

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: P633569

Luminaire Tested: GWS-SA2F-722-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633569
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-722-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10020.8 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

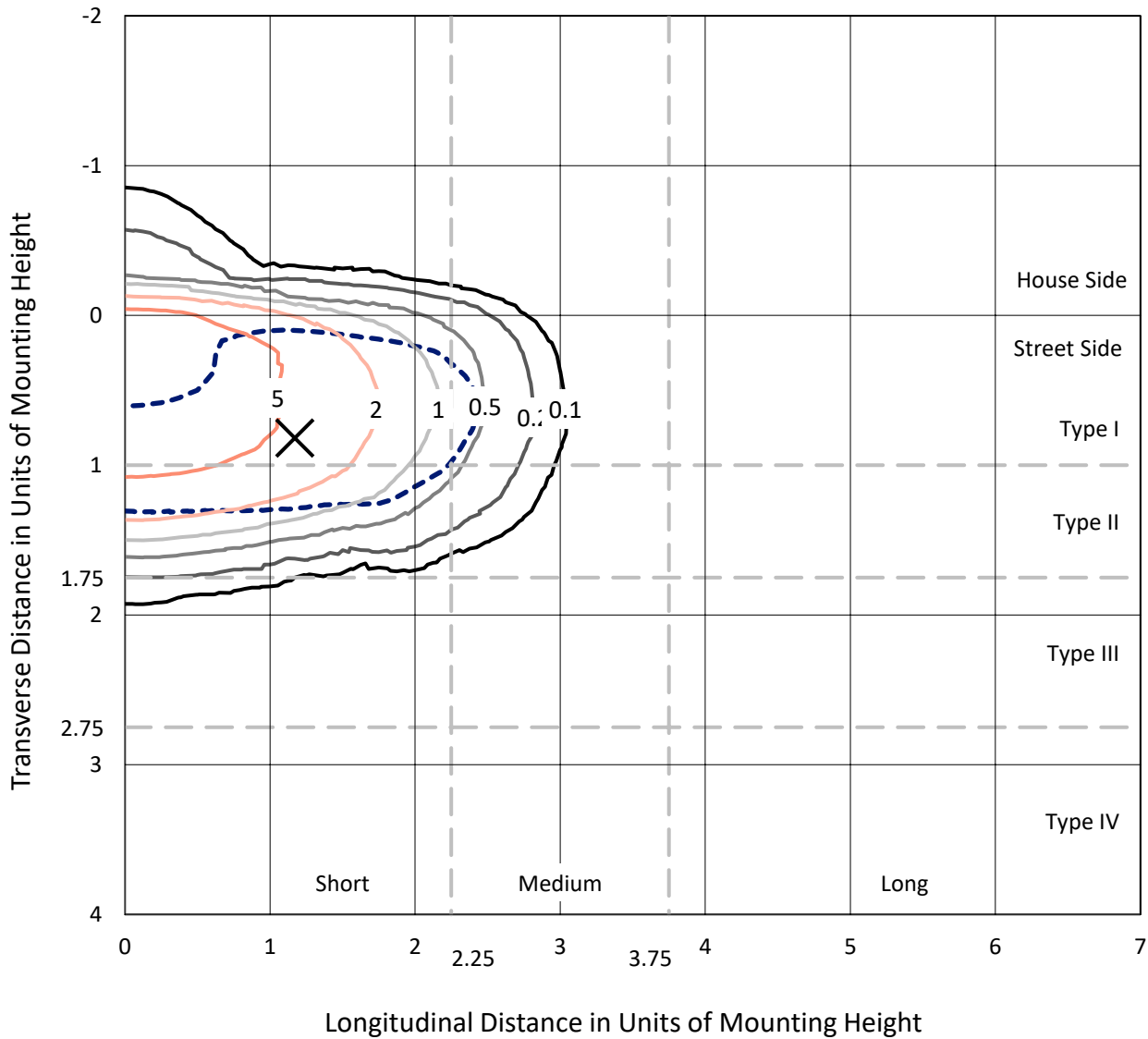
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

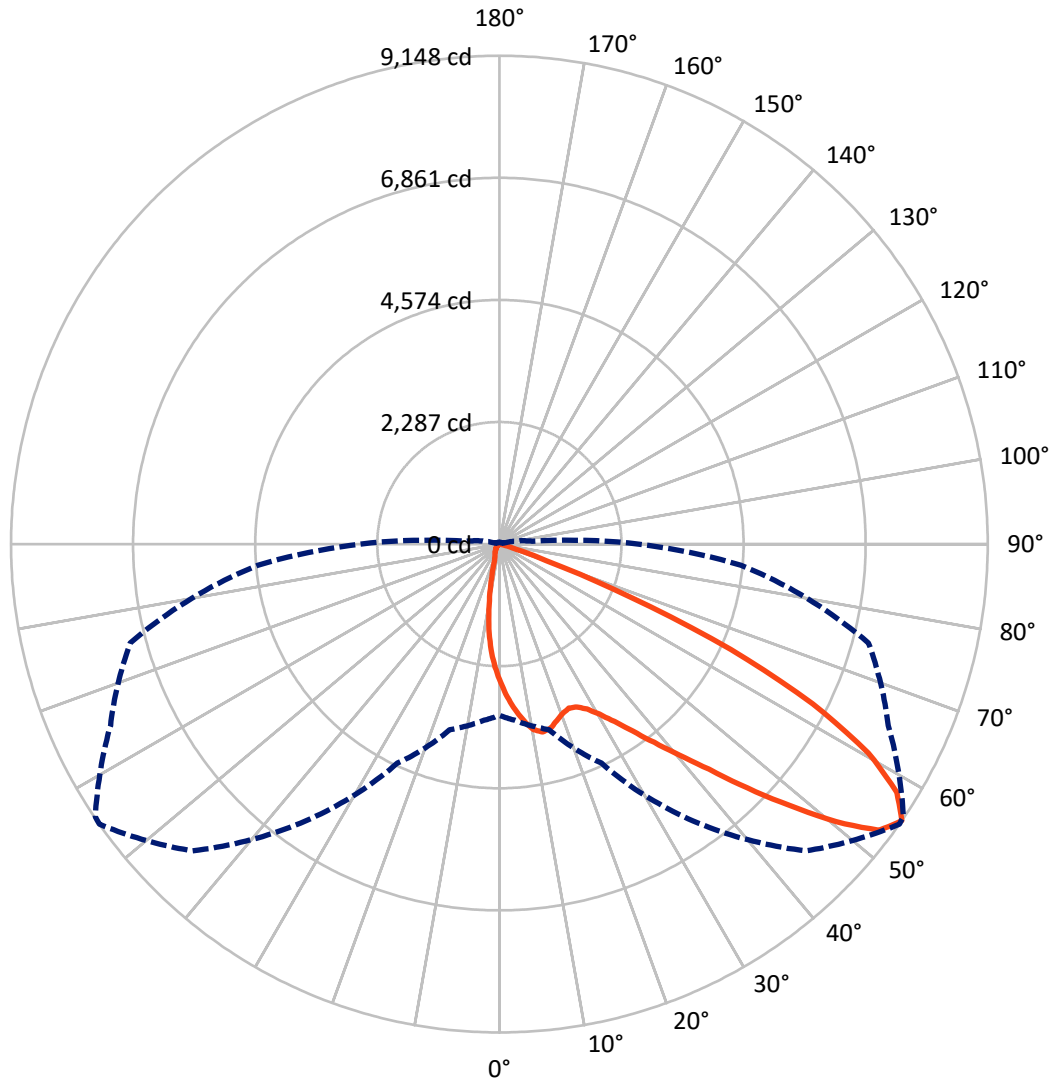
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	618.3	0.0	618.3
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	9402.5	0.0	9402.5
	% Fixture	93.8	0.0	93.8
Total	Lumens	10020.8	0.0	10020.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.8	2.3
10°-20°	551.6	5.5
20°-30°	918.6	9.2
30°-40°	1565.3	15.6
40°-50°	2555.2	25.5
50°-60°	2675.1	26.7
60°-70°	1349.3	13.5
70°-80°	170.4	1.7
80°-90°	6.5	0.1
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°	10020.8	100.0
0°-180°	10020.8	100.0

Coefficient of Utilization



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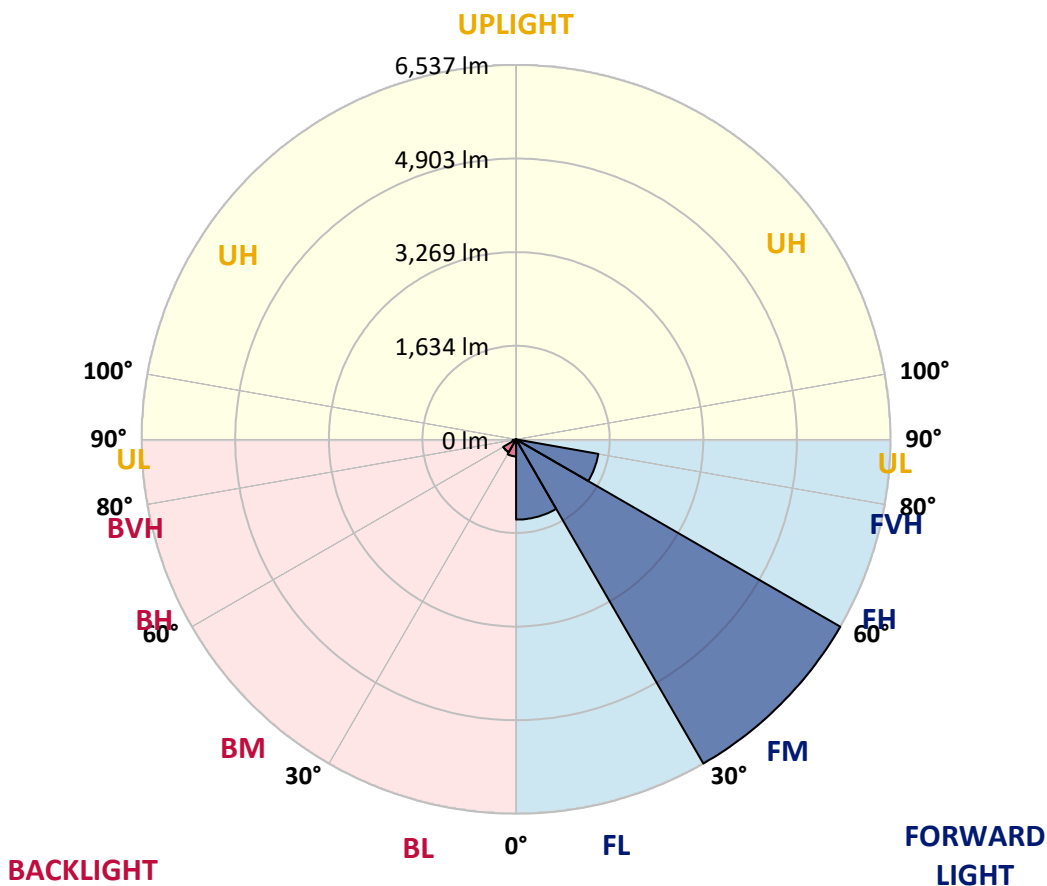
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1401.8	14.0			
FM (30°-60°)	6537.1	65.2			
FH (60°-80°)	1457.7	14.5			G1/1800
FVH (80°-90°)	5.9	0.1			G0/10
BL (0°-30°)	297.2	3.0	B1/500		
BM (30°-60°)	258.5	2.6	B1/1000		
