798.6	2846.8	2968.3	3135.8	3314.7
12.5°	2459.1	2460.2	2472.8	2527.9	2579.5	2673.6	2728.6	2775.6	2909.8	3096.8	3317.0
15°	2415.5	2412.1	2422.4	2480.9	2538.2	2626.5	2683.9	2729.8	2868.5	3075.0	3328.5
17.5°	2404.0	2401.7	2409.8	2467.1	2525.6	2611.6	2667.8	2713.7	2862.8	3081.9	3362.9
20°	2437.3	2432.7	2429.3	2478.6	2533.6	2618.5	2677.0	2728.6	2890.3	3119.7	3415.6
22.5°	2516.4	2516.4	2508.4	2532.5	2569.2	2646.0	2706.8	2774.5	2962.6	3195.4	3493.6
25°	2662.1	2650.6	2635.7	2646.0	2641.4	2689.6	2761.9	2855.9	3099.1	3320.4	3588.8
27.5°	2828.4	2838.7	2813.5	2814.6	2774.5	2757.3	2841.0	2983.2	3302.1	3497.1	3729.9
30°	3054.4	3046.3	3047.5	3044.0	2951.1	2869.7	2960.3	3149.5	3557.9	3766.6	3913.4
32.5°	3231.0	3242.5	3280.3	3302.1	3180.5	3049.8	3146.1	3375.5	3849.2	4074.0	4138.2
35°	3417.9	3438.6	3515.4	3586.5	3484.5	3334.2	3437.4	3674.9	4123.3	4377.9	4396.3
37.5°	3615.2	3656.5	3748.3	3873.3	3857.2	3724.2	3818.2	4027.0	4338.9	4561.5	4609.6
40°	3841.2	3881.3	4031.6	4211.6	4249.5	4219.7	4250.6	4372.2	4481.2	4569.5	4701.4
42.5°	4088.9	4144.0	4334.4	4575.2	4717.4	4743.8	4671.6	4658.9	4543.1	4477.7	4681.9
45°	4381.4	4445.6	4661.2	4973.2	5199.2	5234.7	5109.7	4948.0	4582.1	4410.1	4623.4
47.5°	4709.4	4770.2	4984.7	5359.7	5695.8	5709.6	5491.6	5231.3	4697.9	4488.0	4668.1
50°	4819.5	4857.4	5043.2	5483.6	6103.0	6208.5	5893.1	5550.1	4930.8	4717.4	4886.0
52.5°	4441.0	4455.9	4617.7	5062.7	6020.4	6698.2	6479.2	6026.1	5344.8	5067.3	5222.1
55°	3518.9	3494.8	3625.5	4033.9	5232.4	6598.5	7010.2	6773.9	5878.2	5477.9	5659.1
57.5°	2461.4	2432.7	2402.9	2679.3	3904.2	5593.7	6459.7	6878.3	6386.3	5885.0	6130.5
60°	2023.2	1995.7	1851.2	1723.9	2360.4	4016.6	4961.7	5749.7	6345.0	5864.4	6115.6
62.5°	1748.0	1731.9	1673.4	1500.2	1389.0	2292.8	3107.1	3861.8	4868.8	4605.0	4618.8
65°	1372.9	1368.3	1408.5	1426.8	1228.4	1268.5	1585.1	2007.2	2632.3	2482.0	2353.6
67.5°	938.2	927.9	1003.6	1234.1	1181.4	1001.3	927.9	935.9	1138.9	696.2	552.8
70°	596.4	572.3	573.5	765.0	961.2	790.3	715.7	629.7	566.6	103.2	117.0
72.5°	381.9	367.0	315.4	345.2	445.0	385.4	388.8	334.9	223.7	55.1	64.2
75°	160.6	148.0	113.5	90.6	89.5	56.2	49.3	45.9	31.0	31.0	33.3
77.5°	1.1	0.0	0.0	1.1	2.3	1.1	1.1	2.3	4.6	6.9	8.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
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°	3296.4	3296.4	3296.4	3296.4	3296.4	3296.4	3296.4	3296.4	3296.4	3296.4	3296.4
