

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: P636713

Luminaire Tested: GWS-SA4B-735-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-735-U-SL3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR 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: 8349.9 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

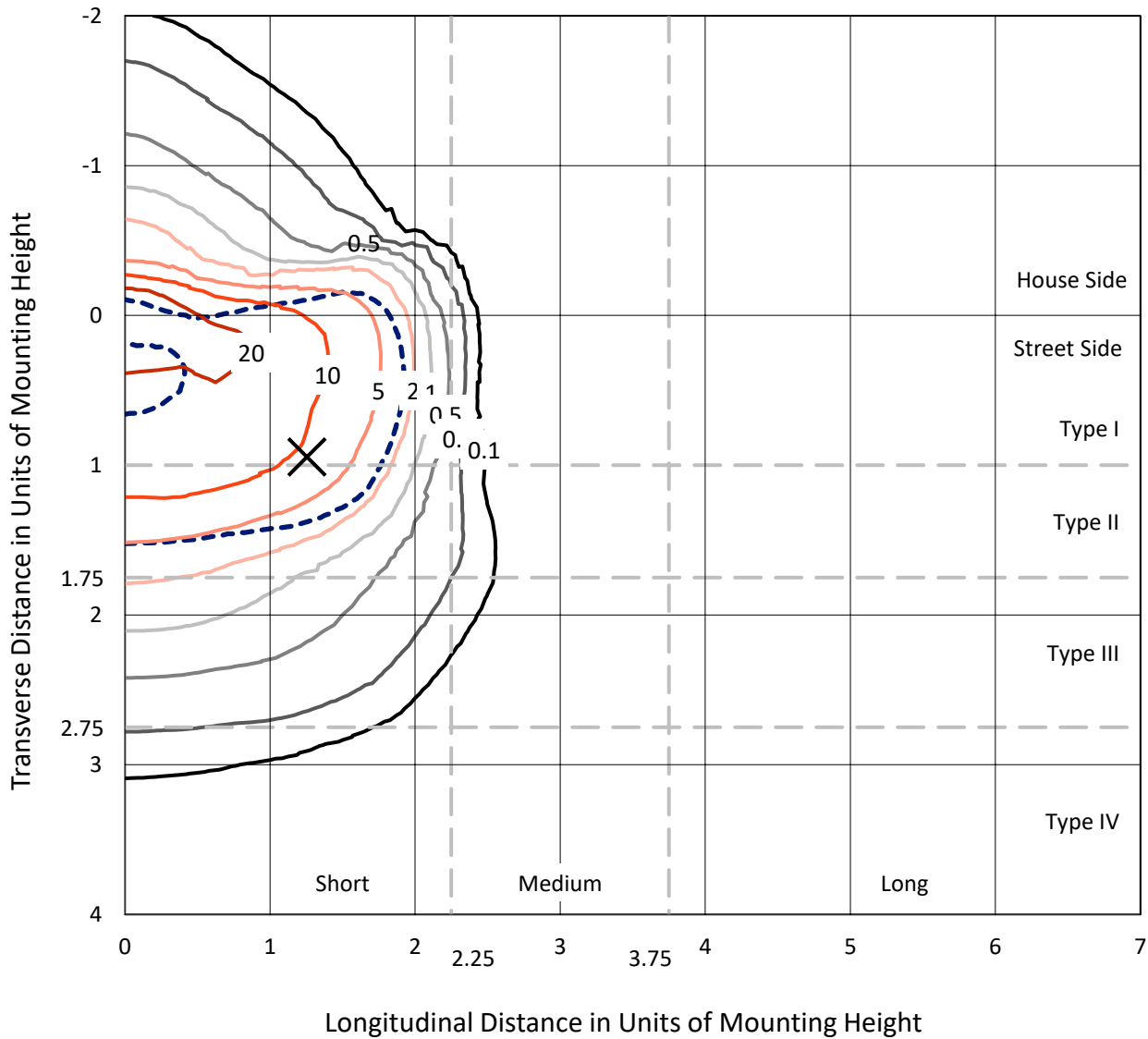
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

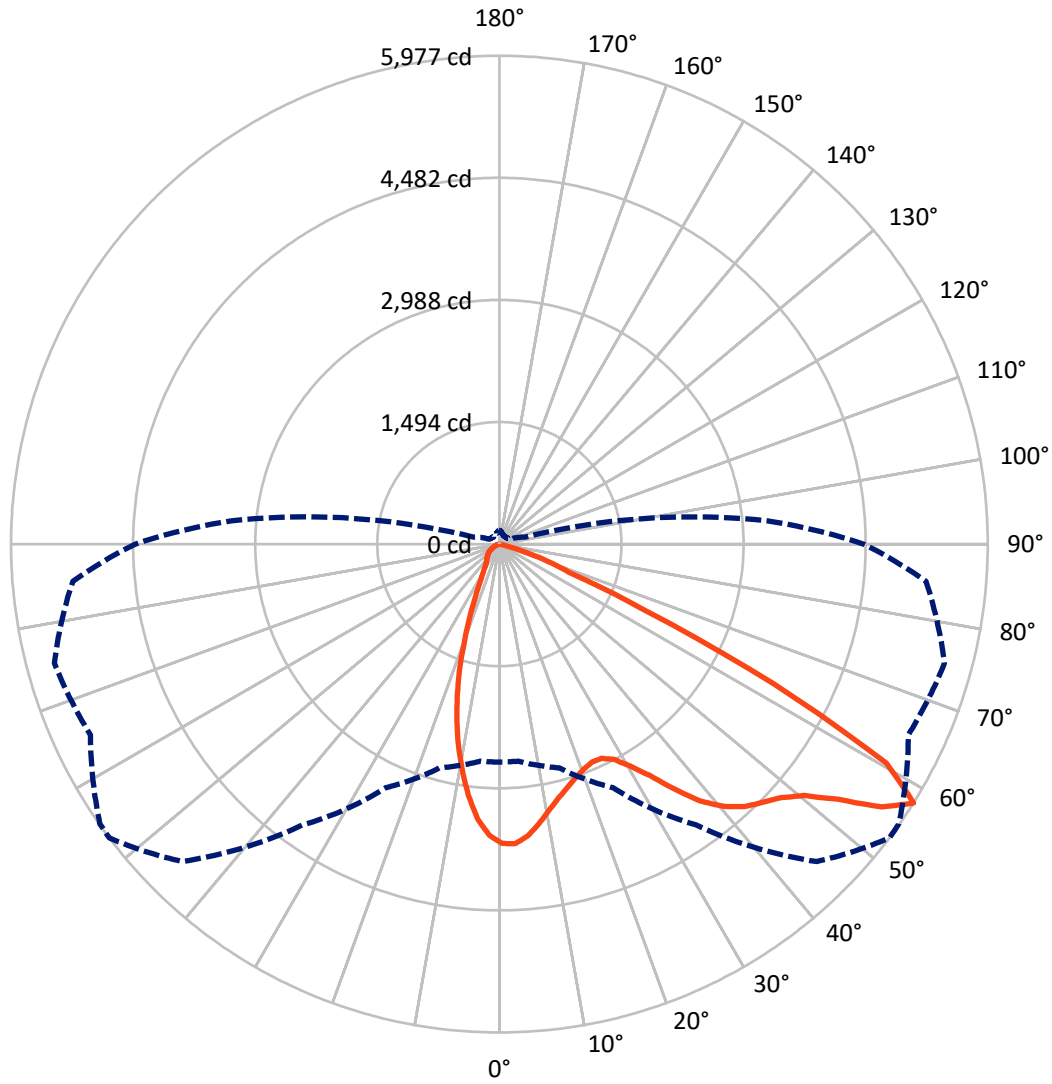
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 36.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1379.3	0.0	1379.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	6970.6	0.0	6970.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	8349.9	0.0	8349.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.4	3.8
10°-20°	688.0	8.2
20°-30°	896.3	10.7
30°-40°	1300.0	15.6
40°-50°	1875.9	22.5
50°-60°	2268.7	27.2
60°-70°	924.6	11.1
70°-80°	83.1	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°	8349.9	100.0
0°-180°	8349.9	100.0

Coefficient of Utilization



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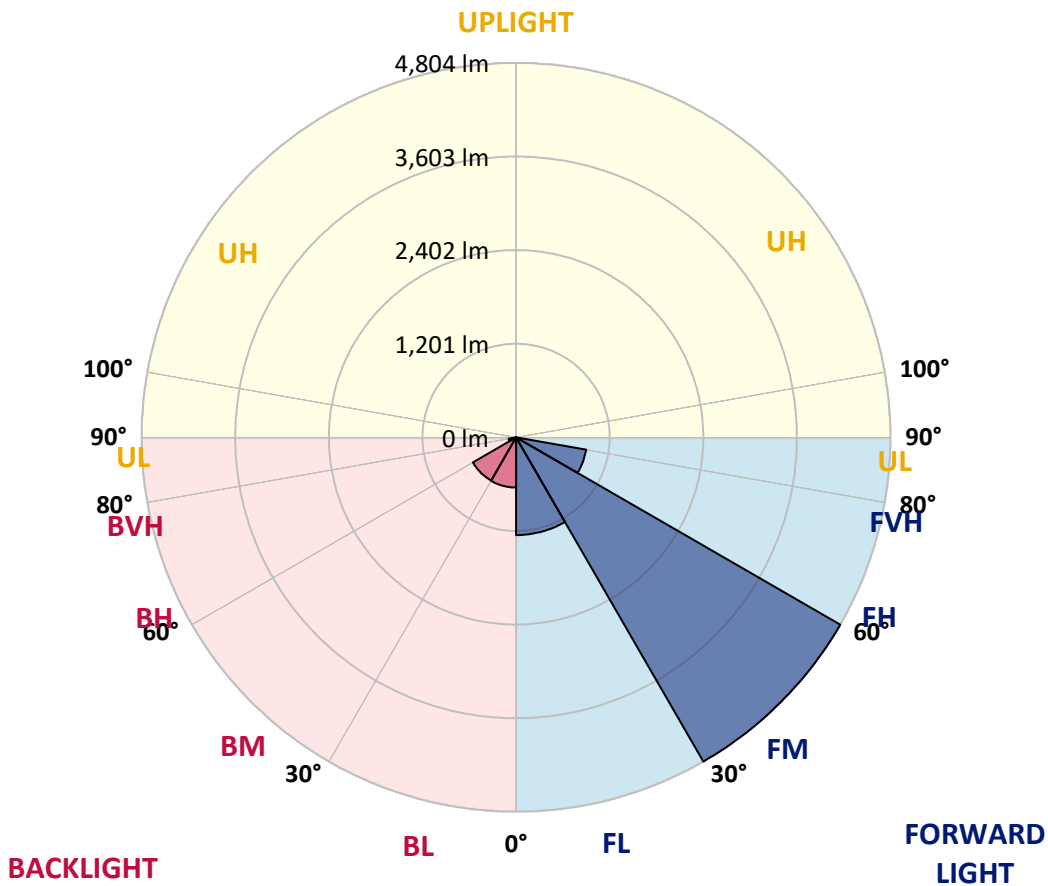
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1253.9	15.0			
FM (30°-60°)	4804.4	57.5			
FH (60°-80°)	912.4	10.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	643.7	7.7	B2/1000		
