

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: P643778

Luminaire Tested: GWS-SA6F-750-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643778
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-750-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37375.9 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

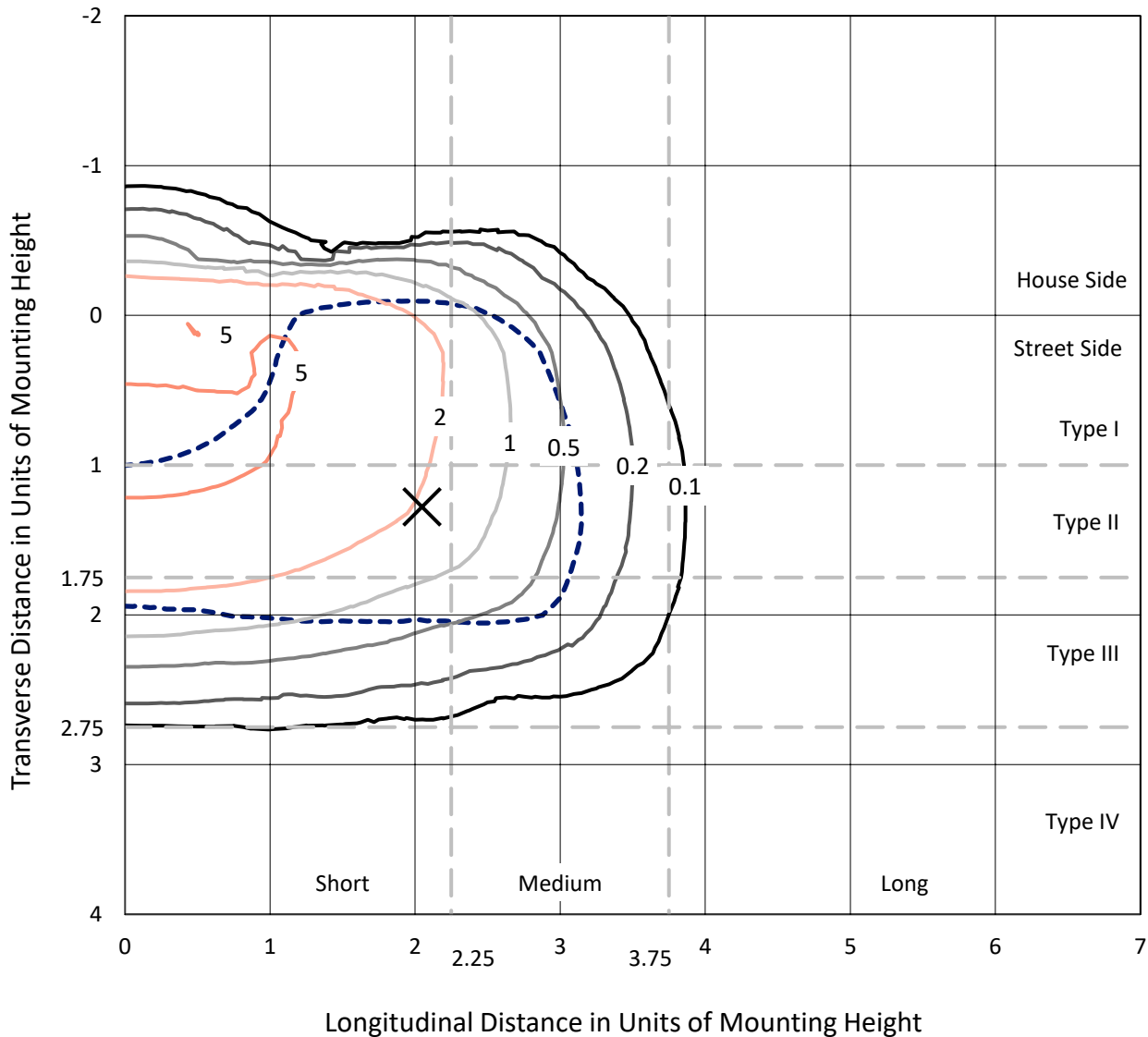
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

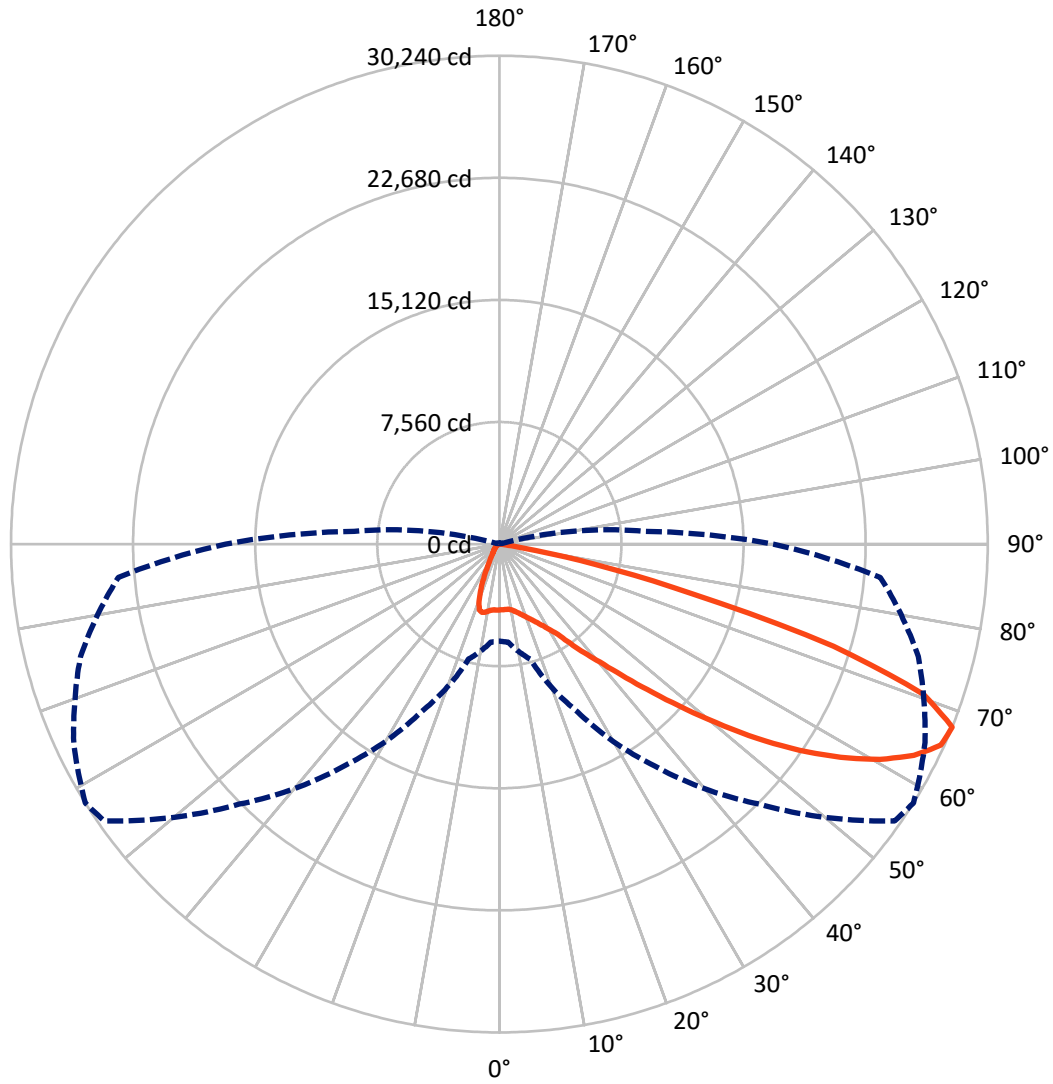
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4077.6	0.0	4077.6
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	33298.3	0.0	33298.3
	% Fixture	89.1	0.0	89.1
Total	Lumens	37375.9	0.0	37375.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.6	1.0
10°-20°	1074.2	2.9
20°-30°	1875.1	5.0
30°-40°	3348.7	9.0
40°-50°	6120.7	16.4
50°-60°	10179.4	27.2
60°-70°	11056.5	29.6
70°-80°	3246.3	8.7
80°-90°	92.4	0.2
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°	37375.9	100.0
0°-180°	37375.9	100.0

Coefficient of Utilization



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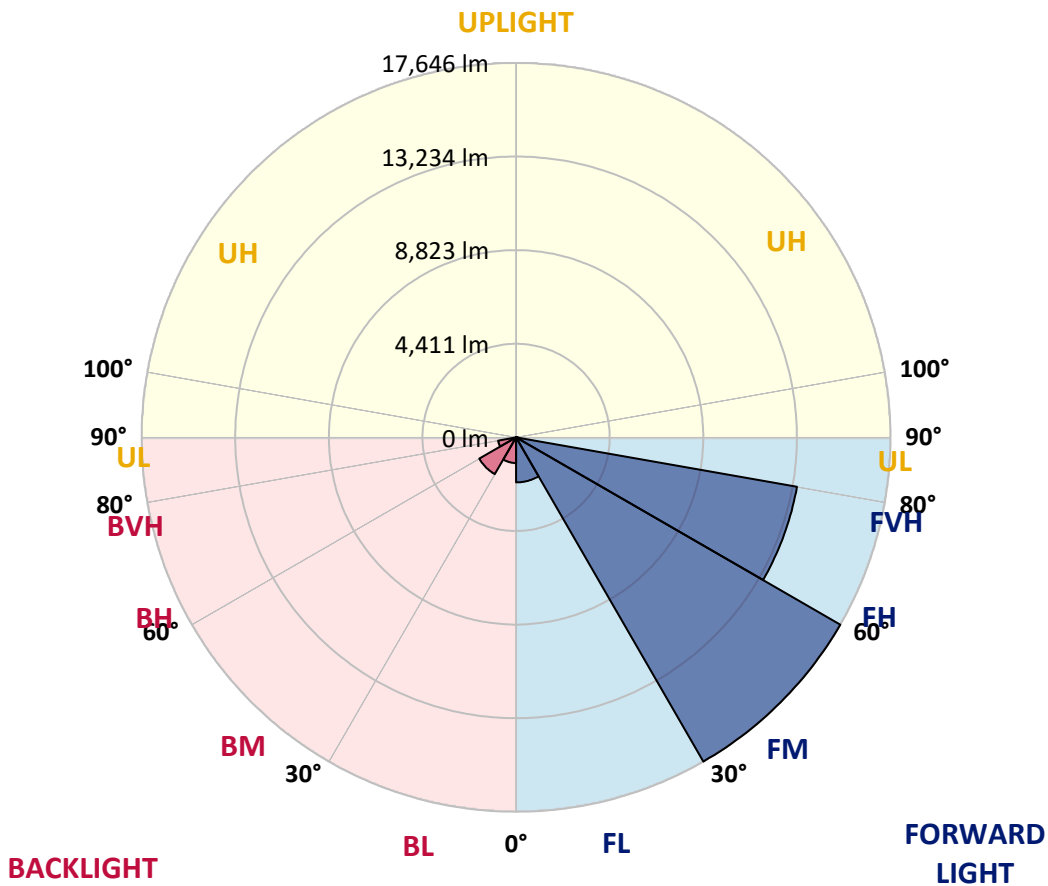
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2122.4	5.7			
FM (30°-60°)	17645.9	47.2			
FH (60°-80°)	13442.1	36.0			G5
FVH (80°-90°)	87.9	0.2			G1/100
BL (0°-30°)	1209.5	3.2	B3/2500		
BM (30°-60°)	2002.8	5.4	B2/2500		
BH (60°-80°)	860.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.5	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4072.9	4072.9	4072.9	4072.9	4072.9	4072.9	4072.9	4072.9	4072.9	4072.9	4072.9
