

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: P639239

Luminaire Tested: GWS-SA5B-740-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639239
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10426 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

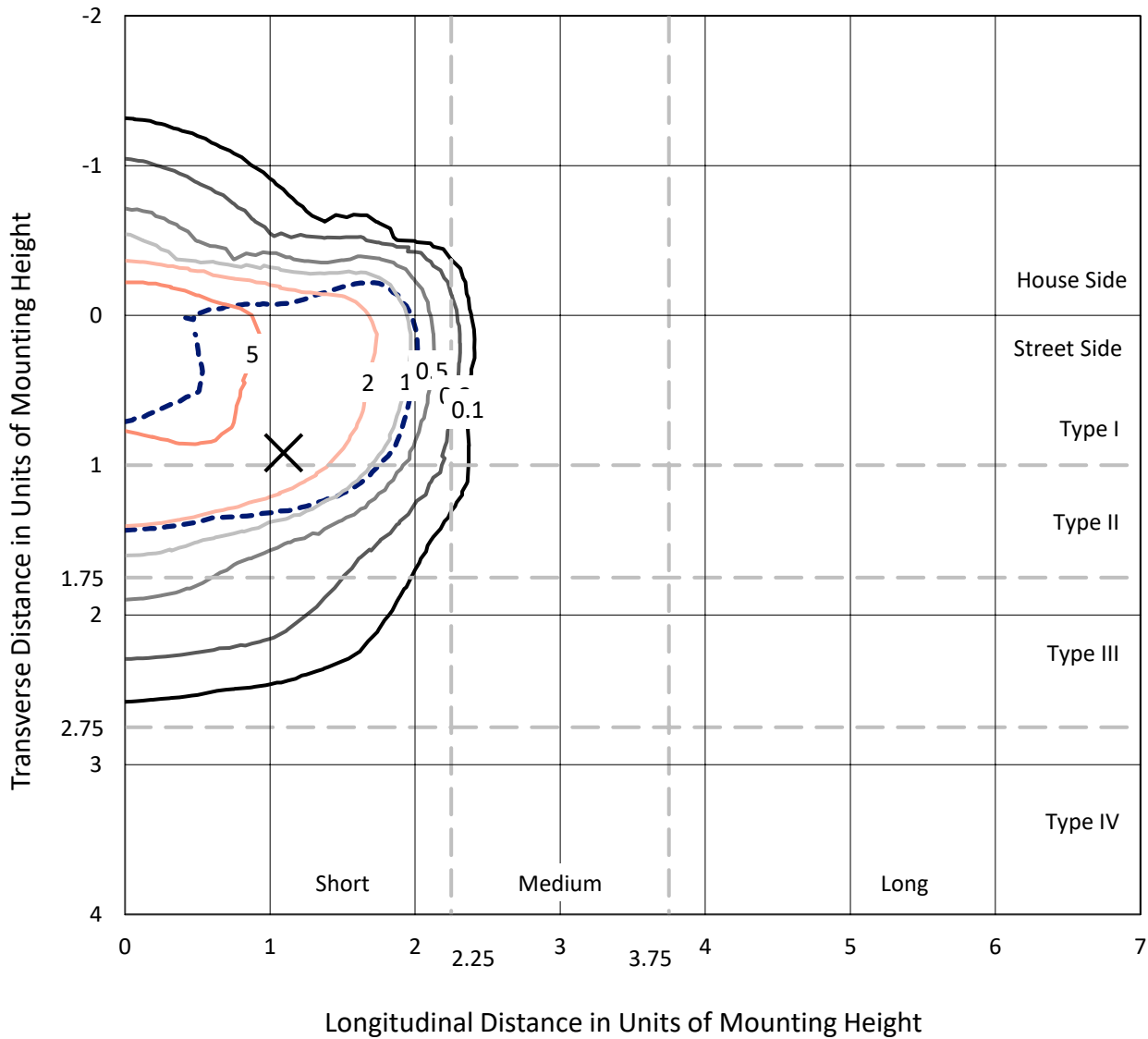
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

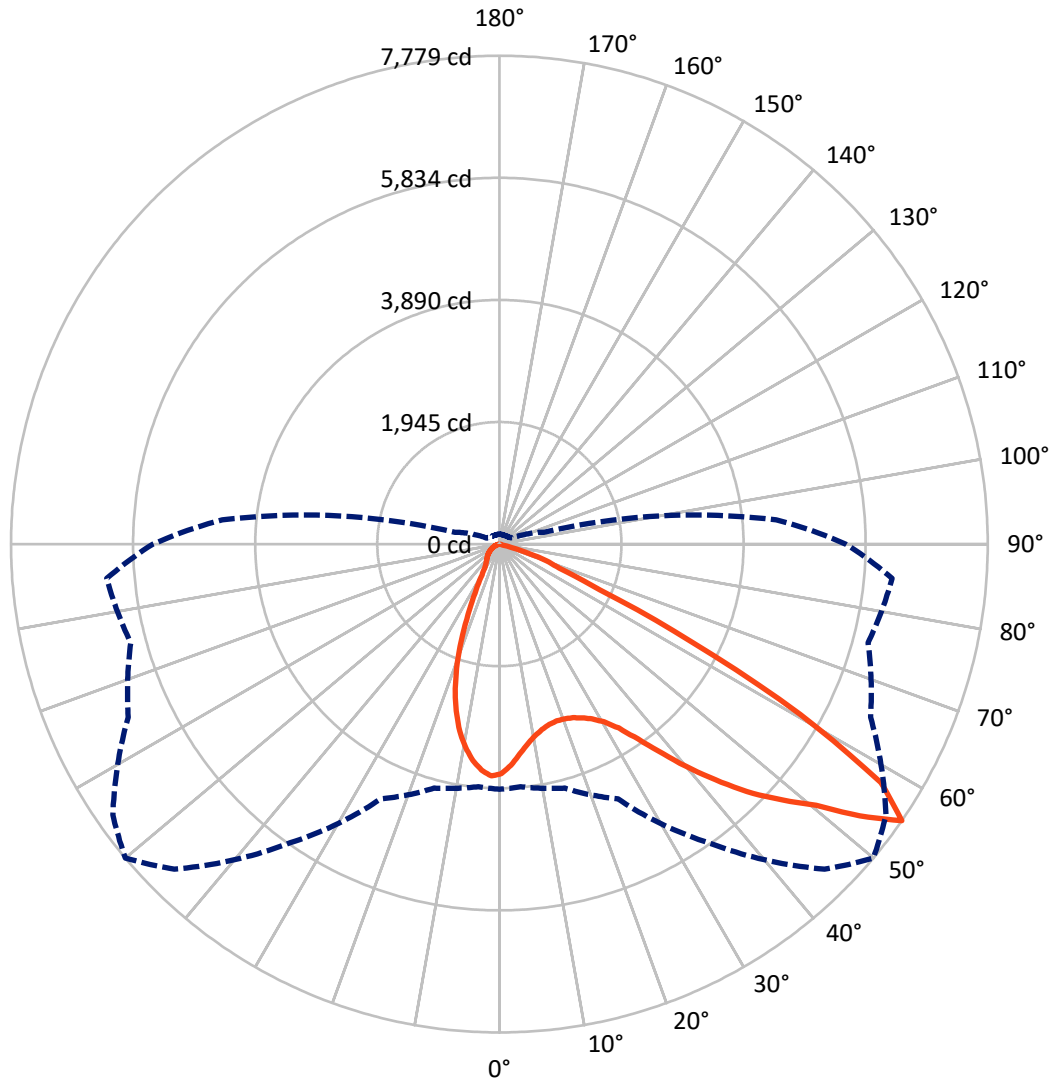
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.1 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	2054.4	0.0	2054.4
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	8371.6	0.0	8371.6
	% Fixture	80.3	0.0	80.3
Total	Lumens	10426.0	0.0	10426.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.2	3.1
10°-20°	790.5	7.6
20°-30°	1115.1	10.7
30°-40°	1650.1	15.8
40°-50°	2380.6	22.8
50°-60°	2808.1	26.9
60°-70°	1252.6	12.0
70°-80°	107.7	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°	10426.0	100.0
0°-180°	10426.0	100.0

Coefficient of Utilization



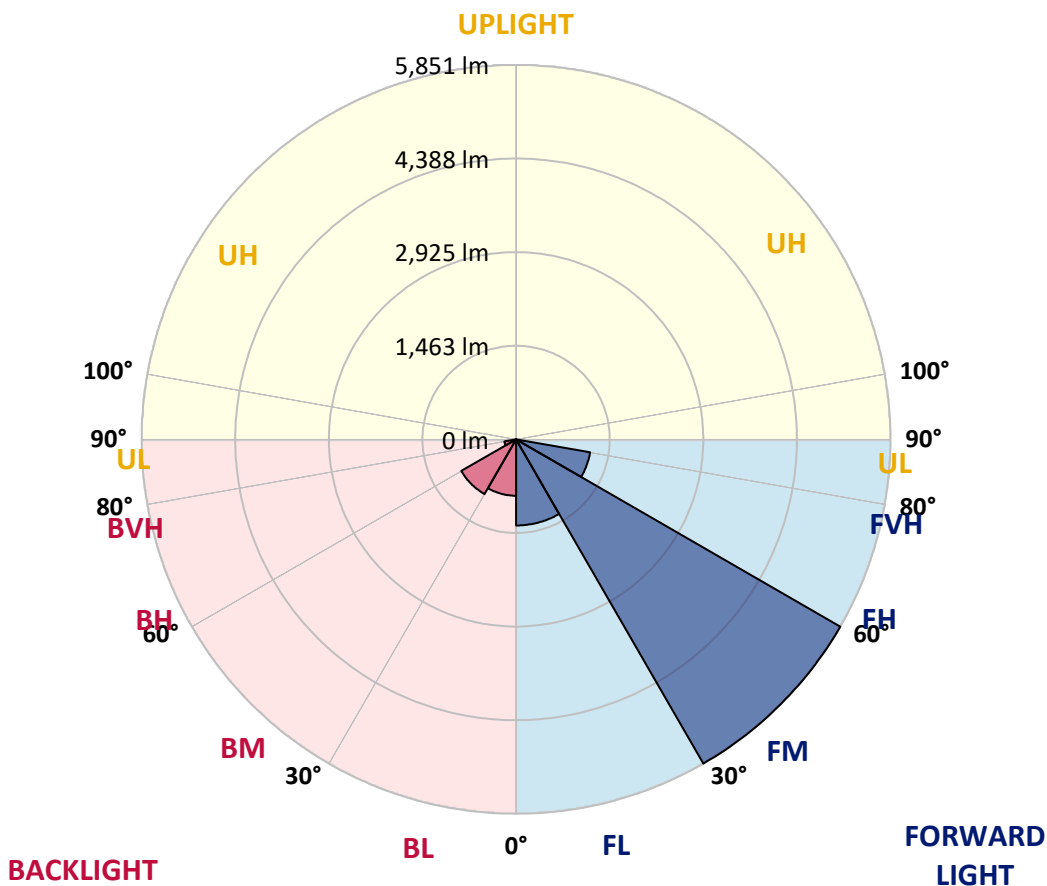
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1346.0	12.9			
FM (30°-60°)	5850.7	56.1			
FH (60°-80°)	1174.8	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	880.9	8.4	B2/1000		
BM (30°-60°)	988.0	9.5	B1/1000		
