

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: P638308

Luminaire Tested: GWS-SA4E-750-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638308
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-SA4E-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18309.5 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

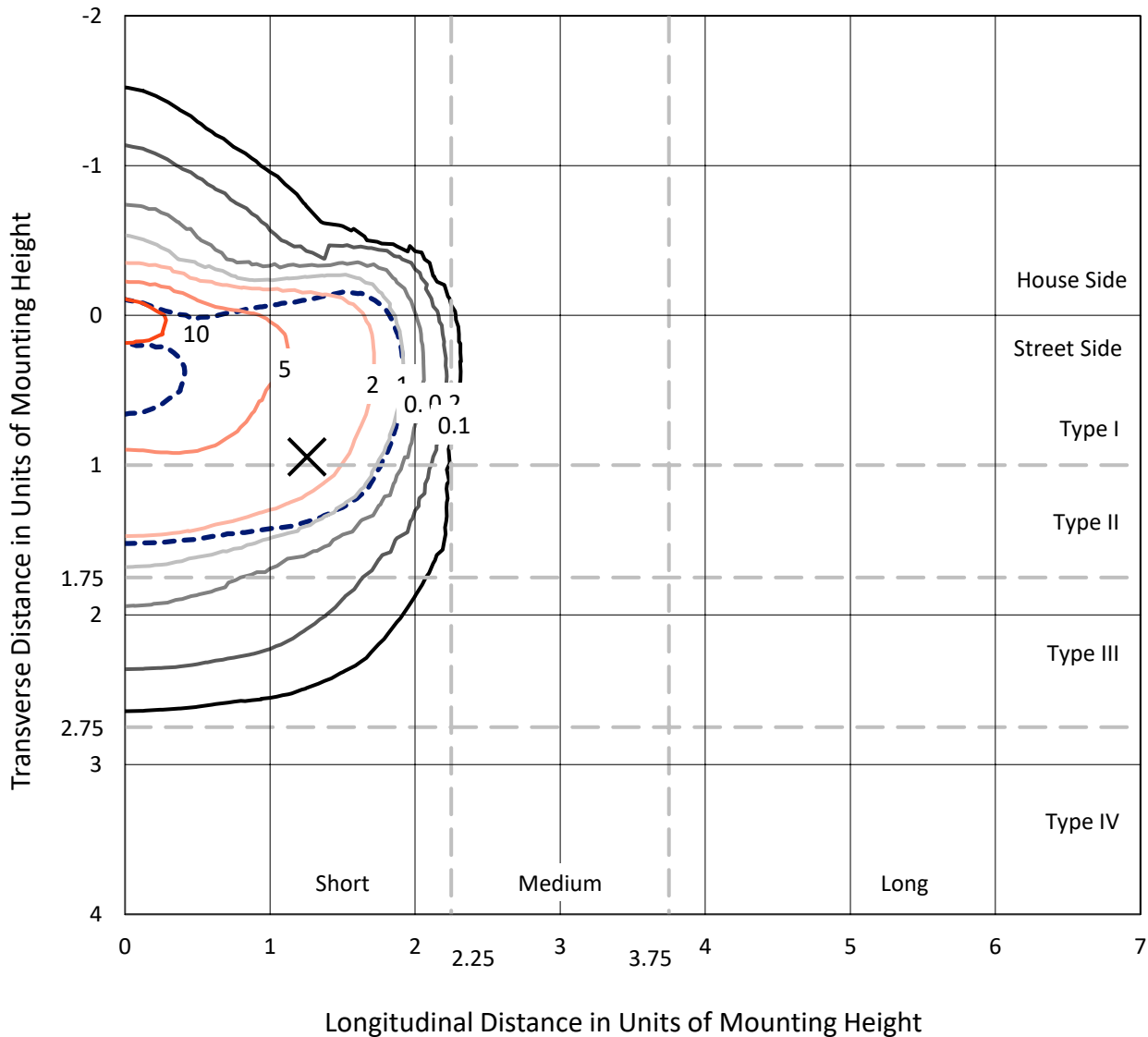
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

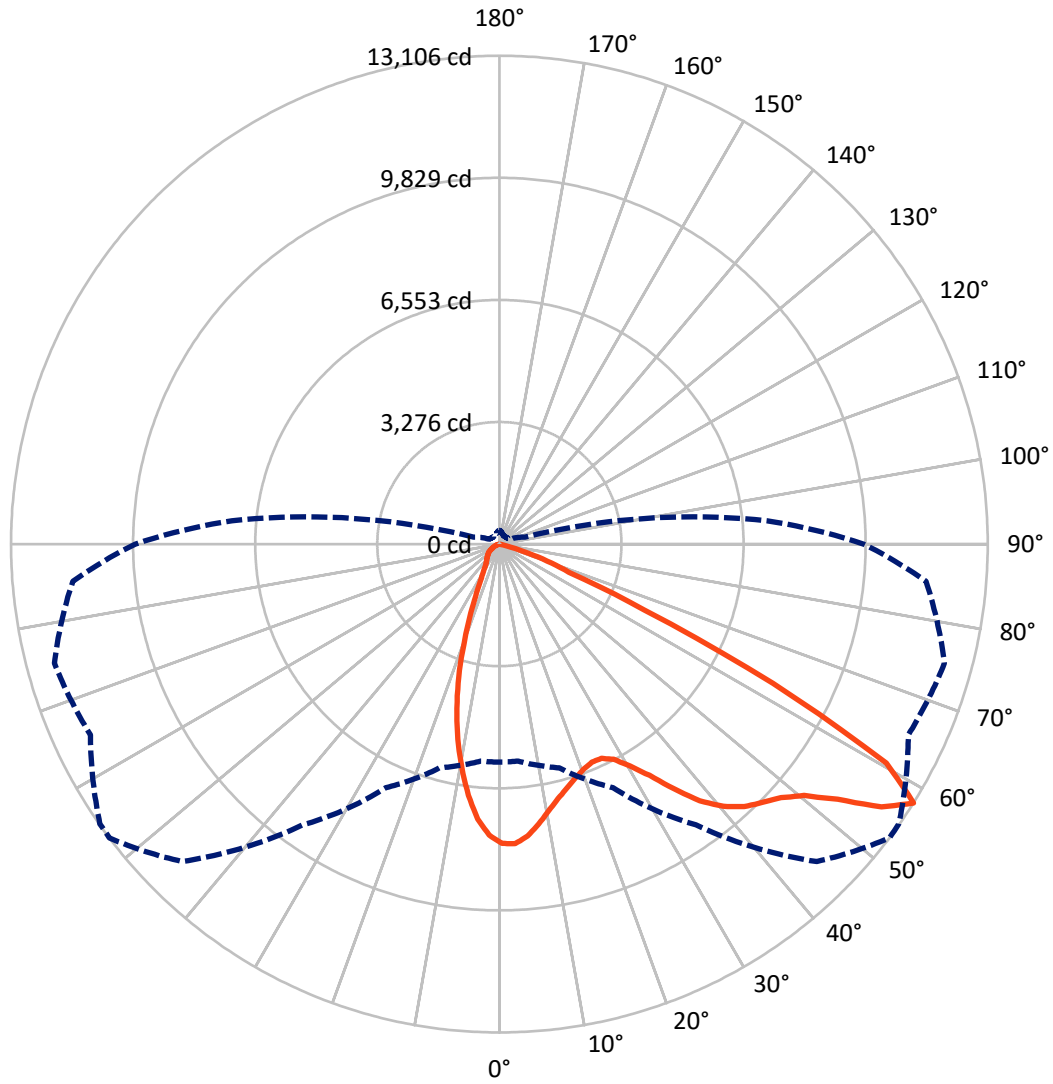
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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	3024.5	0.0	3024.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	15285.0	0.0	15285.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	18309.5	0.0	18309.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.2	3.8
10°-20°	1508.6	8.2
20°-30°	1965.3	10.7
30°-40°	2850.7	15.6
40°-50°	4113.3	22.5
50°-60°	4974.7	27.2
60°-70°	2027.5	11.1
70°-80°	182.2	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°	18309.5	100.0
0°-180°	18309.5	100.0

Coefficient of Utilization



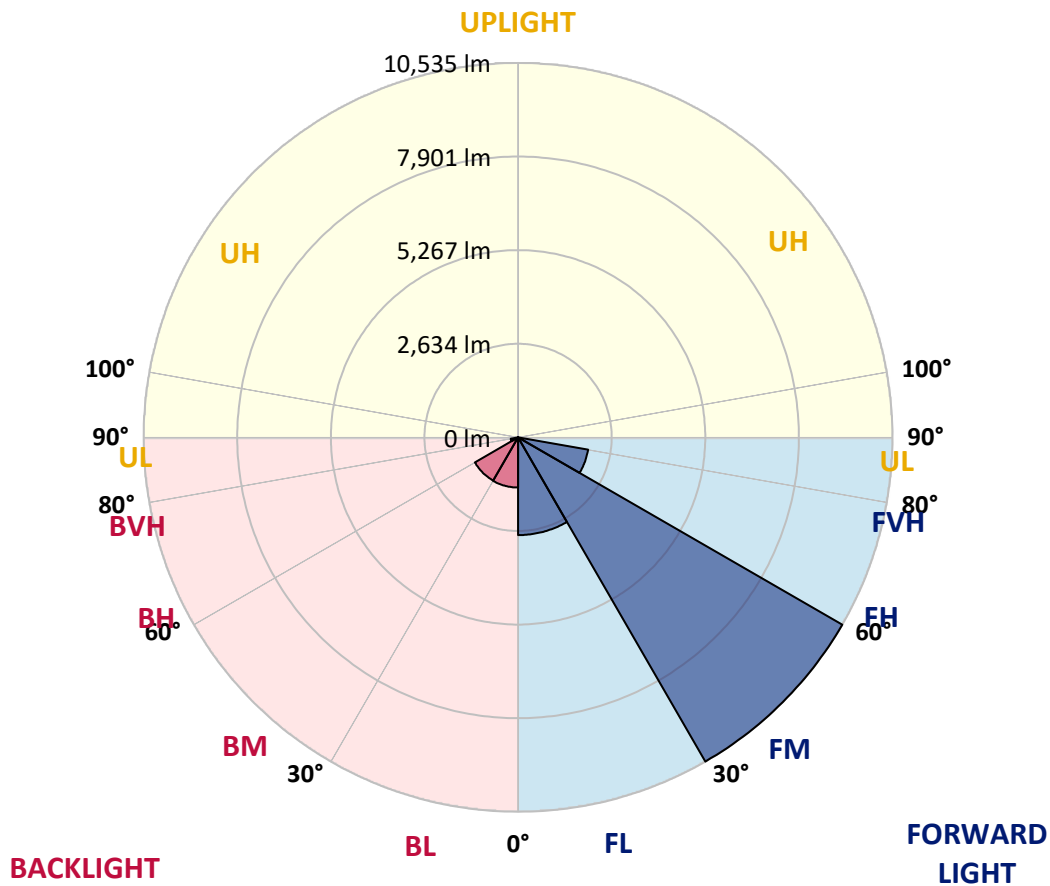
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2749.5	15.0			
FM (30°-60°)	10534.9	57.5			
FH (60°-80°)	2000.6	10.9			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1411.6	7.7	B3/2500		
