

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: P643748

Luminaire Tested: GWS-SA6F-750-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643748  
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-750-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

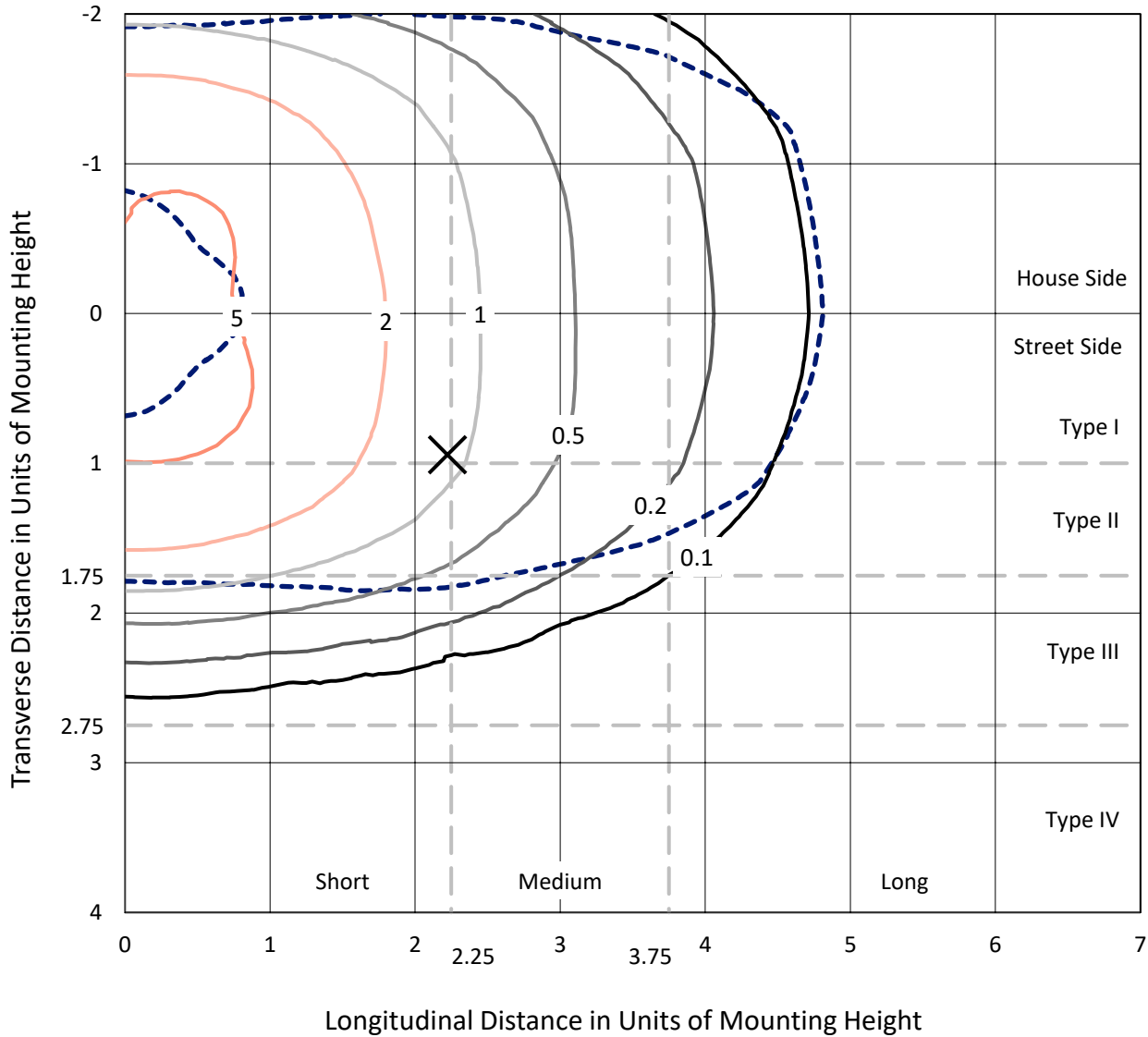
Lumens per Lamp: N/A  
Luminaire Lumens: 52408.7 lumens  
Efficiency: N/A  
Efficacy: 140.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): 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

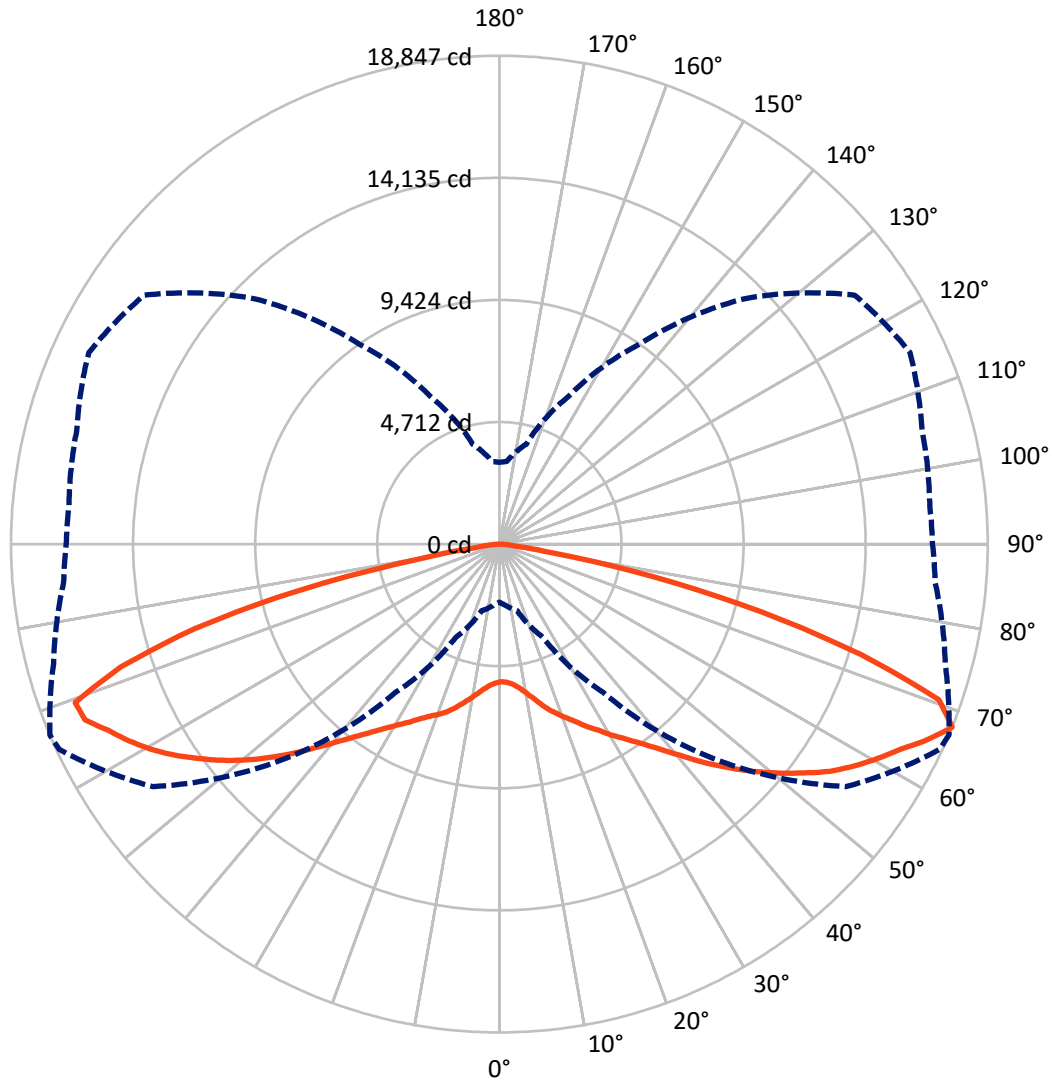
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 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	25915.2	0.0	25915.2
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	26493.5	0.0	26493.5
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	52408.7	0.0	52408.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	520.7	1.0
10°-20°	1759.0	3.4
20°-30°	3451.0	6.6
30°-40°	5879.5	11.2
40°-50°	9441.3	18.0
50°-60°	12828.7	24.5
60°-70°	12271.5	23.4
70°-80°	5834.3	11.1
80°-90°	422.8	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°	52408.7	100.0
0°-180°	52408.7	100.0

**Coefficient of Utilization**



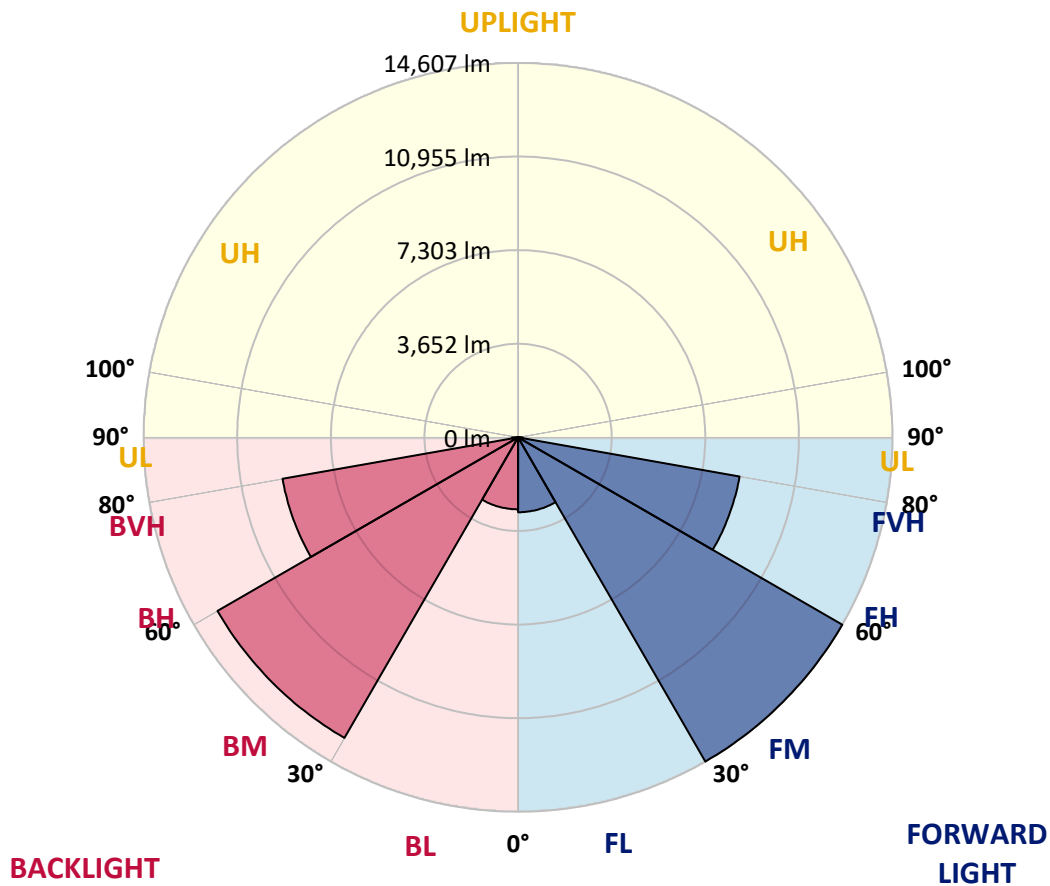
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2922.2	5.6			
FM (30°-60°)	14606.8	27.9			
FH (60°-80°)	8774.6	16.7			G4/12000
FVH (80°-90°)	190.0	0.4			G2/225
BL (0°-30°)	2808.5	5.4	B4/5000		
BM (30°-60°)	13542.7	25.8	B5		
BH (60°-80°)	9331.2	17.8	B5		G5
