

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: P638528

Luminaire Tested: GWS-SA4F-722-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638528
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-SA4F-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: 14658.8 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: B3 - U0 - G1

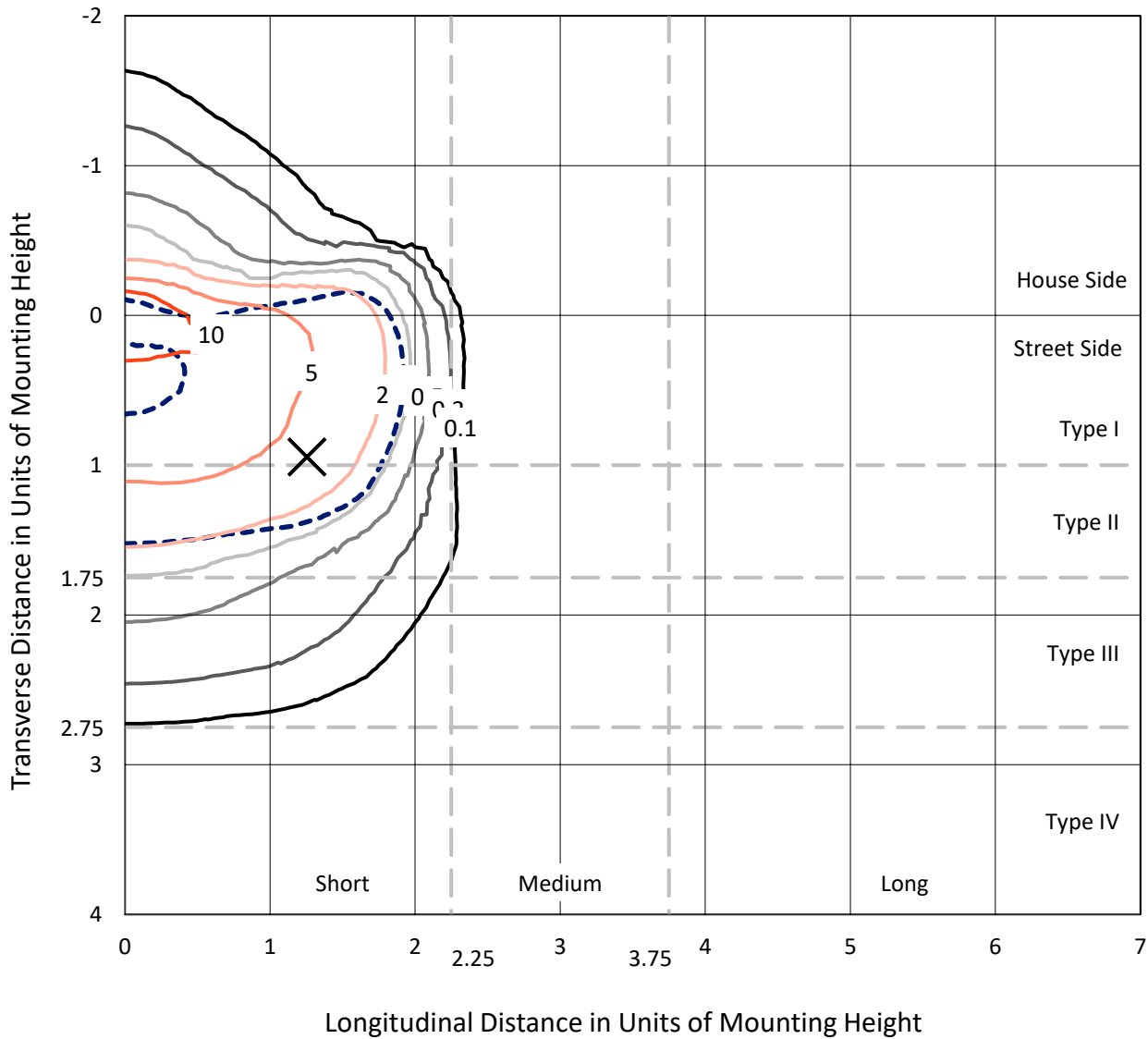
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

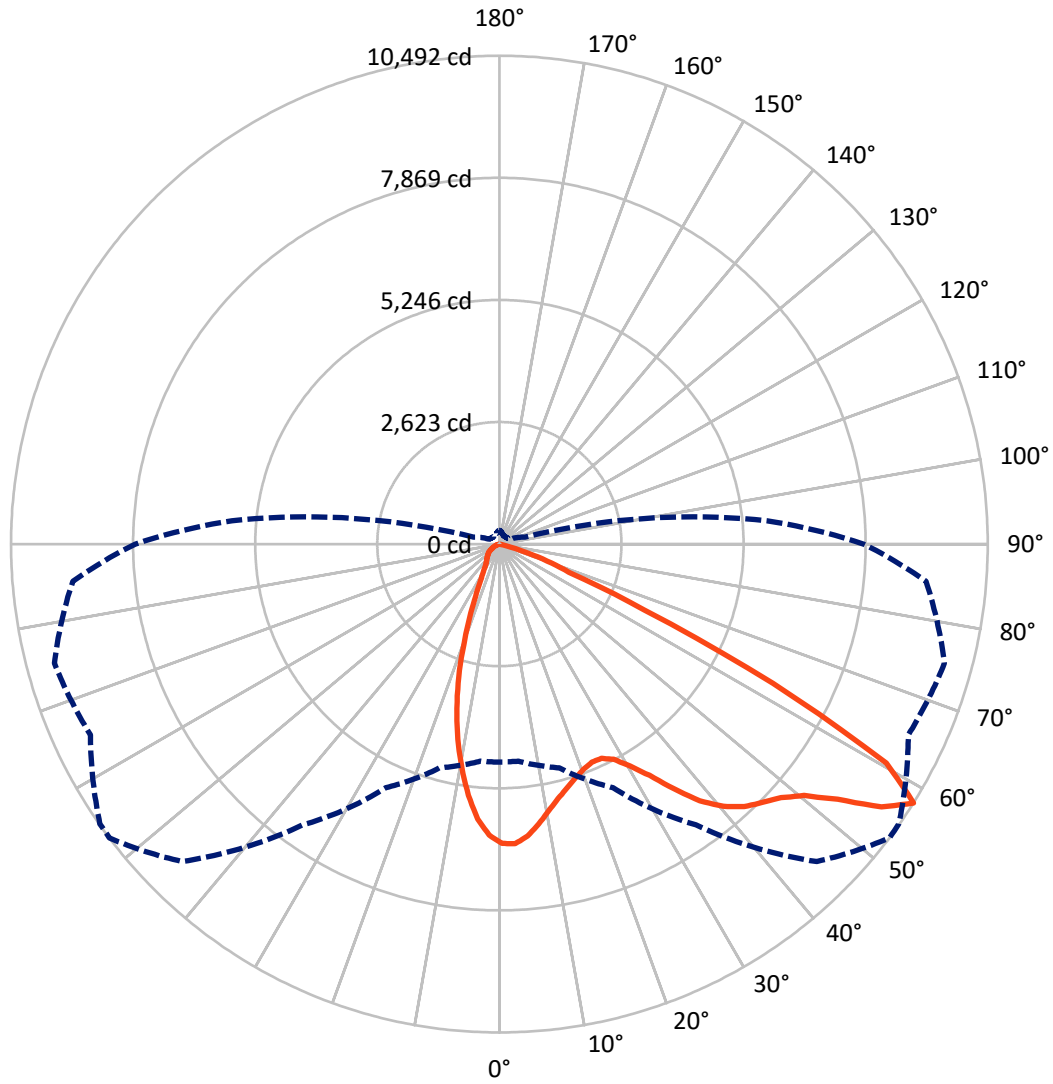
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 16.1 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	2421.4	0.0	2421.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	12237.4	0.0	12237.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	14658.8	0.0	14658.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	550.2	3.8
10°-20°	1207.8	8.2
20°-30°	1573.4	10.7
30°-40°	2282.3	15.6
40°-50°	3293.2	22.5
50°-60°	3982.8	27.2
60°-70°	1623.2	11.1
70°-80°	145.9	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°	14658.8	100.0
0°-180°	14658.8	100.0

Coefficient of Utilization



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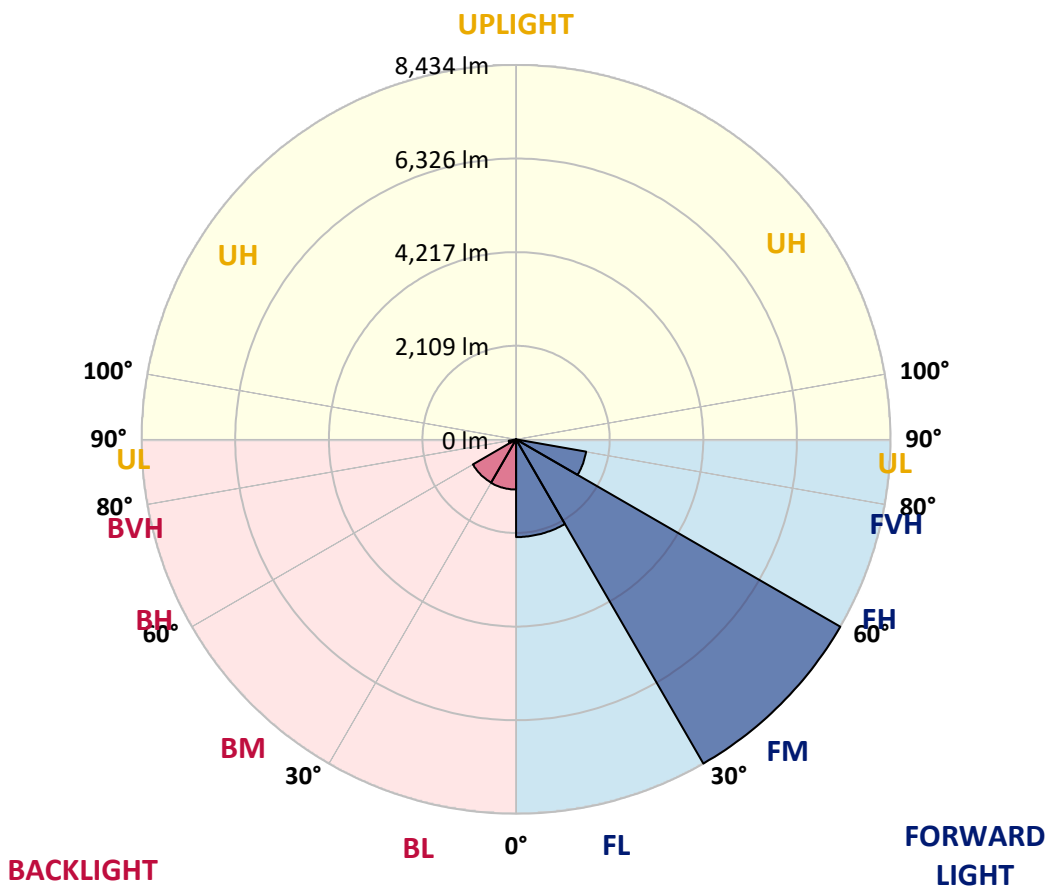
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2201.3	15.0			
FM (30°-60°)	8434.4	57.5			
