

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: P643746

Luminaire Tested: GWS-SA6F-750-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-750-U-RW-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32996.3 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

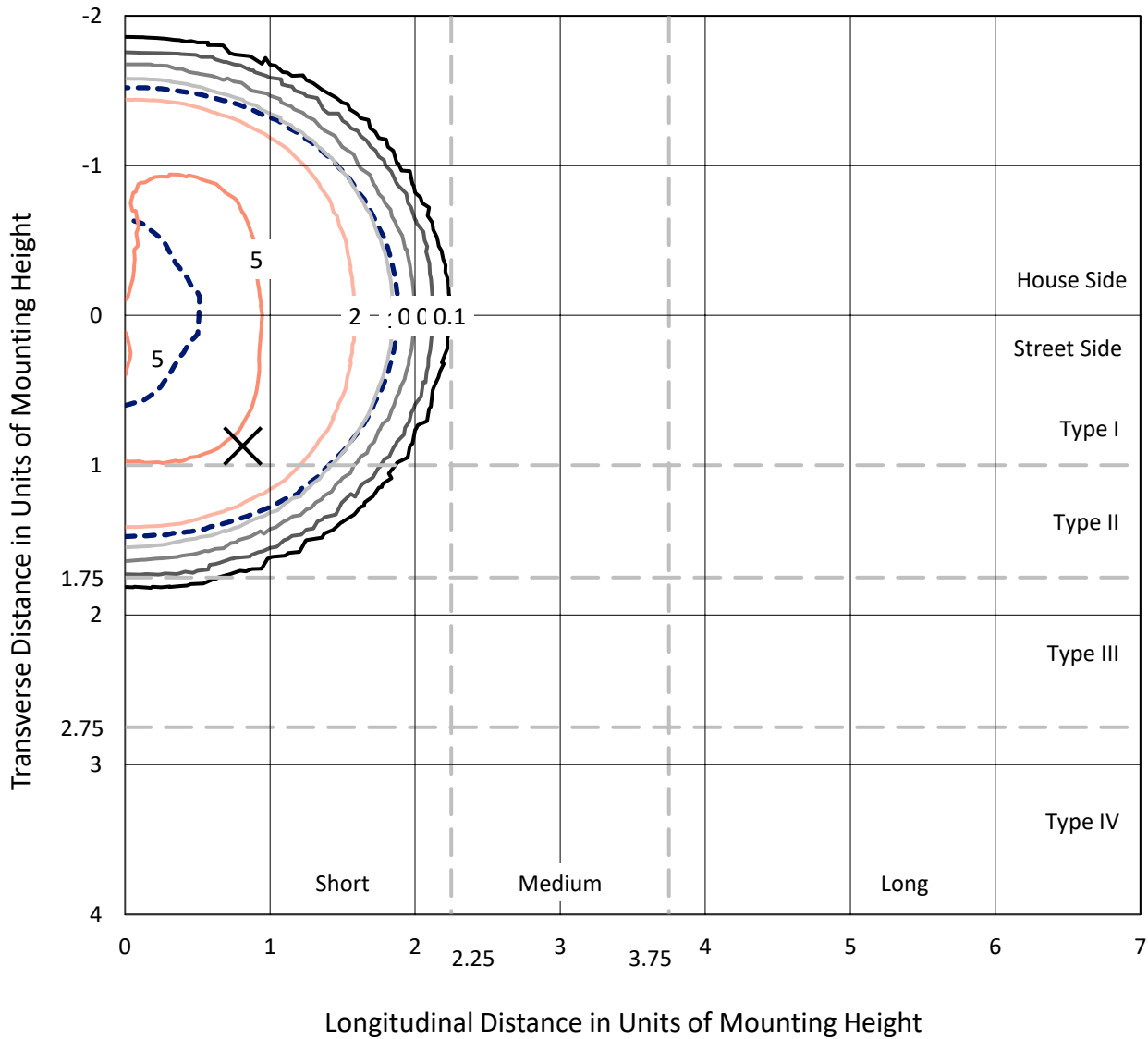
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

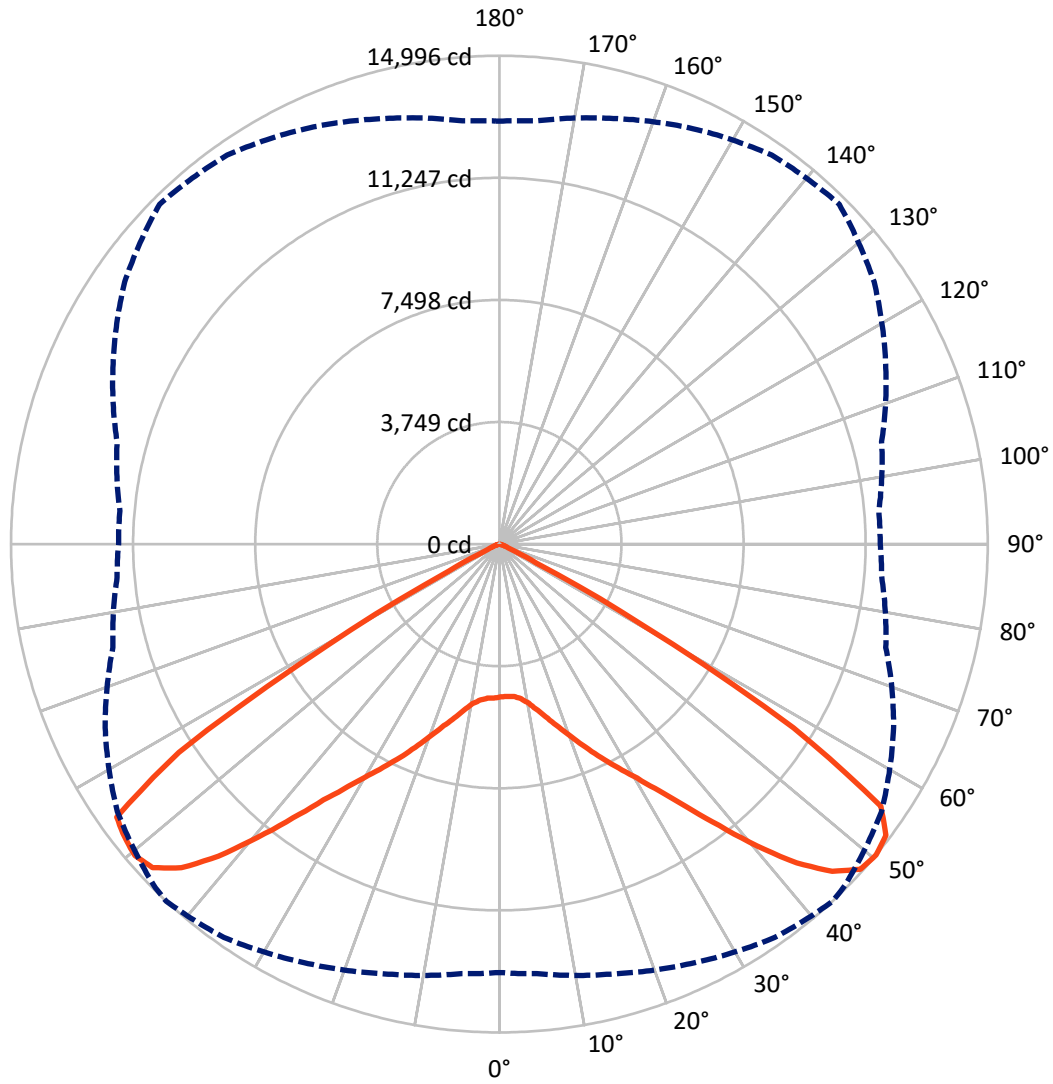
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16497.7	0.0	16497.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16498.5	0.0	16498.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32996.3	0.0	32996.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.2	1.4
10°-20°	1590.5	4.8
20°-30°	3217.8	9.8
30°-40°	5970.1	18.1
40°-50°	9910.0	30.0
50°-60°	10113.6	30.7
60°-70°	1658.5	5.0
70°-80°	72.6	0.2
80°-90°	1.0	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°	32996.3	100.0
0°-180°	32996.3	100.0

Coefficient of Utilization



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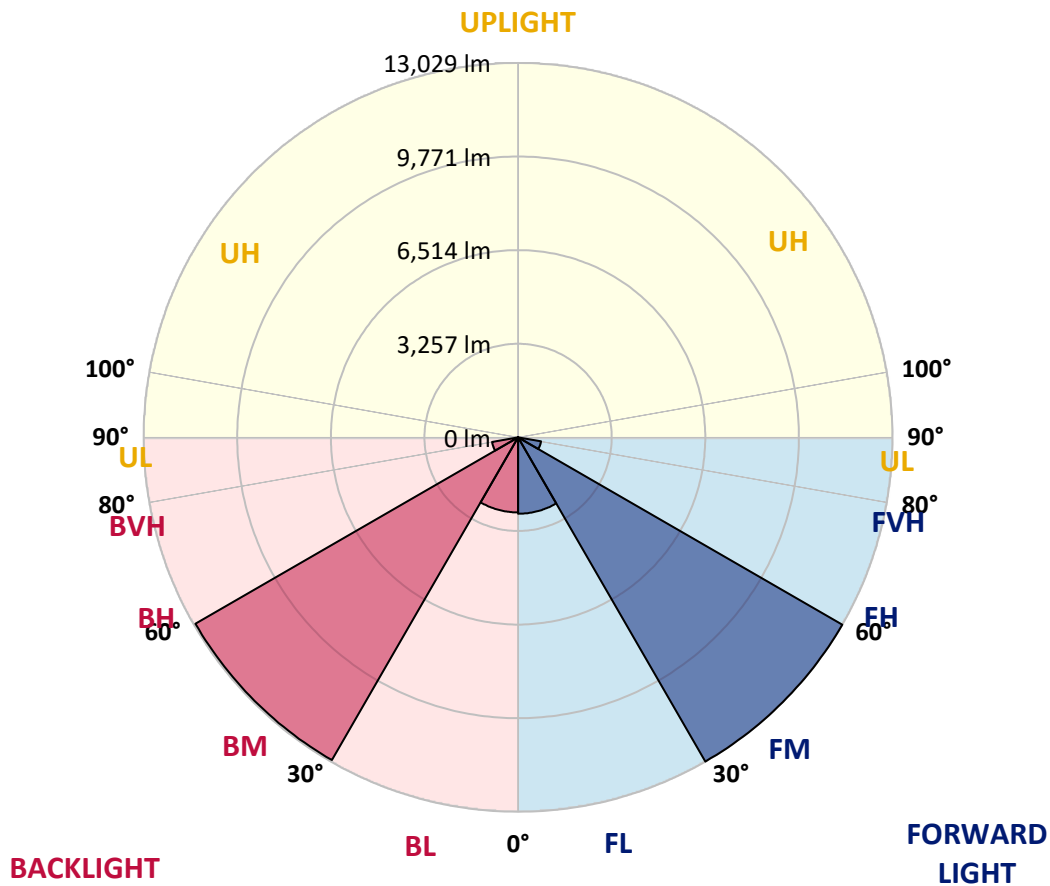
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2658.3	8.1			
FM (30°-60°)	13028.5	39.5			
FH (60°-80°)	811.4	2.5			G1/1800
FVH (80°-90°)	0.4	0.0			G0/10
BL (0°-30°)	2612.1	7.9	B4/5000		
BM (30°-60°)	12965.2	39.3	B5		
BH (60°-80°)	919.8	2.8	B2/1000		G1/1800
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	4693.2	4693.2	4693.2	4693.2	4693.2	4693.2	4693.2	4693.2	4693.2	4693.2	4693.2
