

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: P643779

Luminaire Tested: GWS-SA6F-750-U-T3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643779  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6F-750-U-T3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

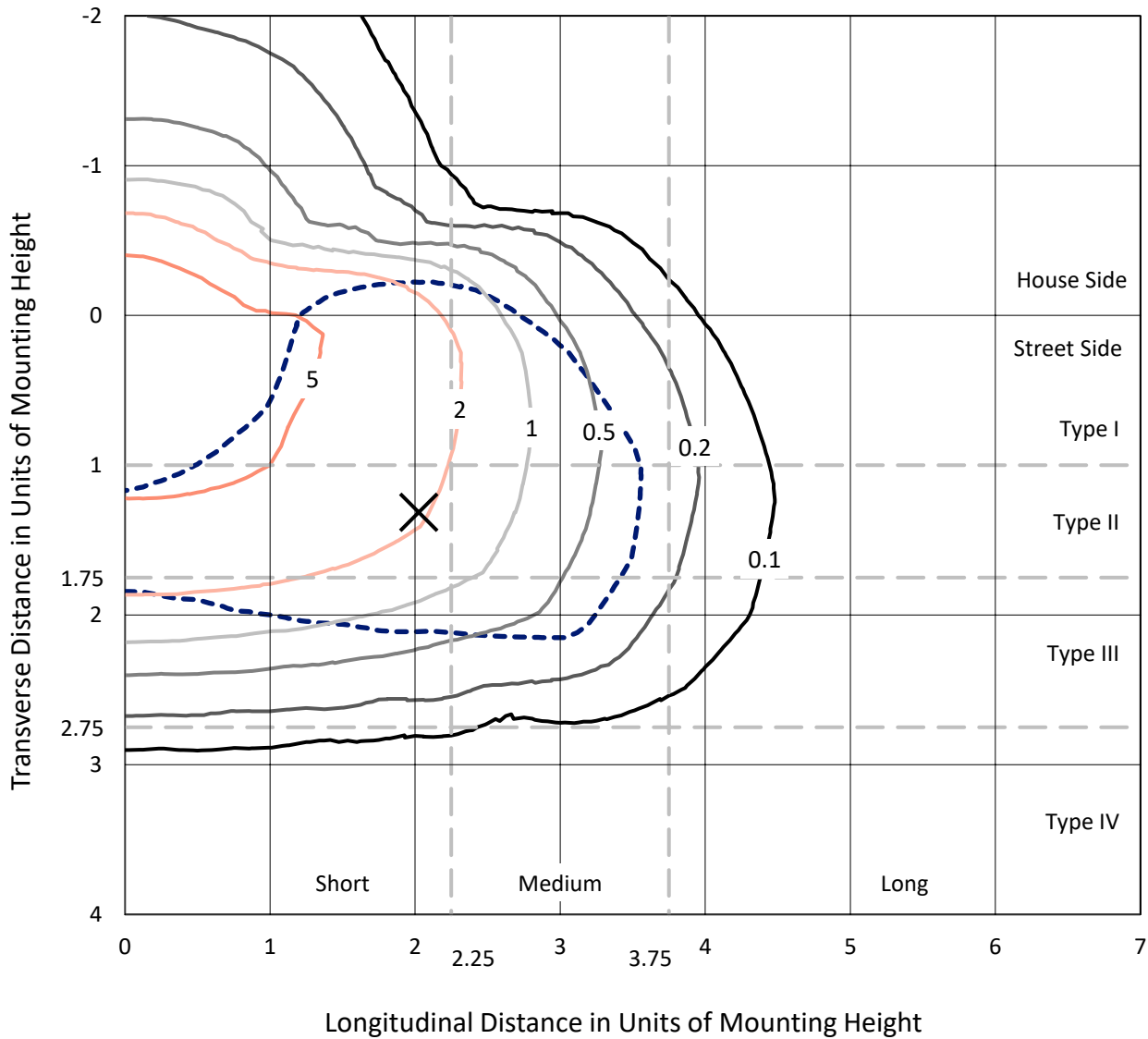
Lumens per Lamp: N/A  
Luminaire Lumens: 50945.2 lumens  
Efficiency: N/A  
Efficacy: 136.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): 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

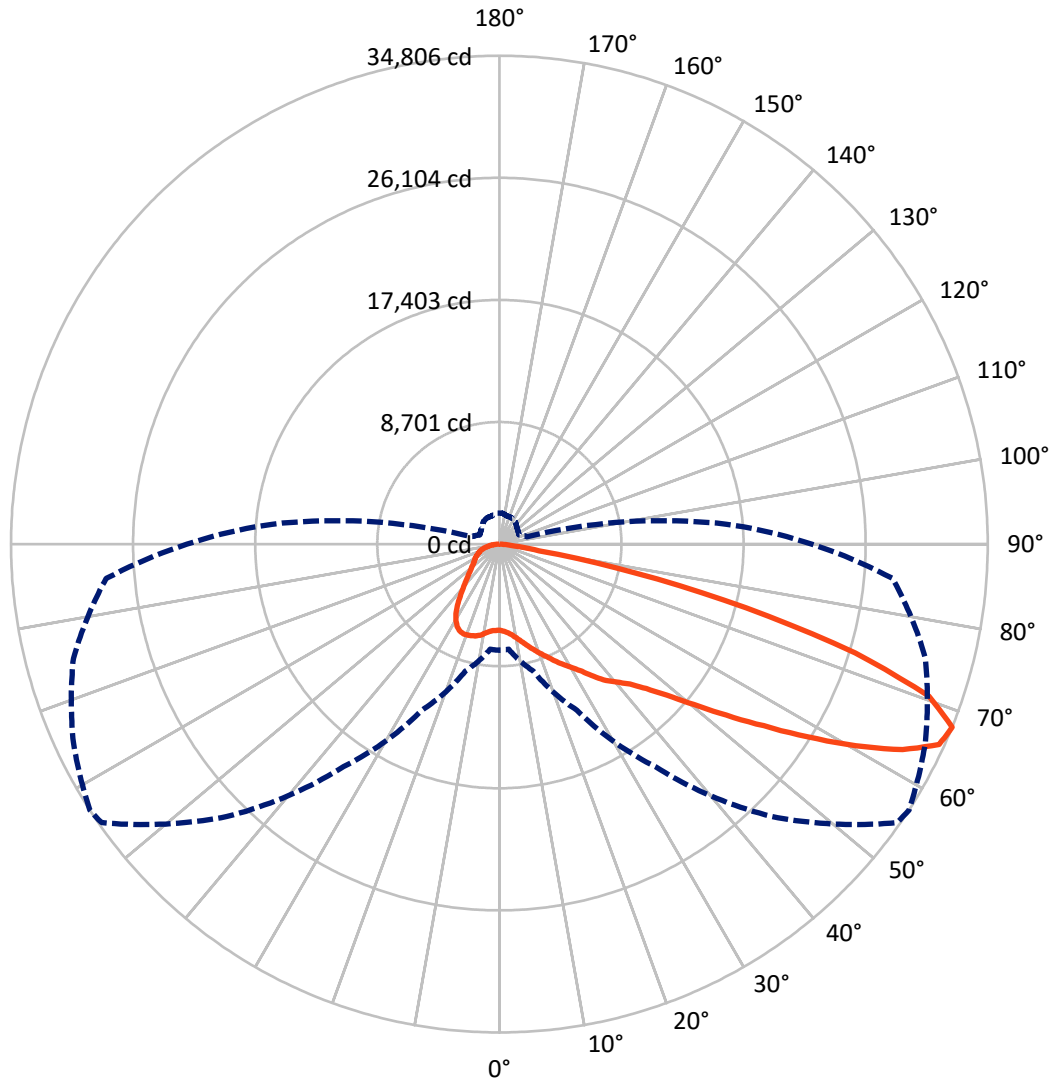
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11200.9	0.0	11200.9
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	39744.3	0.0	39744.3
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	50945.2	0.0	50945.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	608.8	1.2
10°-20°	2015.5	4.0
20°-30°	3593.2	7.1
30°-40°	5224.1	10.3
40°-50°	7561.1	14.8
50°-60°	11832.8	23.2
60°-70°	13803.7	27.1
70°-80°	5762.2	11.3
80°-90°	543.8	1.1
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°	50945.2	100.0
0°-180°	50945.2	100.0

**Coefficient of Utilization**



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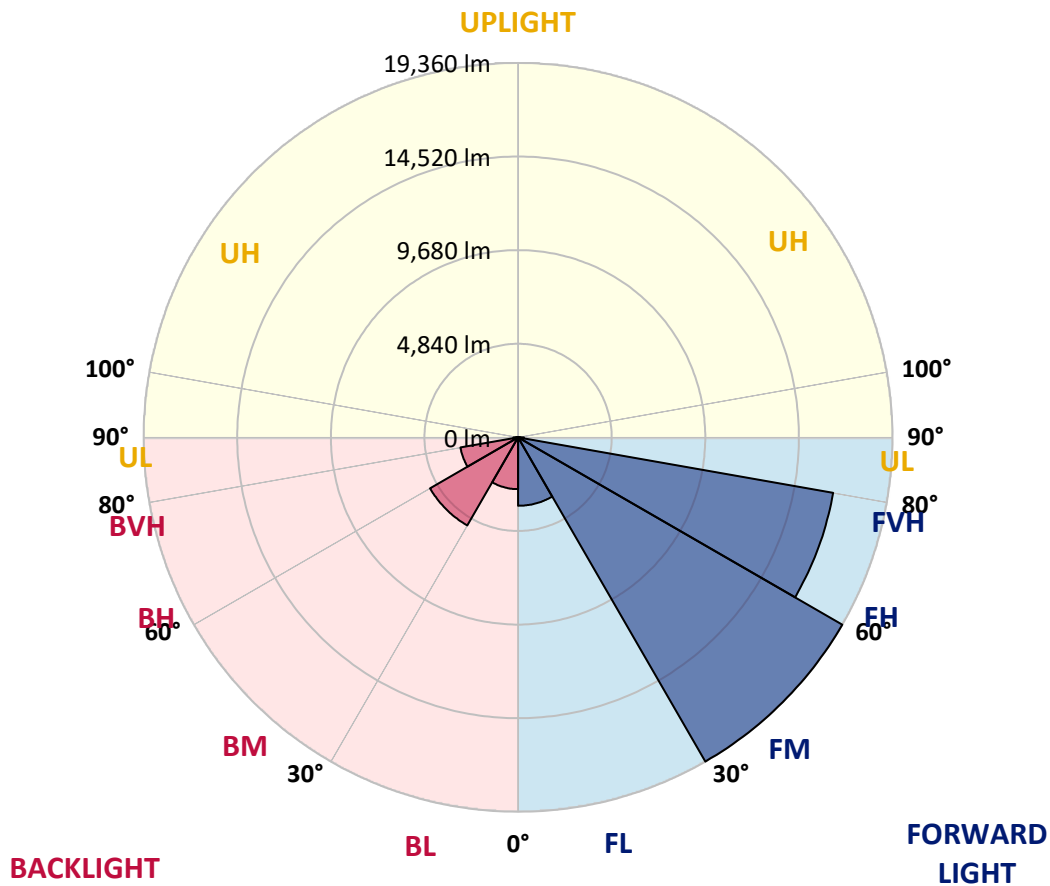
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3538.6	6.9			
FM (30°-60°)	19359.9	38.0			
FH (60°-80°)	16542.8	32.5			G5
FVH (80°-90°)	302.9	0.6			G3/500
BL (0°-30°)	2678.9	5.3	B4/5000		
BM (30°-60°)	5258.0	10.3	B4/8500		
BH (60°-80°)	3023.2	5.9	B4/5000		G4/5000