BH (60°-80°)	185.5	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°	3658.0	3658.0	3658.0	3658.0	3658.0	3658.0	3658.0	3658.0	3658.0	3658.0	3658.0
2.5°	3398.4	3400.9	3402.2	3436.6	3449.3	3500.2	3526.9	3540.9	3577.8	3621.1	3656.7
5°	3170.5	3166.7	3173.1	3216.4	3244.4	3319.5	3360.2	3388.2	3469.6	3571.5	3656.7
7.5°	2972.0	2979.6	2987.3	3034.3	3076.4	3157.8	3216.4	3258.4	3371.6	3523.1	3666.9
10°	2832.0	2832.0	2843.4	2896.9	2946.5	3047.1	3105.6	3159.1	3294.0	3479.8	3678.4
12.5°	2728.9	2730.2	2744.2	2805.2	2862.5	2966.9	3028.0	3080.2	3229.1	3436.6	3680.9
15°	2680.5	2676.7	2688.1	2753.1	2816.7	2914.7	2978.3	3029.3	3183.3	3412.4	3693.7
17.5°	2667.8	2665.2	2674.1	2737.8	2802.7	2898.2	2960.5	3011.4	3176.9	3420.0	3731.8
20°	2704.7	2699.6	2695.8	2750.5	2811.6	2905.8	2970.7	3028.0	3207.5	3462.0	3790.4
22.5°	2792.5	2792.5	2783.6	2810.3	2851.1	2936.3	3003.8	3078.9	3287.6	3546.0	3876.9
25°	2954.2	2941.4	2924.9	2936.3	2931.3	2984.7	3064.9	3169.3	3439.1	3684.7	3982.6
27.5°	3138.7	3150.2	3122.2	3123.4	3078.9	3059.8	3152.7	3310.5	3664.4	3880.8	4139.1
30°	3389.5	3380.6	3381.8	3378.0	3274.9	3184.5	3285.1	3495.1	3948.2	4179.9	4342.8
32.5°	3585.5	3598.2	3640.2	3664.4	3529.5	3384.4	3491.3	3745.8	4271.5	4521.0	4592.3
35°	3792.9	3815.8	3901.1	3980.0	3866.8	3700.0	3814.6	4078.0	4575.7	4858.3	4878.6
