

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: P639234

Luminaire Tested: GWS-SA5B-740-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639234
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-SA5B-740-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14890 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

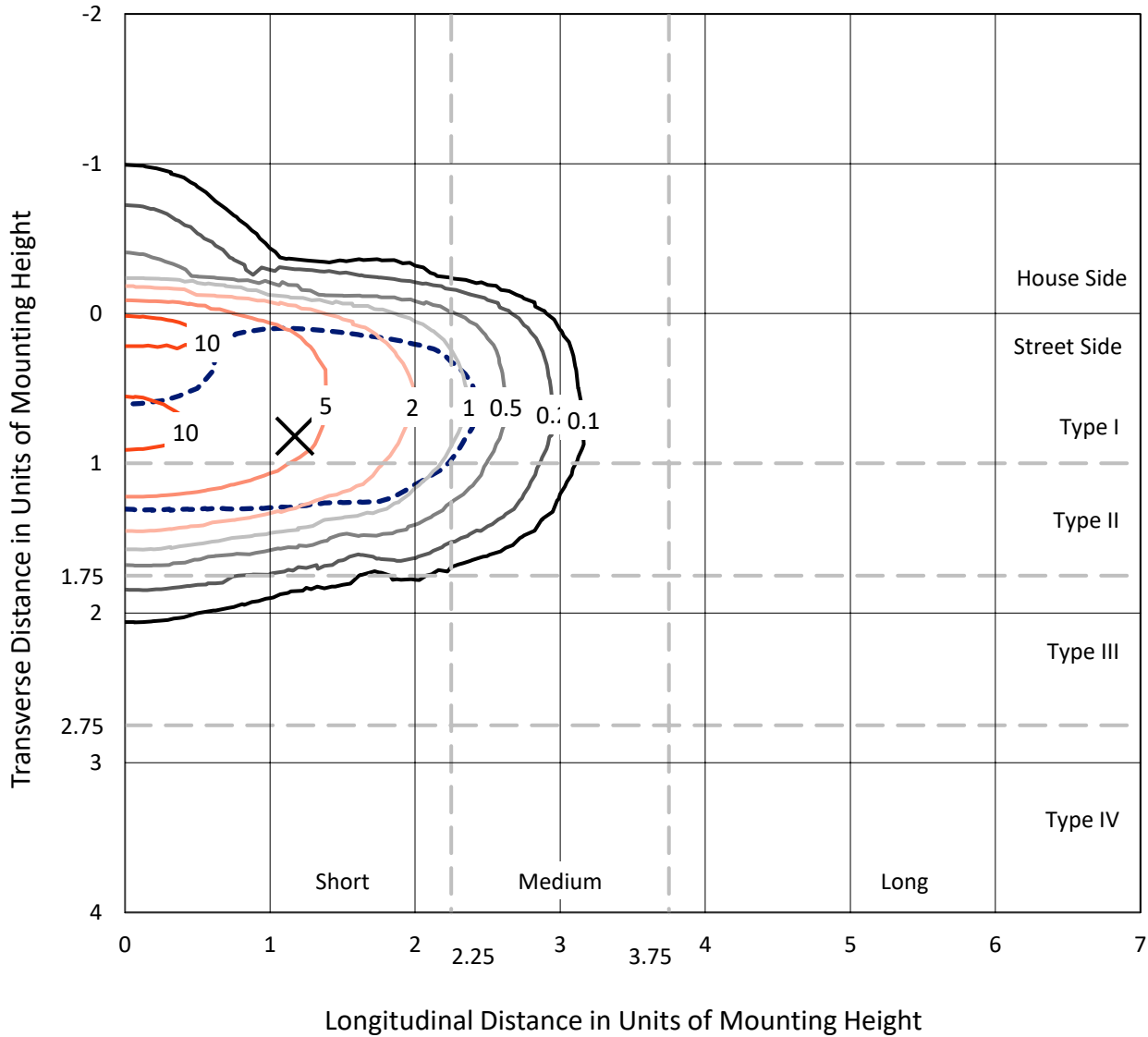
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

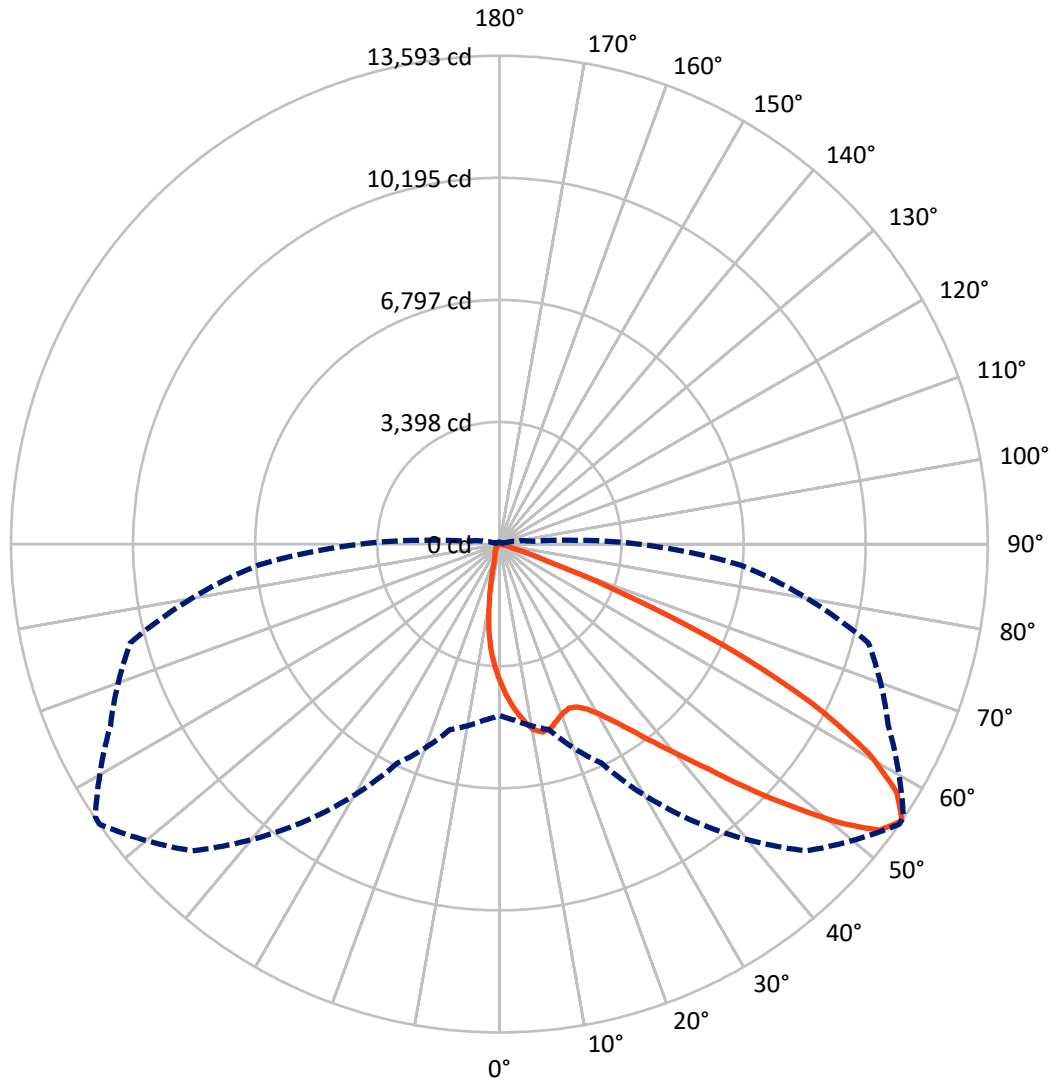
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.6 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	918.8	0.0	918.8
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	13971.2	0.0	13971.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	14890.0	0.0	14890.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.0	2.3
10°-20°	819.6	5.5
20°-30°	1364.9	9.2
30°-40°	2325.9	15.6
40°-50°	3796.8	25.5
50°-60°	3975.0	26.7
60°-70°	2004.9	13.5
70°-80°	253.2	1.7
80°-90°	9.6	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°	14890.0	100.0
0°-180°	14890.0	100.0

Coefficient of Utilization



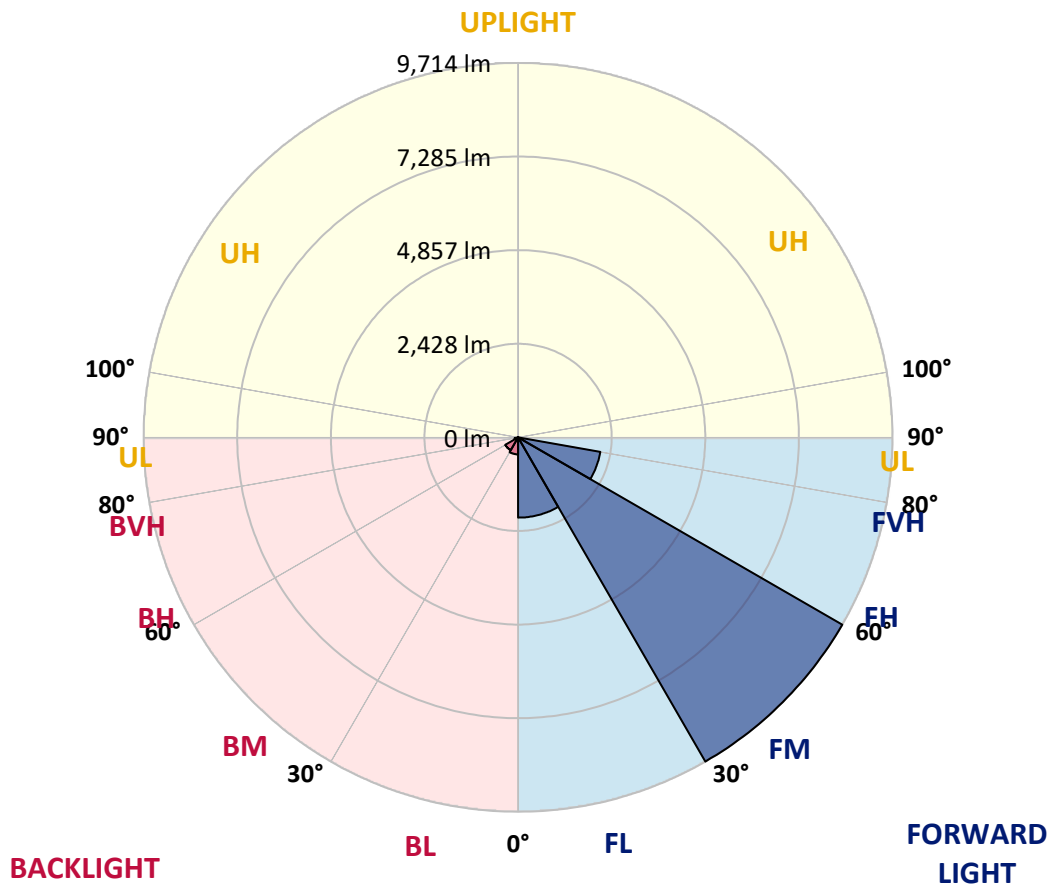
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2082.9	14.0			
FM (30°-60°)	9713.6	65.2			
FH (60°-80°)	2166.0	14.5			G2/5000
FVH (80°-90°)	8.7	0.1			G0/10
BL (0°-30°)	441.6	3.0	B1/500		
BM (30°-60°)	384.1	2.6	B1/1000		
BH (60°-80°)	92.2	0.6	B0/110		G0/110
