

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: P639958

Luminaire Tested: GWS-SA5C-830-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639958
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-SA5C-830-U-SL3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11064.1 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

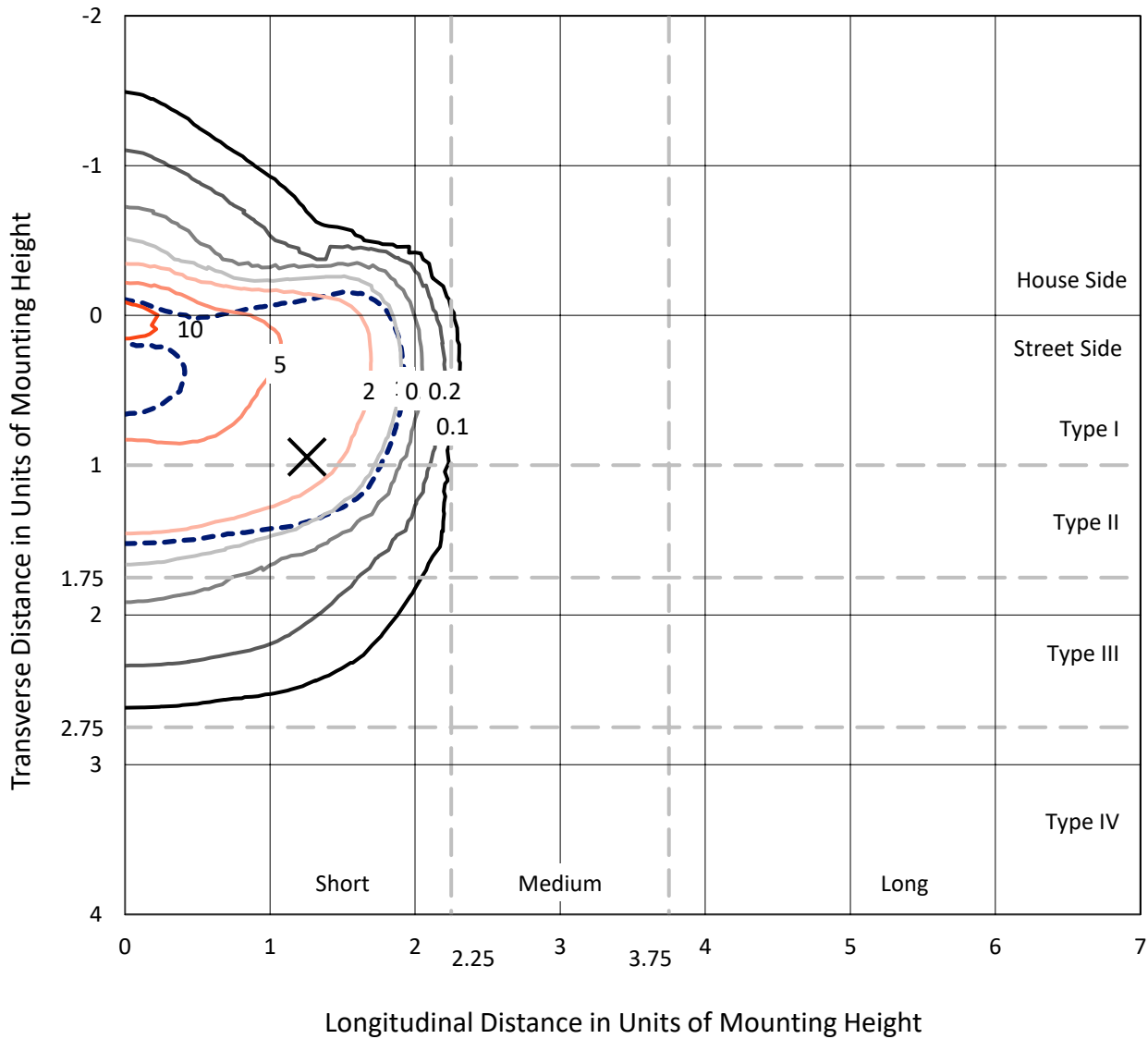
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

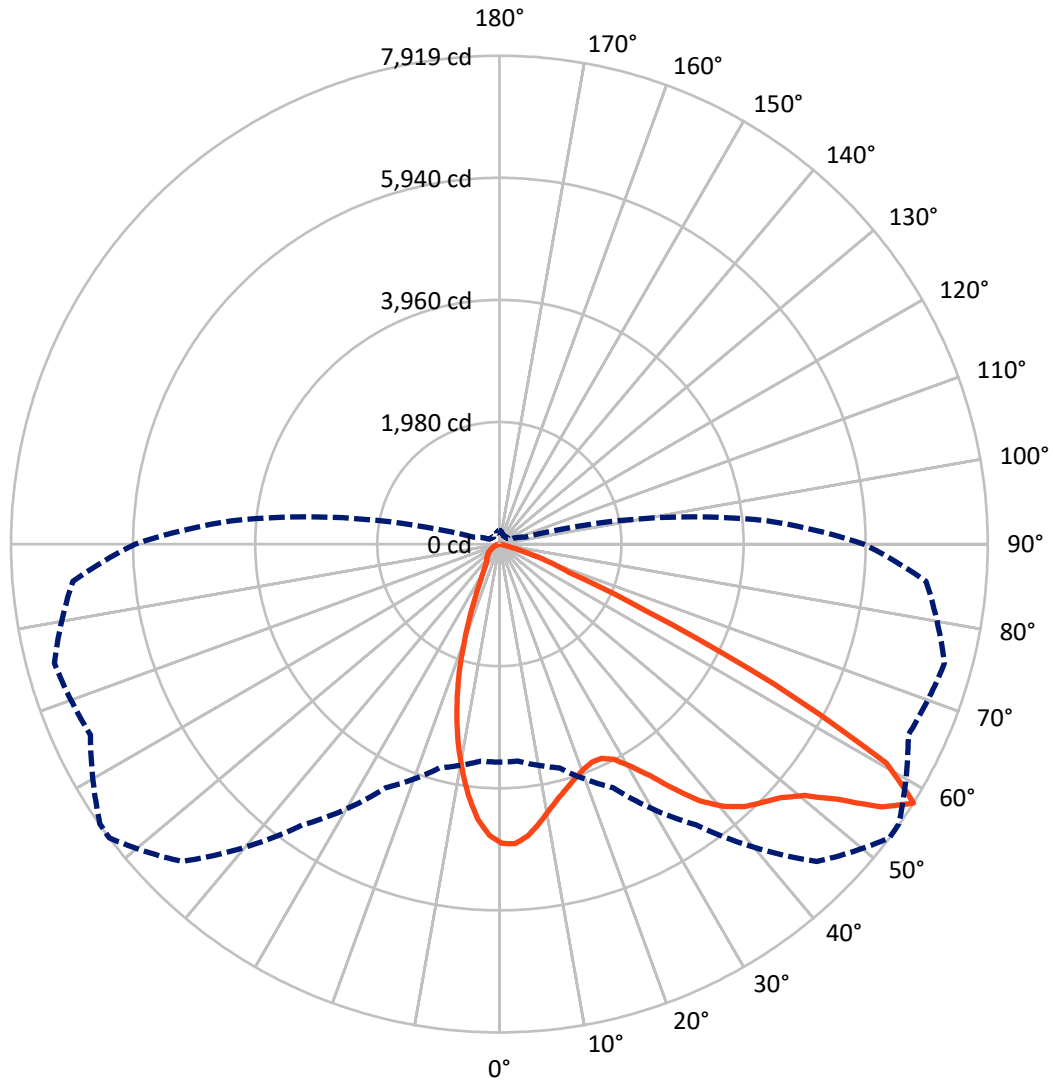
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - N/A

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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	1827.6	0.0	1827.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	9236.5	0.0	9236.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	11064.1	0.0	11064.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.2	3.8
10°-20°	911.6	8.2
20°-30°	1187.6	10.7
30°-40°	1722.6	15.6
40°-50°	2485.6	22.5
50°-60°	3006.1	27.2
60°-70°	1225.2	11.1
70°-80°	110.1	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°	11064.1	100.0
0°-180°	11064.1	100.0

Coefficient of Utilization



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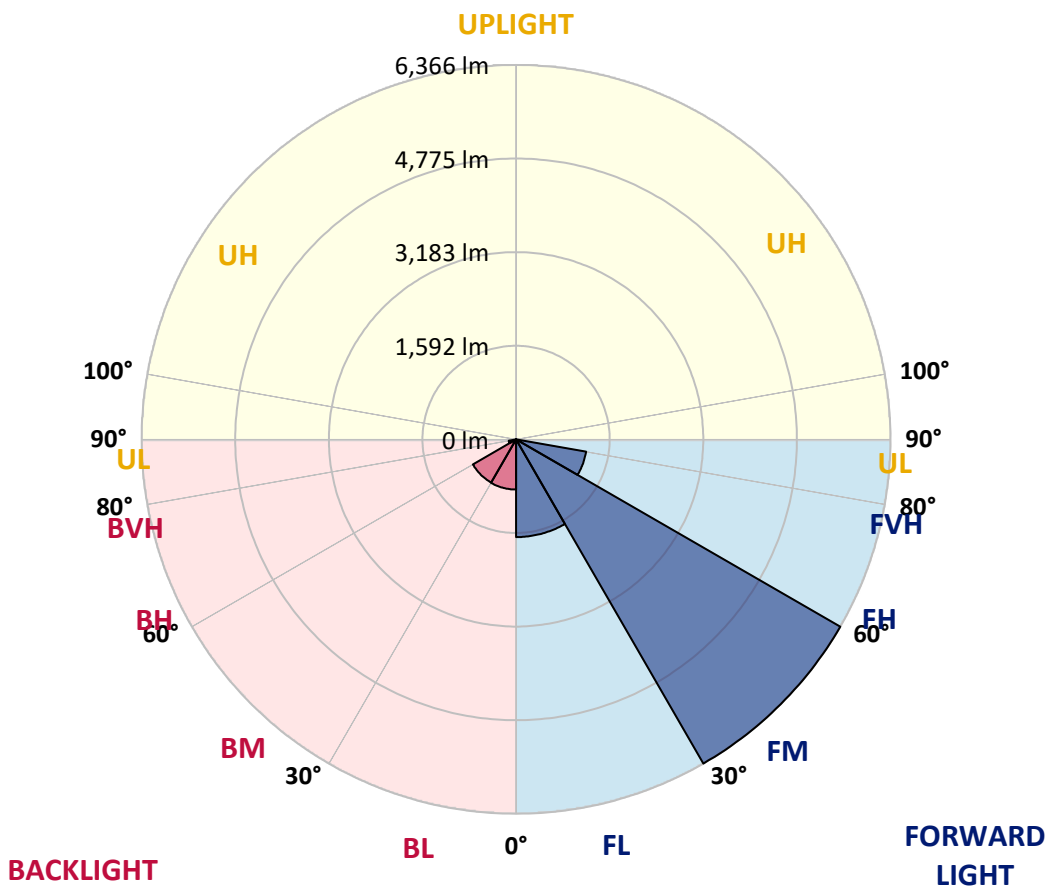
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1661.5	15.0			