37.5°	4011.9	4057.7	4159.5	4298.2	4280.4	4132.8	4237.1	4468.8	4815.0	5061.9	5115.4
40°	4262.6	4307.1	4473.9	4673.7	4715.7	4682.6	4717.0	4851.9	4972.8	5070.8	5217.2
42.5°	4537.5	4598.6	4809.9	5077.2	5235.0	5264.3	5184.1	5170.1	5041.6	4969.0	5195.6
45°	4862.1	4933.4	5172.6	5518.9	5769.6	5809.0	5670.3	5490.8	5084.8	4893.9	5130.6
47.5°	5226.1	5293.6	5531.6	5947.8	6320.7	6336.0	6094.2	5805.2	5213.4	4980.5	5180.3
50°	5348.3	5390.3	5596.5	6085.2	6772.6	6889.7	6539.6	6159.1	5471.8	5235.0	5422.1
52.5°	4928.3	4944.8	5124.3	5618.1	6680.9	7433.1	7190.0	6687.3	5931.2	5623.2	5795.0
55°	3904.9	3878.2	4023.3	4476.4	5806.5	7322.4	7779.3	7517.1	6523.1	6078.9	6280.0
57.5°	2731.4	2699.6	2666.5	2973.3	4332.6	6207.4	7168.4	7633.0	7086.9	6530.7	6803.1
60°	2245.2	2214.7	2054.3	1913.0	2619.4	4457.3	5506.1	6380.5	7041.1	6507.8	6786.6
62.5°	1939.7	1921.9	1857.0	1664.8	1541.4	2544.3	3448.0	4285.5	5403.0	5110.3	5125.6
65°	1523.5	1518.4	1563.0	1583.4	1363.2	1407.7	1759.0	2227.4	2921.1	2754.3	2611.8
67.5°	1041.1	1029.7	1113.7	1369.5	1311.0	1111.2	1029.7	1038.6	1263.9	772.6	613.5
70°	661.9	635.1	636.4	849.0	1066.6	877.0	794.2	698.8	628.8	114.6	129.8
72.5°	423.8	407.3	350.0	383.1	493.8	427.7	431.5	371.7	248.2	61.1	71.3
75°	178.2	164.2	126.0	100.6	99.3	62.4	54.7	50.9	34.4	34.4	36.9
