

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: P643776

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643776  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)  
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-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

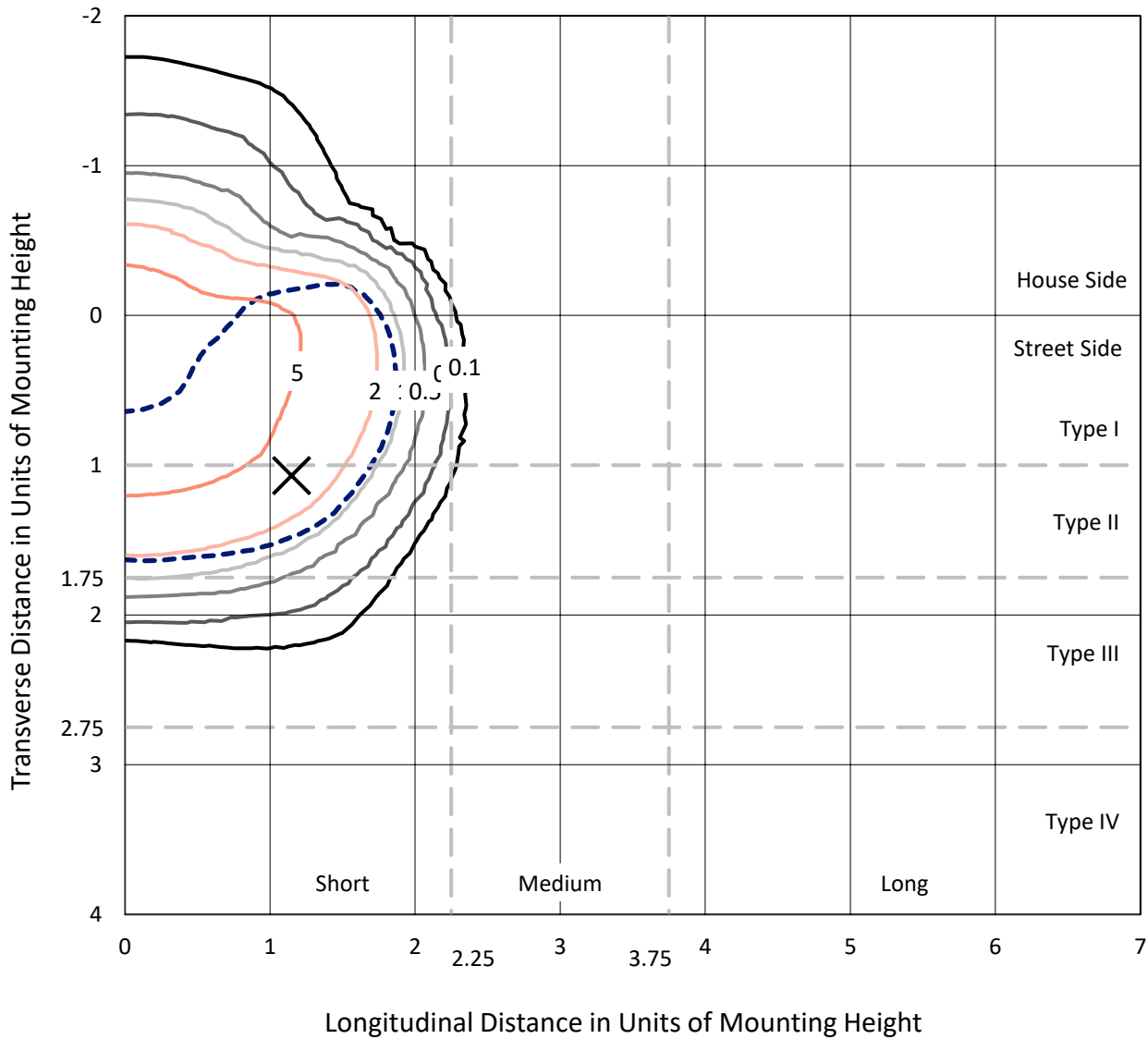
Lumens per Lamp: N/A  
Luminaire Lumens: 31437.9 lumens  
Efficiency: N/A  
Efficacy: 84.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

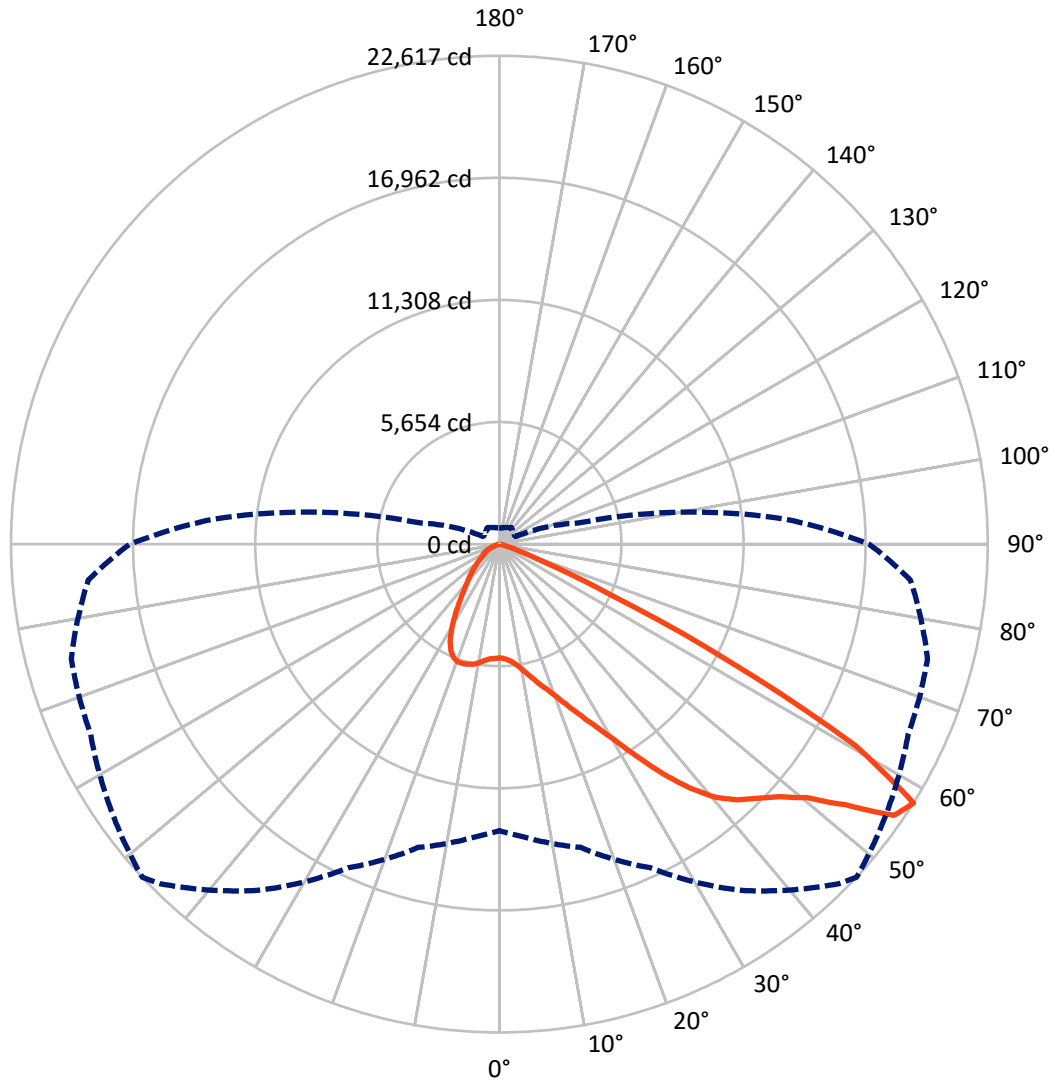
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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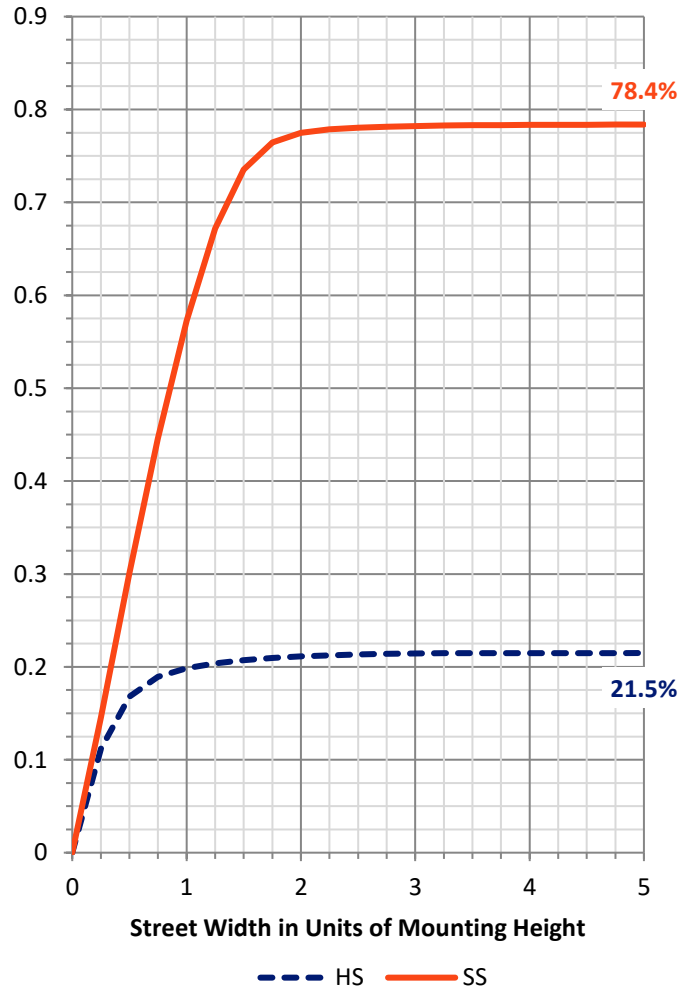
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6820.4	0.0	6820.4
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	24617.5	0.0	24617.5
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	31437.9	0.0	31437.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	523.6	1.7
10°-20°	1766.7	5.6
20°-30°	3280.3	10.4
30°-40°	5251.2	16.7
40°-50°	7676.0	24.4
50°-60°	9473.5	30.1
60°-70°	3165.5	10.1
70°-80°	295.0	0.9
80°-90°	6.1	0.0
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°	31437.9	100.0
0°-180°	31437.9	100.0