FH (60°-80°)	1601.7	10.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1130.1	7.7	B3/2500		
BM (30°-60°)	1123.9	7.7	B2/2500		
BH (60°-80°)	167.4	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°	6430.2	6430.2	6430.2	6430.2	6430.2	6430.2	6430.2	6430.2	6430.2	6430.2	6430.2
2.5°	6340.4	6354.7	6379.9	6412.2	6433.8	6444.6	6444.6	6475.1	6455.3	6439.2	6421.2
5°	6069.1	6083.4	6117.6	6169.7	6221.8	6259.5	6302.6	6335.0	6347.5	6347.5	6317.0
7.5°	5686.4	5706.1	5727.7	5799.6	5912.8	5997.2	6070.9	6117.6	6185.8	6207.4	6164.3
10°	5274.9	5294.7	5343.2	5442.0	5571.4	5697.2	5822.9	5882.2	5999.0	6060.1	6011.6
12.5°	4926.4	4935.4	5000.1	5118.6	5283.9	5456.4	5609.1	5670.2	5835.5	5927.1	5869.6
15°	4638.9	4644.3	4709.0	4840.2	5030.6	5242.6	5434.8	5497.7	5700.7	5839.1	5752.9
17.5°	4421.5	4423.3	4479.0	4621.0	4820.4	5055.8	5283.9	5361.2	5623.5	5790.6	5661.2
20°	4311.9	4306.6	4346.1	4470.0	4658.7	4894.1	5163.6	5258.8	5580.4	5783.4	5591.2
22.5°	4313.7	4301.2	4317.3	4405.4	4565.3	4786.3	5088.1	5195.9	5584.0	5813.9	5531.9
25°	4416.1	4398.2	4401.8	4448.5	4561.7	4762.9	5098.9	5213.9	5655.8	5916.3	5510.3
27.5°	4588.6	4568.9	4568.9	4592.2	4653.3	4836.6	5233.6	5364.8	5848.1	6115.8	5555.2
30°	4811.4	4791.6	4784.5	4807.8	4858.1	5027.0	5533.7	5670.2	6176.9	6442.8	5699.0
32.5°	5066.5	5043.2	5055.8	5088.1	5136.6	5370.2	5919.9	6101.4	6588.3	6882.9	5957.7