BM (30°-60°)	1403.8	7.7	B2/2500		
BH (60°-80°)	209.1	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	8031.6	8031.6	8031.6	8031.6	8031.6	8031.6	8031.6	8031.6	8031.6	8031.6	8031.6
2.5°	7919.4	7937.3	7968.8	8009.1	8036.1	8049.5	8049.5	8087.7	8063.0	8042.8	8020.4
5°	7580.5	7598.5	7641.1	7706.2	7771.3	7818.4	7872.3	7912.7	7928.4	7928.4	7890.2
7.5°	7102.5	7127.2	7154.2	7243.9	7385.3	7490.8	7582.8	7641.1	7726.4	7753.3	7699.5
10°	6588.6	6613.3	6673.9	6797.3	6958.9	7116.0	7273.1	7347.1	7493.0	7569.3	7508.7
12.5°	6153.3	6164.5	6245.3	6393.4	6599.9	6815.3	7006.0	7082.3	7288.8	7403.2	7331.4
15°	5794.2	5801.0	5881.8	6045.6	6283.4	6548.2	6788.4	6866.9	7120.5	7293.3	7185.6
17.5°	5522.7	5524.9	5594.5	5771.8	6020.9	6314.9	6599.9	6696.4	7024.0	7232.7	7071.1
20°	5385.8	5379.1	5428.4	5583.3	5818.9	6112.9	6449.5	6568.4	6970.1	7223.7	6983.6
22.5°	5388.1	5372.3	5392.5	5502.5	5702.2	5978.3	6355.3	6489.9	6974.6	7261.9	6909.5
25°	5516.0	5493.5	5498.0	5556.4	5697.7	5949.1	6368.7	6512.3	7064.4	7389.8	6882.6
27.5°	5731.4	5706.7	5706.7	5735.9	5812.2	6041.1	6537.0	6700.8	7304.5	7638.9	6938.7
30°	6009.7	5985.0	5976.0	6005.2	6068.0	6279.0	6911.8	7082.3	7715.2	8047.3	7118.2
32.5°	6328.3	6299.2	6314.9	6355.3	6415.8	6707.6	7394.3	7620.9	8229.1	8597.1	7441.4
35°	6664.9	6640.3	6712.1	6799.6	6893.8	7302.3	8060.8	8258.2	8859.7	9281.5	7935.1