2.5°	4605.6	4616.6	4631.2	4645.8	4664.0	4682.3	4693.2	4726.0	4718.7	4747.9	4747.9
5°	4554.5	4565.5	4583.7	4616.6	4656.7	4696.9	4726.0	4791.7	4828.2	4886.6	4908.5
7.5°	4580.1	4594.7	4616.6	4667.7	4729.7	4791.7	4824.6	4930.4	5003.4	5112.9	5174.9
10°	4664.0	4678.6	4715.1	4802.7	4883.0	4970.6	5010.7	5145.7	5262.5	5412.1	5499.7
12.5°	4758.9	4777.1	4850.1	4981.5	5120.2	5237.0	5291.7	5441.3	5561.8	5729.6	5868.3
15°	4857.4	4886.6	4999.8	5193.2	5390.2	5547.2	5605.6	5766.1	5886.6	6065.4	6222.3
17.5°	5087.3	5120.2	5247.9	5455.9	5726.0	5908.5	5959.6	6127.4	6218.7	6339.1	6503.3
20°	5375.7	5437.7	5594.6	5846.4	6142.0	6317.2	6353.7	6517.9	6510.6	6561.7	6704.1
22.5°	5733.3	5777.1	5948.6	6247.9	6580.0	6773.4	6857.3	6926.7	6835.4	6791.6	6882.9
25°	6105.5	6156.6	6342.8	6671.2	7043.5	7266.1	7335.4	7390.2	7244.2	7079.9	7090.9
27.5°	6587.3	6623.8	6806.2	7156.6	7528.8	7780.6	7842.7	7937.6	7744.1	7481.4	7408.4
30°	7160.2	7196.7	7390.2	7758.7	8127.3	8342.7	8437.5	8554.3	8342.7	8014.2	7930.3
32.5°	7831.7	7868.2	8116.4	8495.9	8798.8	9032.4	9123.6	9247.7	9079.8	8711.3	8616.4
35°	8634.6	8656.5	8948.5	9360.9	9682.0	9908.3	9970.3	10116.3	9930.2	9561.6	9510.5
37.5°	9565.2	9590.8	9908.3	10386.4	10714.8	10966.6	11065.2	11105.3	10879.0	10466.6	10426.5
40°	10587.1	10671.0	10981.2	11495.8	11864.4	12181.9	12269.5	12134.4	11816.9	11254.9	11181.9