BVH (80°-90°)	232.8	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°	5306.7	5306.7	5306.7	5306.7	5306.7	5306.7	5306.7	5306.7	5306.7	5306.7	5306.7
2.5°	5197.2	5204.5	5215.4	5237.3	5259.2	5292.1	5324.9	5321.3	5335.9	5346.8	5357.8
5°	5168.0	5175.3	5193.5	5222.7	5255.6	5310.3	5379.7	5408.9	5430.8	5470.9	5507.4
7.5°	5230.0	5244.6	5270.2	5310.3	5361.4	5430.8	5525.7	5576.8	5609.6	5682.6	5744.6
10°	5314.0	5332.2	5383.3	5460.0	5536.6	5642.4	5762.9	5839.5	5861.4	5956.3	6073.1
12.5°	5394.3	5416.2	5500.1	5638.8	5777.5	5919.8	6062.2	6157.1	6164.4	6292.1	6423.5
15°	5522.0	5540.3	5653.4	5832.2	6043.9	6241.0	6416.2	6481.9	6511.1	6602.3	6766.6
17.5°	5803.0	5824.9	5970.9	6164.4	6387.0	6595.0	6770.2	6825.0	6825.0	6901.6	7036.6
20°	6106.0	6127.9	6321.3	6569.5	6839.5	7051.2	7186.3	7135.2	7116.9	7138.8	7233.7
22.5°	6445.4	6485.5	6671.7	6960.0	7292.1	7551.2	7620.6	7467.3	7416.2	7365.1	7387.0
25°	6879.7	6927.1	7109.6	7416.2	7741.0	8014.8	8054.9	7817.7	7788.5	7609.6	7543.9
27.5°	7379.7	7416.2	7642.5	7945.4	8248.3	8478.3	8522.1	8230.1	8131.5	7883.4	7730.1
30°	8025.7	8058.6	8255.6	8554.9	8817.7	8978.3	9033.0	8631.6	8554.9	8175.3	7938.1
32.5°	8730.1	8744.7	8945.4	9233.8	9467.3	9620.6	9544.0	9076.8	8963.7	8536.7	8211.8
35°	9536.7	9536.7	9795.8	10029.4	10215.5	10259.3	10113.3	9580.5	9449.1	8985.6	8580.5
37.5°	10328.7	10350.6	10591.4	10868.8	11033.1	11025.8	10759.3	10175.4	10025.7	9522.1	9073.2
40°	11186.3	11233.8	11474.7	11784.9	11941.8	11919.9	11511.2	10861.5	10708.2	10113.3	9675.4
42.5°	11974.7	12051.3	12332.4	12649.9	12821.4	12806.8	12379.8	11649.9	11500.2	10828.7	10390.7
