

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: P643750

Luminaire Tested: GWS-SA6F-750-U-SL2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643750  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGF-750-U-SL2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

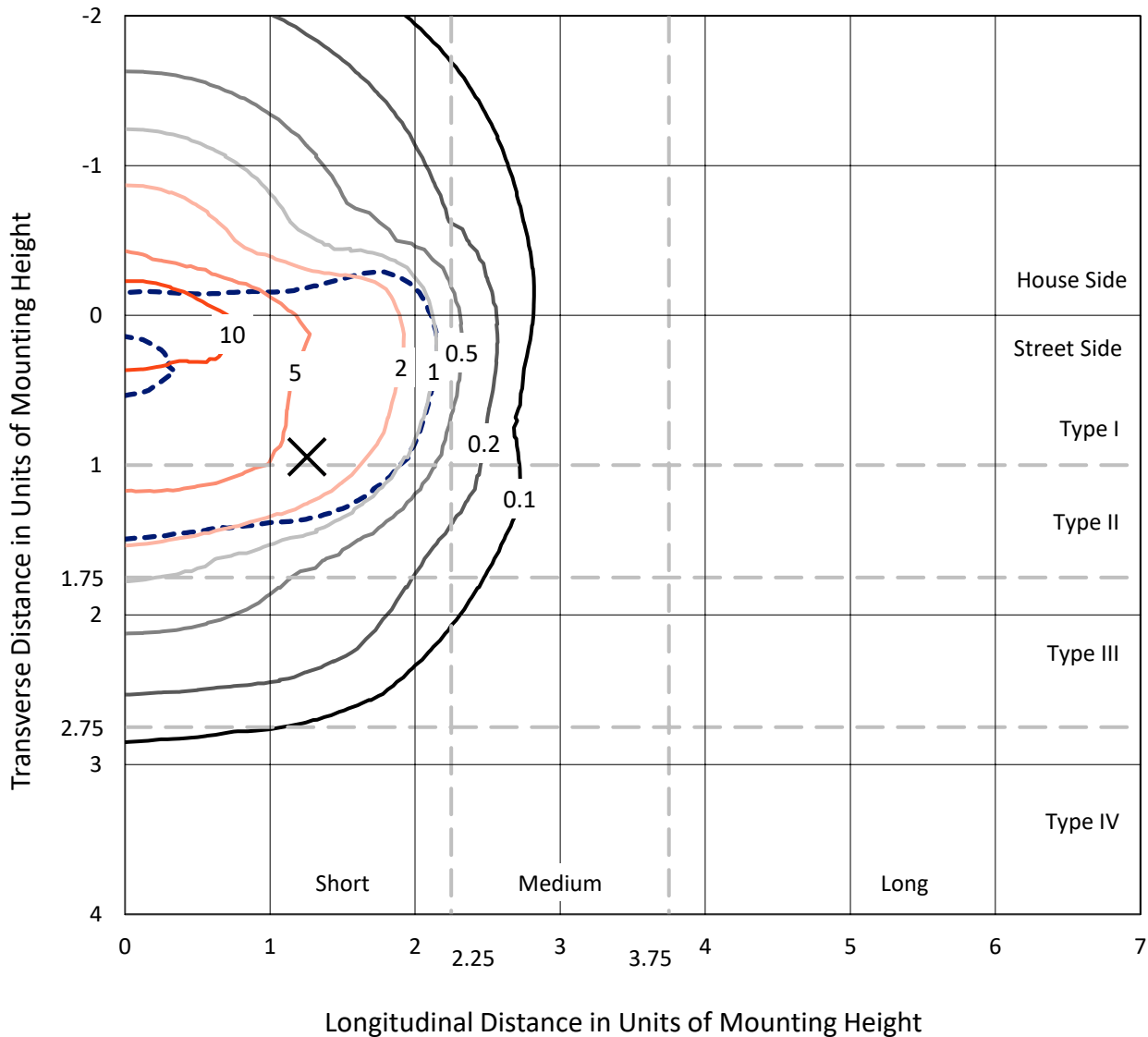
Lumens per Lamp: N/A  
Luminaire Lumens: 43361.3 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

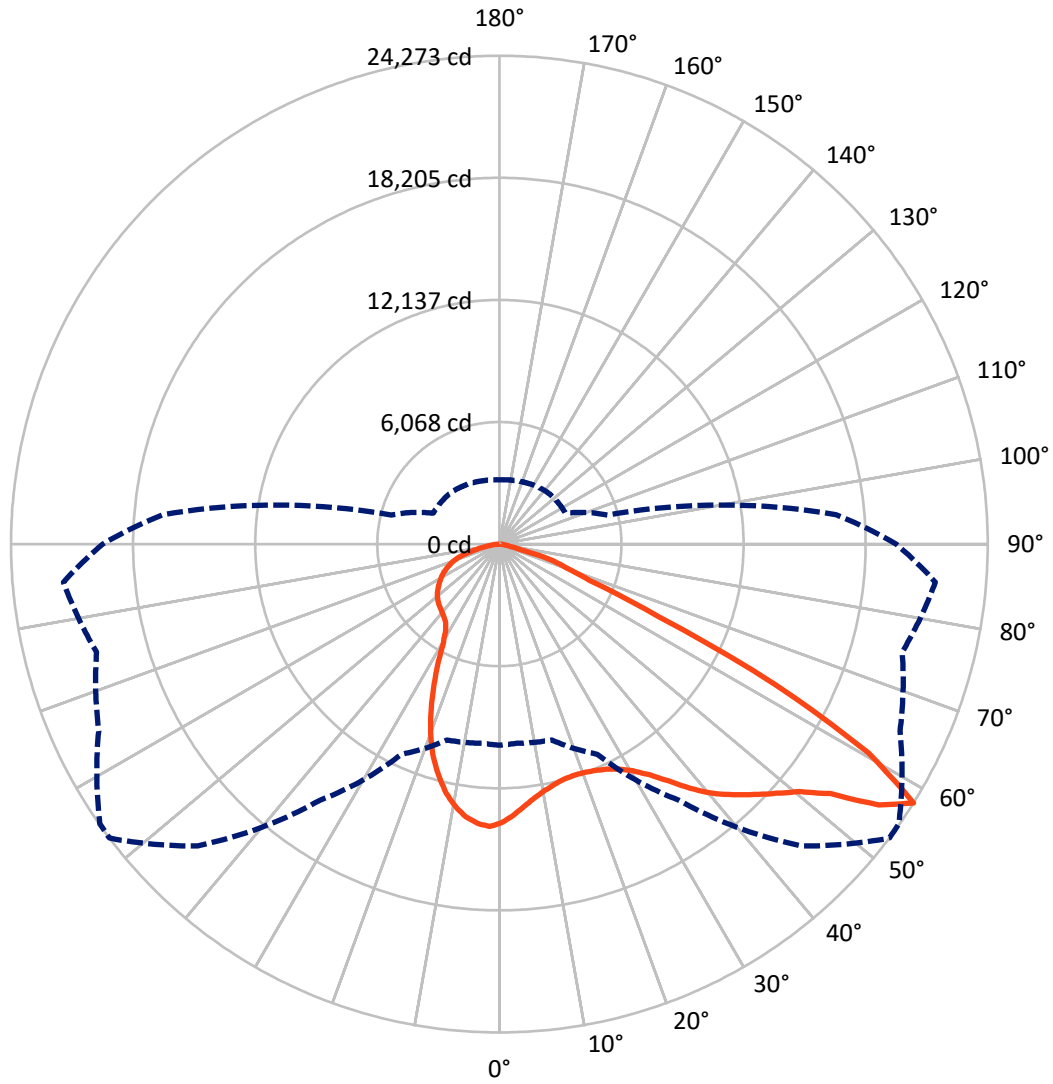
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13557.5	0.0	13557.5
	% Fixture	31.3	0.0	31.3
<b>Street Side</b>	Lumens	29803.8	0.0	29803.8
	% Fixture	68.7	0.0	68.7
<b>Total</b>	Lumens	43361.3	0.0	43361.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1252.1	2.9
10°-20°	3285.0	7.6
20°-30°	4840.0	11.2
30°-40°	6774.7	15.6
40°-50°	8905.9	20.5
50°-60°	10442.1	24.1
60°-70°	6151.6	14.2
70°-80°	1530.3	3.5
80°-90°	179.5	0.4
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°	43361.3	100.0
0°-180°	43361.3	100.0

**Coefficient of Utilization**



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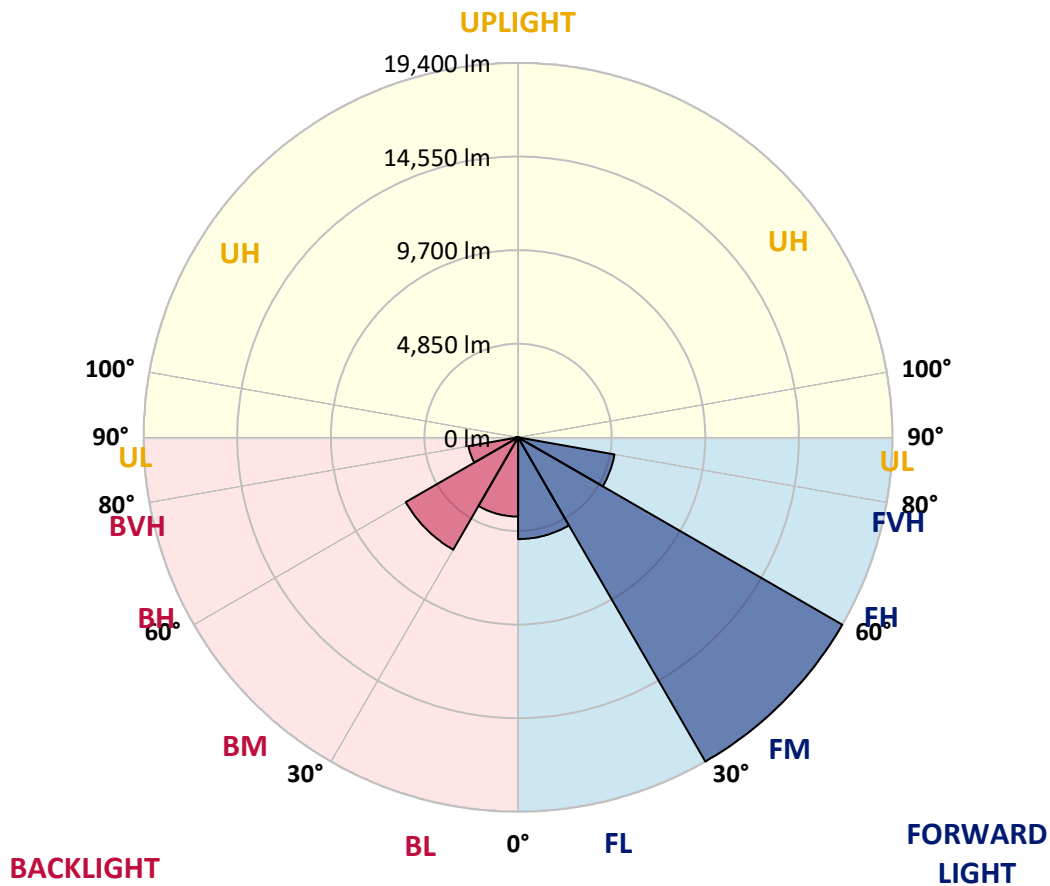
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5271.9	12.2			
FM (30°-60°)	19400.2	44.7			
FH (60°-80°)	5071.6	11.7			G3/7500
FVH (80°-90°)	60.1	0.1			G1/100
BL (0°-30°)	4105.3	9.5	B4/5000		
BM (30°-60°)	6722.5	15.5	B4/8500		
BH (60°-80°)	2610.3	6.0	B4/5000		G4/5000
BVH (80°-90°)	119.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	13846.4	13846.4	13846.4	13846.4	13846.4	13846.4	13846.4	13846.4	13846.4	13846.4	13846.4