35°	5336.0	5316.3	5373.8	5443.8	5519.3	5846.3	6453.5	6611.6	7093.1	7430.9	6352.9
37.5°	5592.9	5584.0	5704.3	5851.7	6008.0	6417.6	6996.1	7118.3	7526.1	8027.4	6836.2
40°	5849.9	5848.1	6054.7	6313.4	6563.1	6987.1	7407.6	7508.2	7790.2	8490.9	7299.8
42.5°	6137.3	6137.3	6423.0	6768.0	7100.3	7468.6	7709.4	7754.3	7908.8	8758.6	7648.3
45°	6412.2	6428.4	6759.0	7159.6	7553.1	7844.1	7917.8	7921.4	7957.3	8916.7	7937.6
47.5°	6629.6	6644.0	7039.2	7501.0	7925.0	8129.8	8140.6	8124.4	8084.9	9067.7	8160.4
50°	6805.7	6827.2	7240.5	7729.2	8180.1	8404.7	8487.3	8471.2	8370.6	9229.4	8316.7
52.5°	6891.9	6922.5	7310.5	7842.3	8464.0	8875.4	9105.4	9143.1	8798.2	9319.2	8465.8
55°	6202.0	6246.9	6604.5	7332.1	8622.1	9603.1	9964.2	9957.0	9261.7	9586.9	8828.7
57.5°	4683.8	4680.3	4976.7	5772.6	7364.4	9644.4	10492.4	10478.0	9694.7	9897.7	9200.6
60°	3189.0	3167.5	3246.5	3631.0	5149.2	7856.7	9549.2	9743.2	9387.5	9143.1	7811.8
62.5°	2624.9	2605.1	2580.0	2474.0	2957.3	4894.1	6597.3	6891.9	6845.2	6354.7	4899.4
65°	2148.8	2165.0	2235.0	2190.1	2057.2	2509.9	3424.4	3598.7	3289.7	2768.6	1712.2
67.5°	1584.6	1591.8	1683.5	1920.6	1848.7	1670.9	1611.6	1640.3	961.2	442.0	285.7
70°	936.1	941.4	1025.9	1343.9	1500.2	1282.8	1088.8	1072.6	380.9	118.6	129.4
72.5°	530.0	519.2	535.4	639.6	817.5	680.9	560.6	510.2	115.0	66.5	66.5
