

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: P633294

Luminaire Tested: GWS-SA2E-740-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633294
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-SA2E-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12236 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

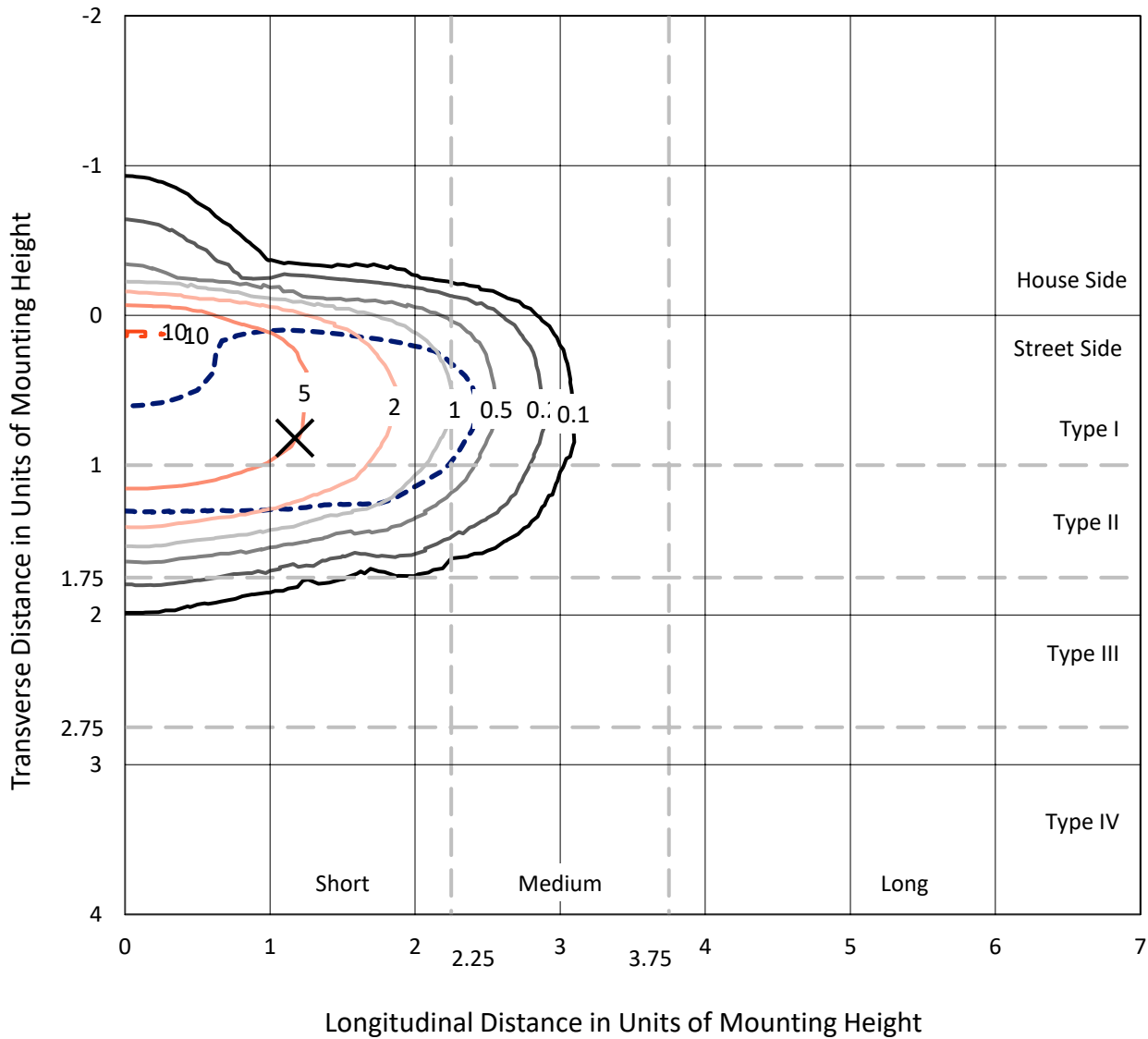
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

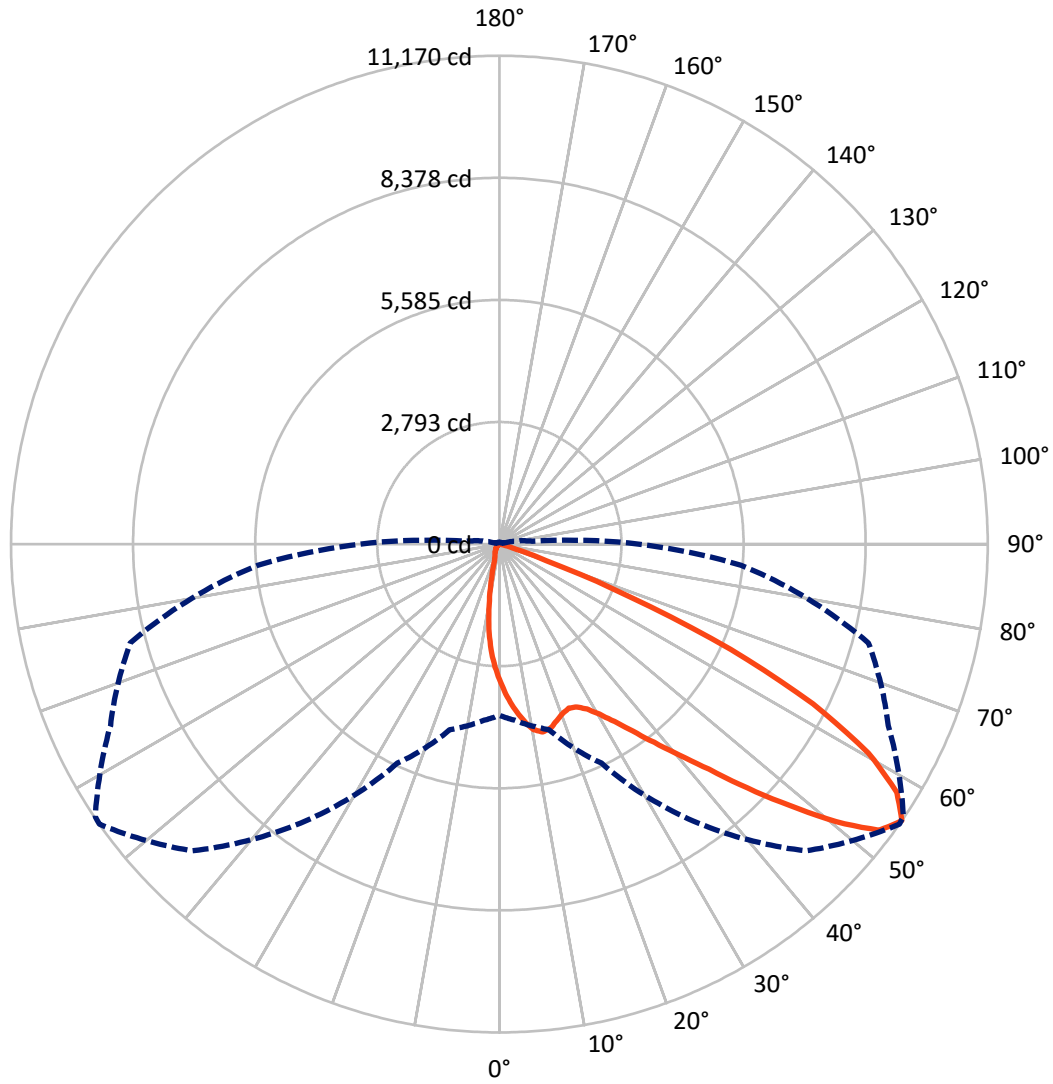
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.4 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	755.0	0.0	755.0
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	11481.0	0.0	11481.0
	% Fixture	93.8	0.0	93.8
Total	Lumens	12236.0	0.0	12236.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.4	2.3
10°-20°	673.5	5.5
20°-30°	1121.7	9.2
30°-40°	1911.4	15.6
40°-50°	3120.0	25.5
50°-60°	3266.5	26.7
60°-70°	1647.6	13.5
70°-80°	208.1	1.7
80°-90°	7.9	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°	12236.0	100.0
0°-180°	12236.0	100.0

Coefficient of Utilization



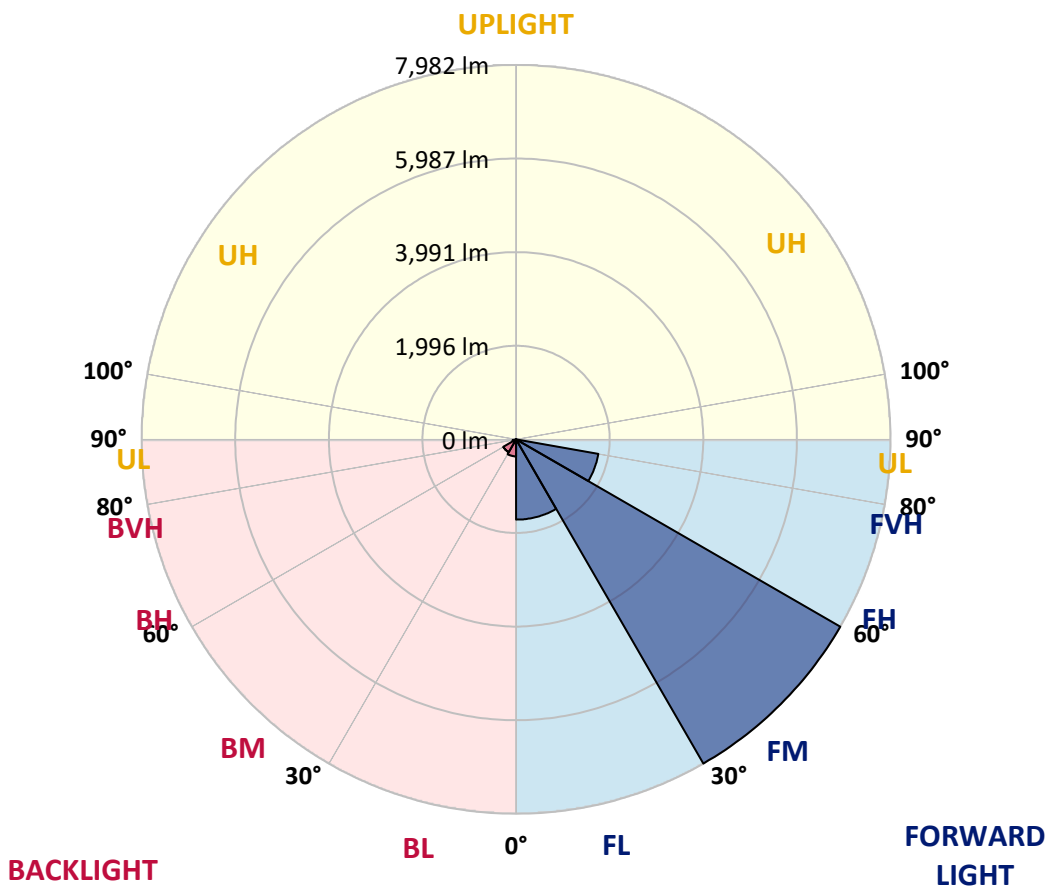
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1711.6	14.0			
FM (30°-60°)	7982.2	65.2			
FH (60°-80°)	1779.9	14.5			G1/1800
FVH (80°-90°)	7.2	0.1			G0/10
BL (0°-30°)	362.9	3.0	B1/500		
BM (30°-60°)	315.7	2.6	B1/1000		
BH (60°-80°)	75.7	0.6	B0/110		G0/110
