

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: P638968

Luminaire Tested: GWS-SA4F-830-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638968
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-830-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) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15809 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

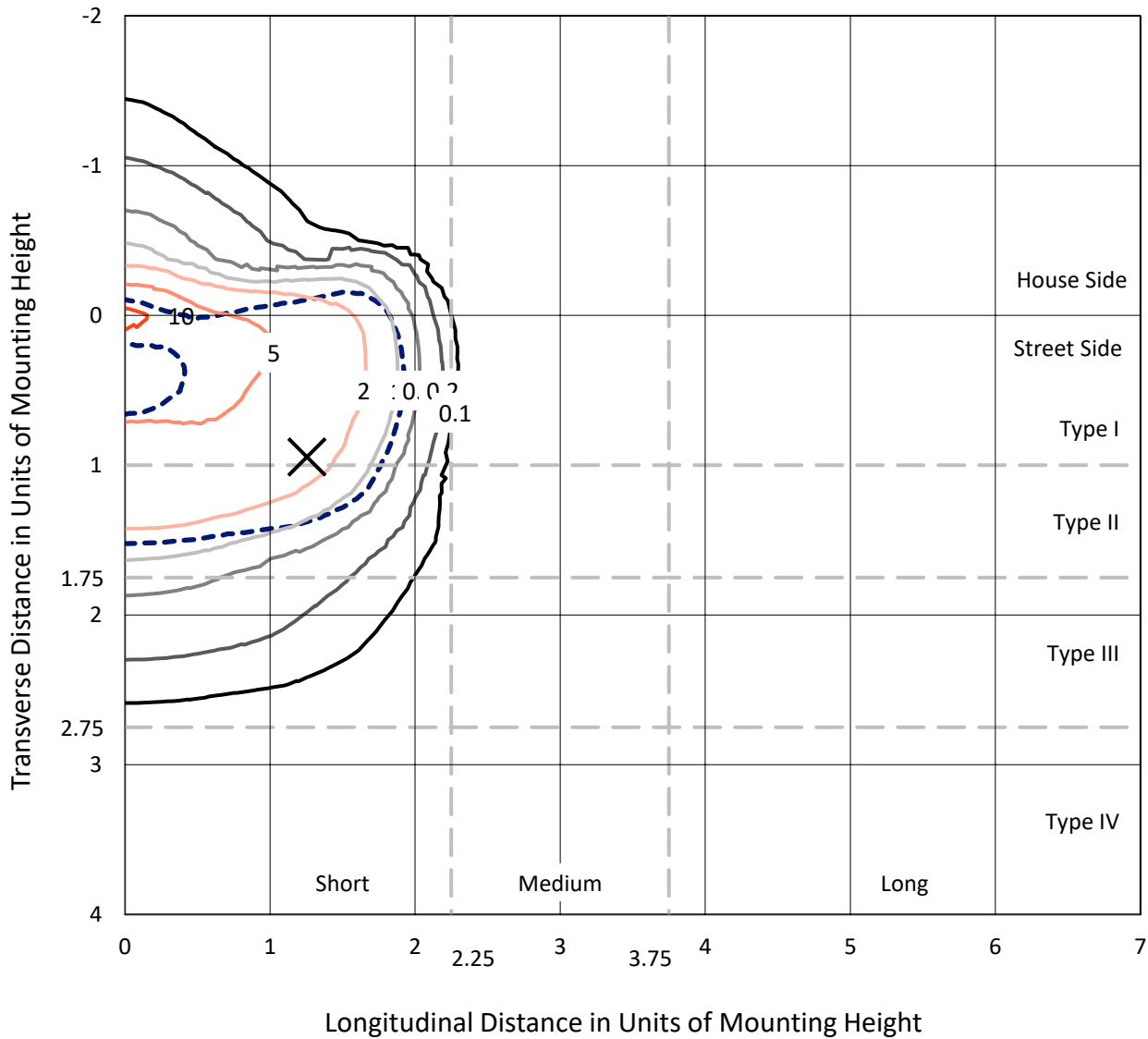
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

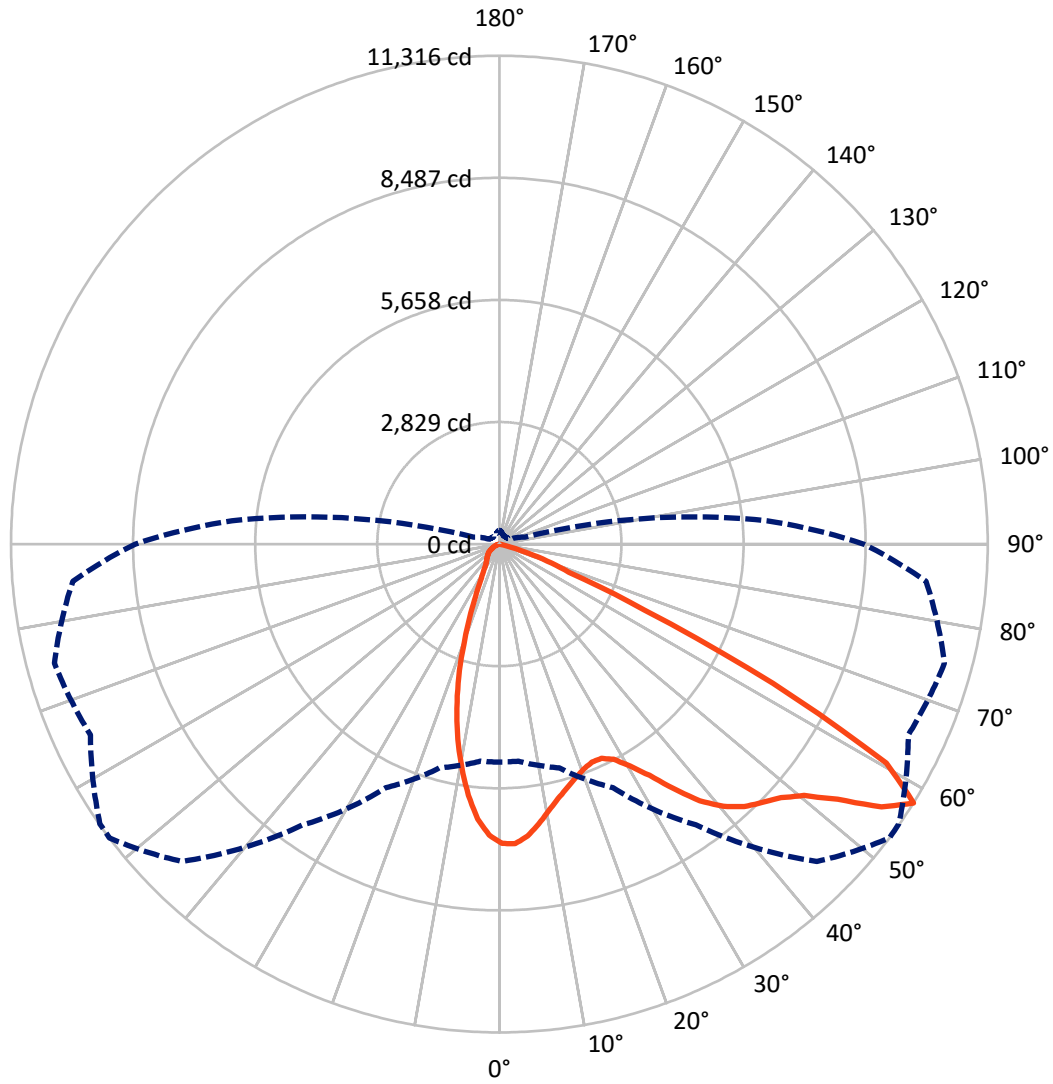
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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	2611.4	0.0	2611.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	13197.6	0.0	13197.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	15809.0	0.0	15809.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.3	3.8
10°-20°	1302.6	8.2
20°-30°	1696.9	10.7
30°-40°	2461.4	15.6
40°-50°	3551.6	22.5
50°-60°	4295.3	27.2
60°-70°	1750.6	11.1
70°-80°	157.3	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°	15809.0	100.0
0°-180°	15809.0	100.0

Coefficient of Utilization



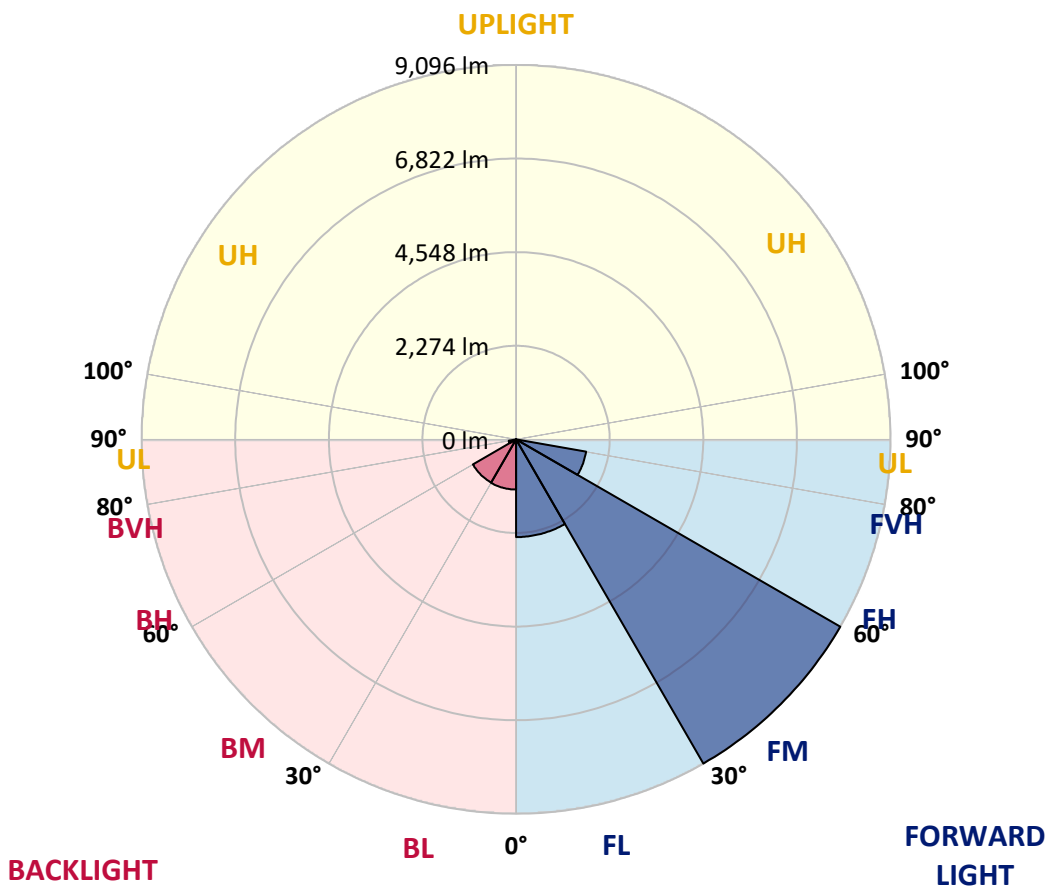
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2374.0	15.0			
FM (30°-60°)	9096.2	57.5			
FH (60°-80°)	1727.4	10.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1218.8	7.7	B3/2500		