2.5°	13050.8	13087.3	13094.6	13207.8	13215.1	13379.3	13488.8	13466.9	13580.0	13718.7	13828.2
5°	12426.8	12430.4	12466.9	12601.9	12674.9	12890.2	13072.7	13072.7	13291.7	13576.4	13820.9
7.5°	11912.2	11908.5	11941.4	12091.0	12211.4	12470.6	12718.7	12747.9	13054.5	13470.5	13868.3
10°	11434.1	11459.6	11496.1	11678.6	11831.9	12153.0	12448.7	12496.1	12883.0	13397.5	13934.0
12.5°	11127.5	11131.2	11185.9	11390.3	11587.4	11930.4	12240.6	12299.0	12744.3	13328.2	13981.5
15°	10930.4	10934.1	10992.5	11218.8	11448.7	11795.4	12112.9	12178.6	12664.0	13317.2	14072.7
17.5°	10842.8	10839.2	10893.9	11120.2	11372.0	11733.3	12072.7	12153.0	12700.5	13401.2	14233.3
20°	10842.8	10846.5	10875.7	11080.1	11335.5	11718.7	12112.9	12211.4	12842.8	13591.0	14481.5
22.5°	10996.1	11010.7	11025.3	11164.0	11364.7	11740.6	12218.7	12350.1	13149.4	13908.5	14806.3
25°	11295.4	11299.0	11313.6	11426.8	11518.0	11802.7	12393.9	12591.0	13627.5	14372.0	15215.0
27.5°	11696.8	11747.9	11762.5	11835.5	11835.5	11956.0	12667.6	12952.3	14273.4	15039.8	15736.9
30°	12258.9	12277.1	12302.7	12383.0	12295.4	12244.3	13069.1	13434.0	15021.6	15846.4	16364.6
32.5°	12751.6	12791.7	12930.4	13061.8	12904.8	12744.3	13660.3	14091.0	15740.6	16685.8	17032.5
35°	13171.3	13269.8	13536.2	13828.2	13718.7	13558.1	14445.0	14893.9	16331.8	17288.0	17623.7
37.5°	13678.6	13755.2	14120.2	14594.6	14693.1	14616.5	15401.1	15722.3	16725.9	17441.3	17944.9
40°	14193.1	14309.9	14780.7	15437.6	15813.5	15868.3	16284.3	16499.7	16861.0	17142.0	17882.8
42.5°	14718.7	14919.4	15565.4	16331.8	16999.7	17123.7	17028.9	17120.1	16817.2	16729.6	17594.5