BVH (80°-90°)	240.8	0.5			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6138.5	6138.5	6138.5	6138.5	6138.5	6138.5	6138.5	6138.5	6138.5	6138.5	6138.5
2.5°	6226.1	6218.8	6215.2	6237.1	6229.8	6226.1	6226.1	6222.5	6215.2	6186.0	6145.8
5°	6397.7	6383.1	6368.5	6386.7	6372.1	6357.5	6353.9	6346.6	6321.0	6277.2	6215.2
7.5°	6576.5	6561.9	6565.5	6576.5	6565.5	6558.2	6547.3	6540.0	6499.9	6430.5	6346.6
10°	6828.3	6828.3	6835.6	6846.6	6850.2	6839.3	6817.4	6806.4	6759.0	6671.4	6554.6
12.5°	7193.3	7186.0	7186.0	7178.7	7189.6	7178.7	7156.8	7138.5	7080.1	6967.0	6799.1
15°	7675.0	7645.8	7620.3	7572.8	7558.2	7518.1	7525.4	7514.4	7459.7	7306.4	7094.7
17.5°	8189.6	8185.9	8145.8	8050.9	7956.0	7890.3	7904.9	7901.3	7872.1	7664.1	7394.0
20°	8642.1	8660.4	8623.9	8550.9	8423.2	8299.1	8291.8	8310.0	8273.5	8065.5	7689.6
22.5°	9149.4	9134.8	9098.3	9003.4	8908.6	8777.2	8733.4	8718.8	8704.2	8467.0	7992.5
25°	9631.2	9675.0	9627.5	9539.9	9394.0	9251.6	9215.1	9229.7	9189.6	8875.7	8317.3
27.5°	10240.6	10258.9	10229.7	10109.3	9985.2	9784.5	9715.1	9715.1	9700.5	9258.9	8572.8
30°	10890.3	10941.4	10890.3	10791.7	10664.0	10375.7	10226.1	10211.5	10167.7	9653.1	8872.1
32.5°	11543.5	11580.0	11543.5	11448.7	11302.7	11050.8	10835.5	10802.7	10744.3	10083.7	9178.6
35°	12123.8	12156.7	12149.4	12171.3	12050.8	11733.3	11601.9	11587.3	11434.1	10645.7	9594.7
37.5°	12758.8	12799.0	12744.2	12788.0	12740.6	12441.3	12401.2	12328.2	12109.2	11174.9	10032.6
40°	13481.5	13517.9	13430.4	13448.6	13393.9	13226.0	13021.6	12923.1	12598.3	11747.9	10722.4
42.5°	14255.2	14339.1	14379.2	14346.4	14218.7	14123.8	13766.1	13642.0	13372.0	12780.7	11857.4