**Coefficient of Utilization**



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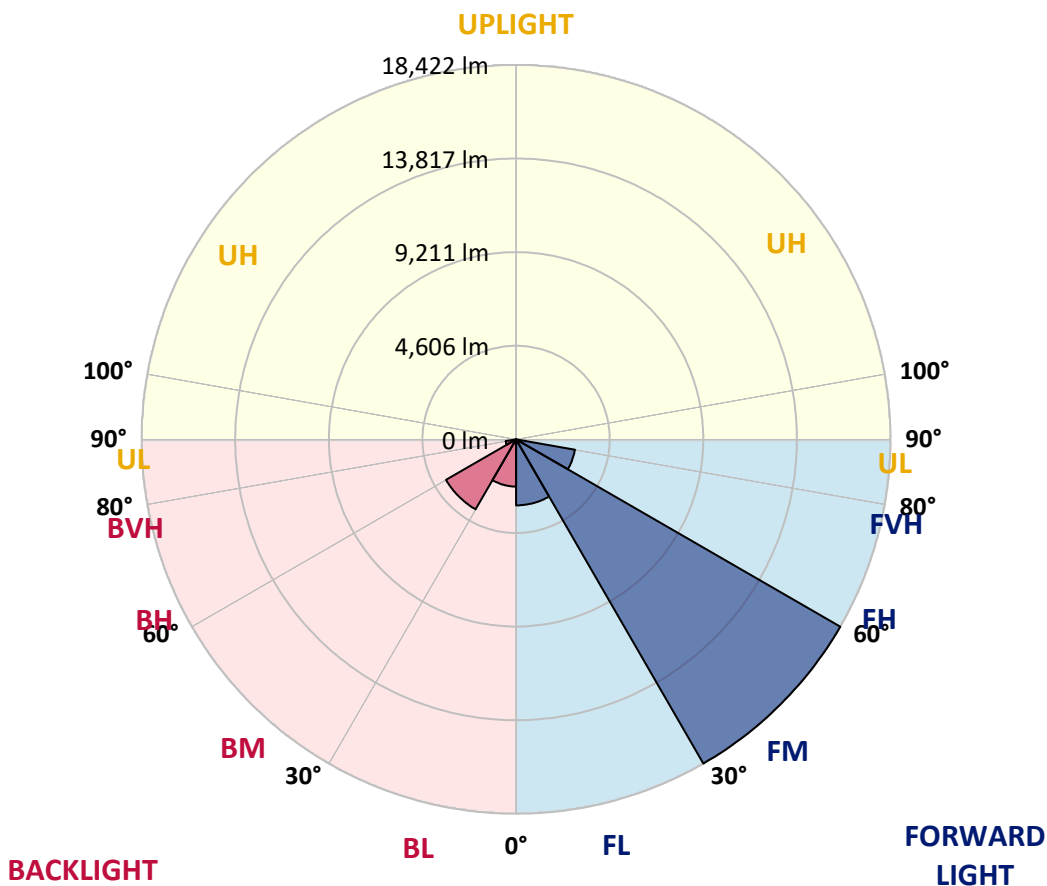
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3249.0	10.3			
FM (30°-60°)	18422.4	58.6			
FH (60°-80°)	2941.9	9.4			G2/5000
FVH (80°-90°)	4.2	0.0			G0/10
BL (0°-30°)	2321.6	7.4	B3/2500		
BM (30°-60°)	3978.4	12.7	B3/5000		
BH (60°-80°)	518.5	1.6	B2/1000		G2/1000
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5262.7	5262.7	5262.7	5262.7	5262.7	5262.7	5262.7	5262.7	5262.7	5262.7	5262.7
2.5°	5317.5	5313.8	5310.2	5332.1	5324.8	5321.1	5328.4	5328.4	5328.4	5306.5	5262.7
5°	5445.2	5445.2	5441.6	5463.5	5445.2	5434.3	5437.9	5437.9	5423.3	5383.2	5328.4
7.5°	5645.9	5638.6	5631.3	5653.2	5635.0	5631.3	5638.6	5616.8	5591.2	5525.5	5448.9
10°	5934.3	5934.3	5923.3	5945.2	5930.6	5923.3	5923.3	5908.7	5861.3	5759.1	5645.9
12.5°	6332.1	6313.8	6288.3	6270.0	6262.7	6259.1	6262.7	6240.8	6189.7	6058.4	5901.4
15°	6766.4	6751.8	6711.6	6682.4	6642.3	6635.0	6656.9	6638.6	6587.5	6408.7	6186.1
17.5°	7313.8	7332.1	7229.9	7167.8	7051.0	7043.7	7051.0	7080.2	7043.7	6813.8	6489.0
20°	7781.0	7795.6	7718.9	7675.1	7569.3	7521.8	7536.4	7583.9	7543.7	7273.7	6821.1
22.5°	8281.0	8299.2	8218.9	8127.7	8080.2	8080.2	8135.0	8200.7	8145.9	7791.9	7200.7