BVH (80°-90°)	0.7	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°	3161.1	3161.1	3161.1	3161.1	3161.1	3161.1	3161.1	3161.1	3161.1	3161.1	3161.1
2.5°	3685.1	3667.3	3694.5	3663.2	3609.8	3564.8	3506.3	3485.3	3391.2	3302.3	3216.5
5°	4132.8	4138.0	4129.7	4085.7	4010.4	3926.8	3808.6	3782.4	3618.2	3448.7	3265.7
7.5°	4243.7	4240.6	4258.3	4275.1	4262.5	4220.7	4092.0	4065.9	3861.9	3607.7	3341.0
10°	3901.6	3903.7	3940.3	4053.3	4193.5	4338.9	4319.0	4304.4	4104.6	3787.6	3424.7
12.5°	3418.4	3437.2	3475.9	3637.0	3874.4	4205.0	4410.0	4424.7	4327.4	3985.3	3523.0
15°	3209.2	3213.4	3244.7	3342.0	3518.8	3926.8	4371.3	4412.1	4513.6	4184.1	3629.7
17.5°	3204.0	3209.2	3222.8	3265.7	3380.7	3708.1	4246.8	4318.0	4653.7	4397.5	3757.3
20°	3400.6	3397.5	3388.1	3365.0	3415.2	3636.0	4131.8	4210.2	4730.1	4605.6	3886.0
22.5°	3757.3	3753.1	3711.3	3616.1	3575.3	3701.9	4075.3	4146.4	4776.1	4790.8	3991.6
25°	4168.4	4197.7	4119.2	3974.9	3874.4	3870.3	4125.5	4175.7	4815.9	4955.0	4063.8
27.5°	4619.2	4628.6	4561.7	4399.6	4254.2	4140.1	4270.9	4308.5	4859.8	5101.4	4104.6
30°	5114.0	5110.8	5034.5	4846.2	4669.4	4505.2	4515.7	4530.3	4962.3	5268.8	4149.6
32.5°	5732.2	5745.8	5609.8	5353.5	5141.2	4914.2	4835.7	4837.8	5147.5	5484.3	4217.5
35°	6572.1	6538.7	6358.7	5993.7	5631.8	5387.0	5253.1	5241.6	5433.0	5774.0	4335.7
