

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: P636264

Luminaire Tested: GWS-SA3F-740-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636264
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-SA3F-740-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20504.2 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

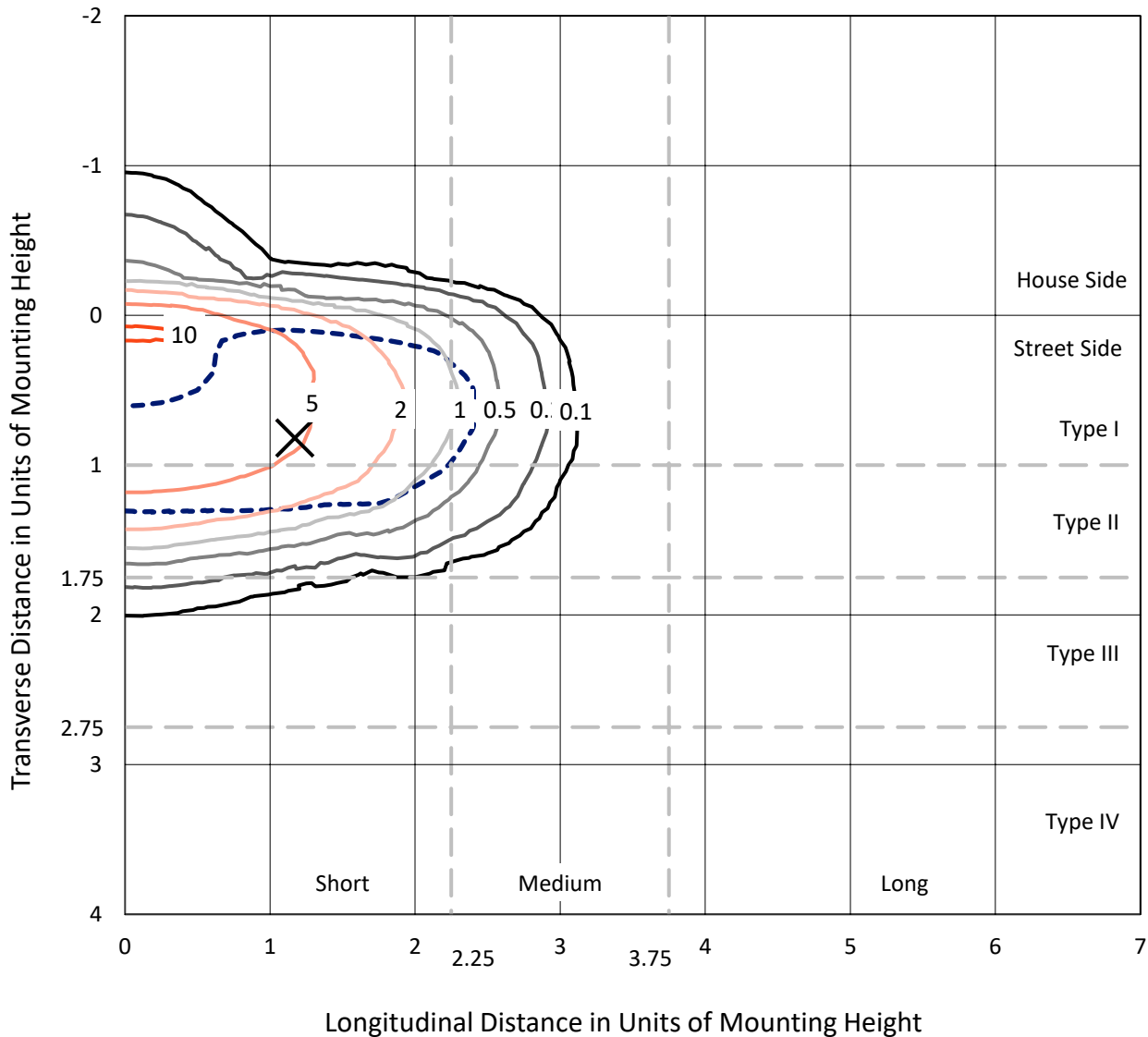
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

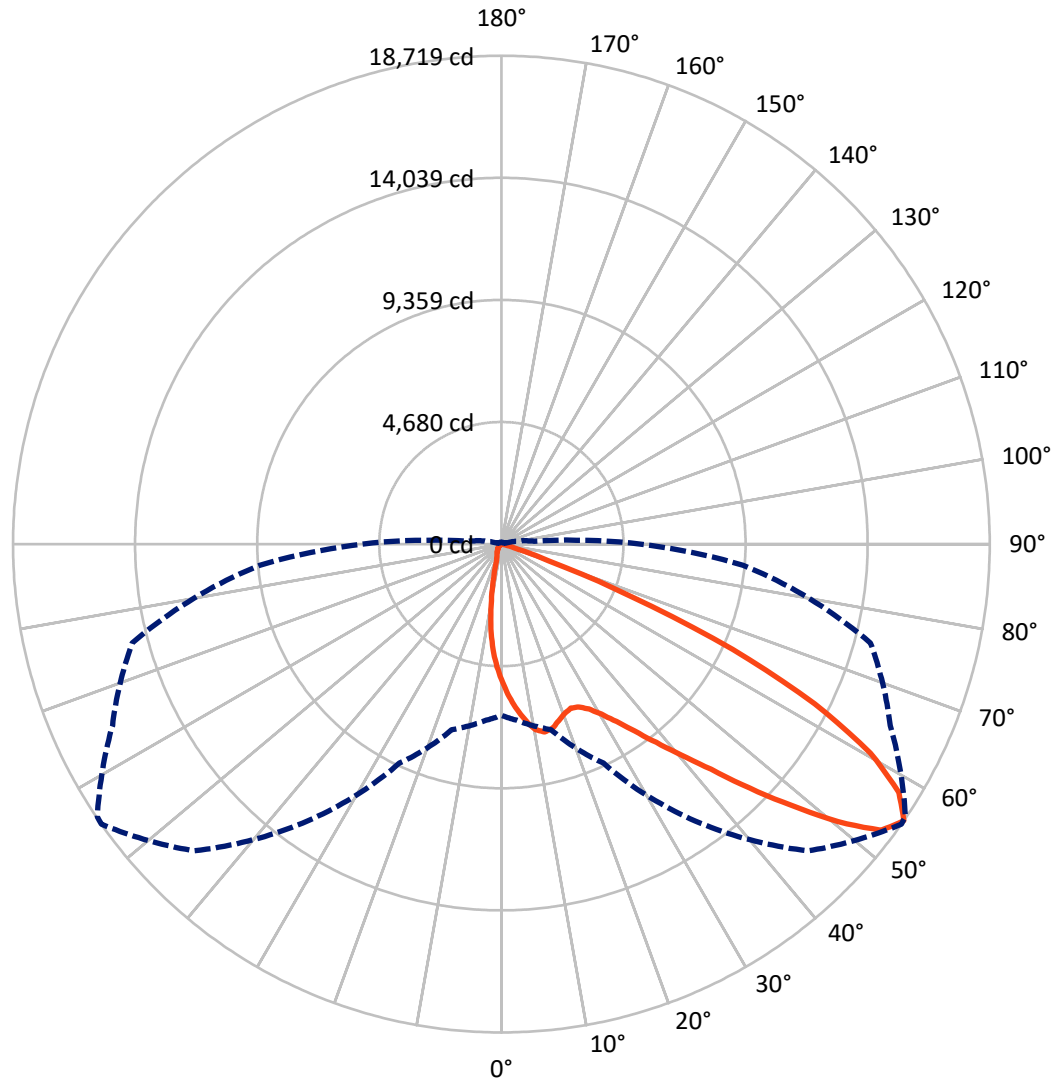
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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	1265.2	0.0	1265.2
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	19239.0	0.0	19239.0
	% Fixture	93.8	0.0	93.8
Total	Lumens	20504.2	0.0	20504.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.1	2.3
10°-20°	1128.6	5.5
20°-30°	1879.6	9.2
30°-40°	3202.9	15.6
40°-50°	5228.3	25.5
50°-60°	5473.8	26.7
60°-70°	2760.9	13.5
70°-80°	348.7	1.7
80°-90°	13.2	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°	20504.2	100.0
0°-180°	20504.2	100.0

Coefficient of Utilization



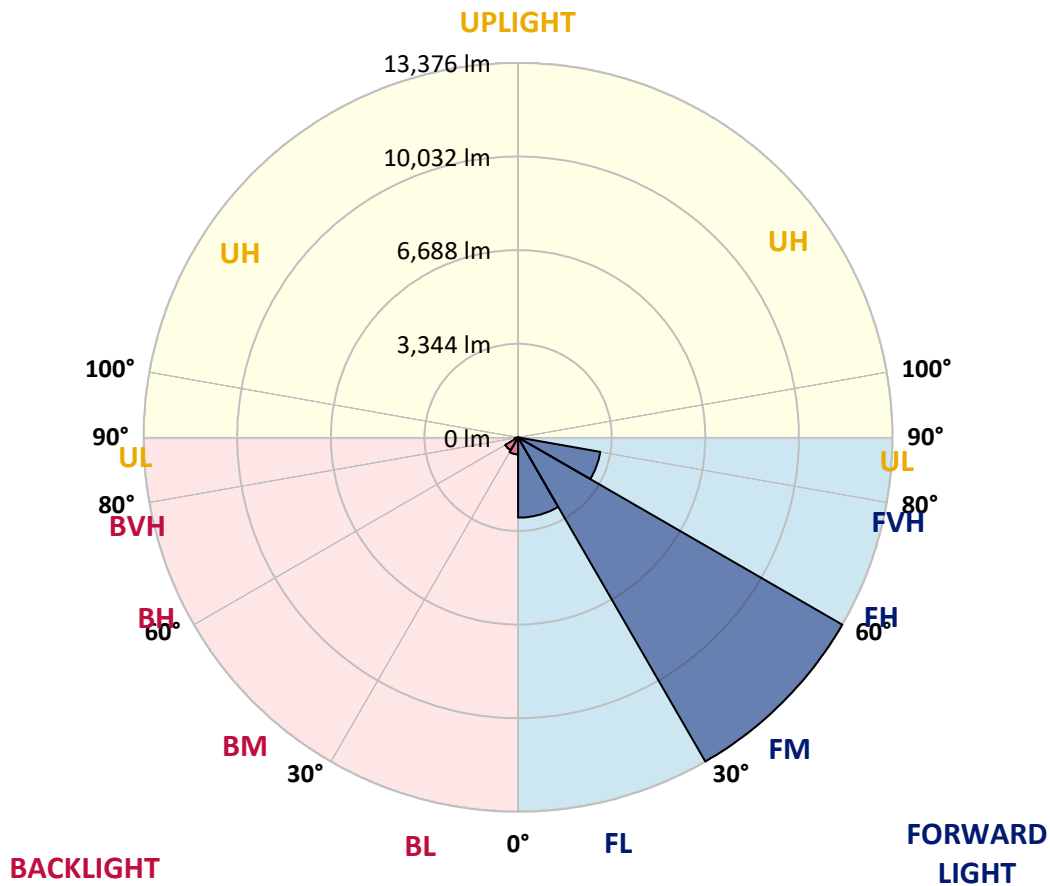
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2868.3	14.0			
FM (30°-60°)	13376.0	65.2			
FH (60°-80°)	2982.7	14.5			G2/5000
FVH (80°-90°)	12.0	0.1			G1/100
BL (0°-30°)	608.1	3.0	B2/1000		
BM (30°-60°)	529.0	2.6	B1/1000		
BH (60°-80°)	126.9	0.6	B1/500		G1/500