42.5°	11652.7	11725.7	12072.4	12630.8	13057.8	13382.6	13386.2	13094.3	12554.1	11776.8	11667.3
45°	12539.5	12568.7	13017.6	13579.6	14105.2	14335.1	14357.0	13827.8	13014.0	12079.7	11846.1
47.5°	13149.0	13196.4	13586.9	14127.0	14707.3	14915.3	14871.5	14211.0	13232.9	12276.8	11889.9
50°	13156.3	13236.6	13659.9	14181.8	14743.8	14995.6	14933.6	14320.5	13357.0	12284.1	11784.1
52.5°	11992.1	12123.5	12813.2	13568.7	14430.0	14860.6	14875.2	14462.8	13309.6	12167.3	11689.2
55°	9047.0	9189.3	10057.9	11346.2	13010.3	14211.0	14419.0	14294.9	13254.8	12218.4	11857.1
57.5°	4788.1	4678.6	5160.3	6437.6	8528.8	10652.8	11262.2	12254.9	12645.4	12280.4	12167.3
60°	1043.7	1113.1	1481.7	1996.3	3328.3	5010.7	5605.6	7306.2	9328.0	10225.8	10875.4
62.5°	448.9	441.6	459.8	521.9	762.7	1270.0	1551.0	2532.7	3996.2	5488.8	6499.7
65°	368.6	372.2	386.8	386.8	361.3	364.9	383.2	580.3	934.3	1310.2	1759.0
67.5°	277.4	281.0	306.6	313.9	295.6	262.8	259.1	219.0	229.9	288.3	299.3
70°	175.2	175.2	189.8	197.1	197.1	182.5	178.8	156.9	153.3	175.2	197.1
72.5°	94.9	94.9	102.2	105.8	102.2	98.5	98.5	94.9	91.2	105.8	135.0
75°	40.1	40.1	43.8	43.8	40.1	40.1	40.1	40.1	40.1	47.4	73.0
77.5°	7.3	10.9	14.6	10.9	7.3	7.3	7.3	10.9	10.9	14.6	21.9
80°	3.6	3.6	7.3	3.6	0.0	0.0	0.0	0.0	3.6	3.6	3.6
82.5°	3.6	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
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°	4693.2	4693.2	4693.2	4693.2	4693.2	4693.2	4693.2	4693.2	4693.2	4693.2	4693.2
