

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: P637758

Luminaire Tested: GWS-SA4D-740-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637758
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14323.5 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

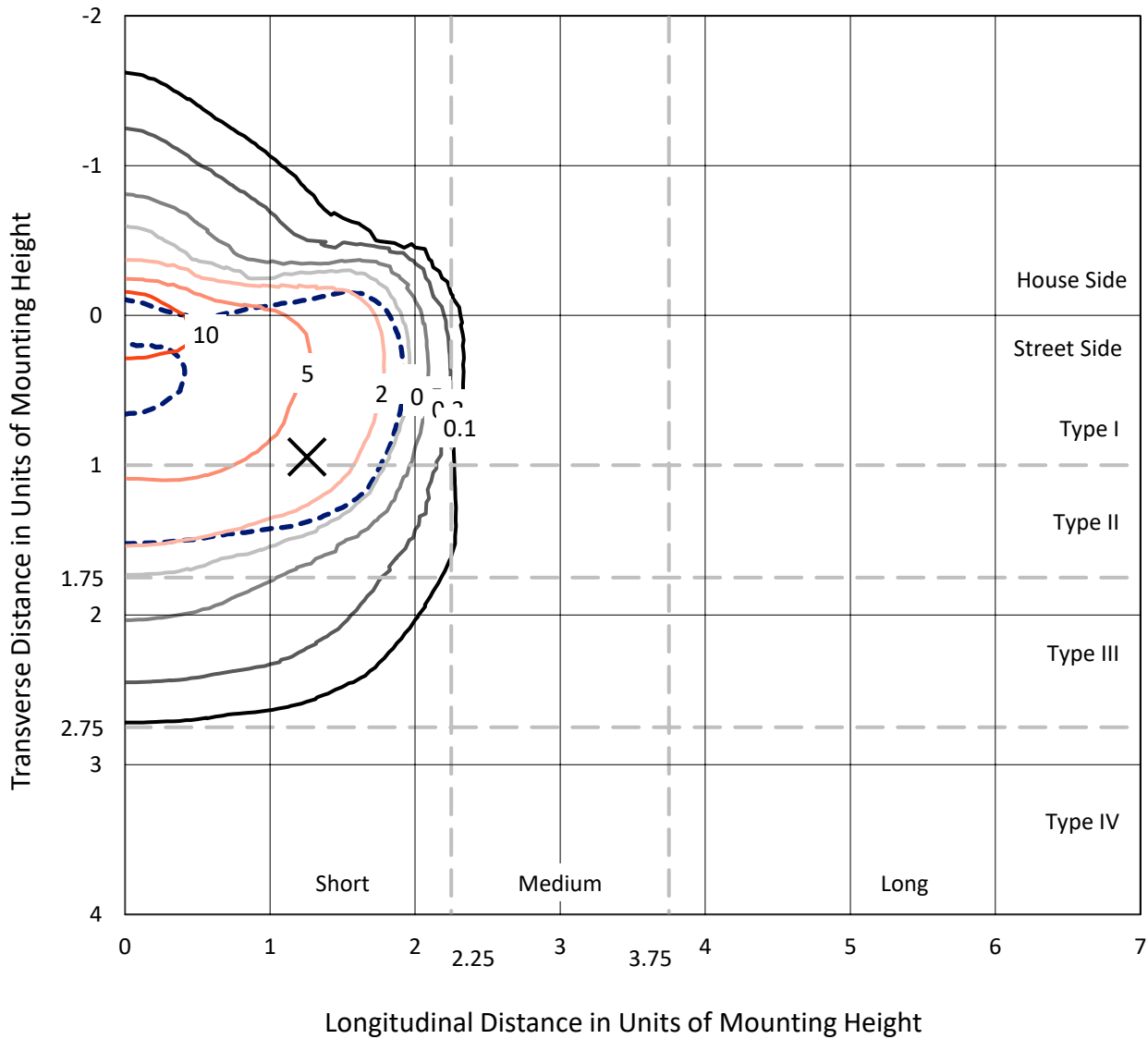
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

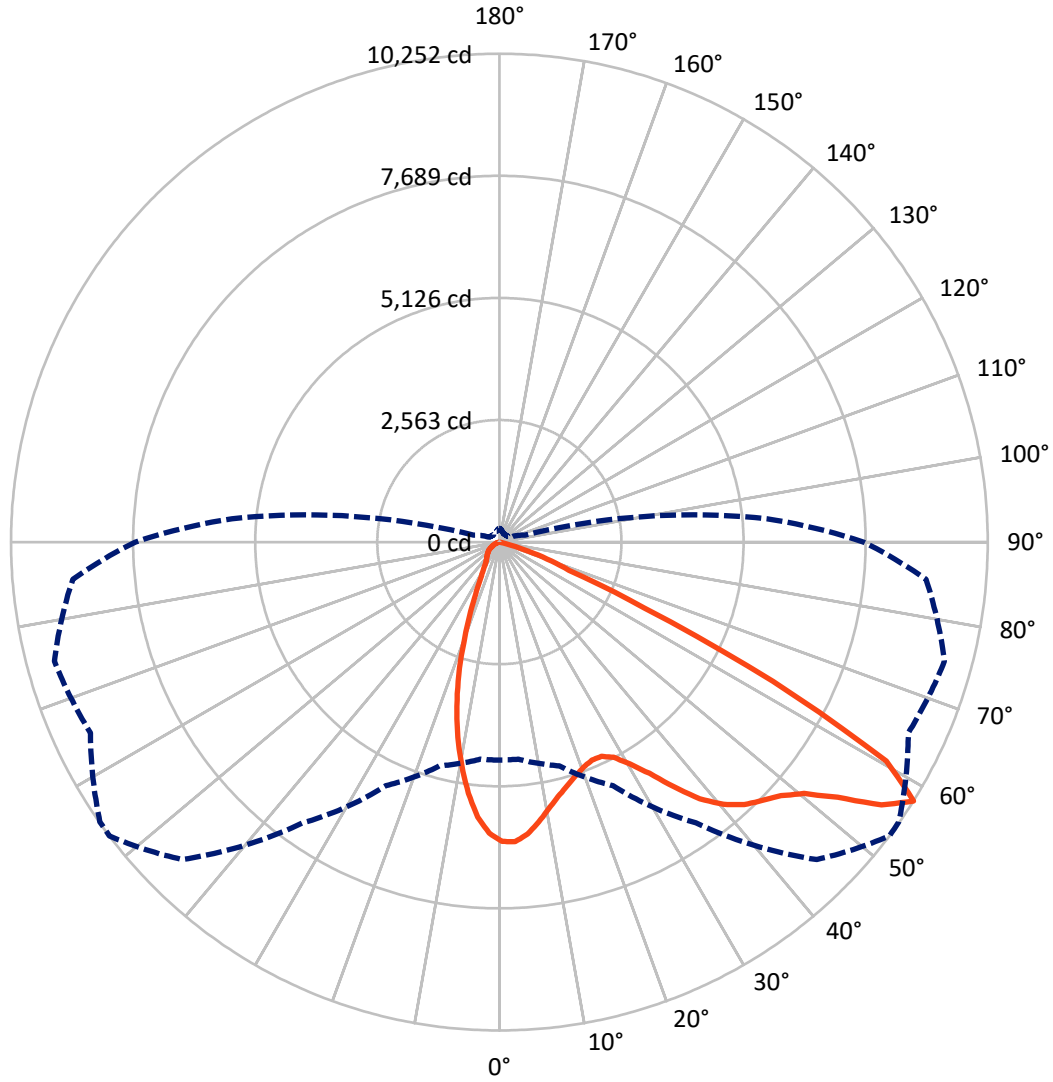
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.7 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	2366.1	0.0	2366.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	11957.5	0.0	11957.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	14323.5	0.0	14323.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.6	3.8
10°-20°	1180.2	8.2
20°-30°	1537.5	10.7
30°-40°	2230.1	15.6
40°-50°	3217.9	22.5
50°-60°	3891.7	27.2
60°-70°	1586.1	11.1
70°-80°	142.5	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°	14323.5	100.0
0°-180°	14323.5	100.0

Coefficient of Utilization



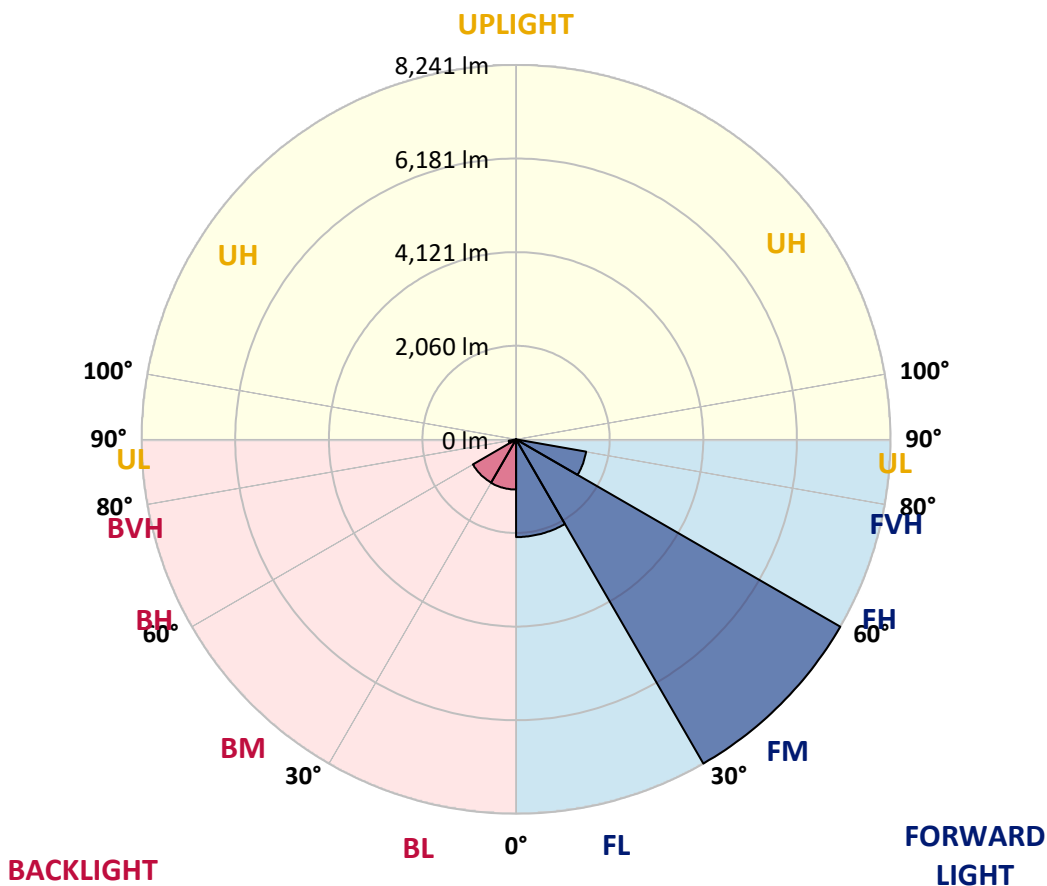
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2150.9	15.0			
FM (30°-60°)	8241.5	57.5			
FH (60°-80°)	1565.1	10.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1104.3	7.7	B3/2500		
BM (30°-60°)	1098.2	7.7	B2/2500		