25°	8879.5	8894.1	8828.4	8708.0	8624.0	8729.9	8810.2	8985.3	8894.1	8412.4	7649.6
27.5°	9565.6	9569.3	9474.4	9350.3	9306.5	9503.6	9583.9	9853.9	9817.5	9109.4	8124.0
30°	10299.2	10302.9	10281.0	10197.0	10156.9	10416.0	10525.5	10916.0	10890.4	9974.4	8770.0
32.5°	11062.0	11062.0	11102.1	11094.8	11142.3	11565.6	11740.8	12186.0	12160.5	11032.8	9572.9
35°	11828.4	11832.0	11901.4	12076.6	12273.6	12835.7	13065.6	13605.7	13547.4	12299.2	10598.5
37.5°	12700.6	12664.1	12759.0	13021.8	13459.8	14109.4	14328.4	14843.0	14777.3	13594.8	11937.9
40°	13751.7	13686.0	13686.0	13992.6	14489.0	15237.1	15423.3	15678.7	15456.1	14642.2	13251.7
42.5°	14912.3	14850.3	14770.0	15040.0	15456.1	16040.0	16193.3	16124.0	15941.5	15631.3	14748.1
45°	16087.5	15992.6	16047.3	16211.6	16452.4	16729.8	16788.2	16467.0	16383.1	16470.7	15985.3
47.5°	16981.6	16915.9	17051.0	17280.9	17478.0	17518.1	17478.0	17032.7	17025.4	17335.6	16843.0
50°	17280.9	17288.2	17660.5	18164.1	18481.6	18514.5	18459.7	17948.8	17879.4	17970.7	17306.5
52.5°	17310.1	17339.3	17883.1	18842.9	19707.9	20102.1	20058.3	19507.2	18828.3	18729.8	18007.2
55°	16605.7	16777.3	17536.4	18937.8	20777.2	22036.3	22182.3	21127.6	20120.3	20036.4	19514.5
57.5°	13273.6	13624.0	14540.0	16536.4	19583.8	22237.1	22616.6	21857.5	20883.1	20525.4	19109.4