2.5°	4773.5	4733.3	4747.9	4755.2	4744.3	4737.0	4696.9	4685.9	4667.7	4638.5	4631.2
5°	4934.1	4901.2	4897.6	4875.7	4824.6	4762.5	4685.9	4653.1	4616.6	4580.1	4572.8
7.5°	5204.1	5164.0	5138.4	5065.4	4948.7	4850.1	4722.4	4653.1	4605.6	4558.2	4547.2
10°	5550.8	5503.4	5430.4	5295.4	5138.4	4996.1	4846.5	4755.2	4682.3	4616.6	4612.9
12.5°	5919.4	5868.3	5736.9	5565.4	5375.7	5244.3	5054.5	4926.8	4817.3	4718.7	4707.8
15°	6306.3	6244.2	6065.4	5861.0	5685.9	5550.8	5342.8	5138.4	4970.6	4828.2	4813.6
17.5°	6601.9	6525.2	6313.6	6160.3	6018.0	5879.3	5645.7	5375.7	5153.0	4981.5	4941.4
20°	6788.0	6715.0	6514.3	6430.3	6364.7	6266.1	5988.8	5707.8	5459.6	5247.9	5211.4
22.5°	6966.8	6879.2	6704.1	6704.1	6755.1	6715.0	6415.7	6094.6	5802.6	5558.1	5503.4
25°	7167.5	7098.2	6974.1	7076.3	7204.0	7200.4	6893.8	6492.4	6156.6	5882.9	5828.2
27.5°	7459.5	7390.2	7346.4	7539.8	7700.4	7689.4	7353.7	6919.4	6565.4	6295.3	6244.2
30°	7974.1	7908.4	7860.9	8094.5	8298.9	8222.2	7853.6	7433.9	7076.3	6769.7	6733.2
32.5°	8660.2	8590.8	8528.8	8762.3	8944.8	8846.3	8495.9	8101.8	7689.4	7390.2	7317.2
35°	9561.6	9415.6	9353.6	9630.9	9707.6	9598.1	9262.3	8915.6	8477.7	8134.6	8087.2
37.5°	10492.2	10320.7	10276.9	10517.7	10641.8	10601.7	10207.5	9846.2	9371.8	8992.3	8937.5
40°	11287.8	11130.8	11054.2	11430.1	11711.1	11736.7	11382.7	10941.1	10382.7	9988.6	9890.0