BH (60°-80°)	163.6	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: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6283.1	6283.1	6283.1	6283.1	6283.1	6283.1	6283.1	6283.1	6283.1	6283.1	6283.1
2.5°	6195.3	6209.4	6233.9	6265.5	6286.6	6297.1	6297.1	6327.0	6307.7	6291.9	6274.3
5°	5930.2	5944.3	5977.6	6028.5	6079.5	6116.3	6158.5	6190.1	6202.3	6202.3	6172.5
7.5°	5556.3	5575.6	5596.7	5666.9	5777.5	5860.0	5932.0	5977.6	6044.3	6065.4	6023.3
10°	5154.3	5173.6	5221.0	5317.6	5444.0	5566.8	5689.7	5747.7	5861.8	5921.5	5874.1
12.5°	4813.7	4822.5	4885.7	5001.6	5163.1	5331.6	5480.8	5540.5	5702.0	5791.6	5735.4
15°	4532.8	4538.1	4601.3	4729.4	4915.5	5122.7	5310.5	5372.0	5570.4	5705.5	5621.3
17.5°	4320.4	4322.2	4376.6	4515.3	4710.1	4940.1	5163.1	5238.6	5494.9	5658.1	5531.7
20°	4213.3	4208.0	4246.7	4367.8	4552.1	4782.1	5045.4	5138.5	5452.7	5651.1	5463.3
22.5°	4215.1	4202.8	4218.6	4304.6	4460.8	4676.8	4971.7	5077.0	5456.2	5681.0	5405.3
25°	4315.1	4297.6	4301.1	4346.7	4457.3	4654.0	4982.2	5094.6	5526.5	5781.0	5384.3
27.5°	4483.7	4464.4	4464.4	4487.2	4546.9	4725.9	5113.9	5242.1	5714.3	5975.9	5428.2
30°	4701.4	4682.0	4675.0	4697.8	4747.0	4912.0	5407.1	5540.5	6035.6	6295.4	5568.6
32.5°	4950.6	4927.8	4940.1	4971.7	5019.1	5247.3	5784.5	5961.8	6437.6	6725.5	5821.4
