

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: P641273

Luminaire Tested: GWS-SA5F-750-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641273  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-750-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

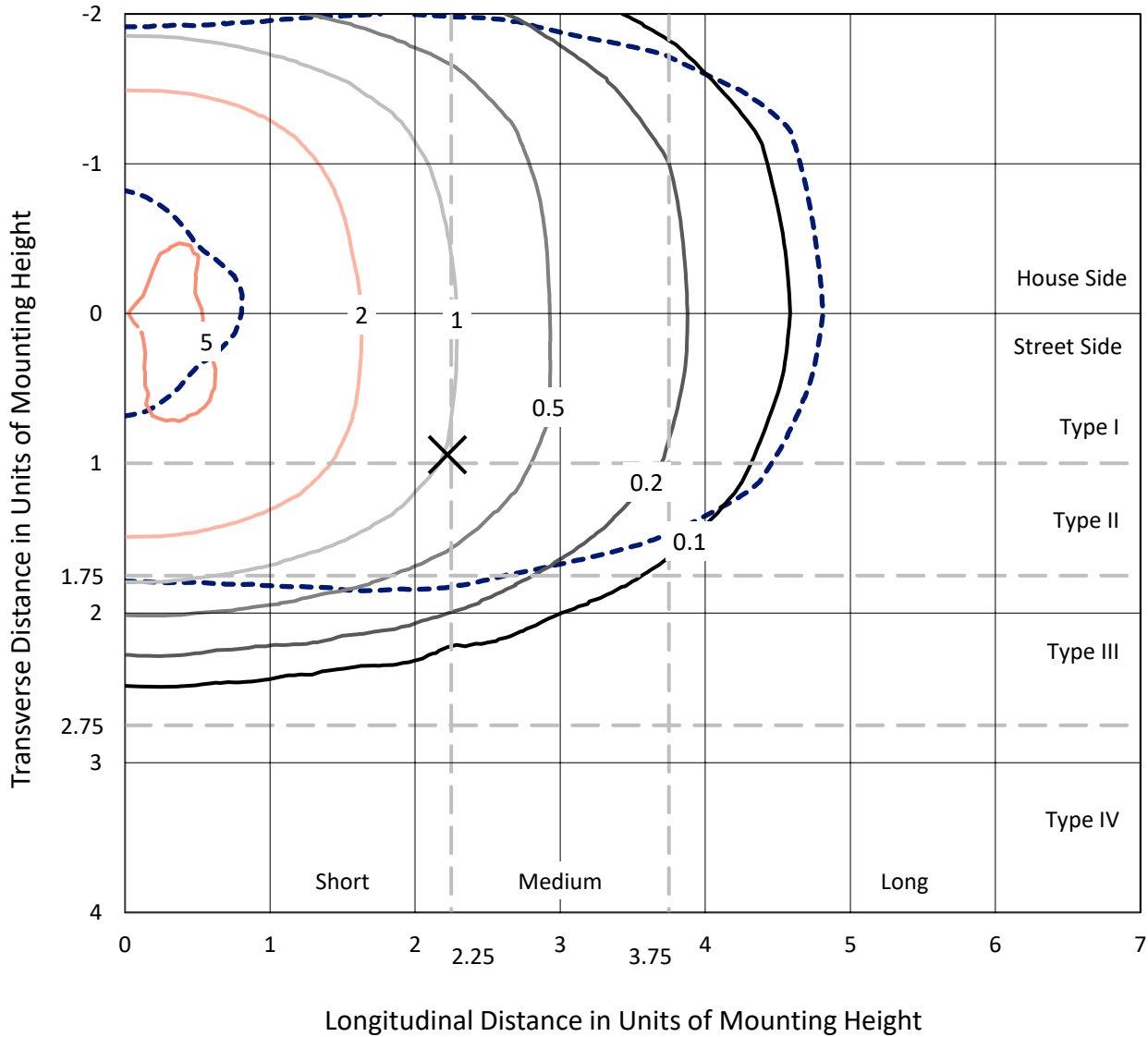
Lumens per Lamp: N/A  
Luminaire Lumens: 43951.2 lumens  
Efficiency: N/A  
Efficacy: 141.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

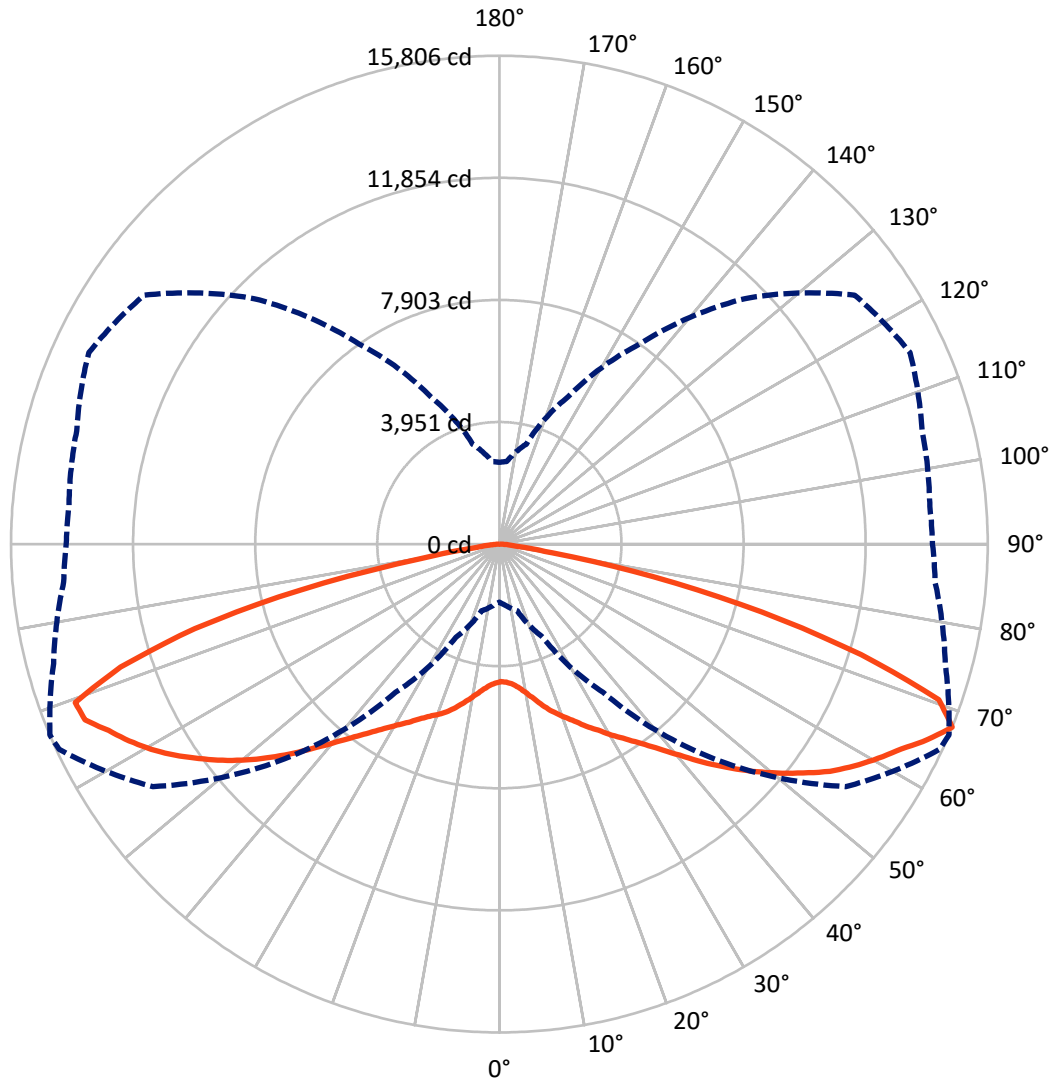
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21733.1	0.0	21733.1
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	22218.1	0.0	22218.1
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	43951.2	0.0	43951.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	436.6	1.0
10°-20°	1475.1	3.4
20°-30°	2894.1	6.6
30°-40°	4930.7	11.2
40°-50°	7917.7	18.0
50°-60°	10758.4	24.5
60°-70°	10291.2	23.4
70°-80°	4892.8	11.1
80°-90°	354.6	0.8
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°	43951.2	100.0
0°-180°	43951.2	100.0

**Coefficient of Utilization**



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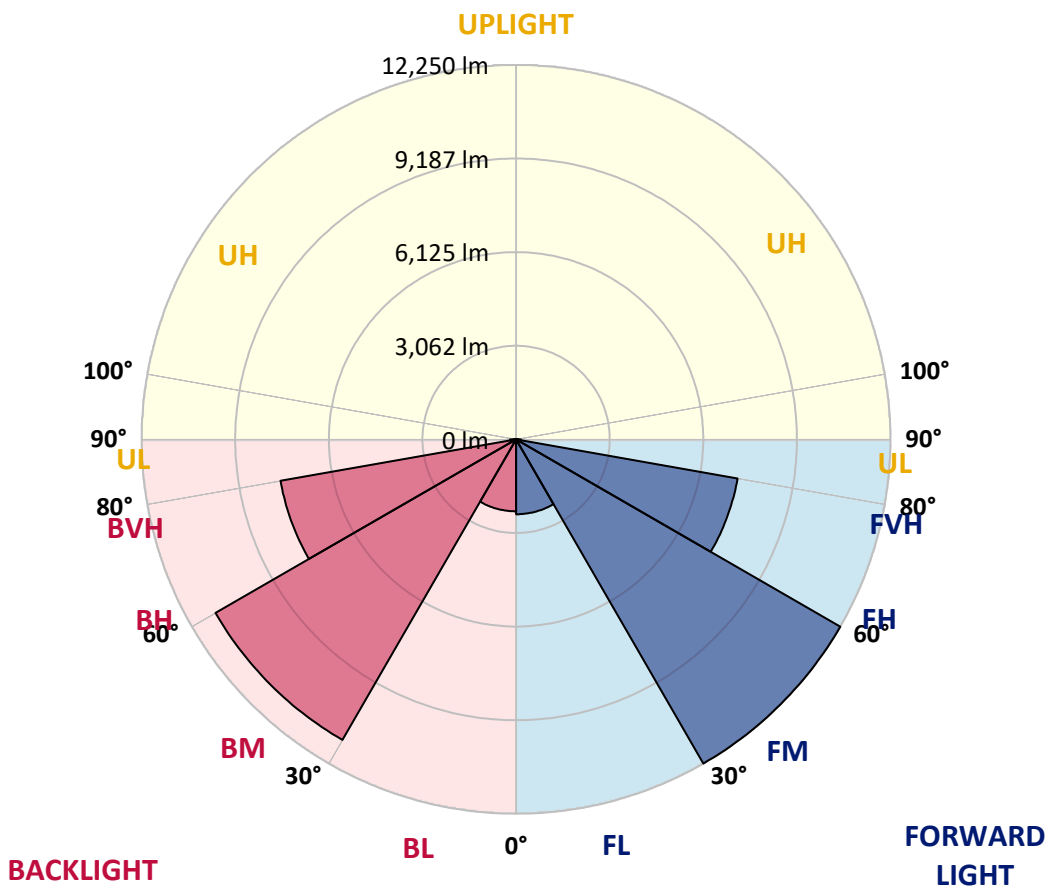
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2450.6	5.6			
FM (30°-60°)	12249.6	27.9			
FH (60°-80°)	7358.6	16.7			G3/7500
FVH (80°-90°)	159.4	0.4			G2/225
BL (0°-30°)	2355.3	5.4	B3/2500		
BM (30°-60°)	11357.2	25.8	B5		
BH (60°-80°)	7825.4	17.8	B5		G5
BVH (80°-90°)	195.2	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4450.3	4450.3	4450.3	4450.3	4450.3	4450.3	4450.3	4450.3	4450.3	4450.3	4450.3