FM (30°-60°)	6366.1	57.5			
FH (60°-80°)	1208.9	10.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	853.0	7.7	B2/1000		
BM (30°-60°)	848.3	7.7	B1/1000		
BH (60°-80°)	126.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4853.3	4853.3	4853.3	4853.3	4853.3	4853.3	4853.3	4853.3	4853.3	4853.3	4853.3
2.5°	4785.5	4796.4	4815.4	4839.8	4856.1	4864.2	4864.2	4887.2	4872.3	4860.1	4846.6
5°	4580.8	4591.6	4617.4	4656.7	4696.0	4724.5	4757.1	4781.5	4791.0	4791.0	4767.9
7.5°	4291.9	4306.9	4323.1	4377.4	4462.8	4526.5	4582.1	4617.4	4668.9	4685.2	4652.6
10°	3981.4	3996.3	4032.9	4107.5	4205.1	4300.1	4395.0	4439.7	4527.9	4574.0	4537.4
12.5°	3718.3	3725.1	3773.9	3863.4	3988.2	4118.4	4233.6	4279.7	4404.5	4473.6	4430.3
15°	3501.4	3505.4	3554.2	3653.2	3797.0	3957.0	4102.1	4149.5	4302.8	4407.2	4342.1
17.5°	3337.3	3338.6	3380.7	3487.8	3638.3	3816.0	3988.2	4046.5	4244.5	4370.6	4273.0
20°	3254.5	3250.5	3280.3	3373.9	3516.3	3693.9	3897.3	3969.2	4211.9	4365.2	4220.1
22.5°	3255.9	3246.4	3258.6	3325.1	3445.8	3612.5	3840.4	3921.7	4214.6	4388.2	4175.3
25°	3333.2	3319.6	3322.4	3357.6	3443.0	3594.9	3848.5	3935.3	4268.9	4465.5	4159.0
27.5°	3463.4	3448.5	3448.5	3466.1	3512.2	3650.5	3950.2	4049.2	4414.0	4616.0	4192.9
30°	3631.5	3616.6	3611.2	3628.8	3666.8	3794.3	4176.7	4279.7	4662.1	4862.8	4301.4