2.5°	3314.7	3287.2	3318.2	3329.6	3328.5	3329.6	3296.4	3273.4	3272.3	3243.6	3229.8
5°	3327.3	3305.5	3328.5	3313.6	3278.0	3233.3	3173.6	3122.0	3099.1	3065.8	3049.8
7.5°	3351.4	3328.5	3325.0	3265.4	3177.1	3083.0	2977.5	2883.5	2833.0	2772.2	2775.6
10°	3368.6	3342.2	3297.5	3175.9	3029.1	2878.9	2721.7	2581.8	2493.5	2412.1	2398.3
12.5°	3375.5	3336.5	3232.1	3048.6	2842.2	2646.0	2415.5	2215.9	2078.3	1971.6	1956.7
15°	3388.1	3325.0	3148.4	2894.9	2611.6	2334.1	2040.4	1767.5	1585.1	1462.4	1472.7
17.5°	3407.6	3312.4	3054.4	2722.9	2363.9	1971.6	1574.8	1261.7	1094.2	1023.1	1024.2
20°	3435.1	3297.5	2951.1	2533.6	2066.8	1562.2	1101.1	864.8	817.8	815.5	812.0
22.5°	3471.8	3282.6	2841.0	2326.0	1714.7	1094.2	732.9	659.5	679.0	716.8	723.7
25°	3515.4	3264.2	2718.3	2092.1	1330.5	718.0	549.4	537.9	584.9	635.4	646.9
27.5°	3583.1	3255.1	2578.4	1826.0	933.6	515.0	449.6	456.5	498.9	541.4	551.7
30°	3697.8	3272.3	2425.8	1527.7	599.9	410.6	390.0	400.3	423.2	445.0	454.2
32.5°	3853.8	3322.7	2277.9	1202.0	427.8	356.7	352.1	357.9	367.0	379.6	383.1
35°	4036.1	3409.9	2125.3	860.2	353.3	325.7	321.1	321.1	325.7	328.0	329.2
37.5°	4186.4	3501.7	1981.9	572.3	316.6	301.7	294.8	291.3	290.2	292.5	293.6
40°	4251.8	3539.5	1826.0	416.3	290.2	279.9	269.5	259.2	259.2	267.2	268.4
42.5°	4205.9	3497.1	1645.9	344.1	271.8	256.9	240.9	231.7	236.3	244.3	246.6
45°	4108.4	3392.7	1447.5	303.9	253.5	234.0	215.6	209.9	214.5	224.8	227.1
47.5°	4092.3	3323.9	1210.0	277.6	234.0	214.5	195.0	189.2	195.0	203.0	205.3
50°	4251.8	3383.5	946.2	254.6	215.6	193.8	177.8	172.0	175.5	180.1	182.4
52.5°	4543.1	3604.9	763.9	232.8	193.8	173.2	162.9	156.0	156.0	160.6	161.7
55°	4973.2	3991.4	659.5	207.6	168.6	157.1	148.0	141.1	141.1	143.4	144.5
57.5°	5468.7	4459.4	683.6	174.3	148.0	142.2	134.2	128.5	130.8	130.8	130.8
60°	5399.9	4425.0	731.8	146.8	130.8	128.5	121.6	119.3	125.0	120.4	118.1
62.5°	3977.7	3056.6	383.1	120.4	112.4	110.1	105.5	110.1	118.1	105.5	100.9
65°	1931.5	1479.6	153.7	98.6	95.2	92.9	90.6	97.5	102.1	82.6	78.0
67.5°	454.2	369.3	99.8	83.7	79.1	74.6	76.8	78.0	74.6	56.2	53.9
70°	118.1	115.8	78.0	70.0	63.1	58.5	58.5	57.3	49.3	35.6	33.3
72.5°	64.2	63.1	56.2	52.8	43.6	39.0	40.1	35.6	27.5	20.6	19.5
75°	32.1	34.4	32.1	29.8	24.1	21.8	21.8	19.5	13.8	8.0	8.0
77.5°	6.9	8.0	8.0	6.9	5.7	4.6	4.6	5.7	2.3	0.0	0.0
80°	1.1	1.1	1.1	1.1	1.1	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)