

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: P642204

Luminaire Tested: GWS-SA6C-740-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642204
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-SA6C-740-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23811.7 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

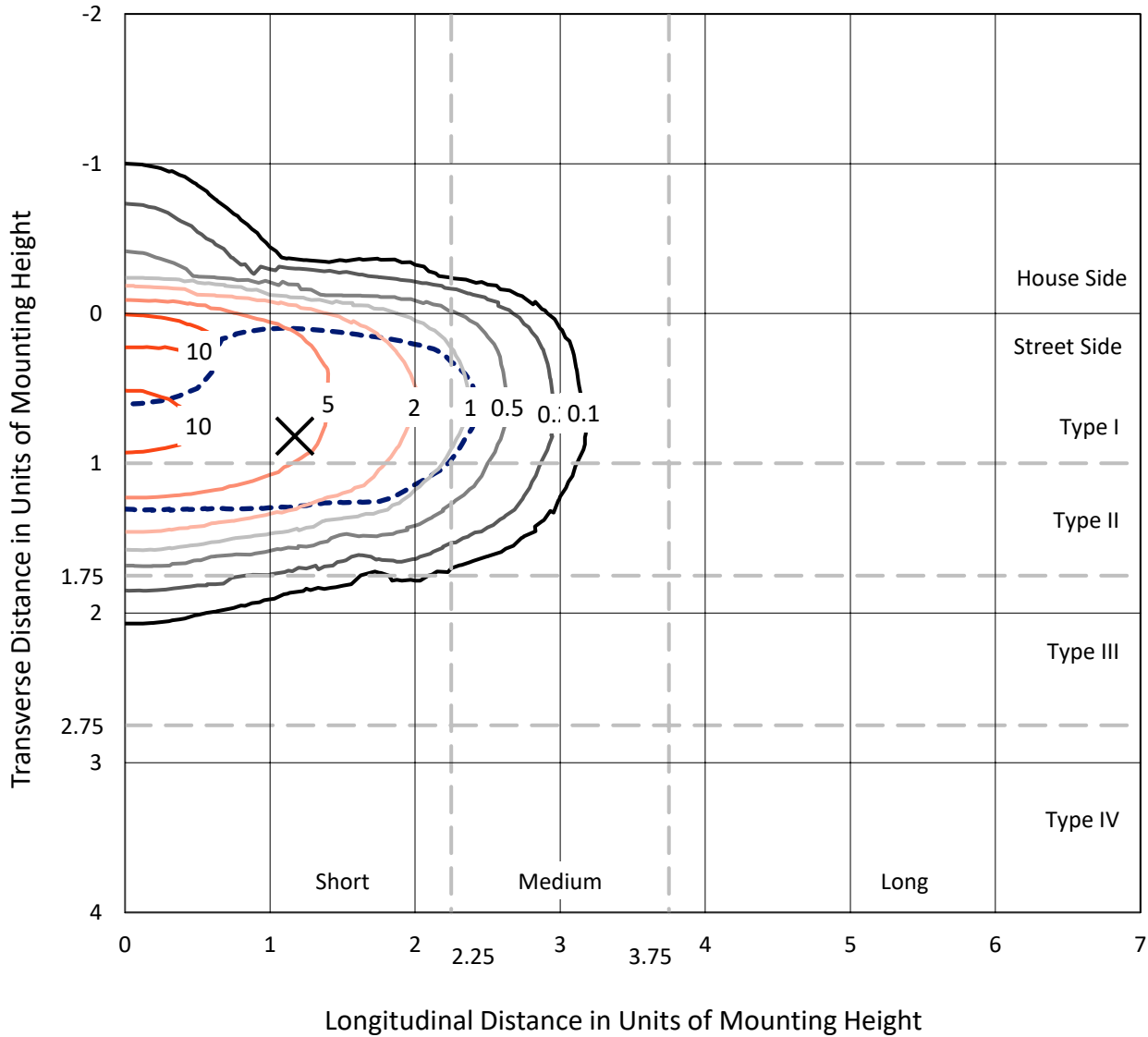
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

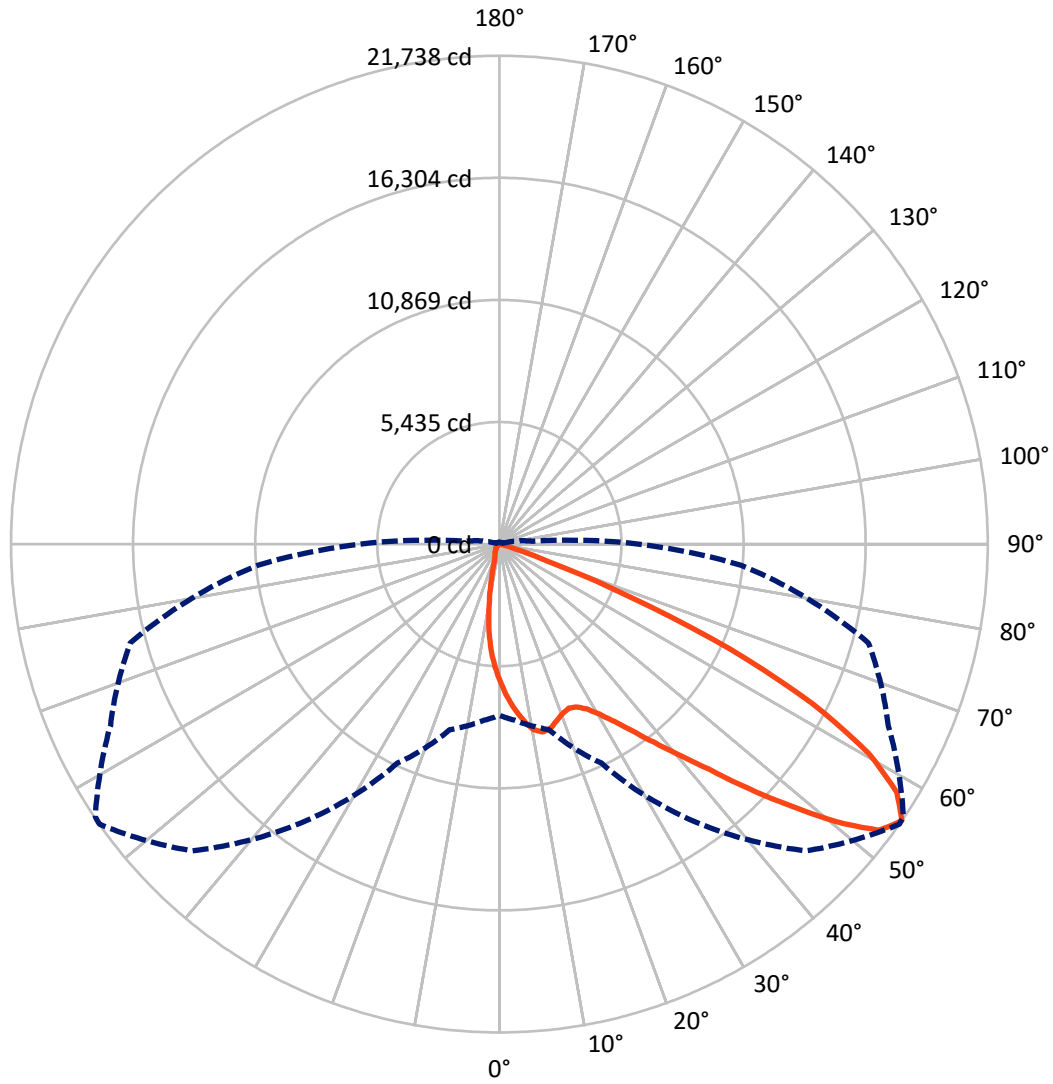
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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	1469.3	0.0	1469.3
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	22342.4	0.0	22342.4
	% Fixture	93.8	0.0	93.8
Total	Lumens	23811.7	0.0	23811.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.6	2.3
10°-20°	1310.7	5.5
20°-30°	2182.8	9.2
30°-40°	3719.6	15.6
40°-50°	6071.7	25.5
50°-60°	6356.7	26.7
60°-70°	3206.2	13.5
70°-80°	405.0	1.7
80°-90°	15.4	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°	23811.7	100.0
0°-180°	23811.7	100.0

Coefficient of Utilization



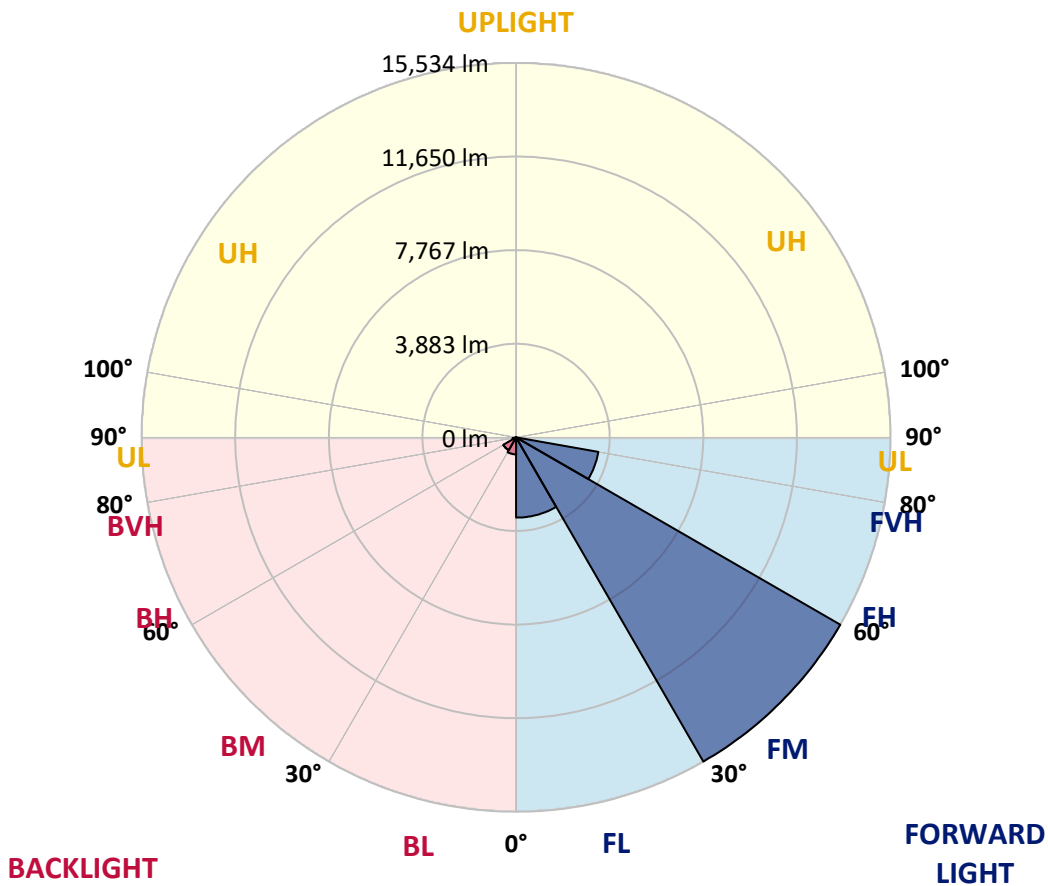
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3330.9	14.0			
FM (30°-60°)	15533.7	65.2			
FH (60°-80°)	3463.8	14.5			G2/5000
FVH (80°-90°)	14.0	0.1			G1/100
BL (0°-30°)	706.2	3.0	B2/1000		
BM (30°-60°)	614.3	2.6	B1/1000		
BH (60°-80°)	147.4	0.6	B1/500		G1/500