2.5°	4358.5	4364.6	4373.8	4392.2	4410.5	4438.1	4465.6	4462.5	4474.8	4484.0	4493.2
5°	4334.0	4340.1	4355.4	4379.9	4407.5	4453.4	4511.5	4536.0	4554.4	4588.0	4618.6
7.5°	4386.0	4398.3	4419.7	4453.4	4496.2	4554.4	4633.9	4676.8	4704.3	4765.6	4817.6
10°	4456.4	4471.7	4514.6	4578.9	4643.1	4731.9	4832.9	4897.2	4915.5	4995.1	5093.1
12.5°	4523.8	4542.1	4612.5	4728.8	4845.1	4964.5	5083.9	5163.5	5169.6	5276.7	5386.9
15°	4630.9	4646.2	4741.1	4891.0	5068.6	5233.9	5380.8	5435.9	5460.3	5536.9	5674.6
17.5°	4866.6	4884.9	5007.4	5169.6	5356.3	5530.7	5677.7	5723.6	5723.6	5787.8	5901.1
20°	5120.6	5139.0	5301.2	5509.3	5735.8	5913.3	6026.6	5983.7	5968.4	5986.8	6066.4
22.5°	5405.3	5438.9	5595.0	5836.8	6115.3	6332.7	6390.8	6262.3	6219.4	6176.6	6194.9
25°	5769.5	5809.3	5962.3	6219.4	6491.8	6721.4	6755.0	6556.1	6531.6	6381.6	6326.5
27.5°	6188.8	6219.4	6409.2	6663.2	6917.3	7110.1	7146.8	6902.0	6819.3	6611.2	6482.6
30°	6730.5	6758.1	6923.4	7174.4	7394.7	7529.4	7575.3	7238.6	7174.4	6856.0	6657.1
32.5°	7321.3	7333.5	7501.9	7743.7	7939.5	8068.1	8003.8	7612.0	7517.2	7159.1	6886.6
35°	7997.7	7997.7	8215.0	8410.9	8567.0	8603.7	8481.3	8034.4	7924.2	7535.5	7195.8
37.5°	8661.9	8680.2	8882.2	9114.9	9252.6	9246.5	9023.0	8533.3	8407.8	7985.4	7609.0
40°	9381.1	9420.9	9622.9	9883.1	10014.7	9996.3	9653.5	9108.7	8980.2	8481.3	8114.0
42.5°	10042.3	10106.5	10342.2	10608.5	10752.4	10740.1	10382.0	9769.9	9644.4	9081.2	8713.9
45°	10568.7	10636.0	10929.9	11300.2	11529.8	11508.4	11147.2	10455.5	10302.4	9711.7	9307.7