37.5°	7372.3	7375.5	7187.2	6785.5	6328.4	5942.4	5753.1	5721.7	5834.7	6175.7	4532.4
40°	7927.8	7938.2	7859.8	7649.5	7165.2	6619.2	6341.0	6308.5	6355.6	6684.1	4789.7
42.5°	8221.7	8251.0	8273.0	8322.1	7955.0	7464.4	7036.6	7033.4	6984.3	7263.5	5087.8
45°	8233.2	8277.1	8411.0	8746.8	8788.6	8428.8	7963.3	7893.3	7703.9	7883.8	5354.6
47.5°	7778.2	7879.7	8164.2	8829.4	9268.8	9388.0	8926.7	8883.8	8352.5	8374.4	5554.4
50°	6717.5	6823.2	7347.2	8405.8	9390.1	10149.5	9984.2	9895.3	8894.3	8698.7	5650.6
52.5°	5629.7	5725.9	6081.5	7397.4	8887.0	10389.0	10875.4	10769.8	9380.7	8811.7	5610.8
55°	3917.3	4046.0	4393.3	5529.2	7728.0	9922.5	11170.4	11148.5	9814.8	8740.5	5549.1
57.5°	1920.5	2048.1	2394.3	3409.0	5724.9	8663.1	10719.6	10835.7	10074.2	8664.2	5498.9
60°	802.3	854.6	973.8	1495.8	3202.9	6547.0	9701.8	9862.9	9915.2	8560.6	5493.7
62.5°	465.5	473.8	486.4	620.3	1245.8	3753.1	8048.1	8277.1	9079.4	8423.6	5411.0
65°	351.5	354.6	349.4	380.8	514.6	1423.6	5814.8	6126.5	7578.4	7888.0	5084.7
67.5°	288.7	288.7	275.1	281.4	323.2	533.5	3210.2	3645.4	5607.7	6483.2	4198.7
70°	230.1	235.4	229.1	220.7	231.2	295.0	1142.3	1416.3	3265.7	3828.4	2448.7
72.5°	174.7	174.7	185.1	178.9	171.5	185.1	398.5	447.7	1310.7	1596.2	883.9
75°	134.9	139.1	146.4	140.2	129.7	109.8	191.4	202.9	395.4	371.3	197.7
77.5°	69.0	70.1	93.1	102.5	96.2	66.9	83.7	92.0	128.7	115.1	73.2
80°	41.8	43.9	52.3	80.5	63.8	35.6	34.5	36.6	60.7	52.3	30.3
