

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: P643785

Luminaire Tested: GWS-SA6F-750-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643785  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6F-750-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

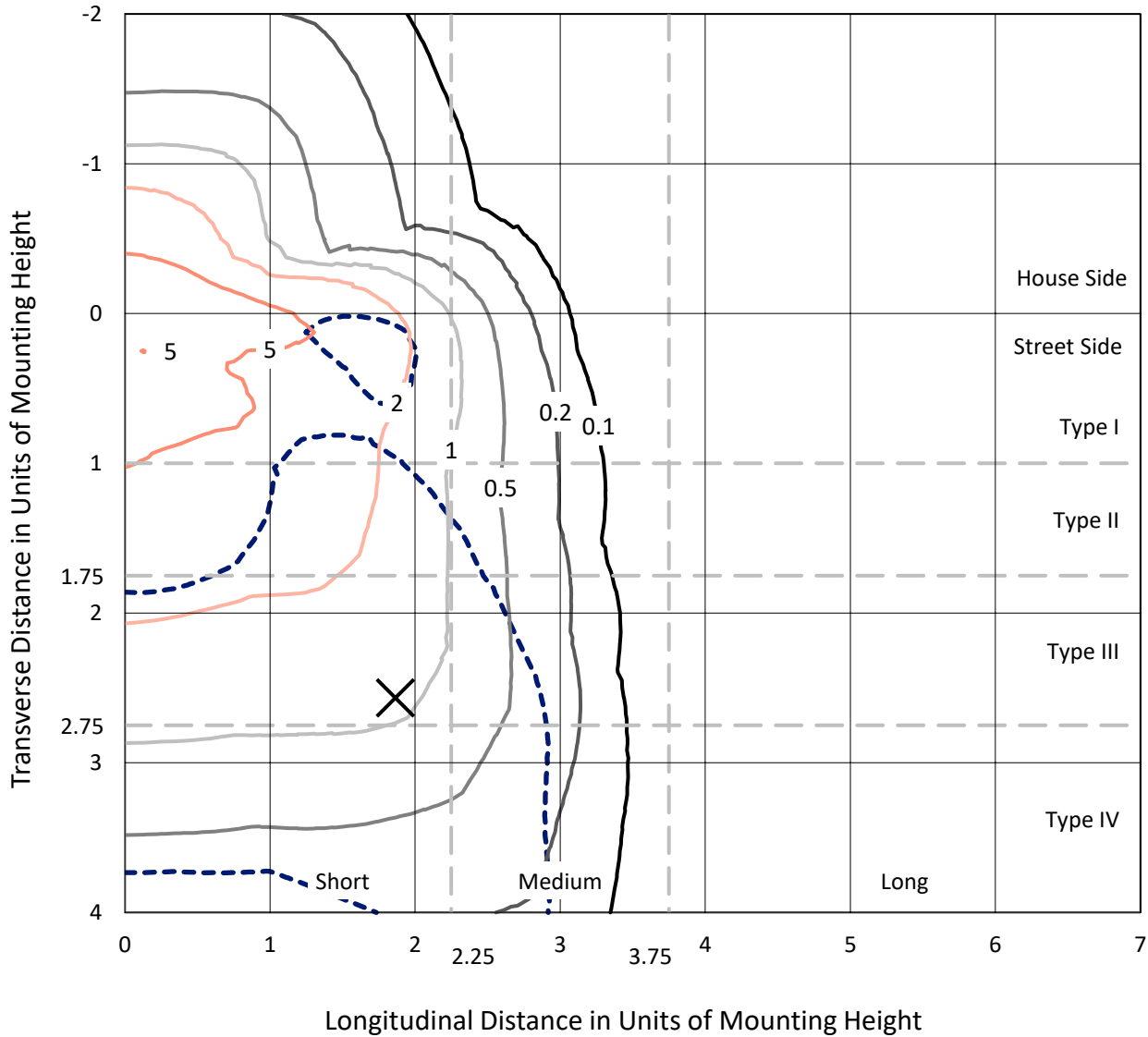
Lumens per Lamp: N/A  
Luminaire Lumens: 49175.2 lumens  
Efficiency: N/A  
Efficacy: 132.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

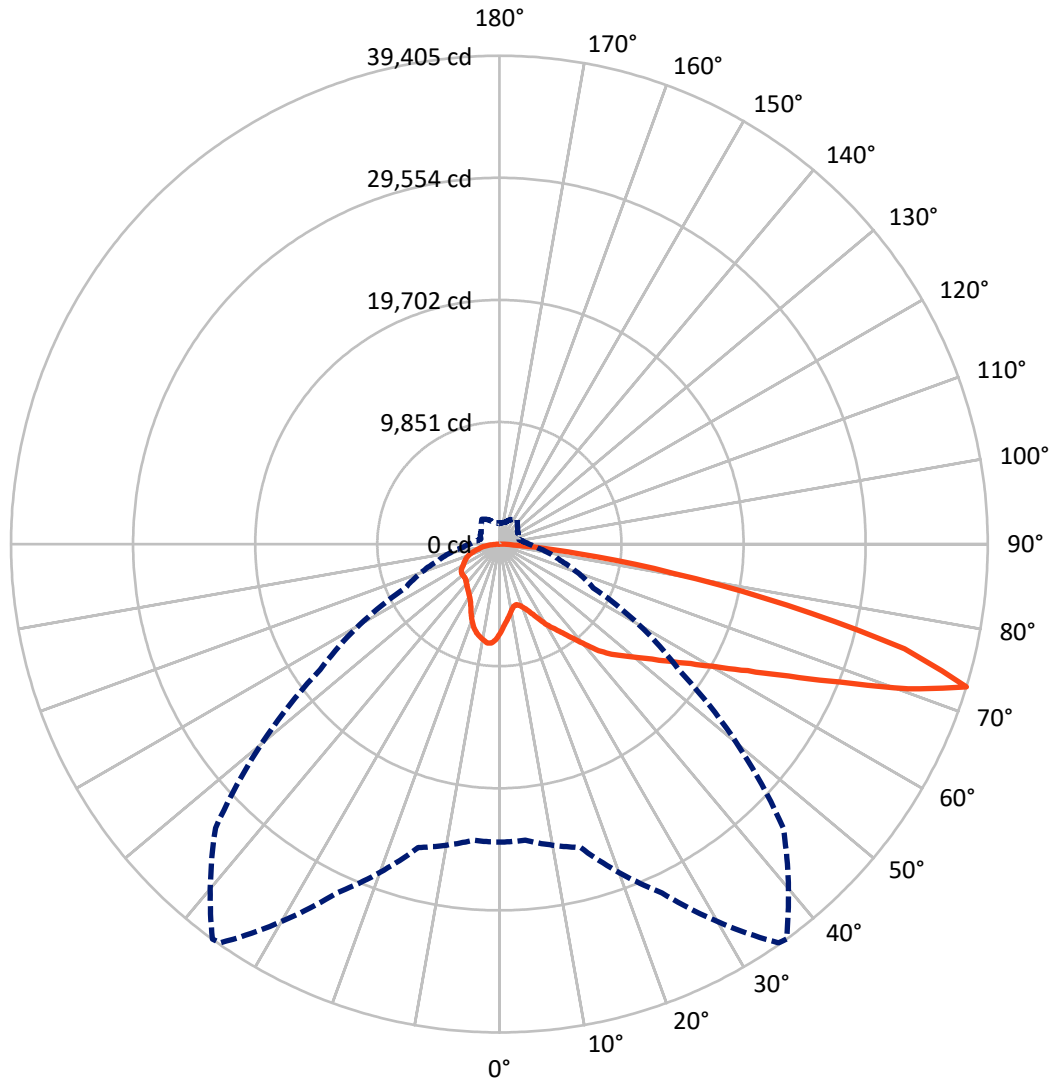
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11337.0	0.0	11337.0
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	37838.2	0.0	37838.2
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	49175.2	0.0	49175.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	672.7	1.4
10°-20°	1898.0	3.9
20°-30°	3143.4	6.4
30°-40°	4707.5	9.6
40°-50°	6867.8	14.0
50°-60°	9774.9	19.9
60°-70°	12349.9	25.1
70°-80°	8800.4	17.9
80°-90°	960.7	2.0
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°	49175.2	100.0
0°-180°	49175.2	100.0

**Coefficient of Utilization**



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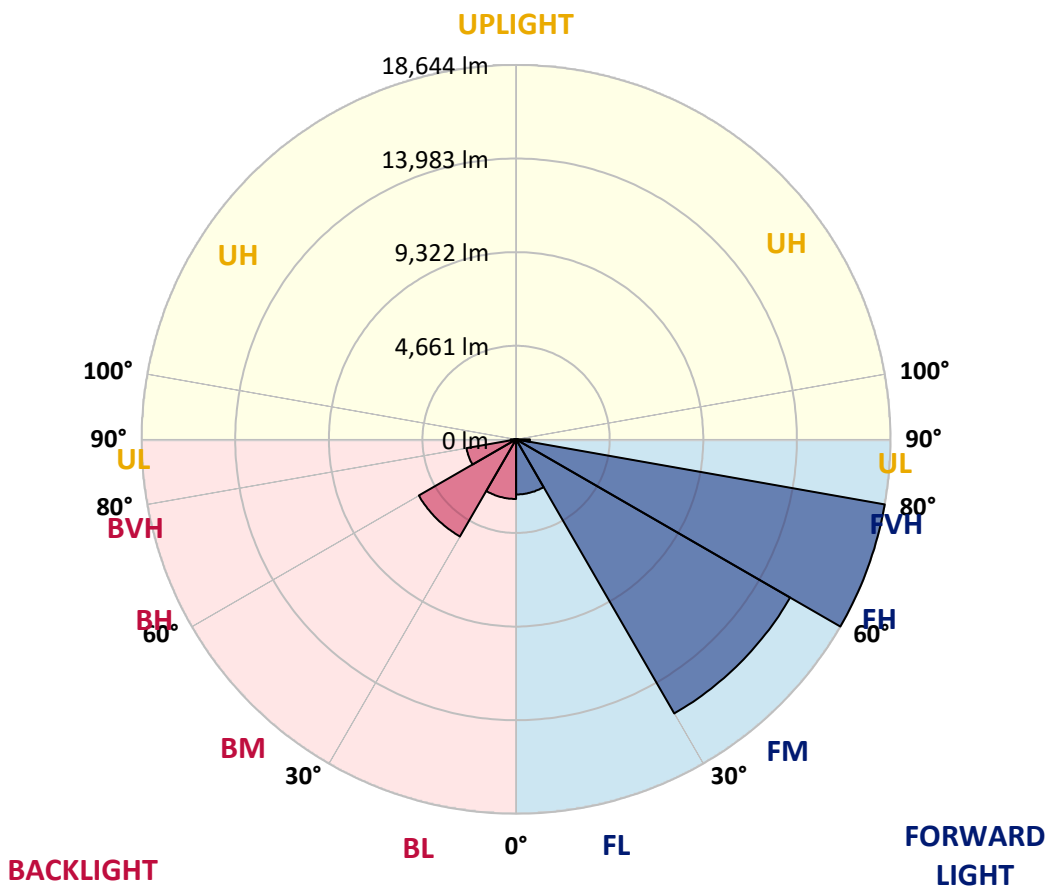
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2745.3	5.6			
FM (30°-60°)	15759.4	32.0			
FH (60°-80°)	18643.9	37.9			G5
FVH (80°-90°)	689.5	1.4			G4/750
BL (0°-30°)	2968.8	6.0	B4/5000		
BM (30°-60°)	5590.7	11.4	B4/8500		
BH (60°-80°)	2506.3	5.1	B4/5000		G4/5000
BVH (80°-90°)	271.1	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	7197.0	7197.0	7197.0	7197.0	7197.0	7197.0	7197.0	7197.0	7197.0	7197.0	7197.0