37.5°	6985.8	6974.6	7125.0	7309.0	7504.2	8015.9	8738.5	8891.1	9400.5	10026.6	8538.8
40°	7306.8	7304.5	7562.6	7885.7	8197.7	8727.3	9252.4	9378.0	9730.4	10605.6	9117.7
42.5°	7665.8	7665.8	8022.6	8453.5	8868.6	9328.7	9629.4	9685.5	9878.5	10939.9	9553.1
45°	8009.1	8029.3	8442.3	8942.7	9434.1	9797.7	9889.7	9894.2	9939.1	11137.4	9914.4
47.5°	8280.7	8298.6	8792.3	9369.1	9898.7	10154.5	10168.0	10147.8	10098.4	11325.9	10192.6
50°	8500.6	8527.5	9043.7	9654.1	10217.3	10497.8	10601.1	10580.9	10455.2	11527.9	10387.9
52.5°	8608.3	8646.5	9131.2	9795.4	10571.9	11085.8	11373.0	11420.2	10989.3	11640.1	10574.1
55°	7746.6	7802.7	8249.3	9158.1	10769.4	11994.6	12445.7	12436.7	11568.3	11974.5	11027.4
57.5°	5850.3	5845.8	6216.1	7210.3	9198.5	12046.3	13105.5	13087.5	12109.1	12362.7	11492.0
60°	3983.3	3956.3	4055.1	4535.3	6431.6	9813.4	11927.3	12169.7	11725.4	11420.2	9757.3
62.5°	3278.6	3253.9	3222.5	3090.1	3693.8	6112.9	8240.3	8608.3	8550.0	7937.3	6119.6
65°	2683.9	2704.1	2791.6	2735.5	2569.5	3135.0	4277.2	4494.9	4108.9	3458.1	2138.6
67.5°	1979.3	1988.3	2102.7	2398.9	2309.2	2087.0	2012.9	2048.9	1200.6	552.0	356.8
70°	1169.2	1175.9	1281.4	1678.6	1873.8	1602.3	1359.9	1339.7	475.7	148.1	161.6
72.5°	662.0	648.5	668.7	798.9	1021.1	850.5	700.2	637.3	143.6	83.0	83.0