BVH (80°-90°)	1.4	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°	6151.5	6151.5	6151.5	6151.5	6151.5	6151.5	6151.5	6151.5	6151.5	6151.5	6151.5
2.5°	7171.4	7136.8	7189.7	7128.6	7024.8	6937.3	6823.3	6782.6	6599.4	6426.4	6259.4
5°	8042.6	8052.8	8036.5	7951.0	7804.4	7641.6	7411.6	7360.7	7041.1	6711.3	6355.1
7.5°	8258.4	8252.3	8286.9	8319.5	8295.0	8213.6	7963.2	7912.3	7515.4	7020.7	6501.7
10°	7592.7	7596.8	7668.1	7887.9	8160.7	8443.6	8404.9	8376.4	7987.6	7370.9	6664.5
12.5°	6652.3	6688.9	6764.3	7077.7	7539.8	8183.1	8582.0	8610.5	8421.2	7755.6	6855.9
15°	6245.2	6253.3	6314.4	6503.7	6847.7	7641.6	8506.7	8586.1	8783.6	8142.4	7063.5
17.5°	6235.0	6245.2	6271.6	6355.1	6579.0	7216.2	8264.5	8402.9	9056.3	8557.6	7311.8
20°	6617.7	6611.6	6593.3	6548.5	6646.2	7075.7	8040.6	8193.2	9204.9	8962.7	7562.2
22.5°	7311.8	7303.7	7222.3	7037.0	6957.6	7203.9	7930.7	8069.1	9294.5	9323.0	7767.8
25°	8111.8	8168.8	8016.1	7735.2	7539.8	7531.7	8028.4	8126.1	9371.8	9642.6	7908.3
27.5°	8989.2	9007.5	8877.2	8561.7	8278.7	8056.9	8311.3	8384.6	9457.3	9927.6	7987.6
30°	9952.0	9945.9	9797.3	9430.9	9086.9	8767.3	8787.6	8816.1	9656.8	10253.3	8075.2
32.5°	11155.0	11181.5	10916.9	10418.1	10004.9	9563.2	9410.5	9414.6	10017.1	10672.6	8207.5
35°	12789.6	12724.5	12374.3	11663.9	10959.6	10483.3	10222.7	10200.3	10572.8	11236.4	8437.5
37.5°	14346.8	14352.9	13986.5	13204.9	12315.3	11564.2	11195.7	11134.7	11354.5	12018.1	8820.2