2.5°	6565.6	6554.7	6532.8	6598.5	6664.2	6656.9	6748.1	6835.7	6930.6	7029.1	7160.5
5°	6040.1	6032.8	6014.5	6113.1	6211.6	6208.0	6357.6	6499.9	6693.4	6905.0	7167.8
7.5°	5514.5	5496.3	5521.8	5645.9	5784.6	5799.2	6003.6	6237.2	6518.2	6835.7	7208.0
10°	5051.0	5047.4	5058.3	5197.0	5405.1	5419.7	5682.4	6007.2	6379.5	6802.9	7299.2
12.5°	4930.6	4923.3	4894.1	4963.5	5120.4	5142.3	5430.6	5828.4	6284.6	6821.1	7423.3
15°	5127.7	5109.4	5007.3	4974.4	5051.0	5069.3	5313.8	5722.6	6229.9	6853.9	7580.2
17.5°	5467.1	5456.2	5262.7	5127.7	5178.8	5193.4	5375.9	5704.3	6215.3	6919.6	7773.6
20°	5963.4	5916.0	5613.1	5408.7	5408.7	5430.6	5540.1	5784.6	6233.5	6999.9	7992.6
22.5°	6620.4	6525.5	6098.5	5821.1	5748.1	5777.3	5824.8	5985.3	6310.2	7135.0	8266.3
25°	7357.6	7270.0	6762.7	6372.2	6270.0	6281.0	6240.8	6270.0	6478.0	7321.1	8605.8
27.5°	8142.3	8083.9	7543.7	7047.4	6886.8	6886.8	6744.5	6675.1	6711.6	7532.8	8985.3
30°	8843.0	8762.7	8306.5	7762.7	7551.0	7551.0	7281.0	7131.3	7043.7	7791.9	9492.6
32.5°	9211.6	9164.1	8861.2	8445.2	8186.1	8145.9	7912.3	7737.2	7532.8	8175.1	10178.7
35°	9693.3	9682.4	9499.9	9175.1	8846.6	8788.2	8627.7	8489.0	8135.0	8653.2	11091.1
37.5°	10299.2	10280.9	10251.7	10058.3	9664.1	9653.2	9510.9	9343.0	8883.1	9343.0	12197.0
40°	10978.0	10945.1	10908.7	10905.0	10667.8	10627.6	10616.7	10426.9	9784.6	10175.1	13350.2
42.5°	11912.3	11799.2	11456.1	11609.4	11784.6	11748.1	11886.7	11602.1	10908.7	11164.1	14441.5
45°	13061.9	12784.5	12105.7	12149.5	12591.1	12664.1	13145.9	13076.5	12145.9	12306.5	15591.1