BM (30°-60°)	640.2	7.7	B1/1000		
BH (60°-80°)	95.3	1.1	B0/110		G0/110
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°	53°	55°	65°	75°	85°
0°	3662.7	3662.7	3662.7	3662.7	3662.7	3662.7	3662.7	3662.7	3662.7	3662.7	3662.7
2.5°	3611.6	3619.8	3634.1	3652.5	3664.8	3670.9	3670.9	3688.3	3677.1	3667.9	3657.6
5°	3457.0	3465.2	3484.7	3514.3	3544.0	3565.5	3590.1	3608.5	3615.7	3615.7	3598.3
7.5°	3239.1	3250.3	3262.6	3303.5	3368.0	3416.1	3458.1	3484.7	3523.6	3535.8	3511.3
10°	3004.7	3016.0	3043.6	3099.9	3173.6	3245.2	3316.8	3350.6	3417.1	3451.9	3424.3
12.5°	2806.2	2811.3	2848.1	2915.7	3009.8	3108.1	3195.0	3229.8	3324.0	3376.2	3343.4
15°	2642.4	2645.5	2682.3	2757.0	2865.5	2986.3	3095.8	3131.6	3247.2	3326.0	3276.9
17.5°	2518.6	2519.6	2551.3	2632.2	2745.8	2879.8	3009.8	3053.8	3203.2	3298.4	3224.7
20°	2456.2	2453.1	2475.6	2546.2	2653.7	2787.7	2941.2	2995.5	3178.7	3294.3	3184.8
22.5°	2457.2	2450.0	2459.2	2509.4	2600.5	2726.3	2898.3	2959.7	3180.7	3311.7	3151.0
25°	2515.5	2505.3	2507.3	2533.9	2598.4	2713.0	2904.4	2969.9	3221.7	3370.1	3138.8
27.5°	2613.8	2602.5	2602.5	2615.8	2650.6	2755.0	2981.2	3055.9	3331.2	3483.6	3164.3
30°	2740.7	2729.4	2725.3	2738.6	2767.3	2863.5	3152.1	3229.8	3518.4	3669.9	3246.2
32.5°	2886.0	2872.7	2879.8	2898.3	2925.9	3058.9	3372.1	3475.5	3752.8	3920.6	3393.6