82.5°	17.8	18.8	29.3	29.3	26.2	13.6	13.6	13.6	29.3	27.2	12.6
85°	0.0	0.0	5.2	4.2	4.2	5.2	5.2	5.2	7.3	10.5	6.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.1	3.1
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°	3161.1	3161.1	3161.1	3161.1	3161.1	3161.1	3161.1	3161.1	3161.1	3161.1	3161.1
2.5°	3161.1	3094.1	3004.2	2922.6	2812.7	2751.0	2665.3	2595.2	2535.5	2516.7	2508.4
5°	3162.1	3047.0	2854.6	2662.1	2425.7	2239.5	2048.1	1896.4	1772.0	1732.2	1721.7
7.5°	3183.0	3013.6	2701.9	2352.5	1957.1	1630.7	1338.9	1077.4	956.1	915.3	906.9
10°	3211.3	2985.3	2525.1	1981.2	1413.2	993.7	704.0	536.6	457.1	413.2	419.5
12.5°	3247.9	2962.3	2329.5	1579.5	935.1	546.0	387.0	324.3	307.5	299.2	295.0
15°	3297.0	2935.1	2086.8	1181.0	573.2	351.5	298.1	281.4	275.1	270.9	269.9
17.5°	3347.3	2903.7	1839.9	830.5	380.8	291.8	267.8	259.4	255.2	252.1	251.0
20°	3400.6	2850.4	1550.2	572.2	300.2	262.6	246.9	237.4	232.2	227.0	225.9
22.5°	3423.6	2764.6	1273.0	400.6	266.7	241.6	221.8	210.2	204.0	199.8	199.8
25°	3401.6	2625.5	986.4	304.4	242.7	218.6	198.7	186.2	181.0	176.8	176.8
27.5°	3343.1	2446.6	719.7	252.1	216.5	194.6	175.7	164.2	160.0	157.9	157.9
30°	3278.2	2220.7	507.3	216.5	187.2	169.5	153.8	146.4	145.4	143.3	143.3
32.5°	3222.8	2009.4	349.4	190.4	165.3	147.5	137.0	133.9	134.9	132.8	133.9
35°	3192.4	1802.3	259.4	169.5	147.5	130.8	125.5	125.5	125.5	124.5	124.5