35°	5214.0	5194.7	5250.8	5319.3	5393.0	5712.6	6305.9	6460.4	6930.9	7260.9	6207.6
37.5°	5465.0	5456.2	5573.9	5717.8	5870.6	6270.8	6836.1	6955.5	7354.0	7843.8	6679.9
40°	5716.1	5714.3	5916.2	6169.0	6413.0	6827.3	7238.1	7336.4	7612.1	8296.7	7132.8
42.5°	5996.9	5996.9	6276.1	6613.1	6937.9	7297.8	7533.1	7576.9	7727.9	8558.3	7473.4
45°	6265.5	6281.3	6604.4	6995.9	7380.3	7664.7	7736.7	7740.2	7775.3	8712.8	7756.0
47.5°	6478.0	6492.0	6878.2	7329.4	7743.7	7943.9	7954.4	7938.6	7900.0	8860.2	7973.7
50°	6650.0	6671.1	7074.9	7552.4	7993.0	8212.5	8293.2	8277.4	8179.1	9018.2	8126.4
52.5°	6734.3	6764.1	7143.3	7663.0	8270.4	8672.4	8897.1	8934.0	8596.9	9106.0	8272.1
55°	6060.1	6104.0	6453.4	7164.4	8424.9	9383.4	9736.3	9729.2	9049.8	9367.6	8626.8
57.5°	4576.7	4573.2	4862.9	5640.6	7196.0	9423.8	10252.4	10238.4	9472.9	9671.3	8990.2
60°	3116.1	3095.0	3172.3	3548.0	5031.4	7677.0	9330.7	9520.3	9172.7	8934.0	7633.1
62.5°	2564.9	2545.5	2521.0	2417.4	2889.6	4782.1	6446.4	6734.3	6688.6	6209.4	4787.4
65°	2099.6	2115.4	2183.9	2140.0	2010.1	2452.5	3346.1	3516.4	3214.4	2705.3	1673.0
67.5°	1548.4	1555.4	1644.9	1876.7	1806.5	1632.7	1574.7	1602.8	939.2	431.9	279.1
70°	914.6	919.9	1002.4	1313.1	1465.9	1253.5	1063.9	1048.1	372.2	115.9	126.4
72.5°	517.9	507.4	523.2	625.0	798.8	665.4	547.7	498.6	112.4	65.0	65.0