75°	251.5	244.3	210.2	197.6	179.7	115.0	71.9	61.1	28.7	26.9	26.9
77.5°	1.8	5.4	3.6	5.4	5.4	3.6	1.8	1.8	5.4	5.4	7.2
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°	6430.2	6430.2	6430.2	6430.2	6430.2	6430.2	6430.2	6430.2	6430.2	6430.2	6430.2
2.5°	6388.9	6335.0	6322.4	6318.8	6268.5	6214.6	6158.9	6137.3	6105.0	6085.2	6101.4
5°	6268.5	6191.2	6123.0	6060.1	5948.7	5826.5	5720.5	5652.2	5587.6	5544.4	5555.2
7.5°	6097.8	5997.2	5840.9	5681.0	5476.2	5292.9	5088.1	4962.3	4845.5	4780.9	4811.4
10°	5916.3	5783.4	5533.7	5262.4	4940.8	4653.3	4360.5	4121.5	3983.2	3852.0	3866.4
12.5°	5738.5	5562.4	5188.7	4777.3	4371.2	3947.2	3505.3	3174.7	2948.3	2784.8	2759.6
15°	5573.2	5346.8	4852.7	4310.1	3756.8	3192.6	2628.5	2156.0	1893.7	1732.0	1721.2
17.5°	5425.9	5145.6	4504.2	3821.5	3128.0	2405.7	1757.1	1403.2	1252.3	1182.2	1175.0
20°	5283.9	4942.6	4148.4	3325.6	2441.6	1688.8	1212.7	1049.2	1000.7	972.0	975.6
22.5°	5147.4	4721.6	3774.7	2775.8	1830.8	1185.8	939.6	876.8	871.4	875.0	876.8
25°	5032.4	4518.6	3390.3	2245.8	1306.2	903.7	785.1	767.2	783.3	806.7	810.3
27.5°	4973.1	4353.3	3014.8	1712.2	945.0	734.8	680.9	688.1	716.9	742.0	745.6
30°	4989.3	4229.3	2626.7	1241.5	727.6	619.8	601.9	616.2	645.0	668.4	671.9
32.5°	5104.3	4166.4	2229.6	903.7	598.3	540.8	533.6	544.4	569.5	587.5	589.3