47.5°	11030.9	11101.3	11428.8	11820.5	12184.8	12221.5	11890.9	11147.2	10985.0	10388.1	9932.1
50°	11385.9	11419.6	11786.9	12215.4	12637.8	12842.8	12555.1	11842.0	11646.1	11055.4	10541.2
52.5°	11358.4	11404.3	11857.3	12438.8	13005.0	13341.7	13142.8	12497.0	12307.2	11664.4	11162.5
55°	10798.3	10844.2	11382.9	12230.7	13210.1	13706.0	13684.5	13121.4	12983.6	12285.8	11808.3
57.5°	9981.0	10082.1	10617.7	11532.8	12940.8	13996.7	14082.4	13690.7	13546.8	12894.9	12448.0
60°	8518.0	8652.7	9271.0	10458.5	12077.6	13898.8	14507.9	14171.2	14082.4	13461.1	13026.5
62.5°	6188.8	6286.7	7110.1	8668.0	10798.3	13200.9	14866.0	14667.0	14599.7	13969.2	13549.9
65°	3706.5	3930.0	4591.1	6130.6	8710.8	11884.8	14670.1	15315.9	15245.5	14492.6	13996.7
67.5°	1876.2	1977.2	2237.4	3324.0	5858.2	9834.1	13687.6	15719.9	15805.6	14939.4	14155.9
70°	1163.1	1190.6	1264.1	1640.6	2926.1	6461.2	11193.1	14667.0	15086.3	14869.0	13742.7
72.5°	933.5	939.6	951.9	1022.3	1404.9	3020.9	7076.4	11486.9	12242.9	13886.5	13152.0
75°	774.4	777.4	780.5	801.9	875.4	1233.5	3443.3	7893.6	8778.2	11802.2	12194.0
77.5°	621.3	606.0	618.3	627.5	645.8	688.7	1187.6	4211.6	5108.4	7746.7	9430.1
80°	404.0	397.9	422.4	431.6	449.9	477.5	633.6	1429.4	1735.4	2818.9	2999.5
82.5°	217.3	205.1	257.1	247.9	257.1	278.5	373.4	523.4	587.7	850.9	719.3
85°	67.3	67.3	70.4	82.6	101.0	97.9	162.2	257.1	284.6	364.2	269.3
87.5°	12.2	12.2	12.2	12.2	12.2	15.3	33.7	52.0	70.4	125.5	94.9
