

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: P637538

Luminaire Tested: GWS-SA4D-722-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637538
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-SA4D-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10550.6 lumens
Efficiency: N/A
Efficacy: 65.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

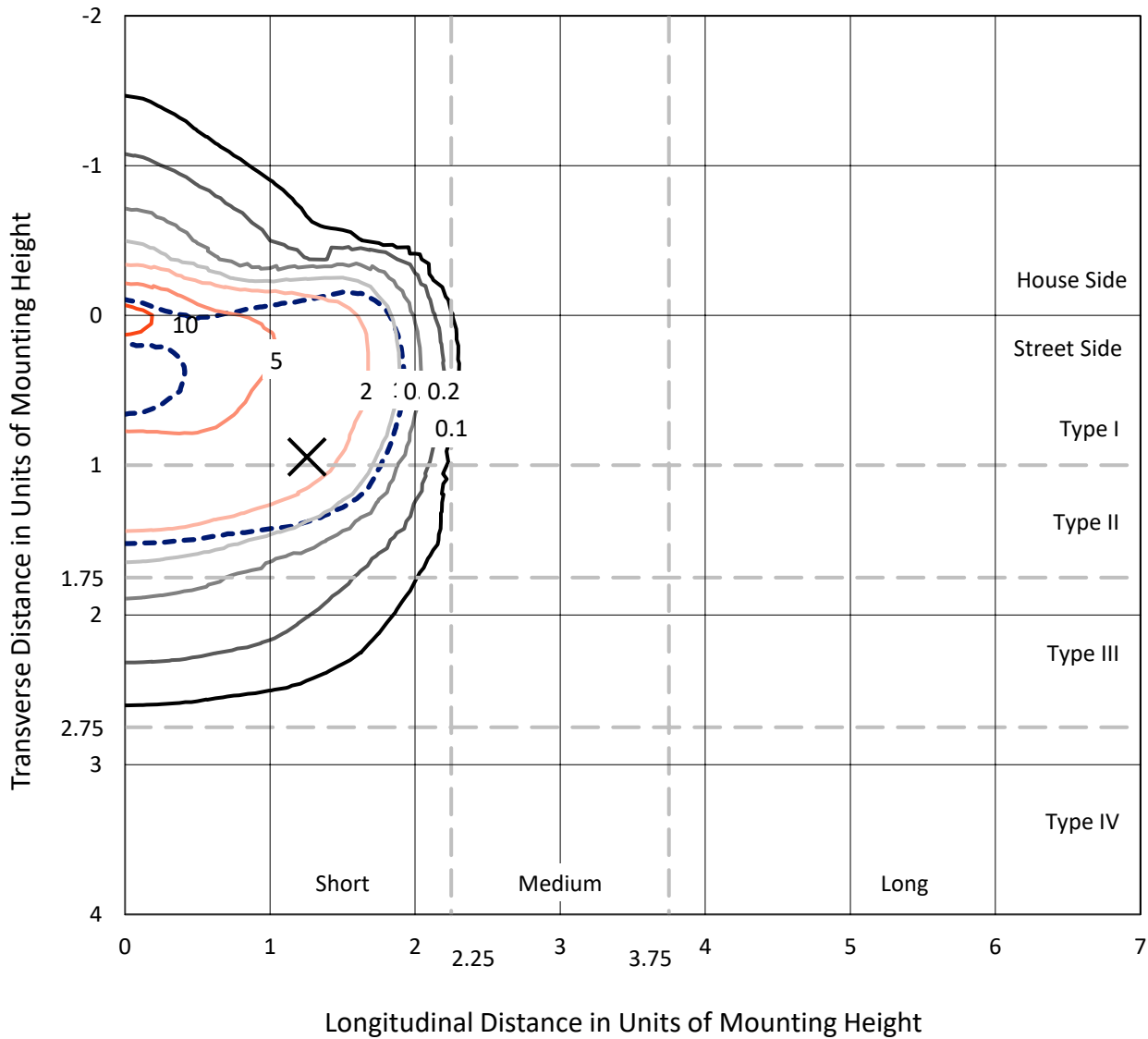
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

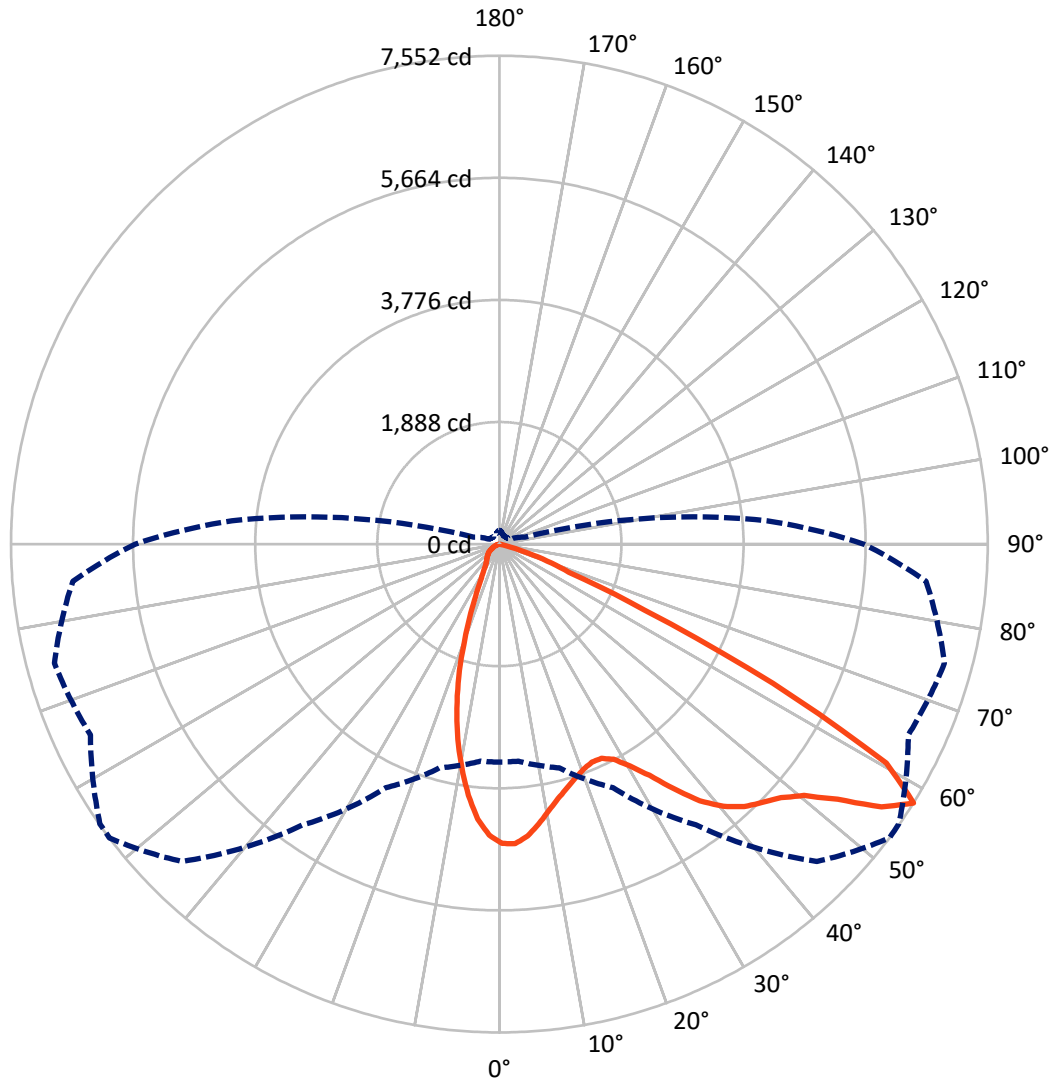
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.6 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	1742.8	0.0	1742.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	8807.8	0.0	8807.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	10550.6	0.0	10550.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.0	3.8
10°-20°	869.3	8.2
20°-30°	1132.5	10.7
30°-40°	1642.7	15.6
40°-50°	2370.3	22.5
50°-60°	2866.6	27.2
60°-70°	1168.3	11.1
70°-80°	105.0	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°	10550.6	100.0
0°-180°	10550.6	100.0

Coefficient of Utilization



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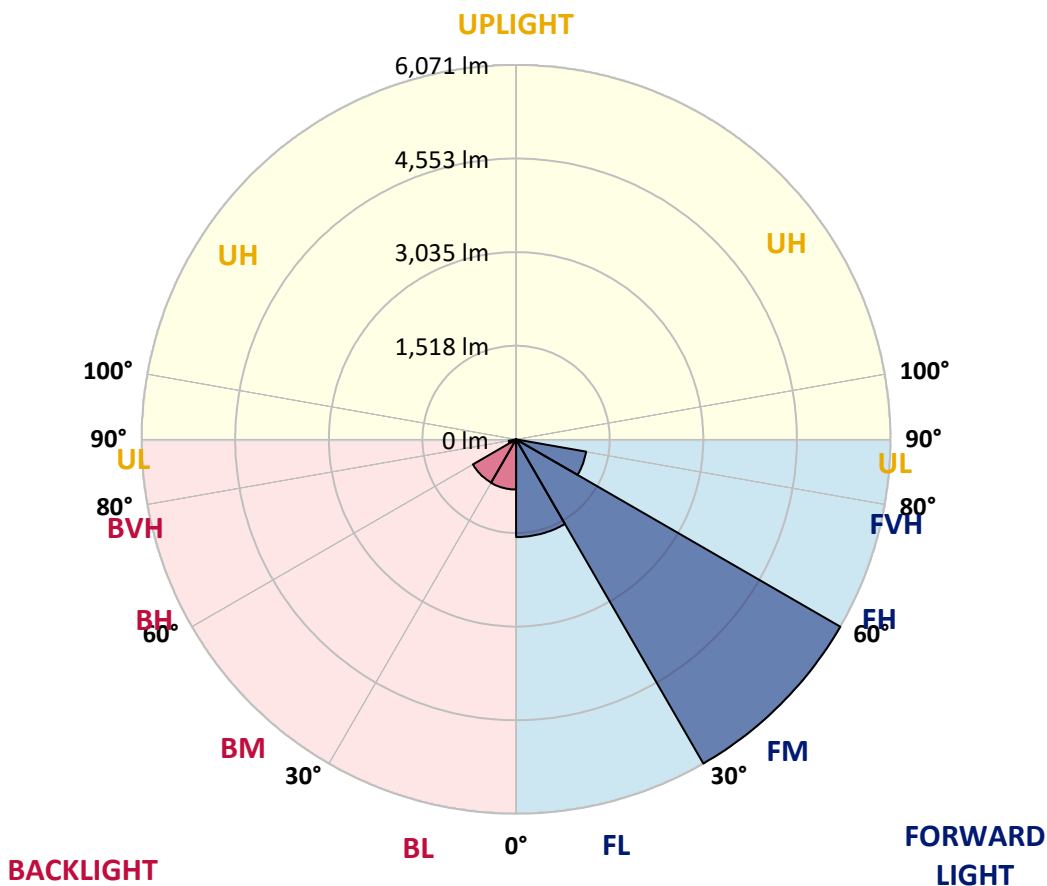
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1584.4	15.0			
FM (30°-60°)	6070.6	57.5			