45°	15375.6	15499.7	15558.0	15474.1	15419.4	15284.3	14846.4	14696.8	14554.4	14236.9	13441.3
47.5°	16583.6	16696.7	16882.8	16919.3	16963.1	16860.9	16244.2	16098.2	16123.7	16087.2	15390.2
50°	17547.1	17641.9	18061.6	18510.5	18882.8	18912.0	18123.7	17966.8	18105.4	18222.2	17736.8
52.5°	18247.8	18331.7	18886.4	19813.4	20656.5	21280.5	20430.2	20251.4	20364.5	20627.3	20404.7
55°	18817.1	18933.9	19514.2	20937.5	22641.8	23627.2	23083.4	22857.2	22809.7	23134.5	23262.3
57.5°	19116.4	19152.9	19966.7	21817.0	24098.0	25930.1	26167.3	25911.8	25459.3	25638.1	26302.3
60°	18433.9	18495.9	19609.1	22043.3	25247.6	28214.7	29404.5	29192.8	28229.3	28327.8	29061.4
62.5°	16547.1	16634.7	17974.1	20966.7	25342.5	29740.2	32393.4	32258.4	30966.5	30433.6	30652.6
65°	13273.4	13302.6	14689.5	18302.5	23455.7	29930.0	34477.3	34444.5	32878.8	31630.7	30692.7
67.5°	7569.2	7518.1	9372.1	13054.5	19357.2	27462.9	34612.4	34805.8	33499.3	31433.6	28138.1
70°	3280.9	3288.2	4142.2	6441.5	12528.9	22196.6	32148.9	32481.0	31703.7	28152.7	22386.4
72.5°	1518.2	1540.1	1908.7	2788.3	5350.2	13769.8	26214.7	26514.0	25846.1	22532.3	16288.0
75°	1073.0	1091.2	1273.7	1598.5	2459.8	5364.8	17536.1	18163.8	18488.6	16853.6	10733.3
77.5°	813.9	839.4	930.6	1109.5	1518.2	1901.4	8390.3	9886.6	11777.1	10485.2	5529.1
80°	518.2	518.2	616.8	740.9	927.0	989.0	2423.3	2872.2	5762.6	4321.1	2171.5
82.5°	350.4	361.3	419.7	470.8	532.8	562.0	1040.1	1109.5	1664.2	1470.8	894.1
85°	186.1	193.4	219.0	215.3	255.5	222.6	437.9	434.3	609.5	667.9	339.4