60°	7934.3	8368.6	9248.1	11697.0	14905.0	18277.2	18930.5	19036.4	18587.5	17554.6	14660.5
62.5°	3405.1	3368.6	4452.5	6328.4	8864.9	11616.7	11912.3	12372.2	12762.7	11682.4	8897.8
65°	1167.9	1270.1	1766.4	2854.0	4437.9	5394.1	5656.9	6069.3	6624.0	5467.1	3259.1
67.5°	722.6	766.4	1018.2	1686.1	2394.1	2357.6	2240.9	2175.2	2116.8	1448.9	894.2
70°	525.5	562.0	715.3	1160.6	1609.5	1131.4	981.7	795.6	883.2	813.9	635.0
72.5°	354.0	383.2	492.7	704.4	824.8	551.1	510.9	580.3	700.7	667.9	518.2
75°	211.7	229.9	281.0	343.1	335.8	284.7	288.3	408.8	536.5	500.0	368.6
77.5°	146.0	153.3	186.1	222.6	164.2	87.6	80.3	113.1	182.5	182.5	124.1
80°	36.5	47.4	47.4	29.2	25.5	21.9	21.9	32.8	51.1	36.5	18.2
82.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	7.3	7.3	7.3	7.3
85°	0.0	0.0	3.6	3.6	3.6	3.6	3.6	3.6	7.3	7.3	7.3
87.5°	0.0	0.0	3.6	3.6	3.6	3.6	3.6	3.6	3.6	7.3	7.3
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°	5262.7	5262.7	5262.7	5262.7	5262.7	5262.7	5262.7	5262.7	5262.7	5262.7	5262.7
2.5°	5288.3	5244.5	5273.7	5266.4	5288.3	5295.6	5262.7	5255.4	5259.1	5215.3	5200.7
5°	5339.4	5288.3	5302.9	5288.3	5313.8	5335.7	5324.8	5339.4	5357.6	5324.8	5310.2
7.5°	5448.9	5397.8	5394.1	5372.2	5408.7	5423.3	5419.7	5459.8	5496.3	5474.4	5452.5