2.5°	3996.2	3988.9	3988.9	4018.1	4021.8	4036.4	4069.2	4072.9	4091.1	4083.8	4058.3
5°	3788.2	3791.8	3813.7	3864.8	3908.6	3963.4	4043.7	4061.9	4102.1	4123.9	4109.4
7.5°	3594.8	3598.4	3631.3	3711.6	3795.5	3905.0	4036.4	4072.9	4153.1	4211.5	4215.2
10°	3521.8	3518.1	3551.0	3642.2	3751.7	3905.0	4094.8	4142.2	4262.6	4364.8	4383.1
12.5°	3543.7	3540.0	3572.9	3656.8	3777.2	3970.7	4196.9	4262.6	4415.9	4572.8	4605.7
15°	3631.3	3627.6	3649.5	3718.9	3850.2	4051.0	4328.3	4426.9	4620.3	4810.1	4861.2
17.5°	3894.0	3875.8	3853.9	3861.2	3937.8	4145.8	4496.2	4616.6	4857.5	5083.8	5127.6
20°	4361.2	4313.7	4255.3	4178.7	4142.2	4284.5	4689.6	4828.3	5120.3	5379.4	5386.7
22.5°	5065.5	5047.3	4912.2	4689.6	4532.7	4536.3	4915.9	5076.5	5434.1	5718.8	5678.6
25°	6047.2	6036.3	5828.3	5463.3	5054.6	4915.9	5204.2	5368.4	5806.4	6109.3	5981.6
27.5°	7266.2	7189.5	6945.0	6452.3	5842.9	5408.6	5569.2	5715.1	6200.5	6485.2	6244.3
30°	8328.2	8331.8	8101.9	7587.3	6901.2	6149.4	6014.4	6142.1	6561.8	6861.1	6569.1
32.5°	9350.1	9382.9	9131.1	8667.6	7915.8	7116.6	6653.1	6675.0	7025.3	7350.1	6996.1
35°	10298.9	10324.5	10149.3	9755.1	9054.4	8127.5	7543.5	7532.6	7722.4	8054.5	7591.0
37.5°	11360.9	11386.5	11215.0	10861.0	10204.0	9284.4	8554.5	8539.9	8616.5	8886.6	8357.4
40°	12492.3	12539.7	12350.0	12050.7	11423.0	10645.6	9729.6	9598.2	9521.6	9839.1	9350.1
