

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: P643770

Luminaire Tested: GWS-SA6F-750-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643770
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-750-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38135 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G5

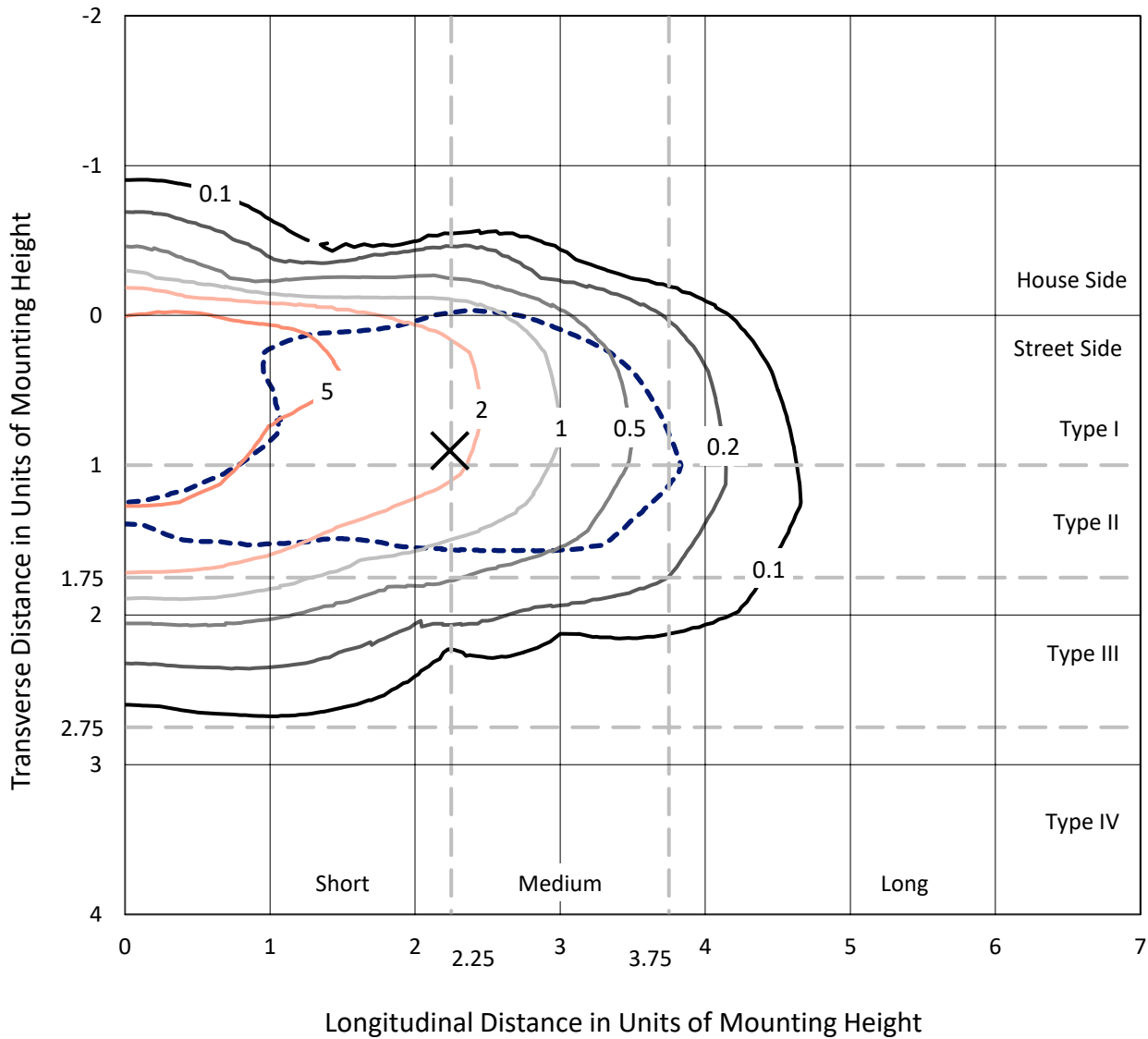
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

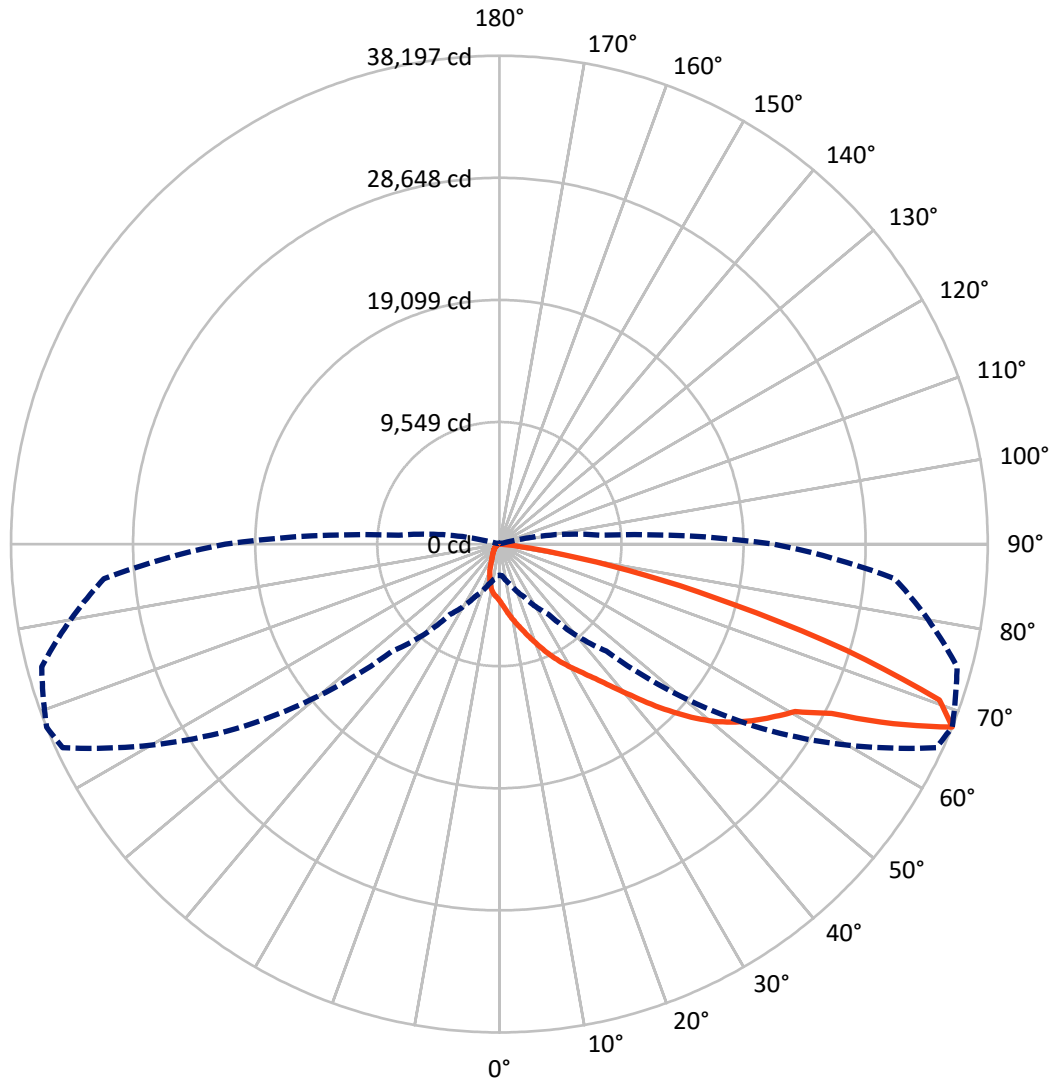
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2753.8	0.0	2753.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	35381.2	0.0	35381.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	38135.0	0.0	38135.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.8	1.1
10°-20°	1243.0	3.3
20°-30°	2136.0	5.6
30°-40°	3713.8	9.7
40°-50°	6480.2	17.0
50°-60°	9773.7	25.6
60°-70°	9800.5	25.7
70°-80°	4324.0	11.3
80°-90°	231.0	0.6
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°	38135.0	100.0
0°-180°	38135.0	100.0

Coefficient of Utilization



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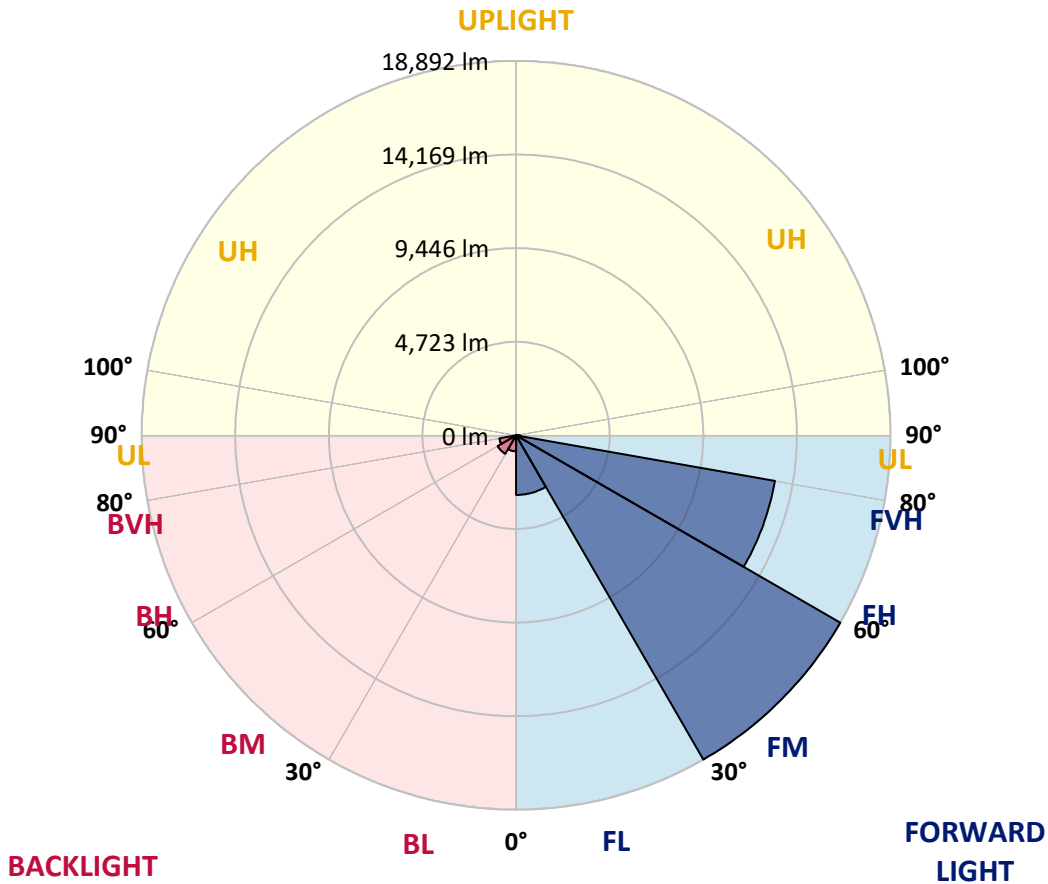
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3006.2	7.9			
FM (30°-60°)	18892.0	49.5			
FH (60°-80°)	13265.1	34.8			G5
FVH (80°-90°)	217.9	0.6			G2/225
BL (0°-30°)	805.6	2.1	B2/1000		
BM (30°-60°)	1075.7	2.8	B2/2500		