10°	5638.6	5569.3	5562.0	5543.8	5554.7	5565.7	5525.5	5532.8	5565.7	5540.1	5529.2
12.5°	5872.2	5788.3	5770.0	5726.2	5726.2	5671.5	5583.9	5565.7	5591.2	5573.0	5554.7
15°	6124.0	6010.9	5981.7	5905.1	5832.1	5729.9	5638.6	5616.8	5635.0	5613.1	5598.5
17.5°	6405.1	6277.3	6182.4	6047.4	5886.8	5766.4	5664.2	5616.8	5587.6	5543.8	5540.1
20°	6682.4	6514.6	6354.0	6138.6	5927.0	5744.5	5576.6	5452.5	5346.7	5281.0	5255.4
22.5°	7003.6	6755.4	6496.3	6193.4	5890.5	5613.1	5317.5	5105.8	4923.3	4861.3	4832.1
25°	7346.7	7025.5	6638.6	6244.5	5766.4	5321.1	4919.7	4605.8	4364.9	4284.6	4251.8
27.5°	7726.2	7284.6	6784.6	6233.5	5510.9	4905.1	4372.2	3981.7	3744.5	3671.5	3697.1
30°	8208.0	7620.4	6967.1	6120.4	5127.7	4321.1	3697.1	3368.6	3189.8	3120.4	3124.1
32.5°	8850.3	8102.1	7233.5	5879.5	4635.0	3656.9	3109.5	2868.6	2748.2	2656.9	2649.6
35°	9770.0	8835.7	7481.7	5492.7	4036.5	3065.7	2667.9	2478.1	2310.2	2204.4	2222.6
37.5°	10872.2	9759.1	7616.7	4970.8	3364.9	2605.8	2335.8	2142.3	1952.5	1795.6	1813.9
40°	12178.8	10967.1	7605.8	4284.6	2751.8	2292.0	2058.4	1832.1	1594.9	1452.5	1467.1
42.5°	13634.9	12109.4	7368.6	3558.4	2281.0	2036.5	1792.0	1507.3	1277.4	1189.8	1193.4
45°	14897.7	13036.4	6952.5	2806.6	1919.7	1788.3	1514.6	1222.6	1120.4	1058.4	1054.7