35°	3039.5	3028.2	3061.0	3100.9	3143.9	3330.1	3676.0	3766.1	4040.4	4232.8	3618.7
37.5°	3185.8	3180.7	3249.3	3333.2	3422.2	3655.6	3985.1	4054.7	4287.0	4572.5	3894.0
40°	3332.2	3331.2	3448.9	3596.2	3738.5	3980.0	4219.5	4276.8	4437.5	4836.6	4158.1
42.5°	3495.9	3495.9	3658.6	3855.1	4044.5	4254.3	4391.4	4417.0	4505.0	4989.1	4356.6
45°	3652.5	3661.7	3850.0	4078.2	4302.4	4468.2	4510.1	4512.2	4532.6	5079.1	4521.4
47.5°	3776.3	3784.5	4009.7	4272.7	4514.2	4630.9	4637.0	4627.8	4605.3	5165.1	4648.3
50°	3876.6	3888.9	4124.3	4402.7	4659.5	4787.5	4834.5	4825.3	4768.0	5257.2	4737.3
52.5°	3925.8	3943.2	4164.2	4467.1	4821.2	5055.6	5186.6	5208.1	5011.6	5308.4	4822.3
55°	3532.8	3558.4	3762.0	4176.5	4911.3	5470.1	5675.8	5671.7	5275.6	5460.9	5029.0
57.5°	2668.0	2666.0	2834.8	3288.2	4194.9	5493.6	5976.6	5968.5	5522.3	5637.9	5240.8
60°	1816.5	1804.3	1849.3	2068.3	2933.1	4475.3	5439.4	5549.9	5347.3	5208.1	4449.7
62.5°	1495.2	1483.9	1469.6	1409.2	1684.5	2787.7	3757.9	3925.8	3899.1	3619.8	2790.8
65°	1224.0	1233.2	1273.1	1247.5	1171.8	1429.7	1950.6	2049.9	1873.8	1577.1	975.3
67.5°	902.6	906.7	958.9	1094.0	1053.1	951.8	918.0	934.4	547.5	251.8	162.7
70°	533.2	536.3	584.4	765.5	854.5	730.7	620.2	611.0	217.0	67.5	73.7
72.5°	301.9	295.8	305.0	364.3	465.6	387.9	319.3	290.6	65.5	37.9	37.9