37.5°	3205.0	1598.3	211.3	154.8	131.8	119.2	114.0	116.1	118.2	118.2	118.2
40°	3267.8	1417.4	187.2	141.2	118.2	108.8	104.6	107.7	110.9	113.0	113.0
42.5°	3347.3	1270.9	169.5	129.7	108.8	98.3	96.2	99.4	102.5	104.6	104.6
45°	3397.5	1123.4	151.7	115.1	99.4	86.8	86.8	91.0	90.0	91.0	91.0
47.5°	3420.5	1006.3	133.9	99.4	84.7	75.3	76.4	78.5	76.4	78.5	78.5
50°	3364.0	888.1	118.2	82.6	70.1	65.9	68.0	66.9	66.9	71.1	71.1
52.5°	3260.4	800.2	104.6	70.1	59.6	58.6	60.7	56.5	57.5	57.5	56.5
55°	3184.1	750.0	93.1	60.7	51.3	52.3	51.3	43.9	39.7	35.6	34.5
57.5°	3146.4	730.1	84.7	54.4	46.0	46.0	41.8	30.3	23.0	17.8	15.7
60°	3138.1	706.1	76.4	47.1	40.8	38.7	30.3	17.8	11.5	8.4	7.3
62.5°	3058.6	647.5	69.0	37.7	35.6	31.4	18.8	10.5	6.3	4.2	3.1
65°	2798.1	532.4	61.7	29.3	27.2	23.0	11.5	6.3	3.1	1.0	0.0
67.5°	2225.9	377.6	54.4	22.0	18.8	14.6	7.3	4.2	1.0	0.0	0.0
70°	1283.5	204.0	45.0	15.7	12.6	9.4	5.2	2.1	0.0	0.0	0.0
72.5°	428.9	95.2	34.5	10.5	9.4	7.3	3.1	1.0	0.0	0.0	0.0
75°	94.1	56.5	23.0	7.3	6.3	5.2	2.1	0.0	0.0	0.0	0.0
77.5°	35.6	39.7	11.5	5.2	4.2	3.1	1.0	0.0	0.0	0.0	0.0
80°	13.6	26.2	5.2	3.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.3	10.5	3.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.2	5.2	2.1	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	1.0	1.0	1.0	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)