32.5°	3824.1	3806.5	3816.0	3840.4	3877.0	4053.3	4468.2	4605.2	4972.7	5195.1	4496.7
35°	4027.5	4012.6	4056.0	4108.9	4165.8	4412.6	4871.0	4990.3	5353.7	5608.7	4795.0
37.5°	4221.4	4214.6	4305.5	4416.7	4534.7	4843.9	5280.5	5372.7	5680.5	6058.9	5159.8
40°	4415.3	4414.0	4569.9	4765.2	4953.7	5273.7	5591.0	5667.0	5879.9	6408.7	5509.7
42.5°	4632.3	4632.3	4847.9	5108.3	5359.2	5637.1	5818.9	5852.8	5969.4	6610.8	5772.8
45°	4839.8	4852.0	5101.5	5403.9	5700.9	5920.6	5976.2	5978.9	6006.0	6730.1	5991.1
47.5°	5003.9	5014.7	5313.0	5661.6	5981.6	6136.2	6144.3	6132.1	6102.3	6844.0	6159.2
50°	5136.8	5153.0	5464.9	5833.8	6174.1	6343.7	6406.0	6393.8	6317.9	6966.1	6277.2
52.5°	5201.9	5224.9	5517.8	5919.2	6388.4	6698.9	6872.5	6901.0	6640.6	7033.9	6389.8
55°	4681.1	4715.0	4984.9	5534.1	6507.7	7248.2	7520.7	7515.3	6990.5	7235.9	6663.7
57.5°	3535.3	3532.5	3756.3	4357.0	5558.5	7279.3	7919.4	7908.6	7317.3	7470.5	6944.4
60°	2407.0	2390.7	2450.4	2740.6	3886.5	5930.1	7207.5	7353.9	7085.4	6901.0	5896.2
62.5°	1981.2	1966.3	1947.3	1867.3	2232.1	3693.9	4979.5	5201.9	5166.6	4796.4	3698.0
65°	1621.8	1634.1	1686.9	1653.0	1552.7	1894.4	2584.7	2716.2	2482.9	2089.7	1292.3
67.5°	1196.0	1201.5	1270.6	1449.6	1395.4	1261.1	1216.4	1238.1	725.5	333.6	215.6
70°	706.5	710.6	774.3	1014.3	1132.3	968.2	821.8	809.6	287.5	89.5	97.6
