

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: P637208

Luminaire Tested: GWS-SA4C-735-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637208
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-735-U-SL3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11198.2 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

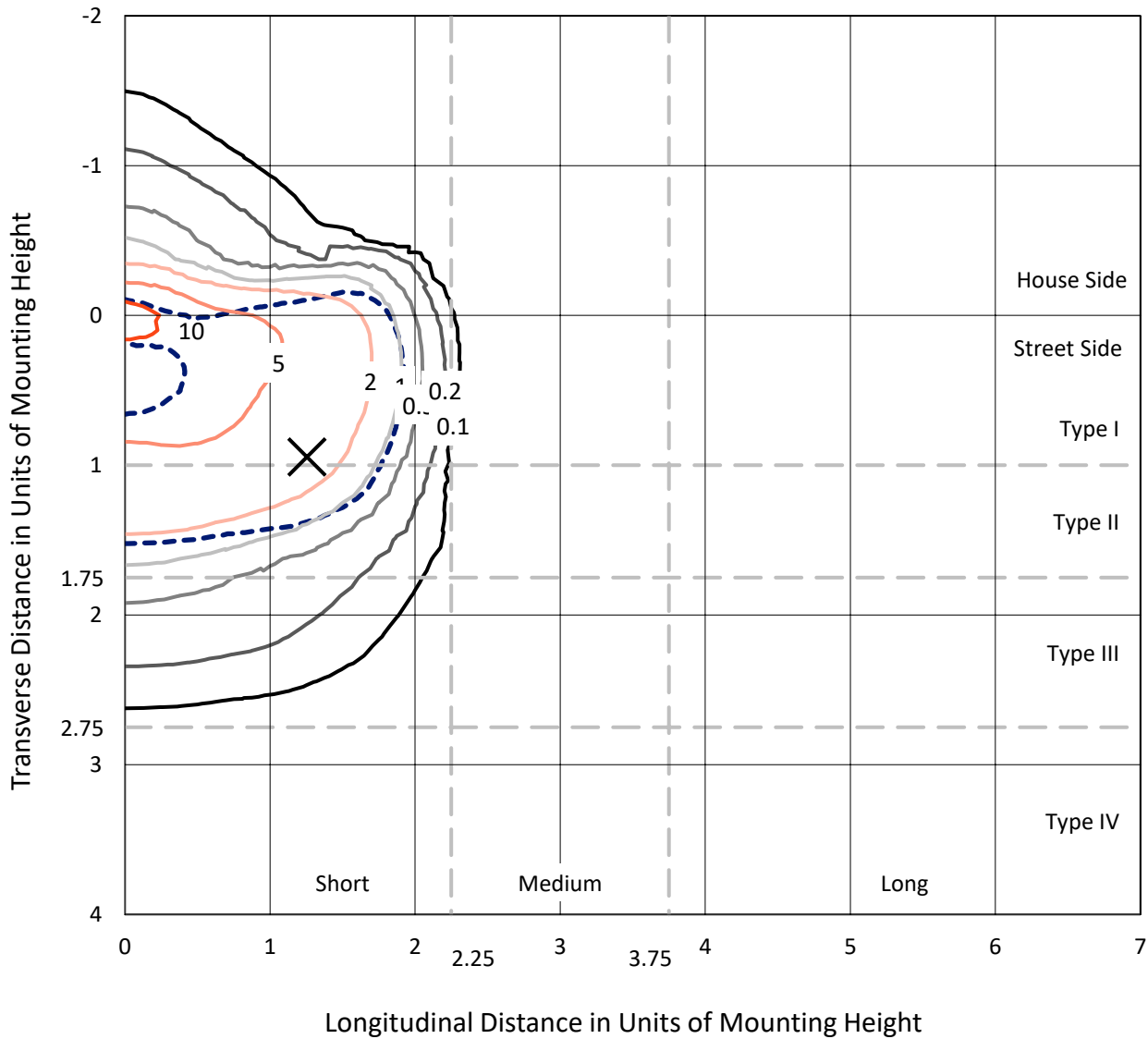
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