BVH (80°-90°)	1.2	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5297.1	5297.1	5297.1	5297.1	5297.1	5297.1	5297.1	5297.1	5297.1	5297.1	5297.1
2.5°	6175.3	6145.5	6191.0	6138.4	6049.1	5973.7	5875.5	5840.5	5682.7	5533.7	5390.0
5°	6925.5	6934.2	6920.2	6846.6	6720.4	6580.2	6382.1	6338.3	6063.1	5779.1	5472.4
7.5°	7111.3	7106.0	7135.8	7163.9	7142.8	7072.7	6857.1	6813.3	6471.5	6045.5	5598.6
10°	6538.1	6541.6	6603.0	6792.3	7027.1	7270.8	7237.5	7212.9	6878.1	6347.0	5738.8
12.5°	5728.3	5759.8	5824.7	6094.6	6492.5	7046.4	7390.0	7414.5	7251.5	6678.3	5903.6
15°	5377.7	5384.7	5437.3	5600.3	5896.6	6580.2	7325.1	7393.5	7563.5	7011.4	6082.4
17.5°	5369.0	5377.7	5400.5	5472.4	5665.2	6213.8	7116.5	7235.7	7798.4	7368.9	6296.2
20°	5698.5	5693.2	5677.5	5638.9	5723.0	6092.9	6923.7	7055.2	7926.3	7717.8	6511.8
22.5°	6296.2	6289.2	6219.1	6059.6	5991.2	6203.3	6829.1	6948.3	8003.5	8028.0	6688.8
25°	6985.1	7034.1	6902.7	6660.8	6492.5	6485.5	6913.2	6997.3	8070.1	8303.2	6809.8
27.5°	7740.5	7756.3	7644.1	7372.4	7128.8	6937.7	7156.8	7220.0	8143.7	8548.6	6878.1
30°	8569.6	8564.4	8436.4	8120.9	7824.7	7549.5	7567.0	7591.6	8315.5	8829.1	6953.5
32.5°	9605.6	9628.4	9400.5	8971.0	8615.2	8234.8	8103.4	8106.9	8625.7	9190.1	7067.5
35°	11013.1	10957.0	10655.5	10043.8	9437.3	9027.1	8802.8	8783.5	9104.3	9675.7	7265.5
37.5°	12354.0	12359.3	12043.8	11370.7	10604.7	9957.9	9640.6	9588.0	9777.3	10348.8	7595.1