BM (30°-60°)	1212.1	7.7	B2/2500		
BH (60°-80°)	180.5	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: 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°	6934.7	6934.7	6934.7	6934.7	6934.7	6934.7	6934.7	6934.7	6934.7	6934.7	6934.7
2.5°	6837.8	6853.3	6880.5	6915.4	6938.6	6950.2	6950.2	6983.2	6961.9	6944.4	6925.0
5°	6545.3	6560.8	6597.6	6653.8	6710.0	6750.7	6797.2	6832.0	6845.6	6845.6	6812.7
7.5°	6132.6	6153.9	6177.1	6254.6	6376.7	6467.8	6547.2	6597.6	6671.2	6694.5	6648.0
10°	5688.8	5710.2	5762.5	5869.0	6008.5	6144.2	6279.8	6343.8	6469.7	6535.6	6483.3
12.5°	5312.9	5322.6	5392.4	5520.3	5698.5	5884.5	6049.2	6115.1	6293.4	6392.2	6330.2
15°	5002.9	5008.7	5078.5	5219.9	5425.3	5654.0	5861.3	5929.1	6148.1	6297.3	6204.2
17.5°	4768.5	4770.4	4830.5	4983.5	5198.6	5452.5	5698.5	5781.8	6064.7	6244.9	6105.4
20°	4650.3	4644.5	4687.1	4820.8	5024.2	5278.1	5568.7	5671.4	6018.2	6237.2	6029.9
22.5°	4652.2	4638.7	4656.1	4751.0	4923.5	5161.8	5487.3	5603.6	6022.1	6270.1	5965.9
25°	4762.7	4743.3	4747.2	4797.5	4919.6	5136.6	5499.0	5623.0	6099.6	6380.6	5942.7
27.5°	4948.7	4927.4	4927.4	4952.5	5018.4	5216.1	5644.3	5785.7	6306.9	6595.6	5991.1
30°	5188.9	5167.6	5159.9	5185.1	5239.3	5421.5	5967.9	6115.1	6661.5	6948.3	6146.1
32.5°	5464.1	5438.9	5452.5	5487.3	5539.6	5791.5	6384.4	6580.1	7105.2	7423.0	6425.1