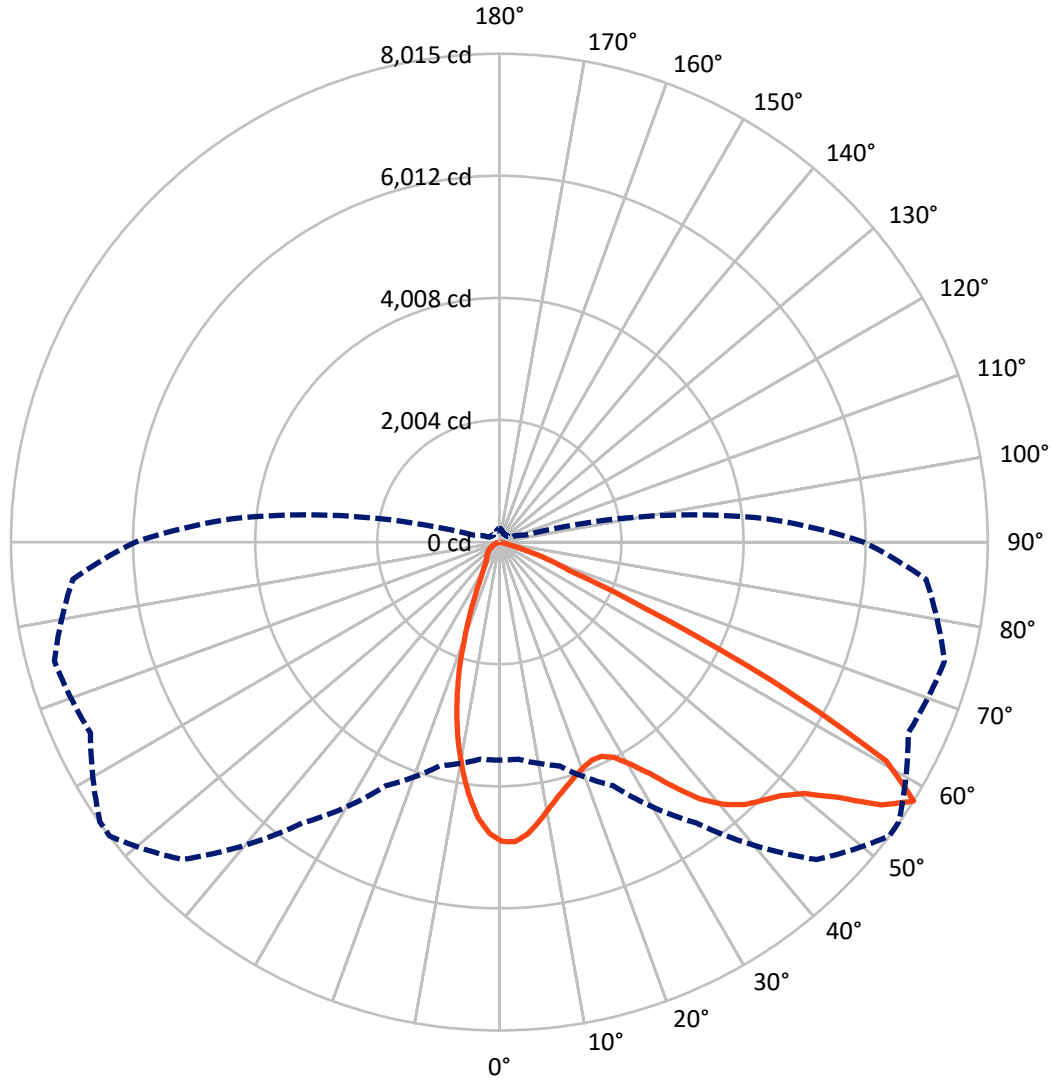
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - N/A

REPORT NUMBER: P637208
CATALOG NUMBER: GWS-SA4C-735-U-SL3-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1849.8	0.0	1849.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	9348.4	0.0	9348.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	11198.2	0.0	11198.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.3	3.8
10°-20°	922.7	8.2
20°-30°	1202.0	10.7
30°-40°	1743.5	15.6
40°-50°	2515.7	22.5
50°-60°	3042.6	27.2
60°-70°	1240.0	11.1
70°-80°	111.4	1.0
80°-90°	0.0	0.0
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°	11198.2	100.0
0°-180°	11198.2	100.0