BH (60°-80°)	62.0	0.6	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8
2.5°	3018.0	3003.4	3025.7	3000.0	2956.3	2919.5	2871.5	2854.3	2777.3	2704.4	2634.2
5°	3384.6	3388.9	3382.0	3346.1	3284.4	3215.9	3119.1	3097.6	2963.1	2824.4	2674.5
7.5°	3475.4	3472.8	3487.4	3501.1	3490.8	3456.6	3351.2	3329.8	3162.7	2954.6	2736.1
10°	3195.3	3197.0	3227.0	3319.5	3434.3	3553.4	3537.1	3525.1	3361.5	3101.9	2804.7
12.5°	2799.5	2814.9	2846.6	2978.6	3173.0	3443.7	3611.6	3623.6	3543.9	3263.8	2885.2
15°	2628.2	2631.6	2657.3	2737.0	2881.8	3215.9	3579.9	3613.3	3696.4	3426.6	2972.6
17.5°	2623.9	2628.2	2639.3	2674.5	2768.7	3036.8	3478.0	3536.2	3811.2	3601.3	3077.1
20°	2785.0	2782.4	2774.7	2755.8	2797.0	2977.7	3383.8	3448.0	3873.8	3771.8	3182.4
22.5°	3077.1	3073.7	3039.4	2961.4	2928.0	3031.7	3337.5	3395.7	3911.5	3923.4	3269.0
25°	3413.7	3437.7	3373.5	3255.3	3173.0	3169.6	3378.6	3419.7	3944.0	4057.9	3328.1
27.5°	3783.0	3790.7	3735.8	3603.1	3484.0	3390.6	3497.7	3528.5	3980.0	4177.9	3361.5
30°	4188.1	4185.6	4123.0	3968.8	3824.1	3689.6	3698.1	3710.1	4063.9	4314.9	3398.3
32.5°	4694.4	4705.6	4594.2	4384.3	4210.4	4024.5	3960.3	3962.0	4215.6	4491.4	3454.0
35°	5382.3	5354.9	5207.6	4908.6	4612.2	4411.7	4302.1	4292.7	4449.4	4728.7	3550.8
37.5°	6037.6	6040.2	5886.0	5557.1	5182.7	4866.6	4711.6	4685.9	4778.4	5057.6	3711.9