87.5°	0.0	0.0	3.6	3.6	7.3	10.9	47.4	51.1	127.7	204.4	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°	6138.5	6138.5	6138.5	6138.5	6138.5	6138.5	6138.5	6138.5	6138.5	6138.5	6138.5
2.5°	6167.7	6124.0	6145.8	6138.5	6160.4	6160.4	6120.3	6109.4	6113.0	6069.2	6054.6
5°	6222.5	6171.4	6182.3	6167.7	6189.6	6207.9	6189.6	6189.6	6211.5	6178.7	6160.4
7.5°	6346.6	6288.2	6288.2	6269.9	6295.5	6310.1	6295.5	6317.4	6357.5	6324.7	6306.4
10°	6543.7	6474.3	6478.0	6456.1	6467.0	6459.7	6401.3	6383.1	6394.0	6364.8	6350.2
12.5°	6799.1	6704.2	6704.2	6660.4	6634.9	6558.2	6437.8	6394.0	6401.3	6375.8	6364.8
15°	7043.6	6956.0	6937.8	6850.2	6733.4	6591.1	6481.6	6452.4	6459.7	6434.2	6415.9
17.5°	7332.0	7218.8	7153.1	6992.5	6777.2	6631.2	6521.8	6452.4	6394.0	6335.6	6321.0
20°	7598.4	7456.0	7335.6	7087.4	6824.7	6623.9	6419.6	6248.0	6105.7	6029.1	6010.8
22.5°	7872.1	7689.6	7477.9	7153.1	6821.0	6492.6	6116.7	5857.5	5645.9	5532.7	5554.6
25°	8131.2	7901.3	7613.0	7215.2	6704.2	6200.6	5689.7	5302.8	5061.9	4974.3	4948.8
27.5°	8346.5	8061.9	7737.1	7186.0	6463.4	5780.9	5105.7	4675.1	4441.5	4343.0	4317.4
30°	8587.4	8266.2	7915.9	7050.9	6083.8	5193.3	4445.2	4094.8	3926.9	3832.0	3835.7
32.5°	8864.8	8529.0	8167.7	6791.8	5598.4	4558.3	3901.4	3660.5	3525.5	3430.6	3416.0
35°	9237.0	8904.9	8335.6	6401.3	4981.6	3974.4	3529.1	3332.0	3164.2	3040.1	3014.5
37.5°	9696.9	9470.6	8353.8	5879.4	4321.1	3572.9	3262.7	3051.0	2846.7	2682.4	2664.2
40°	10485.2	10226.1	8204.2	5226.2	3759.0	3313.8	3040.1	2795.6	2558.3	2375.9	2350.3
42.5°	11609.2	11076.4	7883.0	4489.0	3335.7	3109.4	2828.4	2518.2	2277.3	2149.6	2131.3