Coefficient of Utilization



REPORT NUMBER: P637208

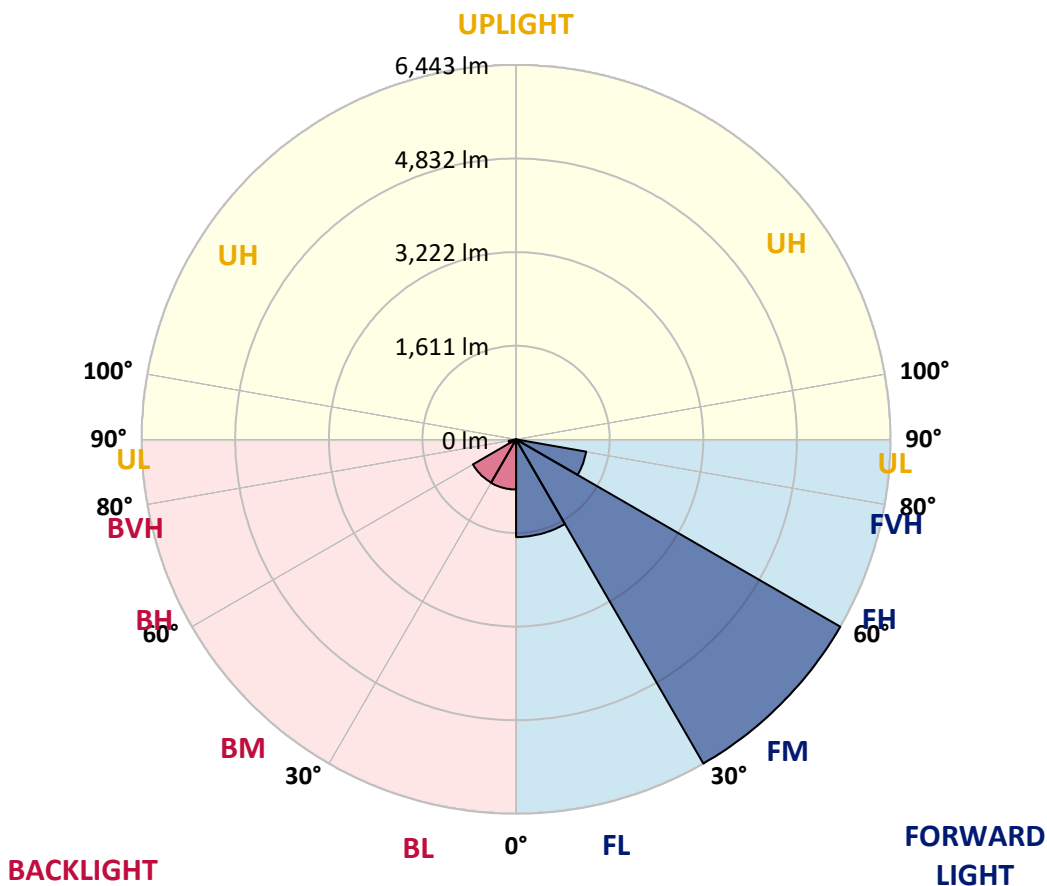
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1681.6	15.0			
FM (30°-60°)	6443.2	57.5			
FH (60°-80°)	1223.6	10.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	863.3	7.7	B2/1000		
BM (30°-60°)	858.6	7.7	B1/1000		
BH (60°-80°)	127.9	1.1	B1/500		G1/500
BVH (80°-90°)	0.0	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-G1

