

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: P643769

Luminaire Tested: GWS-SA6F-750-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643769  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6F-750-U-T2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

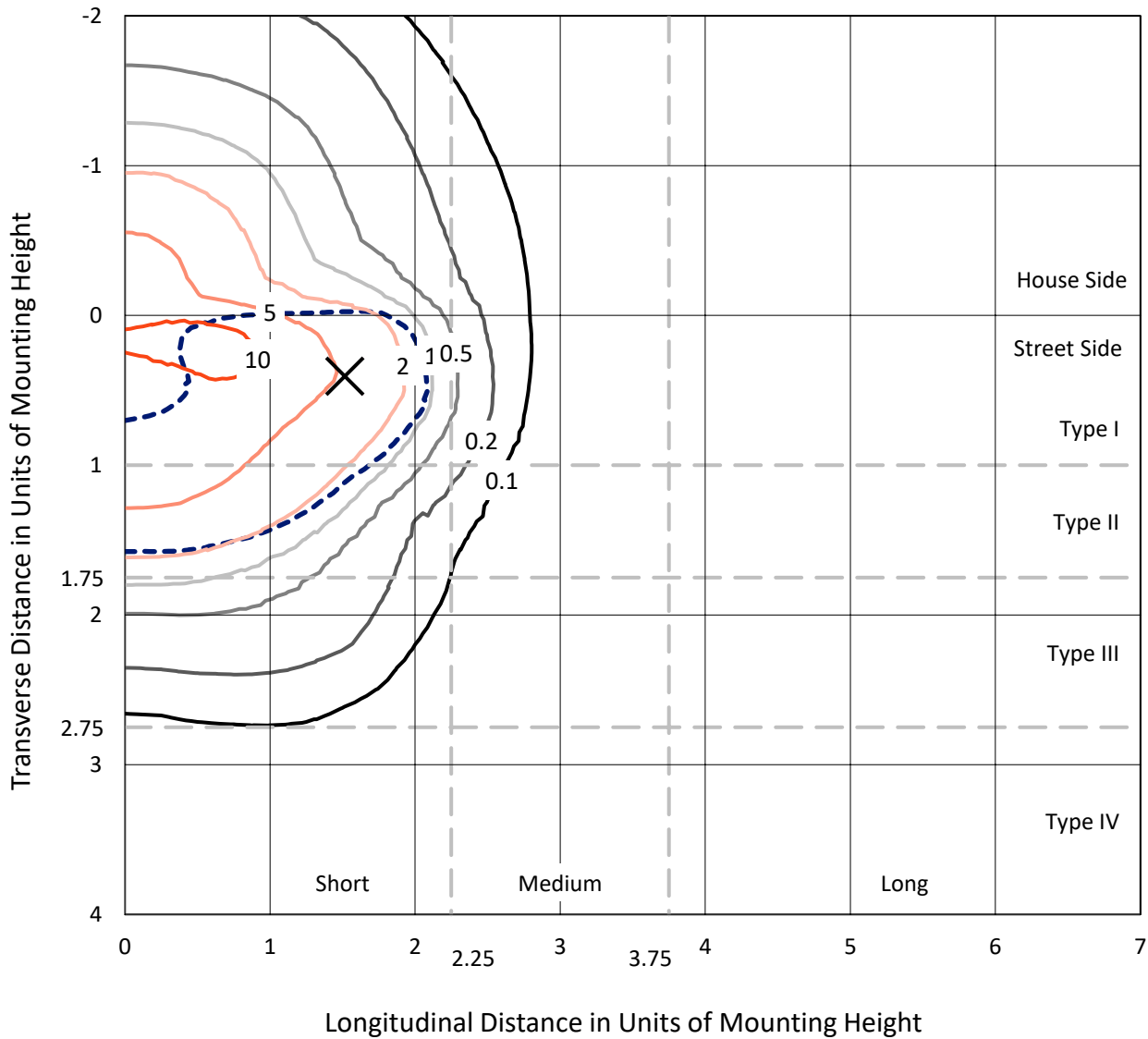
Lumens per Lamp: N/A  
Luminaire Lumens: 42445.2 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