BVH (80°-90°)	0.9	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3846.7	3846.7	3846.7	3846.7	3846.7	3846.7	3846.7	3846.7	3846.7	3846.7	3846.7
2.5°	4484.4	4462.8	4495.9	4457.7	4392.8	4338.0	4266.8	4241.3	4126.7	4018.5	3914.2
5°	5029.2	5035.6	5025.4	4971.9	4880.3	4778.5	4634.6	4602.8	4403.0	4196.8	3974.0
7.5°	5164.2	5160.3	5182.0	5202.3	5187.1	5136.2	4979.6	4947.8	4699.5	4390.2	4065.6
10°	4747.9	4750.5	4795.0	4932.5	5103.1	5280.0	5255.8	5238.0	4994.9	4609.2	4167.5
12.5°	4159.8	4182.7	4229.8	4425.9	4714.8	5117.1	5366.5	5384.4	5266.0	4849.7	4287.1
15°	3905.3	3910.3	3948.5	4066.9	4282.0	4778.5	5319.4	5369.1	5492.6	5091.6	4417.0
17.5°	3898.9	3905.3	3921.8	3974.0	4114.0	4512.4	5168.0	5254.5	5663.1	5351.3	4572.3
20°	4138.2	4134.4	4122.9	4094.9	4156.0	4424.6	5028.0	5123.4	5756.1	5604.6	4728.8
22.5°	4572.3	4567.2	4516.2	4400.4	4350.8	4504.8	4959.2	5045.8	5812.1	5829.9	4857.4
25°	5072.5	5108.1	5012.7	4837.0	4714.8	4709.7	5020.3	5081.4	5860.4	6029.7	4945.2
27.5°	5621.1	5632.6	5551.1	5353.8	5176.9	5038.1	5197.3	5243.1	5913.9	6207.9	4994.9
30°	6223.2	6219.4	6126.5	5897.3	5682.2	5482.4	5495.1	5512.9	6038.6	6411.6	5049.6
32.5°	6975.5	6992.0	6826.6	6514.7	6256.3	5980.1	5884.6	5887.2	6263.9	6673.8	5132.3
35°	7997.6	7956.9	7738.0	7293.7	6853.3	6555.4	6392.5	6378.5	6611.4	7026.4	5276.2
37.5°	8971.4	8975.2	8746.1	8257.3	7701.0	7231.3	7001.0	6962.8	7100.2	7515.2	5515.5