Type II Short





REPORT NUMBER: P637208

CATALOG NUMBER: GWS-SA4C-735-U-SL3-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4912.2	4912.2	4912.2	4912.2	4912.2	4912.2	4912.2	4912.2	4912.2	4912.2	4912.2
2.5°	4843.5	4854.5	4873.7	4898.4	4914.9	4923.1	4923.1	4946.5	4931.4	4919.0	4905.3
5°	4636.3	4647.3	4673.4	4713.2	4753.0	4781.8	4814.7	4839.4	4849.0	4849.0	4825.7
7.5°	4344.0	4359.1	4375.5	4430.4	4516.9	4581.4	4637.7	4673.4	4725.5	4742.0	4709.0
10°	4029.7	4044.8	4081.8	4157.3	4256.1	4352.2	4448.3	4493.6	4582.8	4629.4	4592.4
12.5°	3763.4	3770.3	3819.7	3910.2	4036.5	4168.3	4284.9	4331.6	4457.9	4527.9	4483.9
15°	3543.8	3547.9	3597.3	3697.5	3843.0	4004.9	4151.8	4199.8	4354.9	4460.6	4394.7
17.5°	3377.7	3379.1	3421.6	3530.1	3682.4	3862.2	4036.5	4095.5	4295.9	4423.6	4324.7
20°	3294.0	3289.9	3320.1	3414.8	3558.9	3738.7	3944.6	4017.3	4263.0	4418.1	4271.2
22.5°	3295.4	3285.8	3298.1	3365.4	3487.5	3656.3	3886.9	3969.3	4265.7	4441.4	4225.9
25°	3373.6	3359.9	3362.6	3398.3	3484.8	3638.5	3895.1	3983.0	4320.6	4519.6	4209.5
27.5°	3505.4	3490.3	3490.3	3508.1	3554.8	3694.8	3998.1	4098.3	4467.5	4672.0	4243.8
30°	3675.5	3660.5	3655.0	3672.8	3711.2	3840.2	4227.3	4331.6	4718.6	4921.8	4353.6
32.5°	3870.4	3852.6	3862.2	3886.9	3924.0	4102.4	4522.4	4661.0	5032.9	5258.0	4551.2
35°	4076.3	4061.2	4105.1	4158.7	4216.3	4466.1	4930.0	5050.8	5418.6	5676.7	4853.2
37.5°	4272.6	4265.7	4357.7	4470.2	4589.6	4902.6	5344.5	5437.8	5749.4	6132.3	5222.4
40°	4468.9	4467.5	4625.3	4823.0	5013.7	5337.6	5658.8	5735.7	5951.1	6486.4	5576.5
42.5°	4688.5	4688.5	4906.7	5170.2	5424.1	5705.5	5889.4	5923.7	6041.7	6690.9	5842.7
45°	4898.4	4910.8	5163.3	5469.4	5770.0	5992.3	6048.6	6051.3	6078.8	6811.7	6063.7
47.5°	5064.5	5075.5	5377.4	5730.2	6054.1	6210.6	6218.8	6206.4	6176.2	6927.0	6233.9
50°	5199.0	5215.5	5531.2	5904.5	6249.0	6420.5	6483.7	6471.3	6394.5	7050.5	6353.3
52.5°	5264.9	5288.2	5584.7	5991.0	6465.8	6780.1	6955.8	6984.6	6721.1	7119.1	6467.2
55°	4737.9	4772.2	5045.3	5601.2	6586.6	7336.0	7611.9	7606.4	7075.2	7323.6	6744.5
57.5°	3578.1	3575.4	3801.8	4409.8	5625.9	7367.6	8015.4	8004.4	7406.0	7561.1	7028.6
60°	2436.2	2419.7	2480.1	2773.8	3933.6	6001.9	7294.8	7443.1	7171.3	6984.6	5967.6
62.5°	2005.2	1990.1	1970.9	1889.9	2259.1	3738.7	5039.8	5264.9	5229.2	4854.5	3742.8
65°	1641.5	1653.9	1707.4	1673.1	1571.5	1917.4	2616.0	2749.1	2513.0	2115.0	1308.0
67.5°	1210.5	1216.0	1286.0	1467.2	1412.3	1276.4	1231.1	1253.1	734.3	337.6	218.2
70°	715.1	719.2	783.7	1026.6	1146.0	980.0	831.7	819.4	291.0	90.6	98.8
72.5°	404.9	396.7	409.0	488.6	624.5	520.2	428.2	389.8	87.8	50.8	50.8
75°	192.1	186.7	160.6	151.0	137.2	87.8	54.9	46.7	22.0	20.6	20.6
77.5°	1.4	4.1	2.7	4.1	4.1	2.7	1.4	1.4	4.1	4.1	5.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P637208

