

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: P639736

Luminaire Tested: GWS-SA5C-740-U-SL2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639736  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5C-740-U-SL2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

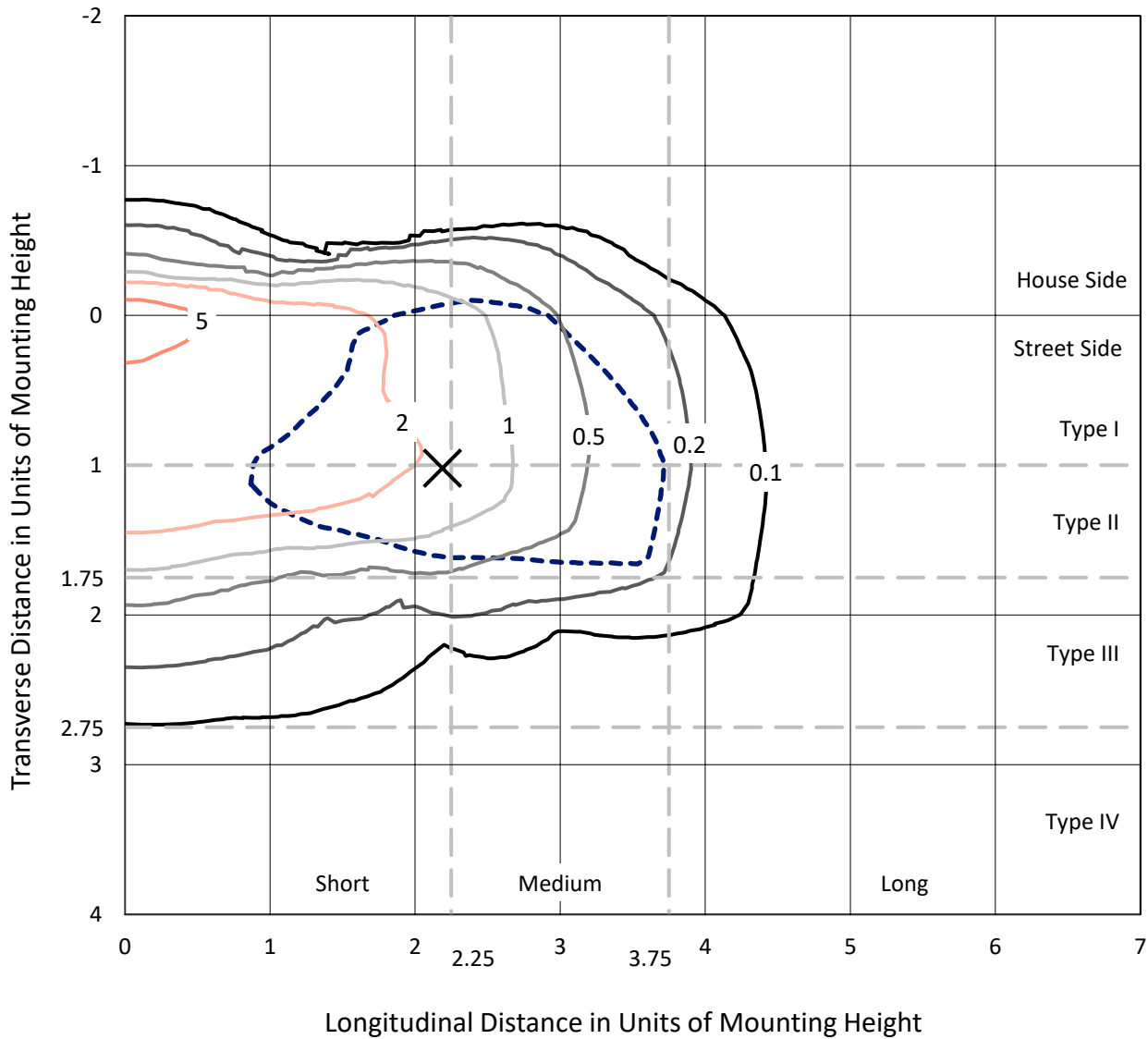
Lumens per Lamp: N/A  
Luminaire Lumens: 18876.6 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

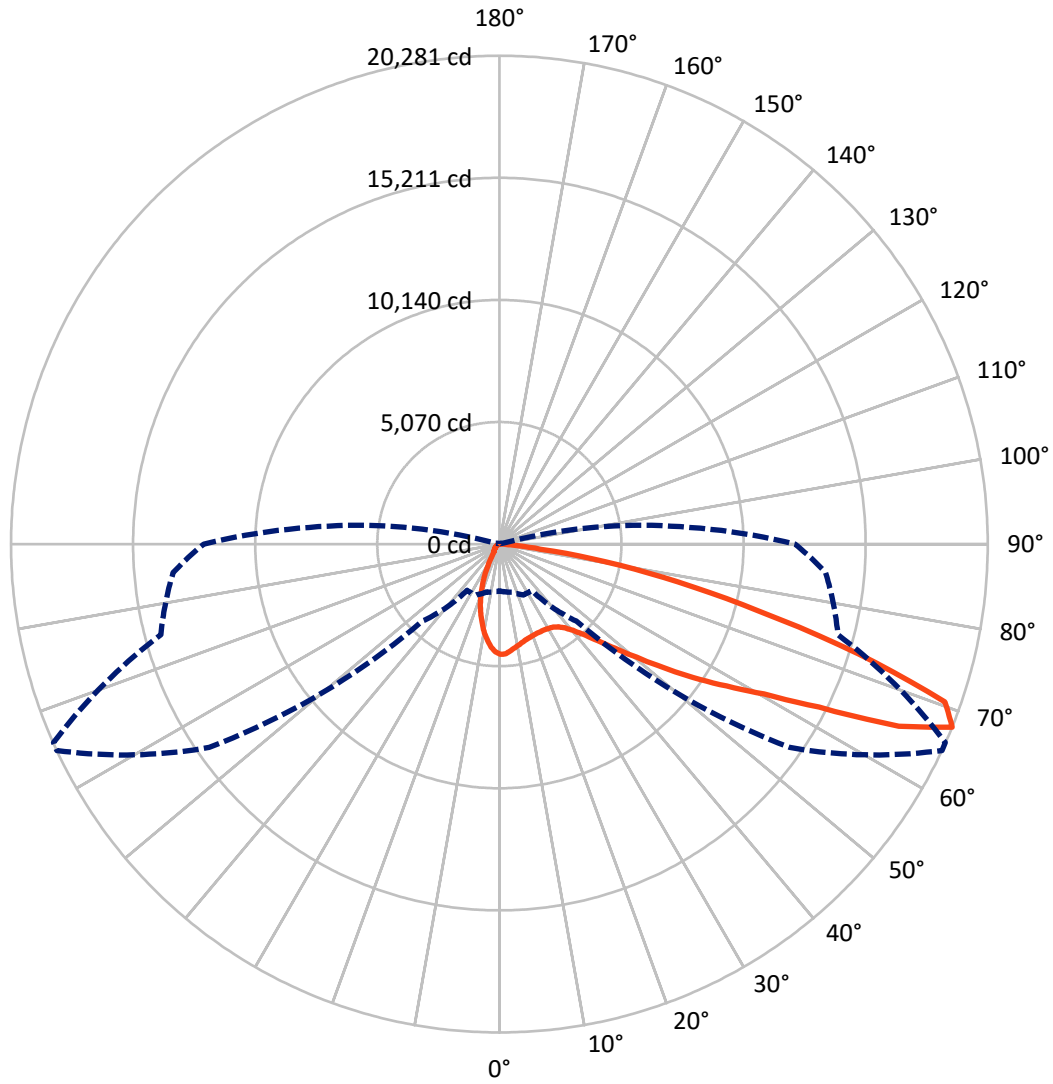
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2357.1	0.0	2357.1
	% Fixture	12.5	0.0	12.5
<b>Street Side</b>	Lumens	16519.5	0.0	16519.5
	% Fixture	87.5	0.0	87.5
<b>Total</b>	Lumens	18876.6	0.0	18876.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	380.2	2.0
10°-20°	854.8	4.5
20°-30°	1221.4	6.5
30°-40°	1777.0	9.4
40°-50°	2783.1	14.7
50°-60°	4341.7	23.0
60°-70°	4769.1	25.3
70°-80°	2538.1	13.4
80°-90°	211.3	1.1
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°	18876.6	100.0
0°-180°	18876.6	100.0

**Coefficient of Utilization**



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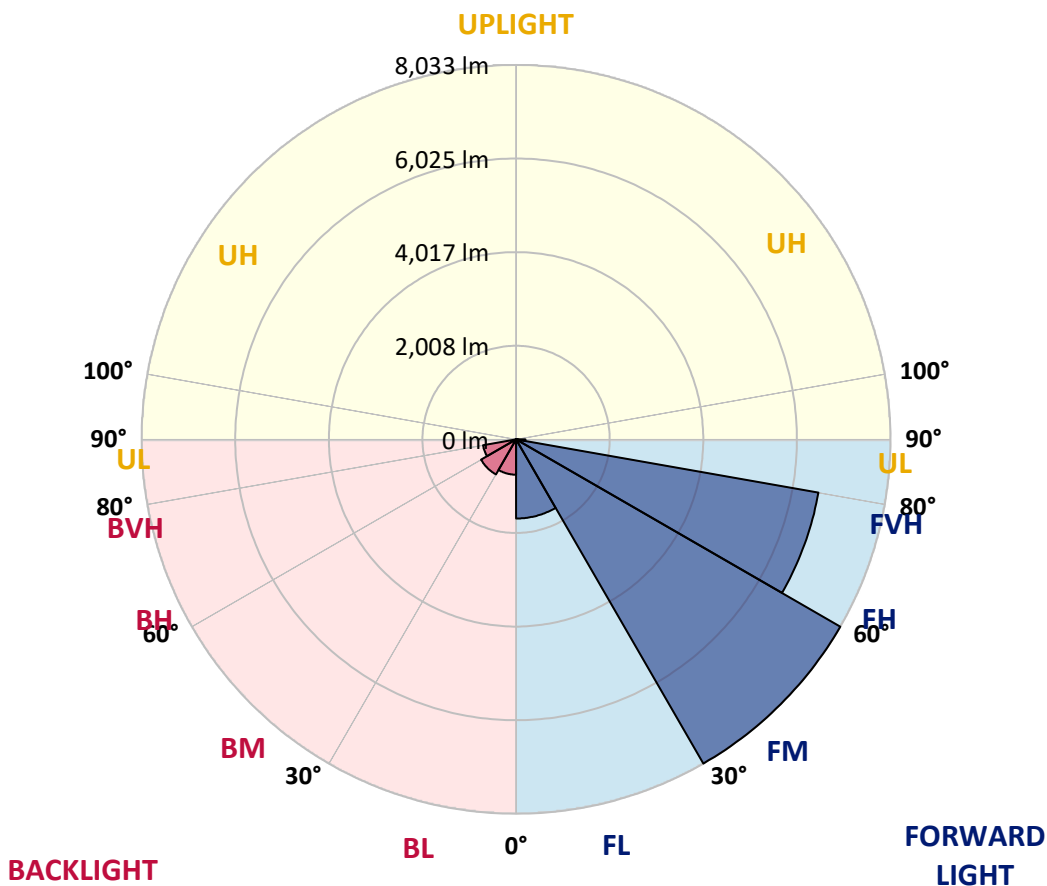
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1698.8	9.0			
FM (30°-60°)	8033.5	42.6			
FH (60°-80°)	6587.2	34.9			G3/7500
FVH (80°-90°)	200.0	1.1			G2/225
BL (0°-30°)	757.6	4.0	B2/1000		
BM (30°-60°)	868.2	4.6	B1/1000		
BH (60°-80°)	720.0	3.8	B2/1000		G2/1000