75°	143.3	139.2	119.7	112.6	102.3	65.5	40.9	34.8	16.4	15.4	15.4
77.5°	1.0	3.1	2.0	3.1	3.1	2.0	1.0	1.0	3.1	3.1	4.1
80°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3662.7	3662.7	3662.7	3662.7	3662.7	3662.7	3662.7	3662.7	3662.7	3662.7	3662.7
2.5°	3639.2	3608.5	3601.3	3599.3	3570.6	3539.9	3508.2	3495.9	3477.5	3466.2	3475.5
5°	3570.6	3526.6	3487.7	3451.9	3388.5	3318.9	3258.5	3219.6	3182.8	3158.2	3164.3
7.5°	3473.4	3416.1	3327.1	3236.0	3119.3	3014.9	2898.3	2826.6	2760.1	2723.3	2740.7
10°	3370.1	3294.3	3152.1	2997.5	2814.3	2650.6	2483.8	2347.7	2268.9	2194.2	2202.4
12.5°	3268.7	3168.4	2955.6	2721.2	2489.9	2248.4	1996.6	1808.3	1679.4	1586.3	1571.9
15°	3174.6	3045.6	2764.2	2455.1	2139.9	1818.6	1497.2	1228.1	1078.7	986.6	980.4
17.5°	3090.7	2931.0	2565.7	2176.8	1781.7	1370.3	1000.9	799.3	713.3	673.4	669.3
20°	3009.8	2815.4	2363.0	1894.3	1390.8	962.0	690.8	597.7	570.0	553.7	555.7
22.5°	2932.0	2689.5	2150.2	1581.2	1042.8	675.4	535.2	499.4	496.3	498.4	499.4
25°	2866.5	2573.8	1931.2	1279.2	744.0	514.8	447.2	437.0	446.2	459.5	461.6
27.5°	2832.8	2479.7	1717.3	975.3	538.3	418.6	387.9	392.0	408.3	422.7	424.7
30°	2842.0	2409.1	1496.2	707.2	414.5	353.1	342.8	351.0	367.4	380.7	382.8
32.5°	2907.5	2373.3	1270.0	514.8	340.8	308.0	303.9	310.1	324.4	334.7	335.7