47.5°	13751.7	13510.8	12879.4	12842.9	13394.0	13485.3	14532.7	14664.1	13478.0	13682.3	17010.8
50°	14317.4	14149.5	13631.3	13682.3	14266.3	14357.5	15908.6	16189.6	14733.4	15091.1	18660.4
52.5°	14999.9	14759.0	14357.5	14598.4	15313.7	15423.2	17437.8	17740.7	15864.8	16638.5	20368.4
55°	15383.1	15284.5	15291.8	15660.4	16558.2	16707.9	19040.0	18988.9	16901.3	17963.3	21653.1
57.5°	16266.3	16229.8	16565.5	16704.2	18010.8	18204.2	20642.1	20204.2	17842.9	18988.9	22269.9
60°	17824.6	17733.4	18025.4	18237.1	19806.4	20080.1	22430.4	21394.0	18481.6	19751.6	22061.8
62.5°	20014.4	19901.3	19912.2	20248.0	22211.5	22499.8	24419.5	22386.6	18678.7	19868.4	20744.3
65°	22737.0	22572.8	22386.6	22842.8	25404.9	25645.7	26583.7	23109.3	18207.9	18744.3	17992.5
67.5°	25609.2	25474.2	25255.2	26211.4	29539.9	29685.8	29010.7	23047.2	16715.2	15737.1	12620.3
70°	25777.1	25810.0	26846.5	30306.3	34937.6	34974.1	31306.3	21799.1	13536.4	10200.6	6288.3
72.5°	24047.2	23992.5	25342.8	31054.4	39280.6	39404.7	32390.2	17660.4	8364.9	5087.5	2948.9
75°	19532.7	19627.5	21047.2	27171.3	33667.6	33777.0	26404.9	10412.3	3974.4	2489.0	1886.8
77.5°	8408.7	8937.9	11737.1	19142.2	24112.9	23773.5	13609.4	4218.9	2120.4	1773.7	1445.2
80°	2427.0	2635.0	4182.4	9102.1	14448.8	14193.3	5386.8	1580.3	1478.1	1332.1	1036.5
82.5°	784.7	868.6	1532.8	3624.1	6474.4	6467.1	2043.8	934.3	967.1	905.1	667.9
85°	219.0	251.8	470.8	1098.5	2003.6	1963.5	591.2	441.6	514.6	521.9	332.1
87.5°	0.0	0.0	3.6	7.3	7.3	7.3	14.6	65.7	149.6	189.8	135.0