40°	9647.3	9660.0	9564.6	9308.7	8719.4	8054.9	7716.3	7676.9	7734.1	8133.8	5828.6
42.5°	10005.0	10040.6	10067.4	10127.2	9680.4	9083.4	8562.8	8559.0	8499.2	8839.0	6191.4
45°	10019.0	10072.5	10235.4	10644.0	10694.9	10257.0	9690.6	9605.3	9374.9	9593.8	6516.0
47.5°	9465.3	9588.8	9935.0	10744.5	11279.2	11424.3	10862.9	10810.7	10164.1	10190.8	6759.1
50°	8174.6	8303.1	8940.8	10229.0	11426.8	12350.9	12149.8	12041.6	10823.5	10585.4	6876.2
52.5°	6850.7	6967.9	7400.6	9001.9	10814.6	12642.4	13234.3	13105.8	11415.4	10722.9	6827.8
55°	4767.0	4923.6	5346.2	6728.5	9404.2	12074.7	13593.3	13566.6	11943.6	10636.4	6752.7
57.5°	2337.0	2492.3	2913.7	4148.4	6966.6	10542.2	13044.7	13186.0	12259.3	10543.4	6691.6
60°	976.3	1040.0	1185.1	1820.2	3897.6	7967.1	11806.1	12002.2	12065.8	10417.4	6685.3
62.5°	566.4	576.6	591.9	754.8	1516.0	4567.2	9793.7	10072.5	11048.8	10250.7	6584.7
65°	427.7	431.5	425.1	463.3	626.3	1732.4	7076.1	7455.4	9222.2	9598.9	6187.6
67.5°	351.3	351.3	334.8	342.4	393.3	649.2	3906.5	4436.1	6824.0	7889.4	5109.4
70°	280.0	286.4	278.8	268.6	281.3	359.0	1390.0	1723.5	3974.0	4658.8	2979.9
72.5°	212.6	212.6	225.3	217.7	208.8	225.3	485.0	544.8	1594.9	1942.4	1075.6
75°	164.2	169.3	178.2	170.6	157.8	133.7	232.9	246.9	481.2	451.9	240.6
77.5°	84.0	85.3	113.3	124.7	117.1	81.5	101.8	112.0	156.6	140.0	89.1
80°	50.9	53.5	63.6	98.0	77.6	43.3	42.0	44.6	73.8	63.6	36.9