77.5°	1.3	0.0	0.0	1.3	2.5	1.3	1.3	2.5	5.1	7.6	8.9
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°	3658.0	3658.0	3658.0	3658.0	3658.0	3658.0	3658.0	3658.0	3658.0	3658.0	3658.0
2.5°	3678.4	3647.8	3682.2	3694.9	3693.7	3694.9	3658.0	3632.6	3631.3	3599.5	3584.2
5°	3692.4	3668.2	3693.7	3677.1	3637.7	3588.0	3521.8	3464.6	3439.1	3402.2	3384.4
7.5°	3719.1	3693.7	3689.8	3623.7	3525.6	3421.3	3304.2	3199.8	3143.8	3076.4	3080.2
10°	3738.2	3708.9	3659.3	3524.4	3361.5	3194.7	3020.3	2865.1	2767.1	2676.7	2661.4
12.5°	3745.8	3702.6	3586.7	3383.1	3154.0	2936.3	2680.5	2459.0	2306.3	2187.9	2171.4
15°	3759.8	3689.8	3493.8	3212.5	2898.2	2590.1	2264.3	1961.4	1759.0	1622.8	1634.3
17.5°	3781.5	3675.8	3389.5	3021.6	2623.2	2187.9	1747.6	1400.1	1214.2	1135.3	1136.6
20°	3812.0	3659.3	3274.9	2811.6	2293.6	1733.6	1221.9	959.7	907.5	905.0	901.1
22.5°	3852.8	3642.7	3152.7	2581.2	1902.8	1214.2	813.3	731.9	753.5	795.5	803.1
25°	3901.1	3622.4	3016.5	2321.6	1476.4	796.8	609.7	596.9	649.1	705.1	717.9
27.5°	3976.2	3612.2	2861.2	2026.3	1036.1	571.5	498.9	506.6	553.7	600.8	612.2
30°	4103.5	3631.3	2692.0	1695.4	665.7	455.7	432.8	444.2	469.7	493.8	504.0
32.5°	4276.6	3687.3	2527.8	1333.9	474.8	395.8	390.7	397.1	407.3	421.3	425.1