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°	7197.0	7197.0	7197.0	7197.0	7197.0	7197.0	7197.0	7197.0	7197.0	7197.0	7197.0
2.5°	7240.8	7229.9	7379.5	7496.3	7605.8	7678.8	7700.7	7715.3	7744.5	7759.0	7744.5
5°	7291.9	7346.6	7594.8	7777.3	7923.3	8010.9	8014.5	8007.2	8029.1	8010.9	7999.9
7.5°	7401.4	7507.2	7821.1	8014.5	8109.4	8113.1	8025.5	7923.3	7872.2	7828.4	7813.8
10°	7547.4	7704.3	8047.4	8175.1	8145.9	8010.9	7817.4	7656.9	7565.6	7499.9	7485.3
12.5°	7748.1	7923.3	8248.1	8244.4	8062.0	7821.1	7594.8	7401.4	7270.0	7193.4	7167.8
15°	7937.9	8160.5	8394.1	8222.5	7934.2	7642.3	7350.3	7091.2	6916.0	6795.6	6773.7
17.5°	8171.5	8408.7	8499.9	8153.2	7773.6	7397.7	7007.2	6667.8	6430.6	6288.3	6277.3
20°	8441.5	8653.2	8551.0	8032.8	7565.6	7072.9	6543.7	6164.2	5908.7	5770.0	5781.0
22.5°	8755.4	8908.7	8565.6	7868.5	7277.3	6613.1	6021.8	5656.9	5485.3	5412.4	5416.0
25°	9091.2	9189.7	8540.1	7645.9	6835.7	6051.0	5485.3	5317.5	5302.9	5284.6	5291.9
27.5°	9489.0	9467.1	8463.4	7332.0	6240.8	5397.8	5109.4	5153.2	5211.6	5204.3	5211.6
30°	10021.8	9813.8	8364.9	6897.7	5532.8	4850.3	4886.8	5010.9	5087.5	5094.8	5116.7
32.5°	10631.3	10197.0	8207.9	6306.5	4857.6	4543.8	4678.8	4828.4	4919.7	4937.9	4967.1
35°	11357.6	10634.9	7930.6	5569.3	4372.2	4361.3	4485.4	4587.5	4686.1	4693.4	4693.4
37.5°	12193.3	11072.9	7489.0	4755.4	4073.0	4204.3	4321.1	4343.0	4368.6	4346.7	4357.6
40°	12959.7	11496.2	6861.2	4014.6	3828.4	4065.7	4164.2	4091.2	4010.9	3956.2	3967.1
42.5°	13602.1	11784.6	6029.1	3496.3	3580.3	3941.6	4018.2	3868.6	3711.6	3609.5	3624.1