45°	12602.4	12682.7	13033.1	13474.7	13748.4	13722.9	13292.2	12467.4	12284.9	11580.5	11098.8
47.5°	13153.5	13237.5	13628.0	14095.2	14529.5	14573.3	14179.1	13292.2	13098.8	12387.1	11843.3
50°	13576.9	13617.1	14055.0	14566.0	15069.6	15314.2	14971.1	14120.7	13887.1	13182.7	12569.6
52.5°	13544.1	13598.8	14139.0	14832.4	15507.6	15909.1	15671.8	14901.8	14675.5	13909.0	13310.5
55°	12876.2	12930.9	13573.3	14584.2	15752.1	16343.4	16317.8	15646.3	15482.1	14649.9	14080.6
57.5°	11901.7	12022.1	12660.8	13752.1	15431.0	16690.1	16792.3	16325.1	16153.6	15376.2	14843.4
60°	10157.1	10317.7	11055.0	12471.0	14401.7	16573.3	17299.6	16898.1	16792.3	16051.4	15533.2
62.5°	7379.7	7496.5	8478.3	10336.0	12876.2	15741.2	17726.6	17489.4	17409.1	16657.3	16157.2
65°	4419.8	4686.2	5474.6	7310.4	10387.1	14171.8	17493.0	18263.1	18179.2	17281.4	16690.1
67.5°	2237.3	2357.7	2667.9	3963.6	6985.5	11726.5	16321.5	18744.9	18847.1	17814.2	16879.9
70°	1386.9	1419.7	1507.3	1956.2	3489.1	7704.5	13347.0	17489.4	17989.4	17730.3	16387.2
72.5°	1113.2	1120.5	1135.1	1219.0	1675.2	3602.3	8438.1	13697.3	14598.8	16558.7	15682.8
75°	923.4	927.0	930.7	956.2	1043.8	1470.8	4105.9	9412.6	10467.4	14073.3	14540.4
77.5°	740.9	722.6	737.2	748.2	770.1	821.2	1416.1	5022.0	6091.4	9237.4	11244.7
80°	481.8	474.5	503.7	514.6	536.5	569.4	755.5	1704.4	2069.4	3361.4	3576.7
82.5°	259.1	244.5	306.6	295.6	306.6	332.1	445.3	624.1	700.7	1014.6	857.7
85°	80.3	80.3	83.9	98.5	120.4	116.8	193.4	306.6	339.4	434.3	321.2
87.5°	14.6	14.6	14.6	14.6	14.6	18.2	40.1	62.0	83.9	149.6	113.1