BVH (80°-90°)	11.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4578.2	4578.2	4578.2	4578.2	4578.2	4578.2	4578.2	4578.2	4578.2	4578.2	4578.2
2.5°	4419.4	4433.1	4414.3	4460.4	4468.9	4520.1	4549.2	4569.6	4567.9	4593.5	4593.5
5°	4160.0	4173.6	4163.4	4212.9	4252.1	4332.4	4398.9	4475.8	4479.2	4557.7	4586.7
7.5°	3939.8	3941.5	3941.5	4002.9	4054.1	4153.1	4252.1	4369.9	4383.6	4504.8	4581.6
10°	3758.8	3763.9	3765.6	3835.6	3892.0	4011.4	4137.8	4279.4	4294.8	4458.7	4578.2
12.5°	3634.2	3635.9	3642.7	3716.1	3777.6	3902.2	4030.2	4192.4	4212.9	4405.8	4562.8
15°	3574.5	3571.0	3574.5	3635.9	3697.4	3816.8	3948.3	4122.4	4144.6	4361.4	4564.5
17.5°	3571.0	3565.9	3562.5	3608.6	3647.9	3753.7	3886.8	4076.3	4100.2	4340.9	4583.3
20°	3620.5	3617.1	3600.1	3620.5	3629.1	3716.1	3847.6	4040.5	4064.4	4337.5	4624.3
22.5°	3750.3	3741.7	3716.1	3697.4	3651.3	3702.5	3820.3	4014.9	4042.2	4346.0	4677.2
25°	3943.2	3939.8	3907.3	3861.2	3743.4	3723.0	3822.0	4014.9	4040.5	4356.3	4733.5
27.5°	4233.4	4212.9	4171.9	4091.7	3922.7	3803.2	3856.1	4025.1	4050.7	4369.9	4779.6
30°	4528.7	4527.0	4513.3	4431.4	4180.4	3956.8	3927.8	4052.4	4076.3	4381.9	4822.3
32.5°	4834.2	4839.3	4873.5	4810.3	4535.5	4185.6	4057.5	4108.7	4125.8	4405.8	4859.8
35°	5124.4	5134.7	5225.1	5247.3	4967.4	4532.1	4269.2	4221.4	4223.1	4458.7	4909.3
37.5°	5402.7	5436.8	5581.9	5689.4	5505.1	4952.0	4574.8	4412.6	4398.9	4564.5	4984.4
40°	5718.4	5783.3	5966.0	6148.6	6090.6	5506.8	4991.3	4706.2	4677.2	4759.1	5119.3