45°	13039.9	12025.3	7401.3	3795.5	3021.8	2908.7	2605.8	2281.0	2153.2	2062.0	2043.8
47.5°	14791.6	13131.1	6846.6	3255.4	2777.3	2726.2	2379.5	2200.7	2087.5	2010.9	1992.7
50°	16886.5	14539.8	6390.4	2832.1	2558.3	2514.5	2306.5	2153.2	2062.0	2000.0	1985.4
52.5°	19276.9	16105.5	6167.7	2529.1	2368.6	2324.8	2281.0	2142.3	2065.6	2018.2	2000.0
55°	21758.6	17755.1	5959.7	2295.6	2208.0	2233.5	2284.6	2178.8	2120.4	2058.3	2040.1
57.5°	24156.4	19302.5	5448.8	2113.1	2091.2	2189.7	2302.9	2215.3	2145.9	2083.9	2062.0
60°	25809.6	20149.2	4583.8	1967.1	2003.6	2135.0	2255.4	2160.5	2072.9	2047.4	2036.5
62.5°	26254.9	20047.0	3558.3	1817.5	1897.8	2014.6	2131.3	2069.3	1978.1	2018.2	2021.9
65°	25214.8	18952.1	2671.5	1671.5	1759.1	1857.6	2003.6	1978.1	1945.2	2054.7	2058.3
67.5°	22269.6	16262.4	2036.5	1543.8	1616.8	1737.2	1963.5	2069.3	2076.6	2215.3	2200.7
70°	16850.0	12149.4	1594.9	1423.3	1507.3	1737.2	2091.2	2138.6	2051.0	2178.8	2149.6
72.5°	11649.4	8018.1	1357.6	1317.5	1372.2	1656.9	2087.5	2087.5	1992.7	1992.7	1937.9
75°	7237.1	4715.2	1182.5	1182.5	1182.5	1448.9	2029.2	1923.3	1755.4	1678.8	1635.0
77.5°	3572.9	2291.9	992.7	1029.2	989.0	1211.7	1656.9	1573.0	1470.8	1390.5	1361.3
80°	1525.5	1146.0	802.9	843.0	795.6	912.4	1313.8	1295.6	1197.1	1091.2	1058.4
82.5°	700.7	591.2	642.3	660.6	580.3	686.1	959.8	959.8	905.1	759.1	704.4
85°	299.3	313.9	445.2	445.2	365.0	386.9	514.6	489.0	437.9	357.7	328.5
87.5°	102.2	153.3	226.3	197.1	76.6	32.8	18.2	7.3	0.0	0.0	0.0
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)