45°	15361.0	15598.2	16328.1	17306.2	18185.8	18379.2	17758.8	17674.8	16809.9	16572.7	17415.7
47.5°	16120.1	16357.3	17054.4	18193.1	19317.1	19459.5	18506.9	18353.6	17065.3	16813.5	17656.6
50°	16791.6	16955.9	17579.9	18853.6	20371.8	20455.8	19331.7	19145.6	17700.4	17481.4	18408.4
52.5°	16109.2	16090.9	16747.8	18317.1	20919.3	21930.2	20601.8	20422.9	18926.6	18590.9	19572.6
55°	13667.6	13459.6	14047.2	15590.9	19390.1	23240.4	22879.1	22521.4	20561.6	19707.6	20663.8
57.5°	9992.5	9934.1	10076.4	11525.3	15532.5	21211.2	24273.2	24240.4	21974.0	20729.5	21751.4
60°	7813.7	7726.1	7346.6	7386.7	10587.4	16569.0	21065.3	22032.4	22849.9	21342.6	22510.5
62.5°	6937.8	6872.1	6675.0	6131.3	6306.4	11109.3	15441.3	16328.1	19966.7	18850.0	19335.4
65°	5744.4	5726.2	5890.4	5868.5	5284.6	6134.9	8715.2	9609.3	12554.5	12711.4	12554.5
67.5°	4175.1	4142.3	4558.3	5379.5	5087.5	4631.3	4857.6	5167.8	6437.8	5780.9	5204.3
70°	2715.3	2667.8	2908.7	3886.8	4554.7	4036.4	3499.9	3448.8	3540.1	2200.7	2379.5
72.5°	1821.1	1766.4	1762.7	2138.6	2751.8	2718.9	2711.6	2686.1	2397.8	1737.2	1927.0
75°	1014.6	970.8	959.8	923.3	985.4	1003.6	1069.3	1105.8	1197.1	1317.5	1459.8
77.5°	171.5	167.9	211.7	270.1	372.3	478.1	591.2	624.1	770.1	912.4	1003.6
80°	94.9	98.5	127.7	156.9	208.0	284.7	365.0	386.9	474.4	551.1	624.1
82.5°	51.1	51.1	65.7	83.9	113.1	149.6	197.1	215.3	273.7	321.2	372.3
85°	18.2	18.2	25.5	32.8	47.4	62.0	76.6	87.6	120.4	164.2	186.1
87.5°	0.0	0.0	0.0	0.0	3.6	7.3	14.6	14.6	18.2	32.8	47.4
