

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: P643803

Luminaire Tested: GWS-SA6F-760-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643803  
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-SA6F-760-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (96) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

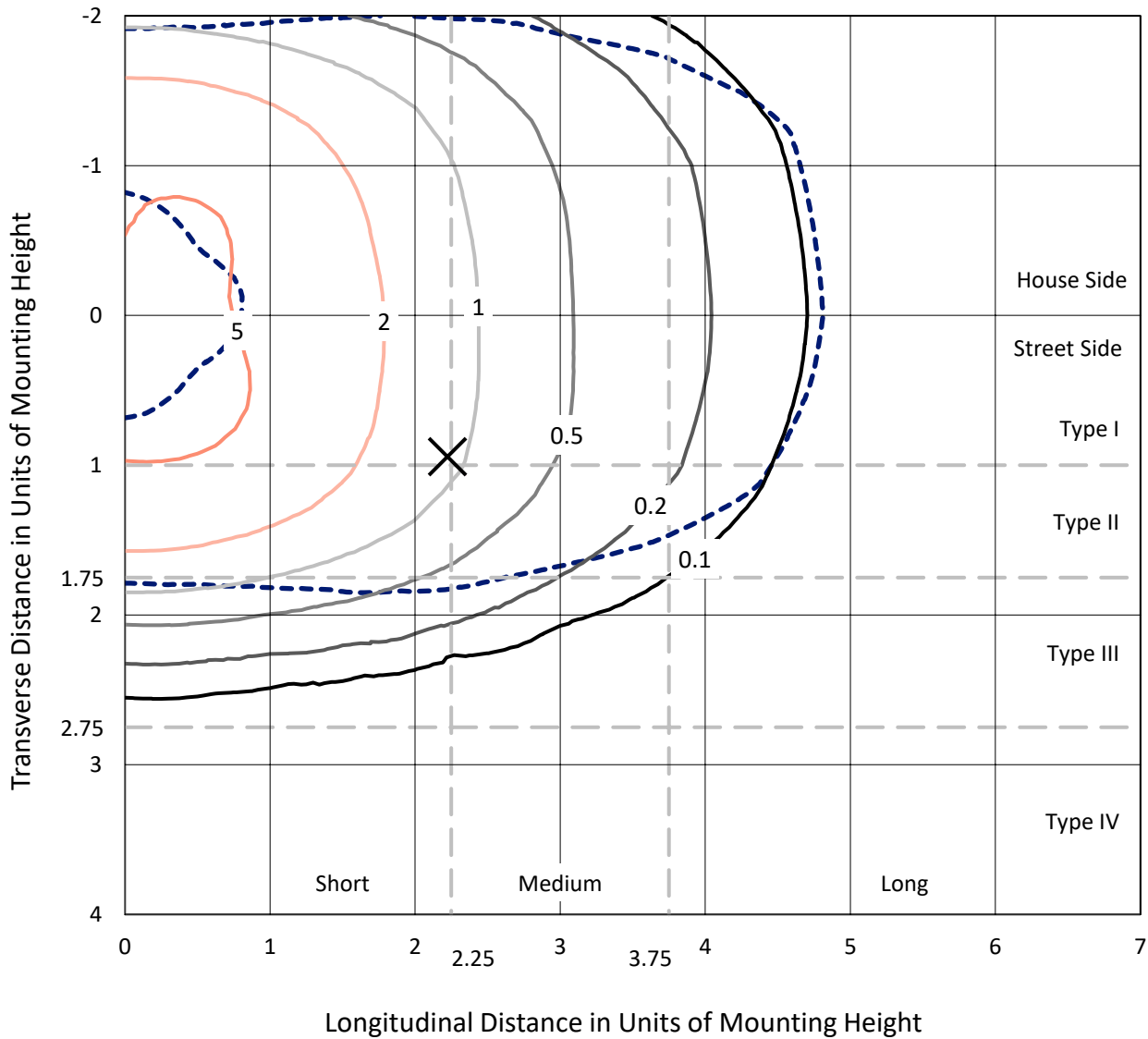
Lumens per Lamp: N/A  
Luminaire Lumens: 51690.5 lumens  
Efficiency: N/A  
Efficacy: 138.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): 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

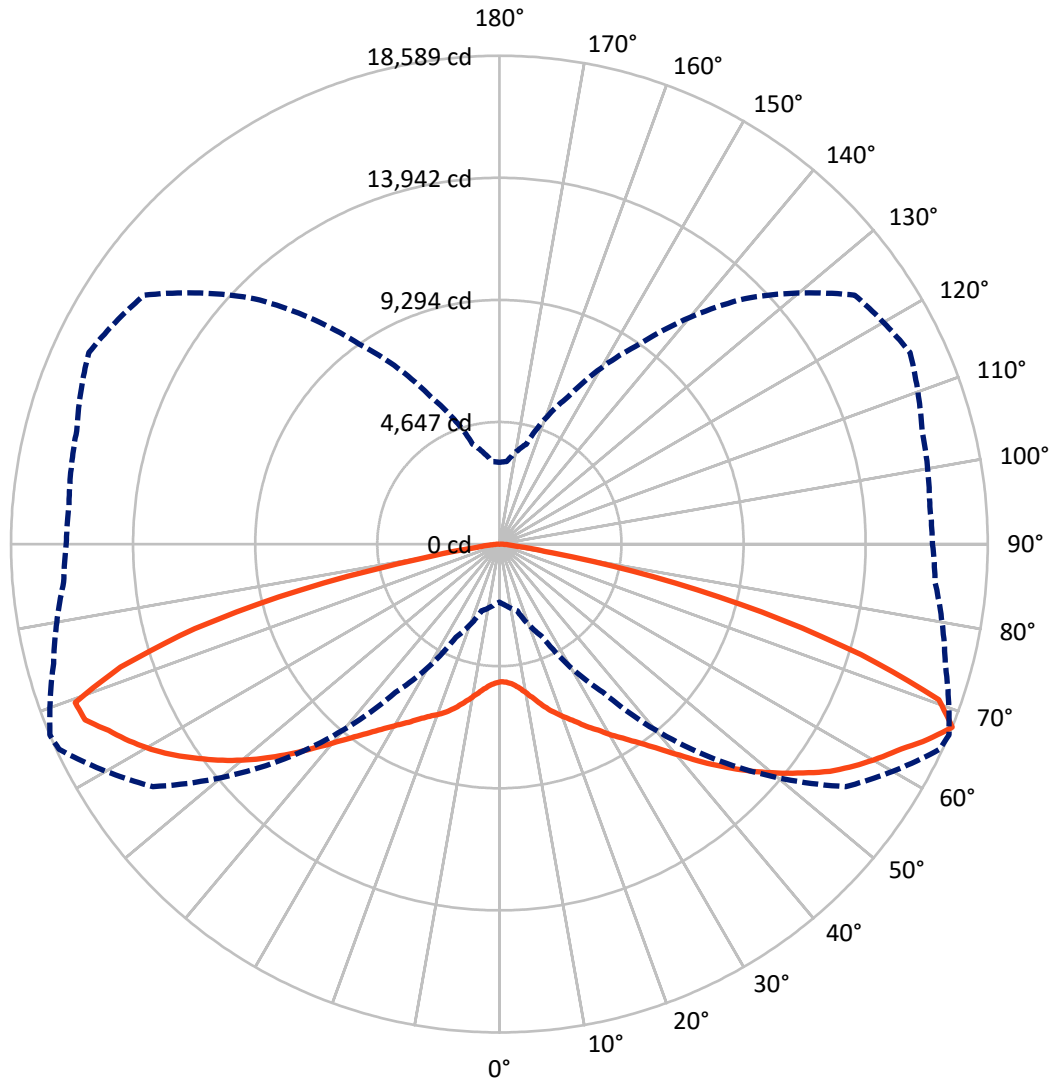
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 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	25560.0	0.0	25560.0
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	26130.5	0.0	26130.5
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	51690.5	0.0	51690.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	513.5	1.0
10°-20°	1734.9	3.4
20°-30°	3403.8	6.6
30°-40°	5798.9	11.2
40°-50°	9311.9	18.0
50°-60°	12652.9	24.5
60°-70°	12103.3	23.4
70°-80°	5754.4	11.1
80°-90°	417.0	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°	51690.5	100.0
0°-180°	51690.5	100.0

**Coefficient of Utilization**



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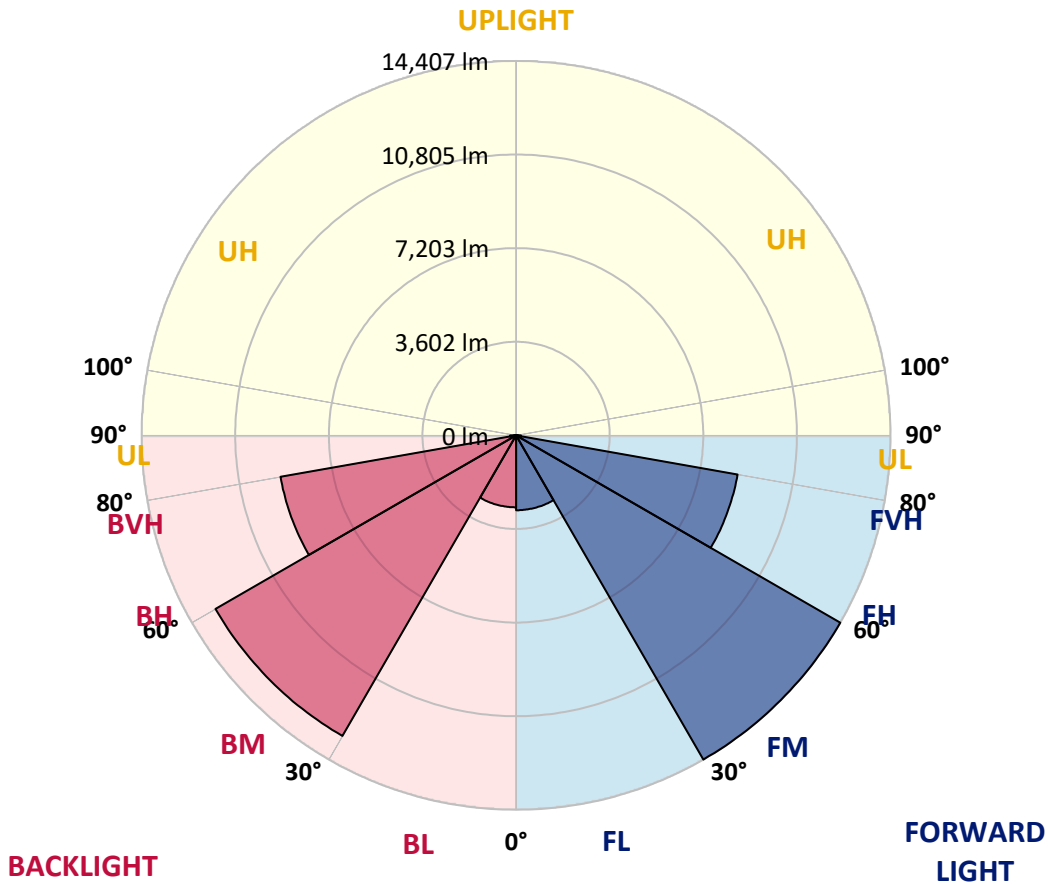
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2882.1	5.6			
FM (30°-60°)	14406.6	27.9			
FH (60°-80°)	8654.3	16.7			G4/12000
FVH (80°-90°)	187.4	0.4			G2/225
BL (0°-30°)	2770.0	5.4	B4/5000		
BM (30°-60°)	13357.1	25.8	B5		