40°	13284.8	13302.3	13170.8	12818.5	12007.0	11092.0	10625.7	10571.4	10650.3	11200.7	8026.3
42.5°	13777.3	13826.4	13863.2	13945.6	13330.4	12508.3	11791.4	11786.1	11703.7	12171.7	8525.8
45°	13796.6	13870.2	14094.6	14657.3	14727.4	14124.4	13344.4	13226.9	12909.7	13211.2	8972.8
47.5°	13034.1	13204.1	13680.9	14795.7	15531.9	15731.7	14958.7	14886.9	13996.4	14033.2	9307.6
50°	11256.7	11433.8	12312.0	14085.8	15735.3	17007.8	16730.9	16581.9	14904.4	14576.6	9468.8
52.5°	9433.8	9595.0	10191.0	12396.1	14892.1	17409.2	18224.3	18047.2	15719.5	14765.9	9402.2
55°	6564.4	6780.0	7361.9	9265.5	12950.0	16627.4	18718.6	18681.8	16446.9	14646.7	9298.8
57.5°	3218.2	3432.1	4012.3	5712.5	9593.3	14517.0	17963.1	18157.7	16881.6	14518.8	9214.7
60°	1344.4	1432.1	1631.9	2506.6	5367.2	10971.0	16257.6	16527.5	16615.2	14345.2	9205.9
62.5°	780.0	794.0	815.1	1039.4	2087.6	6289.2	13486.4	13870.2	15214.7	14115.6	9067.4
65°	589.0	594.2	585.4	638.0	862.4	2385.6	9744.0	10266.4	12699.3	13218.2	8520.6
67.5°	483.8	483.8	461.0	471.5	541.6	893.9	5379.5	6108.6	9397.0	10864.1	7035.9
70°	385.6	394.4	383.9	369.8	387.4	494.3	1914.1	2373.3	5472.4	6415.4	4103.4
72.5°	292.7	292.7	310.3	299.7	287.5	310.3	667.8	750.2	2196.3	2674.8	1481.2
75°	226.1	233.1	245.4	234.9	217.4	184.0	320.8	340.1	662.6	622.3	331.3
77.5°	115.7	117.4	156.0	171.8	161.3	112.2	140.2	154.2	215.6	192.8	122.7
80°	70.1	73.6	87.6	135.0	106.9	59.6	57.8	61.3	101.7	87.6	50.8