BH (60°-80°)	859.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	13.0	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	4437.9	4437.9	4437.9	4437.9	4437.9	4437.9	4437.9	4437.9	4437.9	4437.9	4437.9
2.5°	5167.9	5200.7	5167.9	5175.2	5080.3	5036.5	4941.6	4810.2	4777.4	4693.4	4565.7
5°	5799.3	5828.5	5795.6	5788.3	5678.8	5598.5	5441.6	5215.3	5149.6	4985.4	4733.6
7.5°	6142.3	6160.6	6171.5	6189.8	6149.6	6083.9	5941.6	5660.6	5591.2	5324.8	4970.8
10°	6178.8	6193.4	6248.2	6357.6	6437.9	6478.1	6397.8	6138.7	6029.2	5770.1	5262.8
12.5°	6076.6	6098.5	6186.1	6368.6	6591.2	6795.6	6846.7	6620.4	6521.9	6189.8	5605.8
15°	5941.6	5959.8	6080.3	6328.5	6664.2	7040.1	7251.8	7153.3	7043.8	6697.1	5985.4
17.5°	5733.6	5759.1	5927.0	6262.8	6697.1	7233.6	7689.8	7722.6	7646.0	7270.1	6405.1
20°	5616.8	5635.0	5784.7	6131.4	6675.2	7375.9	8098.5	8408.7	8324.8	7930.6	6886.8
22.5°	5715.3	5729.9	5828.5	6098.5	6602.2	7456.2	8478.1	9094.9	9047.4	8638.7	7394.1
25°	6233.6	6281.0	6222.6	6270.1	6635.0	7500.0	8784.6	9781.0	9791.9	9379.5	7919.7
27.5°	7284.7	7222.6	7083.9	6846.7	6890.5	7616.8	9047.4	10427.0	10521.9	10102.2	8386.8
30°	8354.0	8317.5	8233.6	7864.9	7558.4	7875.9	9270.0	11087.6	11237.2	10813.8	8802.9
32.5°	9554.7	9591.2	9441.6	9000.0	8478.1	8401.4	9500.0	11715.3	11996.3	11620.4	9291.9
35°	10989.0	11000.0	10704.4	10215.3	9624.1	9270.0	9912.4	12408.7	12927.0	12649.6	9945.2
37.5°	12386.8	12452.5	12291.9	11521.9	10996.3	10350.3	10594.9	13299.2	14029.2	13919.7	10766.4
40°	13624.1	13726.2	13675.1	12930.6	12240.8	11697.0	11653.3	14343.0	15361.3	15485.4	11850.3