35°	4479.0	3784.0	2358.5	954.6	392.0	361.5	356.4	356.4	361.5	364.0	365.3
37.5°	4645.7	3885.9	2199.4	635.1	351.3	334.7	327.1	323.3	322.0	324.6	325.8
40°	4718.3	3927.9	2026.3	462.0	322.0	310.6	299.1	287.7	287.7	296.6	297.8
42.5°	4667.3	3880.8	1826.5	381.8	301.7	285.1	267.3	257.1	262.2	271.1	273.7
45°	4559.2	3764.9	1606.3	337.3	281.3	259.7	239.3	232.9	238.0	249.5	252.0
47.5°	4541.3	3688.6	1342.8	308.0	259.7	238.0	216.4	210.0	216.4	225.3	227.8
50°	4718.3	3754.8	1050.1	282.6	239.3	215.1	197.3	190.9	194.7	199.8	202.4
52.5°	5041.6	4000.4	847.7	258.4	215.1	192.2	180.7	173.1	173.1	178.2	179.5
55°	5518.9	4429.3	731.9	230.4	187.1	174.4	164.2	156.6	156.6	159.1	160.4
57.5°	6068.7	4948.6	758.6	193.5	164.2	157.8	148.9	142.6	145.1	145.1	145.1
60°	5992.3	4910.5	812.0	162.9	145.1	142.6	134.9	132.4	138.7	133.6	131.1
62.5°	4414.1	3392.0	425.1	133.6	124.7	122.2	117.1	122.2	131.1	117.1	112.0
65°	2143.4	1641.9	170.6	109.5	105.6	103.1	100.6	108.2	113.3	91.6	86.6
67.5°	504.0	409.8	110.7	92.9	87.8	82.7	85.3	86.6	82.7	62.4	59.8
70°	131.1	128.6	86.6	77.6	70.0	64.9	64.9	63.6	54.7	39.5	36.9
72.5°	71.3	70.0	62.4	58.5	48.4	43.3	44.5	39.5	30.5	22.9	21.6
75°	35.6	38.2	35.6	33.1	26.7	24.2	24.2	21.6	15.3	8.9	8.9
77.5°	7.6	8.9	8.9	7.6	6.4	5.1	5.1	6.4	2.5	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)