BH (60°-80°)	9203.4	17.8	B5		G5
BVH (80°-90°)	229.6	0.4			G3/500
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°	5234.0	5234.0	5234.0	5234.0	5234.0	5234.0	5234.0	5234.0	5234.0	5234.0	5234.0
2.5°	5126.0	5133.2	5144.0	5165.6	5187.2	5219.6	5251.9	5248.4	5262.7	5273.5	5284.3
5°	5097.2	5104.4	5122.4	5151.2	5183.6	5237.6	5305.9	5334.7	5356.3	5395.9	5431.9
7.5°	5158.4	5172.8	5198.0	5237.6	5287.9	5356.3	5449.9	5500.3	5532.7	5604.7	5665.9
10°	5241.2	5259.1	5309.5	5385.1	5460.7	5565.1	5683.9	5759.5	5781.1	5874.7	5989.9
12.5°	5320.3	5341.9	5424.7	5561.5	5698.3	5838.7	5979.1	6072.7	6079.9	6205.9	6335.5
15°	5446.3	5464.3	5575.9	5752.3	5961.1	6155.5	6328.3	6393.1	6421.8	6511.8	6673.8
17.5°	5723.5	5745.1	5889.1	6079.9	6299.5	6504.6	6677.4	6731.4	6731.4	6807.0	6940.2
20°	6022.3	6043.9	6234.7	6479.4	6745.8	6954.6	7087.8	7037.4	7019.4	7041.0	7134.6
22.5°	6357.1	6396.7	6580.2	6864.6	7192.2	7447.8	7516.2	7365.0	7314.6	7264.2	7285.8
25°	6785.4	6832.2	7012.2	7314.6	7634.9	7904.9	7944.5	7710.5	7681.7	7505.4	7440.6
27.5°	7278.6	7314.6	7537.8	7836.5	8135.3	8362.1	8405.3	8117.3	8020.1	7775.3	7624.1
30°	7915.7	7948.1	8142.5	8437.7	8696.9	8855.2	8909.2	8513.3	8437.7	8063.3	7829.3
32.5°	8610.5	8624.9	8822.8	9107.2	9337.6	9488.8	9413.2	8952.4	8840.8	8419.7	8099.3
35°	9406.0	9406.0	9661.6	9892.0	10075.5	10118.7	9974.7	9449.2	9319.6	8862.4	8462.9
37.5°	10187.1	10208.7	10446.3	10719.9	10881.9	10874.7	10611.9	10035.9	9888.4	9391.6	8948.8
40°	11033.1	11079.9	11317.4	11623.4	11778.2	11756.6	11353.4	10712.7	10561.5	9974.7	9542.8
42.5°	11810.6	11886.2	12163.4	12476.5	12645.7	12631.3	12210.2	11490.2	11342.6	10680.3	10248.3