75°	245.8	238.8	205.4	193.1	175.6	112.4	70.2	59.7	28.1	26.3	26.3
77.5°	1.8	5.3	3.5	5.3	5.3	3.5	1.8	1.8	5.3	5.3	7.0
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°	6283.1	6283.1	6283.1	6283.1	6283.1	6283.1	6283.1	6283.1	6283.1	6283.1	6283.1
2.5°	6242.7	6190.1	6177.8	6174.3	6125.1	6072.4	6018.0	5996.9	5965.3	5946.0	5961.8
5°	6125.1	6049.6	5982.9	5921.5	5812.6	5693.2	5589.7	5523.0	5459.8	5417.6	5428.2
7.5°	5958.3	5860.0	5707.3	5551.0	5350.9	5171.8	4971.7	4848.8	4734.7	4671.5	4701.4
10°	5781.0	5651.1	5407.1	5142.0	4827.8	4546.9	4260.7	4027.2	3892.0	3763.9	3777.9
12.5°	5607.2	5435.2	5070.0	4668.0	4271.2	3856.9	3425.1	3102.1	2880.9	2721.1	2696.5
15°	5445.7	5224.5	4741.7	4211.6	3670.8	3119.6	2568.4	2106.7	1850.3	1692.3	1681.8
17.5°	5301.8	5027.9	4401.2	3734.0	3056.4	2350.7	1716.9	1371.1	1223.6	1155.2	1148.1
20°	5163.1	4829.5	4053.6	3249.5	2385.8	1650.2	1185.0	1025.2	977.8	949.8	953.3
22.5°	5029.6	4613.6	3688.4	2712.3	1788.9	1158.7	918.2	856.7	851.4	855.0	856.7
25°	4917.3	4415.2	3312.7	2194.4	1276.3	883.0	767.2	749.6	765.4	788.2	791.8
27.5°	4859.4	4253.7	2945.8	1673.0	923.4	718.0	665.4	672.4	700.5	725.0	728.6
30°	4875.2	4132.6	2566.6	1213.1	711.0	605.7	588.1	602.2	630.2	653.1	656.6
32.5°	4987.5	4071.1	2178.6	883.0	584.6	528.4	521.4	531.9	556.5	574.1	575.8
35°	5210.5	4085.2	1810.0	675.9	502.1	470.5	468.7	475.8	488.0	500.3	502.1