40°	6492.5	6501.1	6436.8	6264.7	5868.0	5420.9	5193.0	5166.4	5205.0	5474.0	3922.6
42.5°	6733.2	6757.2	6775.2	6815.5	6514.8	6113.0	5762.7	5760.1	5719.8	5948.6	4166.7
45°	6742.7	6778.6	6888.3	7163.3	7197.5	6902.9	6521.7	6464.3	6309.2	6456.5	4385.2
47.5°	6370.0	6453.1	6686.1	7231.0	7590.8	7688.4	7310.6	7275.5	6840.3	6858.3	4548.8
50°	5501.4	5587.9	6017.1	6884.0	7690.1	8312.0	8176.7	8103.9	7284.1	7123.9	4627.6
52.5°	4610.5	4689.3	4980.5	6058.2	7278.1	8508.2	8906.6	8820.0	7682.4	7216.4	4595.1
55°	3208.1	3313.5	3597.9	4528.2	6328.9	8126.2	9148.1	9130.1	8037.9	7158.1	4544.5
57.5°	1572.8	1677.3	1960.9	2791.8	4688.4	7094.8	8778.9	8874.0	8250.4	7095.6	4503.4
60°	657.0	699.9	797.5	1225.0	2623.1	5361.8	7945.4	8077.3	8120.2	7010.8	4499.1
62.5°	381.2	388.1	398.3	508.0	1020.3	3073.7	6591.0	6778.6	7435.7	6898.6	4431.4
65°	287.8	290.4	286.1	311.8	421.5	1165.9	4762.1	5017.4	6206.4	6460.0	4164.2
67.5°	236.4	236.4	225.3	230.4	264.7	436.9	2629.1	2985.4	4592.5	5309.5	3438.6
70°	188.5	192.7	187.6	180.8	189.3	241.6	935.5	1159.9	2674.5	3135.3	2005.4
72.5°	143.1	143.1	151.6	146.5	140.5	151.6	326.4	366.6	1073.4	1307.2	723.9
75°	110.5	113.9	119.9	114.8	106.2	89.9	156.8	166.2	323.8	304.1	161.9
77.5°	56.5	57.4	76.2	84.0	78.8	54.8	68.5	75.4	105.4	94.2	60.0
80°	34.3	36.0	42.8	66.0	52.3	29.1	28.3	30.0	49.7	42.8	24.8