42.5°	6068.4	6138.4	6380.8	6636.8	6664.1	6177.6	5511.9	5134.7	5085.1	5086.9	5371.9
45°	6443.9	6537.8	6819.5	7188.2	7353.7	6925.3	6153.7	5713.3	5663.8	5590.4	5778.2
47.5°	6937.2	7019.2	7290.6	7715.6	8033.1	7727.6	6995.3	6457.6	6367.1	6259.6	6409.8
50°	7362.3	7434.0	7667.8	8200.4	8861.0	8762.0	7949.5	7387.9	7300.8	7118.2	7242.8
52.5°	7456.2	7512.5	7727.6	8326.7	9494.3	10067.9	9118.8	8512.8	8451.3	8113.4	8161.2
55°	7034.5	7119.9	7312.8	7978.5	9659.9	11344.7	10636.3	9781.1	9653.1	9113.7	9199.0
57.5°	5969.4	6121.3	6302.2	7167.7	9211.0	12024.1	12756.4	11124.5	11008.4	10076.4	10078.1
60°	4375.0	4497.9	4619.1	5411.2	8145.8	11978.0	14680.2	12633.5	12421.8	10863.3	10834.3
62.5°	3181.8	3245.0	3243.3	3525.0	5593.8	11189.4	15690.7	14907.2	14413.9	11704.9	11539.3
65°	2502.5	2500.8	2574.2	2666.3	3123.8	8637.4	15815.3	18227.3	17694.7	12833.2	12488.4
67.5°	1947.7	1985.2	2058.6	2330.1	2347.1	4520.1	14719.4	20280.8	20270.6	14555.6	13599.7
70°	1502.2	1553.4	1657.5	2053.5	2167.9	2529.8	11013.6	19630.5	19796.1	15325.4	12812.7
72.5°	964.5	961.0	1114.7	1659.2	2082.5	2108.1	6090.6	15593.4	15781.2	13881.3	10359.8
75°	539.4	542.8	629.9	1015.7	1940.9	1983.5	3016.3	11119.4	11267.9	10822.4	7959.7
77.5°	211.7	218.5	295.3	534.3	1280.2	1771.9	1792.3	7582.5	7604.7	6706.8	4882.0
80°	85.3	90.5	150.2	331.2	780.1	1193.2	1280.2	4467.2	4376.7	2596.3	1420.2