42.5°	11754.9	11619.9	11601.6	12185.5	12645.4	12973.8	12550.5	12094.3	11506.7	11061.5	10981.2
45°	11860.7	11773.1	11926.4	12692.8	13408.1	14006.6	13645.3	13163.6	12528.6	12057.8	11981.2
47.5°	11849.8	11820.6	12094.3	12955.6	13860.6	14597.8	14419.0	13875.2	13262.1	12769.5	12696.5
50°	11692.9	11696.5	12152.7	13087.0	14043.1	14758.4	14579.6	14076.0	13528.5	13043.2	12984.8
52.5°	11630.8	11608.9	12043.2	13046.8	14229.2	14685.4	14284.0	13718.3	13108.8	12510.3	12422.8
55°	11849.8	11795.0	12057.8	13014.0	14251.1	14645.3	13586.9	12360.7	11112.6	10404.6	10346.2
57.5°	12178.2	12119.8	12243.9	12773.1	13108.8	12178.2	9999.5	8021.5	6736.9	6193.1	5955.9
60°	10875.4	10835.2	10740.4	10101.7	8663.8	6536.2	4452.3	2839.3	2040.0	1649.6	1649.6
62.5°	6747.8	6693.1	6178.5	4591.0	3335.6	1930.6	1062.0	664.2	503.6	470.8	467.1
65°	1894.1	1883.1	1558.3	1102.1	700.7	434.3	383.2	390.5	383.2	372.2	368.6
67.5°	284.7	313.9	313.9	255.5	244.5	273.7	321.2	343.0	324.8	306.6	299.3
70°	182.5	197.1	189.8	164.2	175.2	204.4	229.9	233.6	222.6	204.4	200.7
72.5°	127.7	142.3	116.8	105.8	109.5	120.4	131.4	131.4	127.7	120.4	113.1
75°	76.6	76.6	54.7	51.1	51.1	54.7	54.7	62.0	62.0	58.4	54.7
77.5°	25.5	29.2	18.2	14.6	14.6	14.6	18.2	21.9	21.9	18.2	14.6
80°	3.6	7.3	3.6	3.6	3.6	3.6	3.6	3.6	7.3	7.3	3.6
82.5°	3.6	3.6	3.6	0.0	0.0	0.0	0.0	3.6	3.6	3.6	3.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.6
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)