42.5°	14609.4	14675.1	14715.3	14186.1	13576.6	13270.0	12959.8	15554.7	16934.3	17441.6	13178.8
45°	15649.6	15671.5	15755.4	15397.8	14864.9	14890.5	14503.6	17025.5	18591.2	19609.4	14704.3
47.5°	16974.4	17047.4	17007.3	16631.3	16149.6	16437.9	16098.5	18540.1	20226.2	21923.3	16266.4
50°	18587.5	18664.2	18627.7	18189.7	17653.2	17773.7	17562.0	20010.9	21802.9	24105.8	17565.6
52.5°	19419.7	19481.7	19934.3	20131.3	19850.3	19083.9	18810.2	21627.7	23135.0	25901.4	18759.1
55°	19018.2	19062.0	20047.4	20879.5	21908.7	21142.3	20065.6	22875.9	24310.2	27302.8	19645.9
57.5°	17354.0	17591.2	18930.6	20339.4	22503.6	23175.1	22102.1	24233.5	25441.5	28277.3	20518.2
60°	13941.6	13930.6	15850.3	18379.5	21343.0	23733.5	24978.0	26069.3	26576.6	29025.5	21686.1
62.5°	7704.4	7773.7	10328.4	13660.5	18116.7	22288.3	27135.0	29240.8	29164.2	30332.0	23514.5
65°	3835.8	3974.4	5361.3	7824.8	12054.7	18419.7	27507.2	34080.2	33861.2	33408.7	27291.9
67.5°	2434.3	2489.0	3255.5	4547.4	6700.7	11839.4	25189.7	37689.7	38197.0	37058.3	31040.1
70°	1576.6	1667.9	2262.8	3109.5	4043.8	6102.2	18452.5	35350.3	36514.5	36656.8	28704.3
72.5°	857.7	923.4	1445.3	2219.0	2919.7	3051.1	10364.9	26529.1	28401.4	31094.8	22456.1
75°	489.0	536.5	792.0	1507.3	2142.3	1857.7	4594.9	17759.1	18952.5	22222.6	16091.2
77.5°	295.6	335.8	445.3	733.6	1343.1	1240.9	1737.2	10810.2	11569.3	13259.1	8445.2
80°	135.0	160.6	281.0	405.1	733.6	587.6	664.2	5040.1	5204.4	5441.6	2795.6