35°	3037.4	2381.4	1055.1	394.0	292.7	274.3	273.2	277.3	284.5	291.7	292.7
37.5°	3228.8	2448.0	843.3	327.5	265.1	251.8	247.7	247.7	252.8	255.8	257.9
40°	3434.5	2548.3	675.4	289.6	245.6	231.3	223.1	220.0	224.1	228.2	229.2
42.5°	3604.4	2648.6	548.5	263.0	230.3	210.8	200.6	198.5	203.7	210.8	212.9
45°	3734.4	2726.3	457.5	241.5	212.9	191.4	180.1	180.1	189.3	201.6	203.7
47.5°	3853.1	2788.8	389.9	222.1	196.5	174.0	162.7	164.8	180.1	196.5	199.6
50°	3933.9	2838.9	339.8	204.7	183.2	159.7	149.4	153.5	171.9	191.4	194.4
52.5°	4020.9	2900.3	307.0	189.3	170.9	148.4	139.2	142.3	162.7	184.2	188.3
55°	4261.4	3106.0	306.0	168.9	149.4	133.0	128.9	130.0	150.4	175.0	180.1
57.5°	4457.9	3287.2	326.5	142.3	124.9	116.7	114.6	115.6	134.1	161.7	167.8
60°	3688.3	2554.4	270.2	117.7	104.4	102.3	99.3	101.3	118.7	143.3	148.4
62.5°	2182.9	1460.4	128.9	90.1	89.0	87.0	83.9	88.0	104.4	125.9	128.9
65°	746.1	432.9	81.9	73.7	75.7	72.7	69.6	73.7	88.0	100.3	101.3
67.5°	143.3	114.6	65.5	61.4	62.4	56.3	55.3	59.4	67.5	69.6	68.6
70°	74.7	66.5	50.1	50.1	48.1	39.9	39.9	44.0	44.0	40.9	39.9
72.5°	38.9	36.8	32.7	36.8	30.7	24.6	24.6	26.6	24.6	20.5	20.5
75°	15.4	15.4	14.3	18.4	13.3	11.3	10.2	12.3	9.2	7.2	7.2
77.5°	4.1	4.1	4.1	5.1	3.1	3.1	2.0	2.0	1.0	0.0	0.0
80°	0.0	1.0	0.0	1.0	0.0	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)