FH (60°-80°)	1152.8	10.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	813.4	7.7	B2/1000		
BM (30°-60°)	808.9	7.7	B1/1000		
BH (60°-80°)	120.5	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°	4628.1	4628.1	4628.1	4628.1	4628.1	4628.1	4628.1	4628.1	4628.1	4628.1	4628.1
2.5°	4563.4	4573.8	4591.9	4615.2	4630.7	4638.4	4638.4	4660.4	4646.2	4634.6	4621.6
5°	4368.2	4378.5	4403.1	4440.6	4478.1	4505.2	4536.3	4559.6	4568.6	4568.6	4546.6
7.5°	4092.7	4107.0	4122.5	4174.2	4255.7	4316.5	4369.5	4403.1	4452.2	4467.7	4436.7
10°	3796.6	3810.8	3845.8	3916.9	4010.0	4100.5	4191.0	4233.7	4317.7	4361.7	4326.8
12.5°	3545.7	3552.2	3598.8	3684.1	3803.1	3927.2	4037.1	4081.1	4200.1	4266.0	4224.6
15°	3338.8	3342.7	3389.3	3483.7	3620.8	3773.3	3911.7	3957.0	4103.1	4202.7	4140.6
17.5°	3182.4	3183.7	3223.8	3325.9	3469.5	3638.9	3803.1	3858.7	4047.5	4167.7	4074.6
20°	3103.5	3099.6	3128.1	3217.3	3353.1	3522.5	3716.4	3785.0	4016.4	4162.6	4024.2
22.5°	3104.8	3095.7	3107.4	3170.7	3285.8	3444.9	3662.1	3739.7	4019.0	4184.6	3981.5
25°	3178.5	3165.6	3168.2	3201.8	3283.2	3428.1	3669.9	3752.6	4070.8	4258.3	3966.0
27.5°	3302.6	3288.4	3288.4	3305.2	3349.2	3481.1	3766.9	3861.3	4209.1	4401.8	3998.3
30°	3463.0	3448.8	3443.6	3460.4	3496.6	3618.2	3982.8	4081.1	4445.8	4637.1	4101.8
32.5°	3646.6	3629.8	3638.9	3662.1	3697.0	3865.2	4260.8	4391.5	4741.9	4954.0	4288.0