82.5°	62.0	73.0	127.7	240.9	416.1	339.4	255.5	1164.2	1638.7	1551.1	711.7
85°	7.3	7.3	47.4	98.5	116.8	87.6	105.8	262.8	332.1	467.2	204.4
87.5°	0.0	0.0	3.6	3.6	7.3	10.9	21.9	32.8	47.4	76.6	51.1
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°	4437.9	4437.9	4437.9	4437.9	4437.9	4437.9	4437.9	4437.9	4437.9	4437.9	4437.9
2.5°	4507.3	4405.1	4313.9	4178.8	4087.6	3985.4	3916.0	3832.1	3799.3	3773.7	3737.2
5°	4609.5	4445.2	4222.6	3974.4	3770.1	3576.6	3397.8	3281.0	3178.8	3164.2	3113.1
7.5°	4777.4	4532.8	4156.9	3751.8	3405.1	3083.9	2832.1	2627.7	2525.5	2492.7	2434.3
10°	5000.0	4664.2	4058.4	3437.9	2937.9	2554.7	2270.1	2040.1	1879.6	1821.2	1777.4
12.5°	5248.2	4784.7	3901.4	3051.1	2481.7	2043.8	1682.5	1438.0	1335.8	1299.3	1266.4
15°	5532.8	4897.8	3653.3	2664.2	2036.5	1503.6	1248.2	1142.3	1098.5	1087.6	1076.6
17.5°	5806.6	4970.8	3357.7	2262.8	1565.7	1167.9	1047.4	1007.3	996.3	985.4	978.1
20°	6116.8	5021.9	3010.9	1883.2	1215.3	989.0	930.7	901.5	879.6	857.7	854.0
22.5°	6434.3	5021.9	2635.0	1510.9	1018.2	886.9	821.2	766.4	726.3	704.4	697.1
25°	6737.2	4952.5	2262.8	1208.0	897.8	788.3	704.4	642.3	587.6	562.0	554.7
27.5°	6952.5	4773.7	1938.0	1021.9	813.9	700.7	598.5	529.2	485.4	459.9	456.2
30°	7087.6	4507.3	1638.7	912.4	740.9	609.5	507.3	448.9	416.1	397.8	390.5
32.5°	7189.8	4178.8	1372.3	835.8	671.5	529.2	441.6	394.2	365.0	350.4	346.7
35°	7394.1	3868.6	1175.2	766.4	598.5	463.5	386.9	350.4	328.5	310.2	306.6