40°	15427.7	15448.1	15295.4	14886.3	13943.8	12881.2	12339.7	12276.6	12368.2	13007.4	9321.0
42.5°	15999.7	16056.7	16099.5	16195.1	15480.7	14526.0	13693.4	13687.3	13591.6	14135.1	9901.1
45°	16022.1	16107.6	16368.2	17021.6	17103.0	16402.8	15496.9	15360.6	14992.1	15342.2	10420.2
47.5°	15136.6	15334.1	15887.8	17182.4	18037.4	18269.4	17371.7	17288.3	16254.2	16296.9	10809.0
50°	13072.5	13278.1	14298.0	16358.0	18273.5	19751.3	19429.7	19256.7	17308.6	16928.0	10996.2
52.5°	10955.5	11142.8	11834.9	14395.7	17294.4	20217.5	21164.0	20958.4	18255.2	17147.8	10918.9
55°	7623.3	7873.7	8549.5	10760.1	15038.9	19309.6	21738.1	21695.3	19099.9	17009.4	10798.8
57.5°	3737.3	3985.7	4659.5	6634.0	11140.8	16858.7	20860.7	21086.7	19604.8	16860.8	10701.1
60°	1561.3	1663.1	1895.1	2910.9	6233.0	12740.7	18880.1	19193.6	19295.3	16659.3	10690.9
62.5°	905.8	922.1	946.5	1207.1	2424.4	7303.7	15661.8	16107.6	17668.9	16392.6	10530.1
65°	684.0	690.1	679.9	741.0	1001.5	2770.4	11315.8	11922.4	14747.8	15350.4	9895.0
67.5°	561.8	561.8	535.4	547.6	629.0	1038.2	6247.2	7094.0	10912.8	12616.6	8170.9
70°	447.8	458.0	445.8	429.5	449.9	574.0	2222.9	2756.2	6355.1	7450.3	4765.3
72.5°	339.9	339.9	360.3	348.1	333.8	360.3	775.6	871.2	2550.6	3106.3	1720.1
75°	262.6	270.7	285.0	272.8	252.4	213.7	372.5	394.9	769.5	722.6	384.7
77.5°	134.3	136.4	181.2	199.5	187.3	130.3	162.8	179.1	250.4	223.9	142.5
80°	81.4	85.5	101.8	156.7	124.2	69.2	67.2	71.2	118.1	101.8	59.0