35°	3840.6	3826.4	3867.7	3918.2	3972.5	4207.8	4644.9	4758.7	5105.3	5348.4	4572.5
37.5°	4025.5	4019.0	4105.7	4211.7	4324.2	4619.0	5035.4	5123.4	5416.9	5777.7	4920.3
40°	4210.4	4209.1	4357.8	4544.0	4723.8	5029.0	5331.6	5404.0	5607.0	6111.3	5254.0
42.5°	4417.3	4417.3	4622.9	4871.2	5110.4	5375.5	5548.8	5581.1	5692.3	6304.0	5504.8
45°	4615.2	4626.8	4864.7	5153.1	5436.3	5645.8	5698.8	5701.4	5727.3	6417.8	5713.0
47.5°	4771.6	4782.0	5066.5	5398.8	5704.0	5851.4	5859.1	5847.5	5819.1	6526.4	5873.4
50°	4898.4	4913.9	5211.3	5563.0	5887.6	6049.2	6108.7	6097.1	6024.7	6642.8	5985.9
52.5°	4960.4	4982.4	5261.7	5644.5	6091.9	6388.0	6553.6	6580.7	6332.4	6707.4	6093.2
55°	4463.9	4496.2	4753.5	5277.2	6205.7	6911.8	7171.7	7166.5	6666.1	6900.1	6354.4
57.5°	3371.2	3368.6	3582.0	4154.8	5300.5	6941.5	7551.9	7541.5	6977.7	7123.8	6622.1
60°	2295.3	2279.8	2336.7	2613.4	3706.1	5654.8	6873.0	7012.6	6756.6	6580.7	5622.5
62.5°	1889.3	1875.0	1856.9	1780.6	2128.5	3522.5	4748.4	4960.4	4926.8	4573.8	3526.4
65°	1546.6	1558.2	1608.6	1576.3	1480.6	1806.5	2464.7	2590.1	2367.7	1992.7	1232.3
67.5°	1140.5	1145.7	1211.7	1382.4	1330.6	1202.6	1159.9	1180.6	691.8	318.1	205.6
70°	673.7	677.6	738.4	967.3	1079.8	923.3	783.6	772.0	274.1	85.3	93.1
72.5°	381.5	373.7	385.4	460.4	588.4	490.1	403.5	367.2	82.8	47.8	47.8