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°	5306.7	5306.7	5306.7	5306.7	5306.7	5306.7	5306.7	5306.7	5306.7	5306.7	5306.7
2.5°	5379.7	5346.8	5365.1	5376.0	5372.4	5365.1	5328.6	5321.3	5303.0	5273.8	5266.5
5°	5540.3	5503.8	5507.4	5496.5	5460.0	5412.5	5332.2	5292.1	5259.2	5222.7	5219.1
7.5°	5792.1	5751.9	5741.0	5689.9	5587.7	5478.2	5350.5	5277.5	5222.7	5175.3	5168.0
10°	6113.3	6073.1	6036.6	5916.2	5748.3	5602.3	5434.4	5328.6	5248.3	5189.9	5178.9
12.5°	6470.9	6438.1	6346.8	6171.7	5970.9	5799.4	5627.8	5496.5	5379.7	5292.1	5281.1
15°	6868.7	6795.8	6657.1	6430.8	6241.0	6102.3	5894.3	5715.4	5529.3	5412.5	5387.0
17.5°	7146.1	7084.1	6919.8	6700.9	6551.2	6430.8	6186.3	5930.8	5678.9	5507.4	5470.9
20°	7343.2	7277.5	7091.4	6930.8	6883.3	6781.2	6496.5	6200.9	5908.9	5697.2	5649.7
22.5°	7485.5	7416.2	7226.4	7146.1	7211.8	7193.6	6916.2	6580.4	6233.7	5981.9	5923.5
25°	7620.6	7554.9	7387.0	7416.2	7591.4	7646.1	7346.9	6956.3	6562.2	6266.5	6197.2
27.5°	7748.3	7664.4	7587.7	7748.3	7996.5	8098.7	7781.2	7339.6	6912.5	6609.6	6554.9
30°	7945.4	7846.9	7835.9	8069.5	8463.7	8551.3	8200.9	7759.3	7335.9	7029.3	6960.0
32.5°	8193.6	8102.3	8109.6	8460.0	8916.2	8989.2	8690.0	8277.5	7854.2	7547.6	7452.7
35°	8529.4	8416.2	8478.3	8908.9	9368.8	9503.8	9263.0	8919.9	8507.5	8193.6	8087.7
37.5°	8992.9	8828.6	8956.4	9408.9	9872.5	10073.2	9887.1	9631.6	9222.8	8905.3	8806.7
40°	9584.1	9449.1	9500.2	10000.2	10478.3	10719.2	10602.4	10350.6	9945.4	9613.3	9500.2
42.5°	10284.9	10149.8	10131.6	10664.4	11142.6	11507.5	11394.4	11164.5	10744.7	10365.2	10255.7
45°	10971.0	10846.9	10872.5	11416.3	11952.8	12350.6	12237.5	11967.4	11511.2	11073.2	10985.6