45°	14324.7	12051.0	5051.0	3146.0	3368.6	3854.0	3905.1	3711.6	3510.9	3357.6	3335.7
47.5°	15321.0	12594.8	4182.4	2901.4	3218.9	3806.5	3890.5	3627.7	3364.9	3135.0	3109.5
50°	16550.9	13364.8	3456.2	2740.8	3149.6	3781.0	3886.8	3536.5	3222.6	2952.5	2934.3
52.5°	17894.0	14116.7	2919.7	2616.8	3080.3	3704.3	3868.6	3434.3	3073.0	2781.0	2759.1
55°	18788.1	14412.3	2558.4	2500.0	2967.1	3583.9	3795.6	3335.7	2846.7	2580.3	2547.4
57.5°	19050.9	14032.7	2306.5	2394.1	2821.1	3416.0	3656.9	3127.7	2708.0	2496.3	2470.8
60°	18598.4	13076.5	2149.6	2306.5	2660.6	3200.7	3416.0	3007.3	2598.5	2408.7	2390.5
62.5°	17321.0	11602.1	2029.2	2215.3	2496.3	2974.4	3262.7	2861.3	2478.1	2328.4	2302.9
65°	14751.7	9514.5	1930.6	2120.4	2339.4	2759.1	3094.9	2715.3	2346.7	2233.6	2204.4
67.5°	10317.4	6682.4	1824.8	2007.3	2182.5	2551.1	2919.7	2580.3	2211.7	2127.7	2098.5
70°	5043.7	3543.8	1697.1	1875.9	2014.6	2339.4	2744.5	2416.0	2032.8	1985.4	1945.2
72.5°	2401.4	1981.7	1547.4	1697.1	1784.7	2058.4	2452.5	2178.8	1821.2	1719.0	1649.6
75°	1609.5	1408.7	1350.4	1485.4	1507.3	1726.3	2102.2	1879.5	1605.8	1489.0	1430.6
77.5°	1219.0	1076.6	1135.0	1255.5	1211.7	1419.7	1729.9	1675.2	1448.9	1343.1	1313.9
80°	857.7	784.7	901.5	974.4	941.6	1208.0	1558.4	1434.3	1193.4	1076.6	1054.7
82.5°	540.1	525.5	664.2	675.2	686.1	956.2	1281.0	1127.7	927.0	762.8	708.0
85°	270.1	299.3	397.8	397.8	394.2	492.7	729.9	635.0	500.0	397.8	386.9
87.5°	91.2	127.7	171.5	138.7	105.8	83.9	94.9	116.8	124.1	120.4	120.4
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)