42.5°	13638.2	13711.2	13645.5	13346.3	12809.8	12167.5	11255.1	11050.7	10886.5	11284.3	10766.1
45°	15061.5	15149.1	15119.9	14890.0	14474.0	13952.1	13090.8	12853.6	12776.9	13145.5	12528.8
47.5°	16430.1	16525.0	16630.8	16579.7	16284.1	16043.3	15087.1	14952.1	14930.2	15324.3	14368.1
50°	17448.3	17535.9	17941.0	18233.0	18433.7	18382.6	17554.2	17353.4	17320.6	17572.4	16309.7
52.5°	18178.2	18262.2	18820.5	19732.9	20470.1	20871.6	20035.8	19992.0	19813.2	19725.6	18127.1
55°	18743.9	18860.7	19448.3	20827.8	22313.1	23203.6	22681.7	22524.8	22065.0	21561.3	19813.2
57.5°	18857.0	18904.5	19732.9	21594.2	23743.7	25185.3	25185.3	24911.6	24024.7	23327.7	21762.0
60°	17842.5	17988.4	19108.8	21532.1	24356.8	26480.9	27261.9	27072.1	25875.0	25017.4	23637.9
62.5°	15590.7	15754.9	17119.9	20046.8	23743.7	26747.3	28834.8	28805.6	27455.3	26415.2	25192.6
65°	11955.8	12076.2	13266.0	16769.5	21152.6	25721.8	29958.9	30039.1	28703.4	27338.5	25729.1
67.5°	6007.1	6091.0	7375.7	11455.8	16765.9	22769.3	29882.2	30239.9	29083.0	26849.5	23681.7
70°	2098.5	2182.4	2788.2	4915.9	10204.0	17386.3	27298.4	27882.3	26853.1	22918.9	17470.2
72.5°	719.0	759.1	1156.9	1824.8	3970.7	10306.2	20758.4	21638.0	19795.0	15386.3	10039.8
75°	408.7	434.3	620.4	989.0	1664.2	3390.4	11777.0	12317.1	11539.8	8386.6	4131.2
77.5°	277.4	299.3	386.8	562.0	919.7	1091.2	4802.8	6047.2	5273.5	2737.1	1054.7
80°	164.2	178.8	237.2	332.1	470.8	423.3	1029.2	1368.6	1762.7	817.5	317.5