37.5°	5538.8	4199.3	1446.6	561.8	454.7	431.9	424.8	424.8	433.6	438.9	442.4
40°	5891.6	4371.3	1158.7	496.8	421.3	396.8	382.7	377.4	384.5	391.5	393.2
42.5°	6183.0	4543.4	941.0	451.2	395.0	361.6	344.1	340.6	349.4	361.6	365.2
45°	6406.0	4676.8	784.7	414.3	365.2	328.3	309.0	309.0	324.8	345.8	349.4
47.5°	6609.6	4783.9	668.9	381.0	337.1	298.4	279.1	282.6	309.0	337.1	342.3
50°	6748.3	4869.9	582.8	351.1	314.2	273.9	256.3	263.3	294.9	328.3	333.6
52.5°	6897.5	4975.2	526.7	324.8	293.2	254.6	238.8	244.0	279.1	316.0	323.0
55°	7310.1	5328.1	524.9	289.7	256.3	228.2	221.2	223.0	258.1	300.2	309.0
57.5°	7647.2	5638.8	560.0	244.0	214.2	200.1	196.6	198.4	230.0	277.4	287.9
60°	6327.0	4381.8	463.5	201.9	179.1	175.6	170.3	173.8	203.6	245.8	254.6
62.5°	3744.6	2505.2	221.2	154.5	152.7	149.2	144.0	151.0	179.1	215.9	221.2
65°	1279.8	742.6	140.4	126.4	129.9	124.6	119.4	126.4	151.0	172.0	173.8
67.5°	245.8	196.6	112.4	105.3	107.1	96.6	94.8	101.8	115.9	119.4	117.6
70°	128.2	114.1	86.0	86.0	82.5	68.5	68.5	75.5	75.5	70.2	68.5
72.5°	66.7	63.2	56.2	63.2	52.7	42.1	42.1	45.6	42.1	35.1	35.1
75°	26.3	26.3	24.6	31.6	22.8	19.3	17.6	21.1	15.8	12.3	12.3
77.5°	7.0	7.0	7.0	8.8	5.3	5.3	3.5	3.5	1.8	0.0	0.0
80°	0.0	1.8	0.0	1.8	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)