35°	5754.7	5733.4	5795.4	5871.0	5952.4	6305.0	6959.9	7130.4	7649.7	8014.0	6851.4
37.5°	6031.8	6022.1	6151.9	6310.8	6479.4	6921.2	7545.1	7676.8	8116.7	8657.3	7372.6
40°	6308.9	6306.9	6529.8	6808.8	7078.1	7535.4	7988.8	8097.3	8401.5	9157.2	7872.5
42.5°	6618.9	6618.9	6927.0	7299.0	7657.5	8054.7	8314.3	8362.8	8529.4	9445.9	8248.4
45°	6915.4	6932.8	7289.3	7721.4	8145.7	8459.6	8539.1	8543.0	8581.7	9616.4	8560.4
47.5°	7149.8	7165.3	7591.6	8089.5	8546.8	8767.7	8779.3	8761.9	8719.3	9779.1	8800.7
50°	7339.7	7362.9	7808.6	8335.6	8822.0	9064.2	9153.3	9135.9	9027.4	9953.5	8969.2
52.5°	7432.7	7465.6	7884.2	8457.7	9128.1	9571.8	9819.8	9860.5	9488.5	10050.4	9130.0
55°	6688.7	6737.1	7122.7	7907.4	9298.6	10356.6	10746.0	10738.3	9988.4	10339.1	9521.4
57.5°	5051.4	5047.5	5367.2	6225.6	7942.3	10401.1	11315.7	11300.2	10455.4	10674.3	9922.5
60°	3439.3	3416.0	3501.3	3915.9	5553.2	8473.2	10298.4	10507.7	10124.0	9860.5	8424.8
62.5°	2830.9	2809.5	2782.4	2668.1	3189.3	5278.1	7114.9	7432.7	7382.3	6853.3	5283.9
65°	2317.4	2334.8	2410.4	2362.0	2218.6	2706.8	3693.1	3881.0	3547.8	2985.9	1846.5
67.5°	1709.0	1716.7	1815.5	2071.3	1993.8	1802.0	1738.0	1769.0	1036.6	476.7	308.1
70°	1009.5	1015.3	1106.4	1449.3	1617.9	1383.5	1174.2	1156.8	410.8	127.9	139.5
72.5°	571.6	560.0	577.4	689.8	881.6	734.4	604.5	550.3	124.0	71.7	71.7