45°	12429.7	12508.9	12854.5	13290.1	13560.0	13534.8	13110.1	12296.5	12116.6	11421.8	10946.7
47.5°	12973.3	13056.1	13441.2	13902.0	14330.4	14373.6	13984.8	13110.1	12919.3	12217.4	11681.0
50°	13390.9	13430.4	13862.4	14366.4	14863.1	15104.3	14765.9	13927.2	13696.8	13002.1	12397.3
52.5°	13358.5	13412.5	13945.2	14629.1	15295.1	15691.1	15457.1	14697.5	14474.4	13718.4	13128.1
55°	12699.7	12753.7	13387.3	14384.4	15536.3	16119.4	16094.2	15431.9	15269.9	14449.2	13887.6
57.5°	11738.6	11857.4	12487.3	13563.6	15219.5	16461.4	16562.2	16101.4	15932.2	15165.5	14639.9
60°	10017.9	10176.3	10903.5	12300.1	14204.4	16346.2	17062.5	16666.6	16562.2	15831.4	15320.3
62.5°	7278.6	7393.8	8362.1	10194.3	12699.7	15525.5	17483.7	17249.7	17170.5	16429.0	15935.8
65°	4359.2	4622.0	5399.5	7210.2	10244.7	13977.6	17253.3	18012.9	17930.1	17044.5	16461.4
67.5°	2206.6	2325.4	2631.4	3909.3	6889.8	11565.8	16097.8	18488.0	18588.8	17570.1	16648.6
70°	1367.9	1400.3	1486.7	1929.4	3441.3	7598.9	13164.1	17249.7	17742.9	17487.3	16162.6
72.5°	1097.9	1105.1	1119.5	1202.3	1652.3	3552.9	8322.5	13509.6	14398.8	16331.8	15467.9
75°	910.7	914.3	917.9	943.1	1029.5	1450.7	4049.7	9283.6	10323.9	13880.4	14341.2
77.5°	730.7	712.7	727.1	737.9	759.5	809.9	1396.7	4953.2	6007.9	9110.8	11090.6
80°	475.2	468.0	496.8	507.6	529.2	561.6	745.1	1681.1	2041.0	3315.3	3527.7
82.5°	255.6	241.2	302.4	291.6	302.4	327.6	439.2	615.5	691.1	1000.7	845.9
85°	79.2	79.2	82.8	97.2	118.8	115.2	190.8	302.4	334.8	428.4	316.8
87.5°	14.4	14.4	14.4	14.4	14.4	18.0	39.6	61.2	82.8	147.6	111.6