82.5°	21.6	22.9	35.6	35.6	31.8	16.5	16.5	16.5	35.6	33.1	15.3
85°	0.0	0.0	6.4	5.1	5.1	6.4	6.4	6.4	8.9	12.7	7.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.8	3.8
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°	3846.7	3846.7	3846.7	3846.7	3846.7	3846.7	3846.7	3846.7	3846.7	3846.7	3846.7
2.5°	3846.7	3765.2	3655.8	3556.5	3422.8	3347.7	3243.3	3158.1	3085.5	3062.6	3052.4
5°	3848.0	3708.0	3473.7	3239.5	2951.9	2725.3	2492.3	2307.8	2156.3	2107.9	2095.2
7.5°	3873.4	3667.2	3287.9	2862.8	2381.6	1984.5	1629.3	1311.1	1163.4	1113.8	1103.6
10°	3907.8	3632.9	3072.8	2410.9	1719.7	1209.3	856.7	653.0	556.3	502.8	510.4
12.5°	3952.4	3604.9	2834.7	1922.1	1138.0	664.5	471.0	394.6	374.2	364.0	359.0
15°	4012.2	3571.8	2539.4	1437.1	697.5	427.7	362.8	342.4	334.8	329.7	328.4
17.5°	4073.3	3533.6	2239.0	1010.7	463.3	355.1	325.9	315.7	310.6	306.8	305.5
20°	4138.2	3468.7	1886.4	696.3	365.3	319.5	300.4	288.9	282.6	276.2	274.9
22.5°	4166.2	3364.3	1549.1	487.5	324.6	294.0	269.9	255.9	248.2	243.1	243.1
25°	4139.5	3195.0	1200.3	370.4	295.3	266.0	241.9	226.6	220.2	215.1	215.1
27.5°	4068.2	2977.3	875.8	306.8	263.5	236.8	213.8	199.8	194.8	192.2	192.2
30°	3989.3	2702.4	617.4	263.5	227.8	206.2	187.1	178.2	176.9	174.4	174.4
32.5°	3921.8	2445.2	425.1	231.7	201.1	179.5	166.7	162.9	164.2	161.7	162.9
35°	3884.9	2193.2	315.7	206.2	179.5	159.1	152.7	152.7	152.7	151.5	151.5