75°	271.3	263.5	226.7	213.1	193.8	124.0	77.5	65.9	31.0	29.1	29.1
77.5°	1.9	5.8	3.9	5.8	5.8	3.9	1.9	1.9	5.8	5.8	7.8
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°	6934.7	6934.7	6934.7	6934.7	6934.7	6934.7	6934.7	6934.7	6934.7	6934.7	6934.7
2.5°	6890.2	6832.0	6818.5	6814.6	6760.3	6702.2	6642.1	6618.9	6584.0	6562.7	6580.1
5°	6760.3	6677.0	6603.4	6535.6	6415.4	6283.7	6169.4	6095.7	6026.0	5979.5	5991.1
7.5°	6576.3	6467.8	6299.2	6126.7	5905.9	5708.2	5487.3	5351.7	5225.8	5156.0	5188.9
10°	6380.6	6237.2	5967.9	5675.3	5328.4	5018.4	4702.6	4444.9	4295.7	4154.2	4169.8
12.5°	6188.7	5998.9	5595.8	5152.1	4714.2	4256.9	3780.3	3423.8	3179.6	3003.3	2976.2
15°	6010.5	5766.3	5233.5	4648.3	4051.6	3443.1	2834.7	2325.1	2042.2	1867.9	1856.2
17.5°	5851.6	5549.3	4857.6	4121.3	3373.4	2594.5	1895.0	1513.3	1350.5	1275.0	1267.2
20°	5698.5	5330.4	4474.0	3586.5	2633.2	1821.4	1307.9	1131.6	1079.3	1048.3	1052.1
22.5°	5551.3	5092.1	4070.9	2993.6	1974.4	1278.8	1013.4	945.6	939.7	943.6	945.6
25°	5427.3	4873.1	3656.3	2422.0	1408.6	974.6	846.7	827.4	844.8	870.0	873.9
27.5°	5363.3	4694.8	3251.3	1846.5	1019.2	792.5	734.4	742.1	773.1	800.2	804.1
30°	5380.8	4561.1	2832.8	1338.9	784.7	668.5	649.1	664.6	695.6	720.8	724.7
32.5°	5504.8	4493.3	2404.6	974.6	645.2	583.2	575.5	587.1	614.2	633.6	635.5