CATALOG NUMBER: GWS-SA4C-735-U-SL3-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4912.2	4912.2	4912.2	4912.2	4912.2	4912.2	4912.2	4912.2	4912.2	4912.2	4912.2
2.5°	4880.6	4839.4	4829.8	4827.1	4788.6	4747.5	4704.9	4688.5	4663.7	4648.6	4661.0
5°	4788.6	4729.6	4677.5	4629.4	4544.3	4451.0	4370.0	4317.9	4268.5	4235.5	4243.8
7.5°	4658.3	4581.4	4462.0	4339.8	4183.4	4043.4	3886.9	3790.8	3701.6	3652.2	3675.5
10°	4519.6	4418.1	4227.3	4020.0	3774.4	3554.8	3331.1	3148.5	3042.8	2942.6	2953.6
12.5°	4383.8	4249.3	3963.8	3649.5	3339.3	3015.4	2677.7	2425.2	2252.3	2127.4	2108.2
15°	4257.5	4084.6	3707.1	3292.6	2869.9	2438.9	2008.0	1647.0	1446.6	1323.1	1314.9
17.5°	4144.9	3930.8	3440.9	2919.3	2389.5	1837.8	1342.3	1071.9	956.6	903.1	897.6
20°	4036.5	3775.7	3169.1	2540.5	1865.2	1290.1	926.4	801.5	764.5	742.5	745.3
22.5°	3932.2	3606.9	2883.6	2120.5	1398.6	905.8	717.8	669.8	665.7	668.4	669.8
25°	3844.4	3451.8	2589.9	1715.6	997.8	690.4	599.8	586.1	598.4	616.3	619.0
27.5°	3799.1	3325.6	2303.1	1308.0	721.9	561.4	520.2	525.7	547.6	566.8	569.6
30°	3811.4	3230.9	2006.6	948.4	555.9	473.5	459.8	470.8	492.7	510.6	513.3
32.5°	3899.3	3182.8	1703.3	690.4	457.0	413.1	407.6	415.9	435.1	448.8	450.2
35°	4073.6	3193.8	1415.0	528.4	392.5	367.8	366.5	371.9	381.6	391.2	392.5
37.5°	4330.2	3283.0	1130.9	439.2	355.5	337.6	332.1	332.1	339.0	343.1	345.9
40°	4606.1	3417.5	905.8	388.4	329.4	310.2	299.2	295.1	300.6	306.1	307.4
42.5°	4833.9	3552.0	735.7	352.7	308.8	282.7	269.0	266.3	273.1	282.7	285.5
45°	5008.2	3656.3	613.5	323.9	285.5	256.7	241.6	241.6	253.9	270.4	273.1
47.5°	5167.5	3740.1	522.9	297.8	263.5	233.3	218.2	221.0	241.6	263.5	267.6
50°	5275.9	3807.3	455.7	274.5	245.7	214.1	200.4	205.9	230.6	256.7	260.8
52.5°	5392.5	3889.7	411.7	253.9	229.2	199.0	186.7	190.8	218.2	247.0	252.5
55°	5715.1	4165.5	410.4	226.5	200.4	178.4	172.9	174.3	201.8	234.7	241.6
57.5°	5978.6	4408.5	437.8	190.8	167.4	156.5	153.7	155.1	179.8	216.9	225.1
60°	4946.5	3425.8	362.3	157.8	140.0	137.2	133.1	135.9	159.2	192.1	199.0
62.5°	2927.5	1958.6	172.9	120.8	119.4	116.7	112.5	118.0	140.0	168.8	172.9
65°	1000.6	580.6	109.8	98.8	101.6	97.4	93.3	98.8	118.0	134.5	135.9
67.5°	192.1	153.7	87.8	82.3	83.7	75.5	74.1	79.6	90.6	93.3	92.0
70°	100.2	89.2	67.3	67.3	64.5	53.5	53.5	59.0	59.0	54.9	53.5
72.5°	52.2	49.4	43.9	49.4	41.2	32.9	32.9	35.7	32.9	27.4	27.4
75°	20.6	20.6	19.2	24.7	17.8	15.1	13.7	16.5	12.4	9.6	9.6
77.5°	5.5	5.5	5.5	6.9	4.1	4.1	2.7	2.7	1.4	0.0	0.0
80°	0.0	1.4	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)