72.5°	400.0	391.9	404.1	482.8	617.0	513.9	423.1	385.1	86.8	50.2	50.2
75°	189.8	184.4	158.7	149.2	135.6	86.8	54.2	46.1	21.7	20.3	20.3
77.5°	1.4	4.1	2.7	4.1	4.1	2.7	1.4	1.4	4.1	4.1	5.4
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4853.3	4853.3	4853.3	4853.3	4853.3	4853.3	4853.3	4853.3	4853.3	4853.3	4853.3
2.5°	4822.2	4781.5	4772.0	4769.3	4731.3	4690.6	4648.6	4632.3	4607.9	4593.0	4605.2
5°	4731.3	4673.0	4621.5	4574.0	4489.9	4397.7	4317.7	4266.2	4217.4	4184.8	4192.9
7.5°	4602.5	4526.5	4408.6	4287.9	4133.3	3995.0	3840.4	3745.4	3657.3	3608.5	3631.5
10°	4465.5	4365.2	4176.7	3971.9	3729.2	3512.2	3291.2	3110.8	3006.4	2907.4	2918.2
12.5°	4331.3	4198.4	3916.3	3605.8	3299.3	2979.3	2645.7	2396.2	2225.3	2101.9	2082.9
15°	4206.5	4035.6	3662.7	3253.2	2835.5	2409.7	1983.9	1627.3	1429.3	1307.2	1299.1
17.5°	4095.3	3883.8	3399.6	2884.3	2360.9	1815.8	1326.2	1059.1	945.2	892.3	886.9
20°	3988.2	3730.5	3131.1	2510.1	1842.9	1274.7	915.3	791.9	755.3	733.6	736.3
22.5°	3885.1	3563.7	2849.1	2095.1	1381.8	895.0	709.2	661.8	657.7	660.4	661.8
25°	3798.3	3410.5	2558.9	1695.1	985.9	682.1	592.6	579.0	591.2	608.9	611.6
27.5°	3753.6	3285.7	2275.5	1292.3	713.3	554.6	513.9	519.4	541.1	560.1	562.8
30°	3765.8	3192.2	1982.6	937.0	549.2	467.8	454.3	465.1	486.8	504.5	507.2
32.5°	3852.6	3144.7	1682.9	682.1	451.6	408.2	402.8	410.9	429.9	443.4	444.8