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°	13846.4	13846.4	13846.4	13846.4	13846.4	13846.4	13846.4	13846.4	13846.4	13846.4	13846.4
2.5°	13919.4	13820.9	13955.9	14018.0	14039.9	14054.5	13959.6	13893.9	13872.0	13802.6	13762.5
5°	13970.5	13904.8	14032.6	14032.6	13941.3	13846.4	13653.0	13518.0	13423.1	13309.9	13291.7
7.5°	14058.1	14010.7	14080.0	13937.7	13707.8	13452.3	13116.5	12853.8	12642.1	12503.4	12507.0
10°	14174.9	14116.5	14061.8	13744.2	13324.5	12853.8	12339.2	11956.0	11605.6	11445.0	11357.4
12.5°	14251.5	14167.6	13937.7	13412.1	12795.4	12164.0	11437.7	10868.4	10361.1	10131.2	10112.9
15°	14346.4	14193.1	13733.3	12981.5	12123.8	11262.5	10328.3	9536.3	8850.2	8492.5	8474.3
17.5°	14470.5	14218.7	13488.8	12488.8	11415.8	10145.8	8970.6	7974.3	7244.4	6967.0	7014.5
20°	14645.7	14247.9	13211.4	11941.4	10536.3	8875.7	7412.3	6496.2	6215.2	6197.0	6160.5
22.5°	14842.8	14266.1	12904.8	11328.2	9470.6	7521.7	6124.0	5733.5	5729.8	5821.0	5842.9
25°	15065.4	14280.7	12558.1	10612.9	8317.3	6171.4	5415.9	5299.2	5390.4	5561.9	5583.8
27.5°	15350.1	14309.9	12138.4	9828.3	7091.1	5332.0	5025.4	4996.2	5105.7	5266.3	5259.0
30°	15769.8	14415.8	11693.2	8926.8	5832.0	4934.2	4788.2	4791.9	4835.7	4912.3	4923.3
32.5°	16196.8	14580.0	11258.9	7912.2	5109.4	4707.9	4642.2	4634.9	4634.9	4667.8	4675.1
35°	16601.9	14766.1	10788.1	6853.9	4759.0	4576.5	4532.8	4510.9	4499.9	4492.6	4481.7
37.5°	16828.1	14857.4	10328.3	5810.1	4572.9	4489.0	4445.2	4416.0	4375.8	4346.6	4339.3
40°	16729.6	14751.5	9795.4	5029.1	4459.8	4405.0	4353.9	4313.8	4259.0	4233.5	4218.9