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°	4450.3	4450.3	4450.3	4450.3	4450.3	4450.3	4450.3	4450.3	4450.3	4450.3	4450.3
2.5°	4511.5	4484.0	4499.3	4508.5	4505.4	4499.3	4468.7	4462.5	4447.2	4422.8	4416.6
5°	4646.2	4615.6	4618.6	4609.5	4578.9	4539.1	4471.7	4438.1	4410.5	4379.9	4376.8
7.5°	4857.4	4823.7	4814.5	4771.7	4686.0	4594.2	4487.0	4425.8	4379.9	4340.1	4334.0
10°	5126.7	5093.1	5062.5	4961.4	4820.7	4698.2	4557.4	4468.7	4401.3	4352.4	4343.2
12.5°	5426.7	5399.1	5322.6	5175.7	5007.4	4863.5	4719.6	4609.5	4511.5	4438.1	4428.9
15°	5760.3	5699.1	5582.8	5393.0	5233.9	5117.5	4943.1	4793.1	4637.0	4539.1	4517.6
17.5°	5992.9	5940.9	5803.1	5619.5	5494.0	5393.0	5187.9	4973.7	4762.5	4618.6	4588.0
20°	6158.2	6103.1	5947.0	5812.3	5772.5	5686.8	5448.1	5200.2	4955.3	4777.8	4738.0
22.5°	6277.6	6219.4	6060.2	5992.9	6048.0	6032.7	5800.1	5518.5	5227.7	5016.5	4967.6
25°	6390.8	6335.7	6194.9	6219.4	6366.3	6412.2	6161.3	5833.8	5503.2	5255.3	5197.1
27.5°	6497.9	6427.5	6363.3	6497.9	6706.1	6791.8	6525.5	6155.1	5797.0	5543.0	5497.1
30°	6663.2	6580.6	6571.4	6767.3	7097.8	7171.3	6877.5	6507.1	6152.1	5895.0	5836.8
32.5°	6871.3	6794.8	6800.9	7094.8	7477.4	7538.6	7287.6	6941.7	6586.7	6329.6	6250.0
35°	7152.9	7058.0	7110.1	7471.2	7856.9	7970.1	7768.1	7480.4	7134.6	6871.3	6782.6
37.5°	7541.6	7403.9	7511.0	7890.6	8279.3	8447.6	8291.5	8077.3	7734.5	7468.2	7385.5
40°	8037.5	7924.2	7967.1	8386.4	8787.4	8989.4	8891.4	8680.2	8340.5	8062.0	7967.1
42.5°	8625.1	8511.9	8496.6	8943.5	9344.4	9650.5	9555.6	9362.8	9010.8	8692.5	8600.7
45°	9200.6	9096.5	9117.9	9574.0	10023.9	10357.5	10262.6	10036.1	9653.5	9286.3	9212.8