35°	4024.8	3155.6	1398.1	522.1	387.8	363.4	362.1	367.5	377.0	386.5	387.8
37.5°	4278.4	3243.7	1117.4	433.9	351.2	333.6	328.2	328.2	334.9	339.0	341.7
40°	4550.9	3376.6	895.0	383.8	325.5	306.5	295.6	291.6	297.0	302.4	303.8
42.5°	4776.0	3509.5	726.8	348.5	305.1	279.3	265.8	263.1	269.9	279.3	282.1
45°	4948.3	3612.5	606.2	320.0	282.1	253.6	238.7	238.7	250.9	267.1	269.9
47.5°	5105.6	3695.3	516.7	294.3	260.4	230.5	215.6	218.3	238.7	260.4	264.4
50°	5212.7	3761.7	450.2	271.2	242.7	211.5	198.0	203.4	227.8	253.6	257.7
52.5°	5328.0	3843.1	406.8	250.9	226.5	196.6	184.4	188.5	215.6	244.1	249.5
55°	5646.6	4115.6	405.5	223.8	198.0	176.3	170.9	172.2	199.3	231.9	238.7
57.5°	5907.0	4355.7	432.6	188.5	165.4	154.6	151.9	153.2	177.6	214.3	222.4
60°	4887.2	3384.7	358.0	155.9	138.3	135.6	131.5	134.3	157.3	189.8	196.6
62.5°	2892.5	1935.1	170.9	119.3	118.0	115.3	111.2	116.6	138.3	166.8	170.9
65°	988.6	573.6	108.5	97.6	100.3	96.3	92.2	97.6	116.6	132.9	134.3
67.5°	189.8	151.9	86.8	81.4	82.7	74.6	73.2	78.7	89.5	92.2	90.9
70°	99.0	88.1	66.4	66.4	63.7	52.9	52.9	58.3	58.3	54.2	52.9
72.5°	51.5	48.8	43.4	48.8	40.7	32.5	32.5	35.3	32.5	27.1	27.1
75°	20.3	20.3	19.0	24.4	17.6	14.9	13.6	16.3	12.2	9.5	9.5
77.5°	5.4	5.4	5.4	6.8	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)