82.5°	29.8	31.6	49.1	49.1	43.8	22.8	22.8	22.8	49.1	45.6	21.0
85°	0.0	0.0	8.8	7.0	7.0	8.8	8.8	8.8	12.3	17.5	10.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.3	5.3
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°	5297.1	5297.1	5297.1	5297.1	5297.1	5297.1	5297.1	5297.1	5297.1	5297.1	5297.1
2.5°	5297.1	5184.9	5034.2	4897.4	4713.4	4610.0	4466.2	4348.8	4248.9	4217.3	4203.3
5°	5298.8	5106.0	4783.5	4461.0	4064.8	3752.8	3432.1	3177.9	2969.3	2902.7	2885.2
7.5°	5333.9	5049.9	4527.6	3942.1	3279.6	2732.7	2243.6	1805.4	1602.1	1533.7	1519.7
10°	5381.2	5002.6	4231.4	3319.9	2368.1	1665.2	1179.7	899.2	766.0	692.4	702.9
12.5°	5442.6	4964.0	3903.6	2646.8	1567.0	915.0	648.6	543.4	515.3	501.3	494.3
15°	5525.0	4918.5	3496.9	1979.0	960.6	589.0	499.6	471.5	461.0	454.0	452.2
17.5°	5609.1	4865.9	3083.2	1391.8	638.0	489.0	448.7	434.7	427.7	422.4	420.7
20°	5698.5	4776.5	2597.7	958.8	503.1	440.0	413.7	397.9	389.1	380.4	378.6
22.5°	5737.0	4632.8	2133.2	671.3	447.0	404.9	371.6	352.3	341.8	334.8	334.8
25°	5700.2	4399.6	1652.9	510.1	406.7	366.3	333.0	312.0	303.2	296.2	296.2
27.5°	5602.1	4099.9	1206.0	422.4	362.8	326.0	294.5	275.2	268.2	264.7	264.7
30°	5493.4	3721.3	850.1	362.8	313.8	284.0	257.7	245.4	243.6	240.1	240.1
32.5°	5400.5	3367.2	585.4	319.0	276.9	247.2	229.6	224.4	226.1	222.6	224.4
35°	5349.7	3020.1	434.7	284.0	247.2	219.1	210.3	210.3	210.3	208.6	208.6