47.5°	9800.5	9714.8	9733.1	10216.7	10712.6	11046.2	10926.8	10651.3	10204.5	9812.7	9723.9
50°	10415.7	10317.7	10345.3	10853.4	11389.0	11704.2	11520.6	11113.5	10620.7	10238.1	10161.6
52.5°	11027.8	10911.5	10981.9	11462.4	12016.4	12267.4	11927.7	11434.9	10957.4	10577.9	10492.2
55°	11731.8	11609.4	11532.8	12047.0	12594.9	12699.0	12233.7	11658.3	11092.1	10660.5	10608.5
57.5°	12374.5	12270.5	12126.6	12640.8	13044.8	12968.3	12469.4	11597.1	10764.6	10210.6	10137.1
60°	12950.0	12861.2	12735.7	13173.4	13357.0	13185.6	12279.7	10871.7	9956.6	9378.1	9344.4
62.5°	13479.5	13384.6	13268.3	13641.7	13617.2	13219.3	11416.5	9757.6	8533.3	7912.0	7856.9
65°	13898.8	13813.1	13779.4	14073.2	14033.5	12561.2	10072.9	7933.4	6234.7	5533.8	5512.4
67.5°	14018.2	13984.5	14165.1	14664.0	14042.6	11239.0	7899.7	5261.4	3348.4	2684.3	2644.5
70°	13571.3	13568.2	14085.5	14798.6	12769.4	8585.4	4661.5	2372.1	1683.4	1493.6	1469.2
72.5°	12989.7	12980.6	13390.7	12766.3	9469.9	4698.2	1961.9	1270.2	1052.9	1000.9	1000.9
75°	12034.8	12010.3	12319.4	9711.7	5325.7	1769.1	1040.6	872.3	826.4	817.2	817.2
77.5°	9809.6	9604.6	9117.9	6002.1	1857.9	869.2	688.7	685.6	658.1	655.0	655.0
80°	3226.0	3226.0	3749.4	2289.4	820.3	535.6	486.7	511.1	483.6	465.2	462.2
82.5°	526.4	725.4	1031.5	655.0	443.8	333.6	300.0	318.3	333.6	266.3	266.3
85°	208.1	272.4	397.9	306.1	205.1	134.7	143.9	159.2	140.8	122.4	119.4
87.5°	79.6	97.9	140.8	73.5	42.9	24.5	15.3	15.3	12.2	12.2	12.2
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)