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°	5234.0	5234.0	5234.0	5234.0	5234.0	5234.0	5234.0	5234.0	5234.0	5234.0	5234.0
2.5°	5305.9	5273.5	5291.5	5302.3	5298.7	5291.5	5255.5	5248.4	5230.4	5201.6	5194.4
5°	5464.3	5428.3	5431.9	5421.1	5385.1	5338.3	5259.1	5219.6	5187.2	5151.2	5147.6
7.5°	5712.7	5673.1	5662.3	5611.9	5511.1	5403.1	5277.1	5205.2	5151.2	5104.4	5097.2
10°	6029.5	5989.9	5953.9	5835.1	5669.5	5525.5	5359.9	5255.5	5176.4	5118.8	5108.0
12.5°	6382.3	6349.9	6259.9	6087.1	5889.1	5719.9	5550.7	5421.1	5305.9	5219.6	5208.8
15°	6774.6	6702.6	6565.8	6342.7	6155.5	6018.7	5813.5	5637.1	5453.5	5338.3	5313.1
17.5°	7048.2	6987.0	6825.0	6609.0	6461.4	6342.7	6101.5	5849.5	5601.1	5431.9	5395.9
20°	7242.6	7177.8	6994.2	6835.8	6789.0	6688.2	6407.5	6115.9	5827.9	5619.1	5572.3
22.5°	7383.0	7314.6	7127.4	7048.2	7113.0	7095.0	6821.4	6490.2	6148.3	5899.9	5842.3
25°	7516.2	7451.4	7285.8	7314.6	7487.4	7541.4	7246.2	6861.0	6472.2	6180.7	6112.3
27.5°	7642.1	7559.4	7483.8	7642.1	7886.9	7987.7	7674.5	7239.0	6817.8	6519.0	6465.0
30°	7836.5	7739.3	7728.5	7958.9	8347.7	8434.1	8088.5	7652.9	7235.4	6933.0	6864.6
32.5°	8081.3	7991.3	7998.5	8344.1	8794.0	8866.0	8570.9	8164.1	7746.5	7444.2	7350.6
35°	8412.5	8300.9	8362.1	8786.8	9240.4	9373.6	9136.0	8797.6	8390.9	8081.3	7976.9
37.5°	8869.6	8707.7	8833.6	9280.0	9737.2	9935.1	9751.6	9499.6	9096.4	8783.2	8686.1
40°	9452.8	9319.6	9370.0	9863.2	10334.7	10572.3	10457.1	10208.7	9809.2	9481.6	9370.0
42.5°	10143.9	10010.7	9992.7	10518.3	10989.9	11349.8	11238.2	11011.5	10597.5	10223.1	10115.1