47.5°	11686.4	11584.2	11606.1	12182.7	12774.0	13171.8	13029.5	12701.0	12168.1	11701.0	11595.1
50°	12420.0	12303.2	12336.0	12941.9	13580.6	13956.5	13737.5	13252.1	12664.5	12208.3	12117.0
52.5°	13149.9	13011.2	13095.1	13668.2	14328.7	14628.0	14222.9	13635.3	13065.9	12613.4	12511.2
55°	13989.3	13843.3	13752.1	14365.2	15018.5	15142.6	14587.9	13901.7	13226.5	12711.9	12649.9
57.5°	14755.8	14631.7	14460.1	15073.3	15555.0	15463.8	14868.9	13828.7	12836.0	12175.4	12087.8
60°	15441.9	15336.1	15186.4	15708.3	15927.3	15722.9	14642.6	12963.8	11872.5	11182.7	11142.6
62.5°	16073.3	15960.2	15821.5	16266.7	16237.5	15763.1	13613.4	11635.3	10175.4	9434.5	9368.8
65°	16573.3	16471.1	16431.0	16781.3	16733.9	14978.4	12011.2	9460.0	7434.5	6598.7	6573.1
67.5°	16715.7	16675.5	16890.8	17485.7	16744.9	13401.7	9419.9	6273.8	3992.8	3200.8	3153.3
70°	16182.8	16179.1	16795.9	17646.3	15226.6	10237.4	5558.5	2828.5	2007.3	1781.1	1751.9
72.5°	15489.4	15478.4	15967.5	15222.9	11292.2	5602.3	2339.5	1514.6	1255.5	1193.5	1193.5
75°	14350.6	14321.4	14690.1	11580.5	6350.5	2109.5	1240.9	1040.2	985.4	974.5	974.5
77.5°	11697.3	11452.8	10872.5	7157.1	2215.4	1036.5	821.2	817.5	784.7	781.0	781.0
80°	3846.8	3846.8	4470.9	2730.0	978.1	638.7	580.3	609.5	576.7	554.8	551.1
82.5°	627.7	865.0	1230.0	781.0	529.2	397.8	357.7	379.6	397.8	317.5	317.5
85°	248.2	324.8	474.5	365.0	244.5	160.6	171.5	189.8	167.9	146.0	142.3
87.5°	94.9	116.8	167.9	87.6	51.1	29.2	18.2	18.2	14.6	14.6	14.6
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)