35°	5332.4	4180.8	1852.3	691.7	513.8	481.5	479.7	486.9	499.5	512.0	513.8
37.5°	5668.4	4297.6	1480.4	574.9	465.3	442.0	434.8	434.8	443.8	449.2	452.8
40°	6029.5	4473.6	1185.8	508.4	431.2	406.0	391.7	386.3	393.5	400.7	402.4
42.5°	6327.8	4649.7	963.0	461.7	404.2	370.1	352.1	348.5	357.5	370.1	373.7
45°	6556.0	4786.3	803.1	424.0	373.7	336.0	316.2	316.2	332.4	353.9	357.5
47.5°	6764.4	4895.9	684.5	389.9	345.0	305.4	285.7	289.3	316.2	345.0	350.3
50°	6906.3	4983.9	596.5	359.3	321.6	280.3	262.3	269.5	301.8	336.0	341.4
52.5°	7059.0	5091.7	539.0	332.4	300.0	260.5	244.3	249.7	285.7	323.4	330.6
55°	7481.2	5452.8	537.2	296.4	262.3	233.6	226.4	228.2	264.1	307.2	316.2
57.5°	7826.2	5770.8	573.1	249.7	219.2	204.8	201.2	203.0	235.4	283.9	294.6
60°	6475.1	4484.4	474.3	206.6	183.3	179.7	174.3	177.9	208.4	251.5	260.5
62.5°	3832.2	2563.8	226.4	158.1	156.3	152.7	147.3	154.5	183.3	221.0	226.4
65°	1309.8	760.0	143.7	129.4	133.0	127.6	122.2	129.4	154.5	176.1	177.9
67.5°	251.5	201.2	115.0	107.8	109.6	98.8	97.0	104.2	118.6	122.2	120.4
70°	131.2	116.8	88.0	88.0	84.4	70.1	70.1	77.3	77.3	71.9	70.1
72.5°	68.3	64.7	57.5	64.7	53.9	43.1	43.1	46.7	43.1	35.9	35.9
75°	26.9	26.9	25.2	32.3	23.4	19.8	18.0	21.6	16.2	12.6	12.6
77.5°	7.2	7.2	7.2	9.0	5.4	5.4	3.6	3.6	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)