75°	181.0	175.9	151.3	142.2	129.3	82.8	51.7	44.0	20.7	19.4	19.4
77.5°	1.3	3.9	2.6	3.9	3.9	2.6	1.3	1.3	3.9	3.9	5.2
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°	4628.1	4628.1	4628.1	4628.1	4628.1	4628.1	4628.1	4628.1	4628.1	4628.1	4628.1
2.5°	4598.4	4559.6	4550.5	4547.9	4511.7	4472.9	4432.8	4417.3	4394.0	4379.8	4391.5
5°	4511.7	4456.1	4407.0	4361.7	4281.5	4193.6	4117.3	4068.2	4021.6	3990.6	3998.3
7.5°	4388.9	4316.5	4203.9	4088.9	3941.4	3809.5	3662.1	3571.6	3487.6	3441.0	3463.0
10°	4258.3	4162.6	3982.8	3787.6	3556.1	3349.2	3138.4	2966.4	2866.9	2772.5	2782.8
12.5°	4130.2	4003.5	3734.5	3438.4	3146.2	2841.0	2522.9	2285.0	2122.0	2004.3	1986.2
15°	4011.3	3848.3	3492.7	3102.2	2703.9	2297.9	1891.8	1551.8	1363.0	1246.6	1238.8
17.5°	3905.2	3703.5	3241.9	2750.5	2251.3	1731.5	1264.7	1009.9	901.3	850.9	845.7
20°	3803.1	3557.4	2985.8	2393.6	1757.4	1215.5	872.9	755.2	720.3	699.6	702.2
22.5°	3704.8	3398.3	2716.9	1997.9	1317.7	853.5	676.3	631.0	627.2	629.8	631.0
25°	3622.0	3252.2	2440.1	1616.4	940.1	650.4	565.1	552.2	563.8	580.6	583.2
27.5°	3579.4	3133.2	2169.9	1232.3	680.2	528.9	490.1	495.3	516.0	534.1	536.6
30°	3591.0	3044.0	1890.5	893.5	523.7	446.1	433.2	443.5	464.2	481.0	483.6
32.5°	3673.8	2998.8	1604.8	650.4	430.6	389.2	384.1	391.8	409.9	422.9	424.1