82.5°	76.6	87.6	153.3	219.0	237.2	178.8	302.9	368.6	496.3	401.4	131.4
85°	0.0	0.0	51.1	91.2	87.6	51.1	83.9	91.2	135.0	200.7	51.1
87.5°	0.0	0.0	0.0	0.0	0.0	3.6	7.3	10.9	21.9	40.1	21.9
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°	4072.9	4072.9	4072.9	4072.9	4072.9	4072.9	4072.9	4072.9	4072.9	4072.9	4072.9
2.5°	4087.5	4061.9	4091.1	4076.5	4091.1	4087.5	4058.3	4040.0	4040.0	4007.2	3996.2
5°	4138.5	4113.0	4120.3	4087.5	4080.2	4061.9	4025.4	4010.8	4010.8	3978.0	3967.0
7.5°	4251.7	4211.5	4204.2	4138.5	4109.4	4058.3	3992.6	3967.0	3963.4	3930.5	3919.6
10°	4430.5	4383.1	4350.2	4266.3	4182.3	4080.2	3941.5	3824.7	3759.0	3671.4	3664.1
12.5°	4649.5	4591.1	4540.0	4412.3	4273.6	4043.7	3634.9	3207.9	2945.2	2737.1	2751.7
15°	4894.0	4839.3	4759.0	4565.5	4280.9	3682.4	2828.4	2171.5	1850.3	1678.8	1671.5
17.5°	5160.4	5080.1	4948.7	4686.0	4051.0	2813.8	1839.4	1299.2	1131.3	1073.0	1058.4
20°	5408.6	5310.0	5145.8	4711.5	3386.7	1905.0	1149.6	1007.3	978.1	959.8	959.8
22.5°	5671.3	5547.3	5302.7	4514.4	2518.2	1218.9	978.1	945.2	923.3	897.8	894.1
25°	5937.8	5777.2	5445.1	3999.9	1649.6	959.8	916.0	879.5	839.4	799.2	788.3
27.5°	6164.0	5956.0	5554.6	3233.5	1058.4	864.9	835.7	773.7	719.0	675.2	667.9
30°	6434.1	6167.7	5602.0	2364.9	832.1	762.7	719.0	653.3	587.6	543.8	529.2
32.5°	6795.4	6503.4	5529.0	1540.1	737.2	671.5	602.2	525.5	459.8	412.4	405.1
35°	7357.4	7010.7	5193.3	981.7	667.9	580.3	496.3	416.0	361.3	324.8	317.5