82.5°	25.6	27.3	59.7	187.8	408.0	848.4	863.7	1713.8	1618.2	558.2	361.9
85°	1.7	1.7	13.7	58.0	145.1	213.4	575.3	558.2	495.0	140.0	160.5
87.5°	0.0	0.0	1.7	1.7	3.4	6.8	61.5	102.4	104.1	25.6	71.7
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°	4578.2	4578.2	4578.2	4578.2	4578.2	4578.2	4578.2	4578.2	4578.2	4578.2	4578.2
2.5°	4593.5	4532.1	4527.0	4479.2	4431.4	4371.6	4301.6	4250.4	4214.6	4151.4	4139.5
5°	4586.7	4504.8	4428.0	4291.4	4139.5	3975.6	3832.2	3699.1	3615.4	3559.1	3535.2
7.5°	4573.0	4468.9	4291.4	4033.6	3779.3	3492.5	3268.9	3064.1	2924.1	2842.2	2806.3
10°	4562.8	4422.8	4134.4	3743.4	3349.1	2953.1	2613.4	2309.6	2140.6	2007.4	1985.2
12.5°	4542.3	4356.3	3932.9	3403.8	2895.1	2369.3	1935.7	1563.6	1305.9	1189.8	1148.8
15°	4521.8	4286.3	3731.5	3045.3	2400.0	1751.4	1225.6	867.2	689.6	635.0	631.6
17.5°	4518.4	4223.1	3513.0	2705.6	1881.1	1147.1	698.2	561.6	524.0	510.4	510.4
20°	4528.7	4170.2	3297.9	2314.7	1370.7	698.2	520.6	486.5	464.3	452.4	452.4
22.5°	4538.9	4115.6	3091.4	1920.4	909.8	510.4	459.2	430.2	404.6	390.9	384.1
25°	4545.7	4055.8	2862.6	1524.3	594.0	443.8	402.9	365.3	334.6	317.5	317.5
27.5°	4544.0	3984.1	2632.2	1136.9	460.9	394.3	344.8	305.6	274.8	256.0	257.8
30°	4530.4	3905.6	2393.2	793.8	402.9	344.8	295.3	254.3	223.6	208.3	206.5
32.5°	4520.1	3822.0	2116.7	558.2	361.9	302.1	250.9	211.7	186.1	174.1	172.4
35°	4508.2	3740.0	1853.8	425.0	326.0	261.2	211.7	179.2	158.8	148.5	148.5