82.5°	34.6	36.6	57.0	57.0	50.9	26.5	26.5	26.5	57.0	52.9	24.4
85°	0.0	0.0	10.2	8.1	8.1	10.2	10.2	10.2	14.2	20.4	12.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	6.1	6.1
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°	6151.5	6151.5	6151.5	6151.5	6151.5	6151.5	6151.5	6151.5	6151.5	6151.5	6151.5
2.5°	6151.5	6021.3	5846.2	5687.4	5473.7	5353.6	5186.7	5050.3	4934.3	4897.6	4881.3
5°	6153.6	5929.7	5555.1	5180.6	4720.5	4358.2	3985.7	3690.5	3448.3	3370.9	3350.6
7.5°	6194.3	5864.5	5257.9	4578.0	3808.6	3173.5	2605.6	2096.7	1860.5	1781.1	1764.9
10°	6249.3	5809.6	4913.9	3855.4	2750.1	1933.8	1370.0	1044.3	889.6	804.1	816.3
12.5°	6320.5	5764.8	4533.3	3073.7	1819.8	1062.6	753.2	631.0	598.5	582.2	574.0
15°	6416.2	5711.9	4061.0	2298.2	1115.5	684.0	580.1	547.6	535.4	527.2	525.2
17.5°	6513.9	5650.8	3580.6	1616.3	741.0	567.9	521.1	504.8	496.7	490.6	488.5
20°	6617.7	5547.0	3016.7	1113.5	584.2	510.9	480.4	462.1	451.9	441.7	439.7
22.5°	6662.5	5380.1	2477.3	779.6	519.1	470.2	431.5	409.2	396.9	388.8	388.8
25°	6619.7	5109.3	1919.6	592.4	472.3	425.4	386.8	362.3	352.2	344.0	344.0
27.5°	6505.7	4761.2	1400.5	490.6	421.4	378.6	342.0	319.6	311.4	307.4	307.4
30°	6379.5	4321.6	987.3	421.4	364.4	329.8	299.2	285.0	282.9	278.9	278.9
32.5°	6271.6	3910.4	679.9	370.5	321.6	287.0	266.7	260.6	262.6	258.5	260.6
35°	6212.6	3507.3	504.8	329.8	287.0	254.4	244.3	244.3	244.3	242.2	242.2