82.5°	14.6	15.4	24.0	24.0	21.4	11.1	11.1	11.1	24.0	22.3	10.3
85°	0.0	0.0	4.3	3.4	3.4	4.3	4.3	4.3	6.0	8.6	5.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.6	2.6
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°	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8
2.5°	2588.8	2534.0	2460.3	2393.5	2303.5	2253.0	2182.7	2125.3	2076.5	2061.1	2054.2
5°	2589.6	2495.4	2337.8	2180.2	1986.6	1834.1	1677.3	1553.1	1451.2	1418.6	1410.0
7.5°	2606.8	2468.0	2212.7	1926.6	1602.8	1335.5	1096.5	882.3	783.0	749.6	742.7
10°	2629.9	2444.9	2067.9	1622.5	1157.3	813.8	576.5	439.5	374.4	338.4	343.5
12.5°	2659.9	2426.0	1907.8	1293.5	765.8	447.2	317.0	265.6	251.9	245.0	241.6
15°	2700.2	2403.8	1709.0	967.2	469.4	287.8	244.1	230.4	225.3	221.9	221.0
17.5°	2741.3	2378.1	1506.8	680.2	311.8	239.0	219.3	212.4	209.0	206.5	205.6
20°	2785.0	2334.4	1269.6	468.6	245.9	215.0	202.2	194.5	190.2	185.9	185.0
22.5°	2803.8	2264.1	1042.5	328.1	218.4	197.9	181.6	172.2	167.0	163.6	163.6
25°	2785.8	2150.2	807.8	249.3	198.7	179.0	162.8	152.5	148.2	144.8	144.8
27.5°	2737.8	2003.7	589.4	206.5	177.3	159.3	143.9	134.5	131.1	129.4	129.4
30°	2684.7	1818.7	415.5	177.3	153.3	138.8	125.9	119.9	119.1	117.4	117.4
32.5°	2639.3	1645.6	286.1	155.9	135.4	120.8	112.2	109.7	110.5	108.8	109.7
35°	2614.5	1476.0	212.4	138.8	120.8	107.1	102.8	102.8	102.8	101.9	101.9