37.5°	5370.7	2678.3	354.1	259.4	220.9	199.8	191.1	194.6	198.1	198.1	198.1
40°	5475.9	2375.1	313.8	236.6	198.1	182.3	175.3	180.5	185.8	189.3	189.3
42.5°	5609.1	2129.7	284.0	217.4	182.3	164.8	161.3	166.5	171.8	175.3	175.3
45°	5693.2	1882.6	254.2	192.8	166.5	145.5	145.5	152.5	150.7	152.5	152.5
47.5°	5731.8	1686.2	224.4	166.5	142.0	126.2	128.0	131.5	128.0	131.5	131.5
50°	5637.1	1488.2	198.1	138.5	117.4	110.4	113.9	112.2	112.2	119.2	119.2
52.5°	5463.6	1340.9	175.3	117.4	99.9	98.2	101.7	94.7	96.4	96.4	94.7
55°	5335.6	1256.8	156.0	101.7	85.9	87.6	85.9	73.6	66.6	59.6	57.8
57.5°	5272.5	1223.5	142.0	91.1	77.1	77.1	70.1	50.8	38.6	29.8	26.3
60°	5258.5	1183.2	128.0	78.9	68.4	64.9	50.8	29.8	19.3	14.0	12.3
62.5°	5125.3	1085.0	115.7	63.1	59.6	52.6	31.6	17.5	10.5	7.0	5.3
65°	4688.8	892.2	103.4	49.1	45.6	38.6	19.3	10.5	5.3	1.8	0.0
67.5°	3730.0	632.8	91.1	36.8	31.6	24.5	12.3	7.0	1.8	0.0	0.0
70°	2150.7	341.8	75.4	26.3	21.0	15.8	8.8	3.5	0.0	0.0	0.0
72.5°	718.7	159.5	57.8	17.5	15.8	12.3	5.3	1.8	0.0	0.0	0.0
75°	157.8	94.7	38.6	12.3	10.5	8.8	3.5	0.0	0.0	0.0	0.0
77.5°	59.6	66.6	19.3	8.8	7.0	5.3	1.8	0.0	0.0	0.0	0.0
80°	22.8	43.8	8.8	5.3	5.3	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	12.3	17.5	5.3	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.0	8.8	3.5	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	1.8	1.8	1.8	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)