37.5°	4511.6	3654.7	1568.7	365.3	290.2	227.0	180.9	153.6	136.6	126.3	124.6
40°	4564.5	3603.5	1288.8	331.2	257.8	196.3	157.0	133.1	116.1	105.8	104.1
42.5°	4696.0	3605.2	1020.8	305.6	228.7	167.3	136.6	114.4	99.0	87.1	85.3
45°	4958.8	3676.9	783.5	278.2	198.0	145.1	117.8	97.3	81.9	71.7	70.0
47.5°	5389.0	3890.2	594.0	254.3	172.4	126.3	100.7	81.9	68.3	59.7	58.0
50°	6073.5	4276.0	467.7	225.3	145.1	109.2	85.3	68.3	56.3	47.8	46.1
52.5°	6896.3	4854.7	401.1	199.7	124.6	95.6	73.4	56.3	46.1	39.3	37.6
55°	7842.0	5546.0	370.4	174.1	105.8	81.9	59.7	46.1	37.6	32.4	29.0
57.5°	8709.1	6169.1	368.7	148.5	90.5	70.0	49.5	39.3	32.4	25.6	23.9
60°	9554.1	6689.7	346.5	122.9	78.5	58.0	42.7	32.4	27.3	22.2	20.5
62.5°	10320.5	7113.1	290.2	99.0	66.6	47.8	35.8	29.0	23.9	18.8	18.8
65°	11283.3	7652.5	221.9	80.2	54.6	39.3	30.7	25.6	22.2	17.1	17.1
67.5°	12278.4	7937.5	158.8	66.6	44.4	34.1	27.3	23.9	18.8	15.4	15.4
70°	11121.1	6706.8	114.4	54.6	37.6	29.0	23.9	22.2	18.8	15.4	13.7
72.5°	8685.2	4835.9	85.3	42.7	32.4	27.3	22.2	20.5	17.1	13.7	13.7
75°	6440.5	2820.0	64.9	34.1	25.6	22.2	22.2	20.5	17.1	13.7	11.9
77.5°	3501.1	983.2	49.5	27.3	20.5	17.1	18.8	18.8	15.4	11.9	10.2
80°	926.9	269.7	34.1	20.5	17.1	13.7	13.7	17.1	13.7	10.2	10.2
82.5°	269.7	78.5	23.9	17.1	13.7	11.9	11.9	11.9	10.2	8.5	6.8
85°	131.4	29.0	17.1	13.7	11.9	10.2	8.5	8.5	6.8	5.1	5.1
87.5°	58.0	11.9	13.7	11.9	11.9	8.5	6.8	5.1	5.1	3.4	1.7
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)