37.5°	2624.8	1309.0	173.0	126.8	107.9	97.7	93.4	95.1	96.8	96.8	96.8
40°	2676.2	1160.8	153.3	115.6	96.8	89.1	85.7	88.2	90.8	92.5	92.5
42.5°	2741.3	1040.8	138.8	106.2	89.1	80.5	78.8	81.4	84.0	85.7	85.7
45°	2782.4	920.0	124.2	94.2	81.4	71.1	71.1	74.5	73.7	74.5	74.5
47.5°	2801.2	824.1	109.7	81.4	69.4	61.7	62.5	64.2	62.5	64.2	64.2
50°	2755.0	727.3	96.8	67.7	57.4	54.0	55.7	54.8	54.8	58.3	58.3
52.5°	2670.2	655.3	85.7	57.4	48.8	48.0	49.7	46.3	47.1	47.1	46.3
55°	2607.6	614.2	76.2	49.7	42.0	42.8	42.0	36.0	32.6	29.1	28.3
57.5°	2576.8	597.9	69.4	44.5	37.7	37.7	34.3	24.8	18.8	14.6	12.8
60°	2569.9	578.2	62.5	38.5	33.4	31.7	24.8	14.6	9.4	6.9	6.0
62.5°	2504.8	530.3	56.5	30.8	29.1	25.7	15.4	8.6	5.1	3.4	2.6
65°	2291.5	436.0	50.5	24.0	22.3	18.8	9.4	5.1	2.6	0.9	0.0
67.5°	1822.9	309.2	44.5	18.0	15.4	12.0	6.0	3.4	0.9	0.0	0.0
70°	1051.1	167.0	36.8	12.8	10.3	7.7	4.3	1.7	0.0	0.0	0.0
72.5°	351.2	78.0	28.3	8.6	7.7	6.0	2.6	0.9	0.0	0.0	0.0
75°	77.1	46.3	18.8	6.0	5.1	4.3	1.7	0.0	0.0	0.0	0.0
77.5°	29.1	32.6	9.4	4.3	3.4	2.6	0.9	0.0	0.0	0.0	0.0
80°	11.1	21.4	4.3	2.6	2.6	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	6.0	8.6	2.6	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.4	4.3	1.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	0.9	0.9	0.9	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)