75°	314.2	305.2	262.6	246.8	224.4	143.6	89.8	76.3	35.9	33.7	33.7
77.5°	2.2	6.7	4.5	6.7	6.7	4.5	2.2	2.2	6.7	6.7	9.0
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°	8031.6	8031.6	8031.6	8031.6	8031.6	8031.6	8031.6	8031.6	8031.6	8031.6	8031.6
2.5°	7980.0	7912.7	7896.9	7892.5	7829.6	7762.3	7692.7	7665.8	7625.4	7600.7	7620.9
5°	7829.6	7733.1	7647.9	7569.3	7430.2	7277.6	7145.2	7059.9	6979.1	6925.3	6938.7
7.5°	7616.4	7490.8	7295.5	7095.8	6840.0	6611.1	6355.3	6198.2	6052.3	5971.5	6009.7
10°	7389.8	7223.7	6911.8	6572.9	6171.2	5812.2	5446.4	5147.9	4975.1	4811.3	4829.3
12.5°	7167.6	6947.7	6480.9	5967.0	5459.9	4930.3	4378.2	3965.3	3682.5	3478.3	3446.9
15°	6961.2	6678.4	6061.3	5383.6	4692.4	3987.7	3283.1	2692.9	2365.3	2163.3	2149.8
17.5°	6777.1	6427.1	5625.9	4773.2	3907.0	3004.8	2194.7	1752.6	1564.1	1476.6	1467.6
20°	6599.9	6173.5	5181.6	4153.8	3049.7	2109.4	1514.8	1310.5	1250.0	1214.1	1218.5
22.5°	6429.3	5897.5	4714.8	3467.1	2286.7	1481.1	1173.7	1095.1	1088.4	1092.9	1095.1
25°	6285.7	5643.9	4234.6	2805.1	1631.5	1128.8	980.7	958.2	978.4	1007.6	1012.1
27.5°	6211.6	5437.4	3765.6	2138.6	1180.4	917.8	850.5	859.5	895.4	926.8	931.3
30°	6231.8	5282.6	3280.9	1550.7	908.9	774.2	751.8	769.7	805.6	834.8	839.3
32.5°	6375.5	5204.0	2784.9	1128.8	747.3	675.5	666.5	680.0	711.4	733.8	736.1