47.5°	15832.0	13715.2	6357.6	2208.0	1627.7	1562.0	1244.5	1094.9	1014.6	963.5	956.2
50°	16353.9	13952.5	5700.7	1729.9	1375.9	1324.8	1113.1	992.7	937.9	905.1	897.8
52.5°	17054.6	14237.1	5229.9	1365.0	1153.3	1083.9	1025.5	923.4	886.9	861.3	850.4
55°	18164.1	14788.2	4821.1	1083.9	959.8	945.2	967.1	883.2	861.3	821.2	806.6
57.5°	17120.3	13284.6	3744.5	839.4	810.2	865.0	934.3	843.1	788.3	751.8	737.2
60°	12047.4	8832.1	1883.2	675.2	722.6	810.2	879.6	762.8	708.0	715.3	708.0
62.5°	6642.3	4419.7	846.7	565.7	627.7	715.3	751.8	660.6	624.1	686.1	697.1
65°	2171.5	1503.6	489.0	438.0	496.3	583.9	649.6	627.7	620.4	693.4	715.3
67.5°	667.9	496.3	332.1	313.9	343.1	430.7	547.4	678.8	729.9	751.8	762.8
70°	500.0	390.5	284.7	266.4	281.0	328.5	463.5	565.7	532.8	536.5	529.2
72.5°	401.5	310.2	244.5	233.6	233.6	226.3	244.5	306.6	346.7	365.0	365.0
75°	281.0	219.0	186.1	171.5	135.0	109.5	98.5	98.5	87.6	83.9	80.3
77.5°	94.9	80.3	73.0	58.4	40.1	32.8	29.2	25.5	18.2	10.9	7.3
80°	14.6	10.9	7.3	7.3	7.3	3.6	3.6	3.6	0.0	0.0	0.0
82.5°	7.3	7.3	7.3	7.3	7.3	3.6	3.6	0.0	0.0	0.0	0.0
85°	7.3	7.3	7.3	7.3	7.3	3.6	3.6	0.0	0.0	0.0	0.0
87.5°	7.3	7.3	7.3	7.3	3.6	3.6	3.6	0.0	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)