35°	3838.0	3009.1	1333.2	497.9	369.8	346.6	345.3	350.4	359.5	368.5	369.8
37.5°	4079.8	3093.2	1065.5	413.8	334.9	318.1	312.9	312.9	319.4	323.3	325.9
40°	4339.7	3219.9	853.5	366.0	310.4	292.2	281.9	278.0	283.2	288.4	289.7
42.5°	4554.4	3346.6	693.1	332.3	291.0	266.4	253.5	250.9	257.3	266.4	269.0
45°	4718.6	3444.9	578.0	305.2	269.0	241.8	227.6	227.6	239.2	254.7	257.3
47.5°	4868.6	3523.8	492.7	280.6	248.3	219.8	205.6	208.2	227.6	248.3	252.2
50°	4970.8	3587.1	429.3	258.6	231.5	201.7	188.8	194.0	217.2	241.8	245.7
52.5°	5080.7	3664.7	387.9	239.2	216.0	187.5	175.9	179.7	205.6	232.8	237.9
55°	5384.6	3924.6	386.6	213.4	188.8	168.1	162.9	164.2	190.1	221.1	227.6
57.5°	5632.9	4153.5	412.5	179.7	157.8	147.4	144.8	146.1	169.4	204.3	212.1
60°	4660.4	3227.6	341.4	148.7	131.9	129.3	125.4	128.0	150.0	181.0	187.5
62.5°	2758.2	1845.3	162.9	113.8	112.5	109.9	106.0	111.2	131.9	159.1	162.9
65°	942.7	547.0	103.5	93.1	95.7	91.8	87.9	93.1	111.2	126.7	128.0
67.5°	181.0	144.8	82.8	77.6	78.9	71.1	69.8	75.0	85.3	87.9	86.6
70°	94.4	84.1	63.4	63.4	60.8	50.4	50.4	55.6	55.6	51.7	50.4
72.5°	49.1	46.6	41.4	46.6	38.8	31.0	31.0	33.6	31.0	25.9	25.9
75°	19.4	19.4	18.1	23.3	16.8	14.2	12.9	15.5	11.6	9.1	9.1
77.5°	5.2	5.2	5.2	6.5	3.9	3.9	2.6	2.6	1.3	0.0	0.0
80°	0.0	1.3	0.0	1.3	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)