35°	5750.8	4508.8	1997.7	746.0	554.2	519.3	517.3	525.1	538.7	552.2	554.2
37.5°	6113.2	4634.8	1596.6	620.0	501.8	476.7	468.9	468.9	478.6	484.4	488.3
40°	6502.6	4824.7	1278.8	548.3	465.0	437.9	422.4	416.6	424.3	432.1	434.0
42.5°	6824.3	5014.6	1038.6	498.0	436.0	399.1	379.8	375.9	385.6	399.1	403.0
45°	7070.4	5161.8	866.1	457.3	403.0	362.3	341.0	341.0	358.5	381.7	385.6
47.5°	7295.1	5280.0	738.2	420.5	372.0	329.4	308.1	312.0	341.0	372.0	377.8
50°	7448.2	5374.9	643.3	387.5	346.8	302.3	282.9	290.6	325.5	362.3	368.1
52.5°	7612.9	5491.2	581.3	358.5	323.6	281.0	263.5	269.3	308.1	348.8	356.5
55°	8068.2	5880.7	579.3	319.7	282.9	251.9	244.1	246.1	284.8	331.3	341.0
57.5°	8440.3	6223.6	618.1	269.3	236.4	220.9	217.0	219.0	253.8	306.1	317.8
60°	6983.2	4836.3	511.5	222.8	197.6	193.8	187.9	191.8	224.8	271.3	281.0
62.5°	4132.9	2765.0	244.1	170.5	168.6	164.7	158.9	166.6	197.6	238.3	244.1
65°	1412.5	819.6	155.0	139.5	143.4	137.6	131.8	139.5	166.6	189.9	191.8
67.5°	271.3	217.0	124.0	116.3	118.2	106.6	104.6	112.4	127.9	131.8	129.8
70°	141.4	125.9	94.9	94.9	91.1	75.6	75.6	83.3	83.3	77.5	75.6
72.5°	73.6	69.8	62.0	69.8	58.1	46.5	46.5	50.4	46.5	38.8	38.8
75°	29.1	29.1	27.1	34.9	25.2	21.3	19.4	23.3	17.4	13.6	13.6
77.5°	7.8	7.8	7.8	9.7	5.8	5.8	3.9	3.9	1.9	0.0	0.0
80°	0.0	1.9	0.0	1.9	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)