35°	6660.5	5222.0	2313.7	864.0	641.8	601.4	599.2	608.1	623.9	639.6	641.8
37.5°	7080.1	5367.9	1849.1	718.1	581.2	552.0	543.1	543.1	554.3	561.0	565.5
40°	7531.2	5587.8	1481.1	635.1	538.6	507.2	489.2	482.5	491.5	500.4	502.7
42.5°	7903.7	5807.7	1202.8	576.7	504.9	462.3	439.8	435.4	446.6	462.3	466.8
45°	8188.7	5978.3	1003.1	529.6	466.8	419.6	395.0	395.0	415.2	442.1	446.6
47.5°	8449.0	6115.1	855.0	487.0	430.9	381.5	356.8	361.3	395.0	430.9	437.6
50°	8626.3	6225.1	745.0	448.8	401.7	350.1	327.6	336.6	377.0	419.6	426.4
52.5°	8817.0	6359.7	673.2	415.2	374.8	325.4	305.2	311.9	356.8	403.9	412.9
55°	9344.4	6810.8	671.0	370.3	327.6	291.7	282.8	285.0	329.9	383.7	395.0
57.5°	9775.2	7208.0	715.9	311.9	273.8	255.8	251.3	253.6	294.0	354.6	368.0
60°	8087.7	5601.2	592.4	258.1	228.9	224.4	217.7	222.2	260.3	314.2	325.4
62.5°	4786.6	3202.3	282.8	197.5	195.2	190.7	184.0	193.0	228.9	276.0	282.8
65°	1635.9	949.2	179.5	161.6	166.1	159.3	152.6	161.6	193.0	219.9	222.2
67.5°	314.2	251.3	143.6	134.6	136.9	123.4	121.2	130.2	148.1	152.6	150.4
70°	163.8	145.9	110.0	110.0	105.5	87.5	87.5	96.5	96.5	89.8	87.5
72.5°	85.3	80.8	71.8	80.8	67.3	53.9	53.9	58.3	53.9	44.9	44.9
75°	33.7	33.7	31.4	40.4	29.2	24.7	22.4	26.9	20.2	15.7	15.7
77.5°	9.0	9.0	9.0	11.2	6.7	6.7	4.5	4.5	2.2	0.0	0.0
80°	0.0	2.2	0.0	2.2	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)