42.5°	16401.1	14423.1	9215.1	4660.5	4368.5	4313.8	4251.7	4186.0	4149.6	4127.7	4124.0
45°	16054.4	14025.3	8514.4	4445.2	4280.9	4215.2	4142.3	4069.3	4029.1	4018.2	4014.5
47.5°	16043.5	13828.2	7769.9	4273.6	4175.1	4109.4	4018.2	3945.2	3901.4	3886.8	3872.2
50°	16525.2	14028.9	6930.5	4124.0	4065.6	3996.3	3894.1	3813.8	3759.0	3740.8	3737.2
52.5°	17525.2	14784.4	6178.7	3974.4	3919.6	3839.3	3755.4	3675.1	3609.4	3576.6	3572.9
55°	18605.5	15744.2	5711.6	3821.1	3748.1	3678.8	3602.1	3514.5	3441.5	3390.4	3383.1
57.5°	19722.2	16791.6	5569.2	3627.7	3572.9	3525.5	3434.2	3339.3	3255.4	3208.0	3197.0
60°	20641.9	17693.1	5835.6	3423.3	3394.1	3332.0	3248.1	3156.9	3098.5	3062.0	3054.7
62.5°	17280.7	14404.8	4711.6	3200.7	3200.7	3135.0	3040.1	2974.4	2934.2	2908.7	2901.4
65°	10966.9	8919.5	3215.3	2978.0	2974.4	2886.8	2806.5	2762.7	2744.5	2704.3	2697.0
67.5°	4777.3	4076.6	2748.1	2751.8	2737.2	2642.3	2562.0	2529.1	2492.7	2448.9	2445.2
70°	2478.1	2525.5	2459.8	2499.9	2474.4	2361.3	2284.6	2233.5	2156.9	2113.1	2116.7
72.5°	2000.0	2051.1	2124.0	2186.1	2131.3	2040.1	1919.7	1857.6	1759.1	1711.6	1715.3
75°	1525.5	1580.3	1649.6	1715.3	1671.5	1558.4	1481.7	1419.7	1306.5	1251.8	1262.7
77.5°	1051.1	1080.3	1164.2	1160.6	1146.0	1113.1	1000.0	927.0	810.2	744.5	751.8
80°	653.3	671.5	711.7	729.9	722.6	678.8	587.6	532.8	463.5	423.3	427.0
82.5°	394.2	405.1	441.6	445.2	441.6	408.8	339.4	299.3	255.5	233.6	233.6
85°	200.7	208.0	229.9	229.9	208.0	175.2	156.9	138.7	113.1	102.2	102.2
87.5°	54.7	54.7	69.3	58.4	47.4	43.8	21.9	18.2	7.3	3.6	3.6
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)