37.5°	7678.8	3609.5	1018.2	704.4	529.2	412.4	350.4	317.5	299.3	281.0	277.4
40°	8098.5	3445.2	901.5	642.3	467.2	372.3	321.2	292.0	266.4	248.2	244.5
42.5°	8744.5	3368.6	824.8	580.3	412.4	335.8	295.6	259.1	233.6	215.3	211.7
45°	9514.6	3408.8	759.1	518.2	375.9	310.2	262.8	226.3	200.7	182.5	178.8
47.5°	10339.4	3551.1	704.4	459.9	339.4	284.7	233.6	193.4	171.5	153.3	149.6
50°	11200.7	3784.7	656.9	405.1	310.2	255.5	200.7	167.9	146.0	131.4	127.7
52.5°	11948.9	4102.2	609.5	365.0	284.7	226.3	175.2	146.0	124.1	109.5	105.8
55°	12664.2	4401.4	573.0	328.5	255.5	197.1	153.3	124.1	105.8	91.2	87.6
57.5°	13441.6	4719.0	529.2	295.6	229.9	175.2	135.0	105.8	91.2	76.6	73.0
60°	14573.0	5189.8	463.5	270.1	200.7	153.3	116.8	94.9	80.3	62.0	58.4
62.5°	16204.3	6047.4	390.5	233.6	171.5	131.4	98.5	80.3	65.7	51.1	43.8
65°	19255.4	7507.3	321.2	193.4	138.7	109.5	83.9	65.7	51.1	36.5	32.8
67.5°	21452.5	7886.8	259.1	156.9	113.1	83.9	69.3	51.1	36.5	25.5	21.9
70°	18755.4	5664.2	200.7	127.7	94.9	65.7	54.7	40.1	25.5	18.2	14.6
72.5°	14131.3	3700.7	149.6	98.5	73.0	54.7	40.1	32.8	21.9	14.6	10.9
75°	9959.8	2138.7	109.5	73.0	51.1	40.1	32.8	25.5	18.2	10.9	10.9
77.5°	5105.8	883.2	76.6	51.1	36.5	25.5	21.9	14.6	14.6	10.9	7.3
80°	1551.1	292.0	43.8	32.8	25.5	18.2	10.9	10.9	10.9	7.3	3.6
82.5°	354.0	94.9	25.5	25.5	18.2	14.6	10.9	3.6	3.6	0.0	0.0
85°	91.2	29.2	21.9	18.2	18.2	14.6	7.3	3.6	0.0	0.0	0.0
87.5°	32.8	18.2	18.2	18.2	14.6	10.9	7.3	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)