37.5°	3900.2	1945.0	257.1	188.4	160.4	145.1	138.7	141.3	143.8	143.8	143.8
40°	3976.5	1724.8	227.8	171.8	143.8	132.4	127.3	131.1	134.9	137.5	137.5
42.5°	4073.3	1546.6	206.2	157.8	132.4	119.7	117.1	120.9	124.7	127.3	127.3
45°	4134.4	1367.1	184.6	140.0	120.9	105.7	105.7	110.7	109.5	110.7	110.7
47.5°	4162.4	1224.5	162.9	120.9	103.1	91.6	92.9	95.5	92.9	95.5	95.5
50°	4093.6	1080.7	143.8	100.6	85.3	80.2	82.7	81.5	81.5	86.6	86.6
52.5°	3967.6	973.8	127.3	85.3	72.6	71.3	73.8	68.7	70.0	70.0	68.7
55°	3874.7	912.7	113.3	73.8	62.4	63.6	62.4	53.5	48.4	43.3	42.0
57.5°	3828.9	888.5	103.1	66.2	56.0	56.0	50.9	36.9	28.0	21.6	19.1
60°	3818.7	859.2	92.9	57.3	49.6	47.1	36.9	21.6	14.0	10.2	8.9
62.5°	3722.0	787.9	84.0	45.8	43.3	38.2	22.9	12.7	7.6	5.1	3.8
65°	3405.0	647.9	75.1	35.6	33.1	28.0	14.0	7.6	3.8	1.3	0.0
67.5°	2708.7	459.5	66.2	26.7	22.9	17.8	8.9	5.1	1.3	0.0	0.0
70°	1561.8	248.2	54.7	19.1	15.3	11.5	6.4	2.5	0.0	0.0	0.0
72.5°	521.9	115.8	42.0	12.7	11.5	8.9	3.8	1.3	0.0	0.0	0.0
75°	114.6	68.7	28.0	8.9	7.6	6.4	2.5	0.0	0.0	0.0	0.0
77.5°	43.3	48.4	14.0	6.4	5.1	3.8	1.3	0.0	0.0	0.0	0.0
80°	16.5	31.8	6.4	3.8	3.8	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	8.9	12.7	3.8	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.1	6.4	2.5	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	1.3	1.3	1.3	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)