37.5°	8043.5	7722.4	4642.2	737.2	598.5	503.6	405.1	328.5	288.3	262.8	255.5
40°	9061.7	8612.9	3959.7	646.0	529.2	427.0	332.1	270.1	240.9	219.0	211.7
42.5°	10382.9	9663.9	3175.1	587.6	463.5	357.7	270.1	222.6	197.1	182.5	178.8
45°	11926.6	10689.4	2346.6	529.2	401.4	295.6	222.6	182.5	164.2	153.3	149.6
47.5°	13506.8	11587.2	1620.4	467.1	343.1	244.5	186.1	156.9	142.3	127.7	124.1
50°	15192.9	12346.3	1105.8	405.1	292.0	200.7	160.6	142.3	124.1	113.1	109.5
52.5°	16430.1	12627.3	770.0	350.4	248.2	171.5	142.3	127.7	113.1	98.5	94.9
55°	17572.4	12620.0	583.9	295.6	211.7	149.6	127.7	113.1	98.5	87.6	83.9
57.5°	18711.1	12521.5	459.8	251.8	182.5	135.0	113.1	98.5	91.2	76.6	73.0
60°	19448.3	12149.2	357.7	211.7	156.9	116.8	98.5	87.6	76.6	65.7	62.0
62.5°	19838.8	11631.0	273.7	167.9	127.7	102.2	87.6	76.6	65.7	54.7	51.1
65°	19309.6	10711.3	215.3	131.4	98.5	87.6	73.0	62.0	51.1	40.1	36.5
67.5°	16962.9	9032.5	167.9	105.8	76.6	65.7	62.0	51.1	36.5	29.2	25.5
70°	11988.7	6185.9	131.4	80.3	58.4	51.1	47.4	40.1	29.2	21.9	18.2
72.5°	6580.1	3120.3	94.9	58.4	43.8	40.1	36.5	32.8	25.5	18.2	18.2
75°	2532.8	857.6	69.3	40.1	29.2	29.2	25.5	25.5	21.9	14.6	14.6
77.5°	660.6	255.5	43.8	25.5	18.2	18.2	18.2	14.6	14.6	10.9	10.9
80°	211.7	83.9	25.5	18.2	14.6	10.9	10.9	7.3	10.9	7.3	7.3
82.5°	69.3	29.2	14.6	14.6	10.9	7.3	7.3	3.6	3.6	0.0	0.0
85°	25.5	14.6	10.9	7.3	7.3	7.3	3.6	0.0	0.0	0.0	0.0
87.5°	14.6	7.3	7.3	7.3	7.3	3.6	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)