37.5°	6237.0	3110.4	411.2	301.3	256.5	232.1	221.9	226.0	230.0	230.0	230.0
40°	6359.2	2758.2	364.4	274.8	230.0	211.7	203.6	209.7	215.8	219.8	219.8
42.5°	6513.9	2473.2	329.8	252.4	211.7	191.3	187.3	193.4	199.5	203.6	203.6
45°	6611.6	2186.2	295.2	223.9	193.4	169.0	169.0	177.1	175.1	177.1	177.1
47.5°	6656.4	1958.2	260.6	193.4	164.9	146.6	148.6	152.7	148.6	152.7	152.7
50°	6546.5	1728.2	230.0	160.8	136.4	128.2	132.3	130.3	130.3	138.4	138.4
52.5°	6344.9	1557.2	203.6	136.4	116.0	114.0	118.1	109.9	112.0	112.0	109.9
55°	6196.3	1459.5	181.2	118.1	99.7	101.8	99.7	85.5	77.4	69.2	67.2
57.5°	6123.1	1420.8	164.9	105.9	89.6	89.6	81.4	59.0	44.8	34.6	30.5
60°	6106.8	1374.0	148.6	91.6	79.4	75.3	59.0	34.6	22.4	16.3	14.2
62.5°	5952.1	1260.0	134.3	73.3	69.2	61.1	36.6	20.4	12.2	8.1	6.1
65°	5445.2	1036.1	120.1	57.0	52.9	44.8	22.4	12.2	6.1	2.0	0.0
67.5°	4331.7	734.8	105.9	42.7	36.6	28.5	14.2	8.1	2.0	0.0	0.0
70°	2497.7	396.9	87.5	30.5	24.4	18.3	10.2	4.1	0.0	0.0	0.0
72.5°	834.6	185.2	67.2	20.4	18.3	14.2	6.1	2.0	0.0	0.0	0.0
75°	183.2	109.9	44.8	14.2	12.2	10.2	4.1	0.0	0.0	0.0	0.0
77.5°	69.2	77.4	22.4	10.2	8.1	6.1	2.0	0.0	0.0	0.0	0.0
80°	26.5	50.9	10.2	6.1	6.1	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.2	20.4	6.1	4.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.1	10.2	4.1	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	2.0	2.0	2.0	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)