45°	10820.7	10698.3	10723.5	11259.8	11789.0	12181.4	12069.8	11803.4	11353.4	10921.5	10835.1
47.5°	11526.2	11425.4	11447.0	12015.8	12598.9	12991.3	12850.9	12526.9	12001.4	11540.6	11436.2
50°	12249.7	12134.6	12167.0	12764.5	13394.5	13765.2	13549.2	13070.5	12490.9	12041.0	11951.0
52.5°	12969.7	12832.9	12915.7	13480.8	14132.4	14427.6	14028.0	13448.4	12886.9	12440.5	12339.7
55°	13797.6	13653.6	13563.6	14168.4	14812.7	14935.1	14388.0	13711.2	13045.3	12537.7	12476.5
57.5°	14553.6	14431.2	14262.0	14866.7	15341.9	15251.9	14665.1	13639.2	12660.1	12008.6	11922.2
60°	15230.3	15125.9	14978.3	15493.1	15709.1	15507.5	14442.0	12786.1	11709.8	11029.5	10989.9
62.5°	15853.0	15741.5	15604.7	16043.8	16015.0	15547.1	13426.8	11475.8	10035.9	9305.2	9240.4
65°	16346.2	16245.4	16205.8	16551.4	16504.6	14773.1	11846.6	9330.4	7332.6	6508.2	6483.0
67.5°	16486.6	16447.0	16659.4	17246.1	16515.4	13218.1	9290.8	6187.9	3938.1	3156.9	3110.1
70°	15961.0	15957.4	16565.8	17404.5	15017.9	10097.1	5482.3	2789.8	1979.8	1756.6	1727.9
72.5°	15277.1	15266.3	15748.6	15014.3	11137.4	5525.5	2307.4	1493.9	1238.3	1177.1	1177.1
75°	14154.0	14125.2	14488.8	11421.8	6263.5	2080.6	1223.9	1025.9	971.9	961.1	961.1
77.5°	11537.0	11295.8	10723.5	7059.0	2185.0	1022.3	809.9	806.3	773.9	770.3	770.3
80°	3794.1	3794.1	4409.6	2692.6	964.7	629.9	572.4	601.1	568.8	547.2	543.6
82.5°	619.1	853.1	1213.1	770.3	522.0	392.4	352.8	374.4	392.4	313.2	313.2
85°	244.8	320.4	468.0	360.0	241.2	158.4	169.2	187.2	165.6	144.0	140.4
87.5°	93.6	115.2	165.6	86.4	50.4	28.8	18.0	18.0	14.4	14.4	14.4
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)