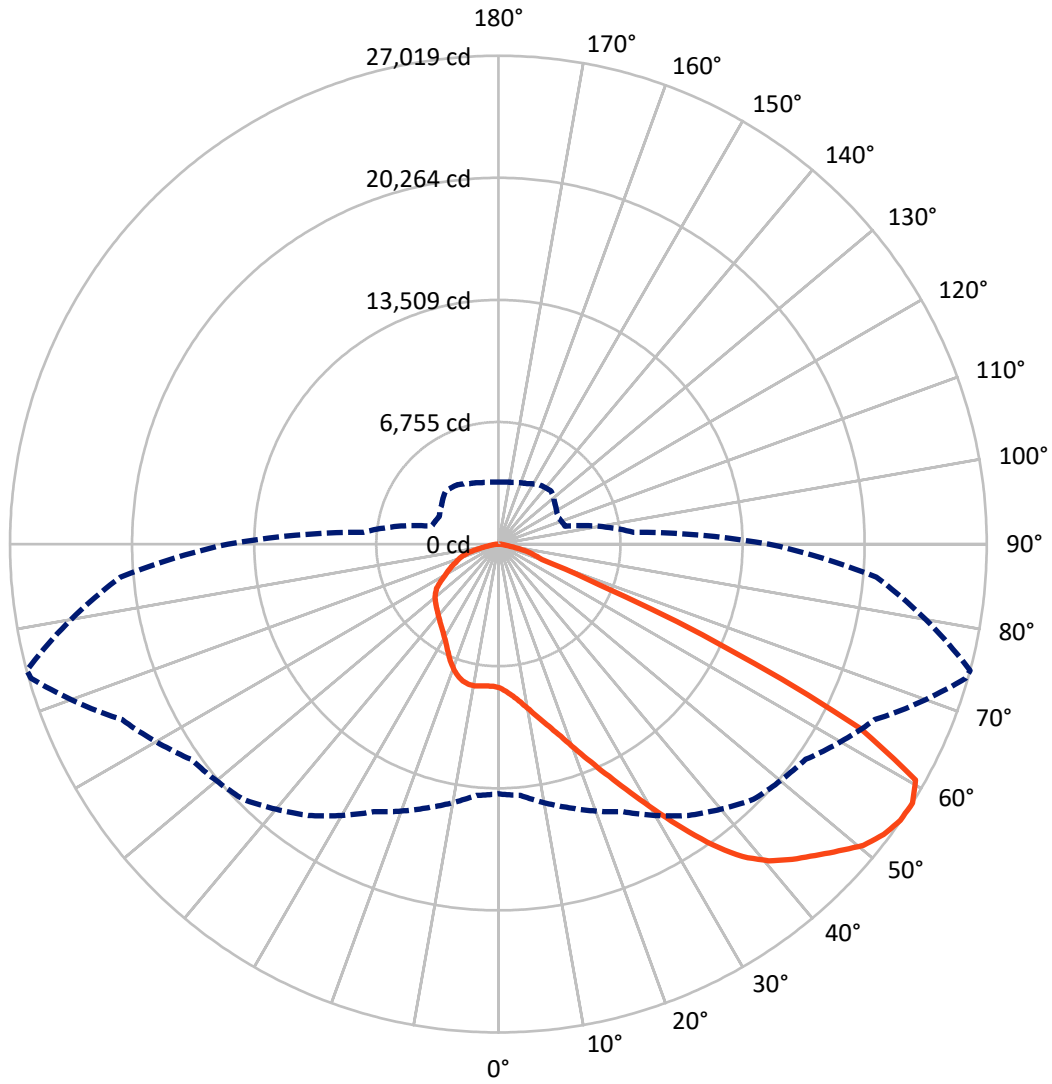
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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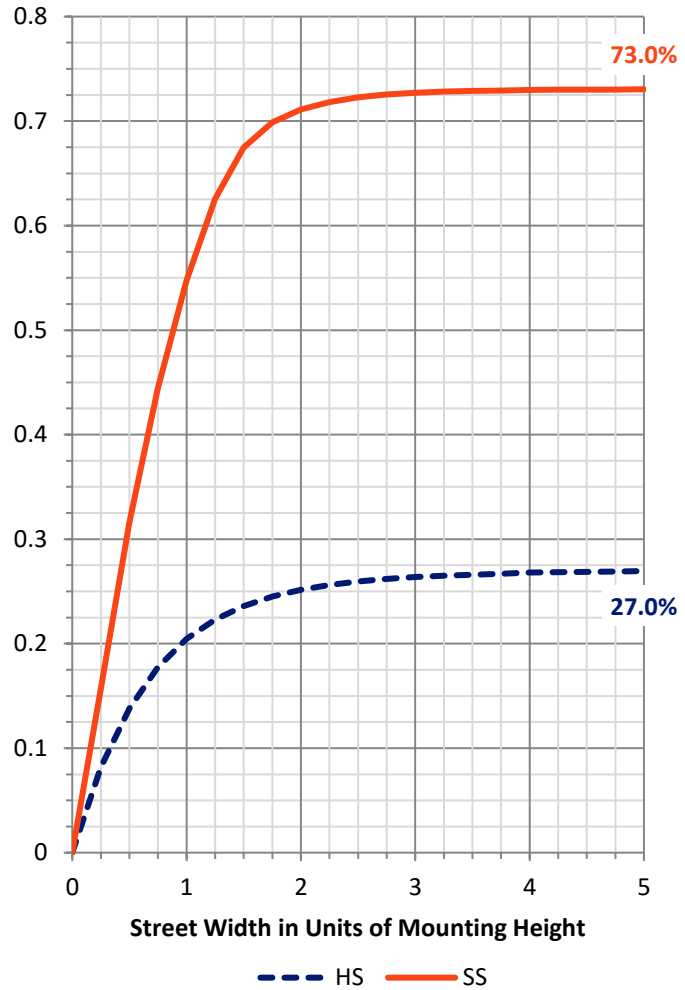
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11482.3	0.0	11482.3
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	30962.9	0.0	30962.9
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	42445.2	0.0	42445.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	795.4	1.9
10°-20°	2532.6	6.0
20°-30°	4491.4	10.6
30°-40°	6875.6	16.2
40°-50°	9573.6	22.6
50°-60°	10969.6	25.8
60°-70°	5636.3	13.3
70°-80°	1419.0	3.3
80°-90°	151.7	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°	42445.2	100.0
0°-180°	42445.2	100.0

**Coefficient of Utilization**



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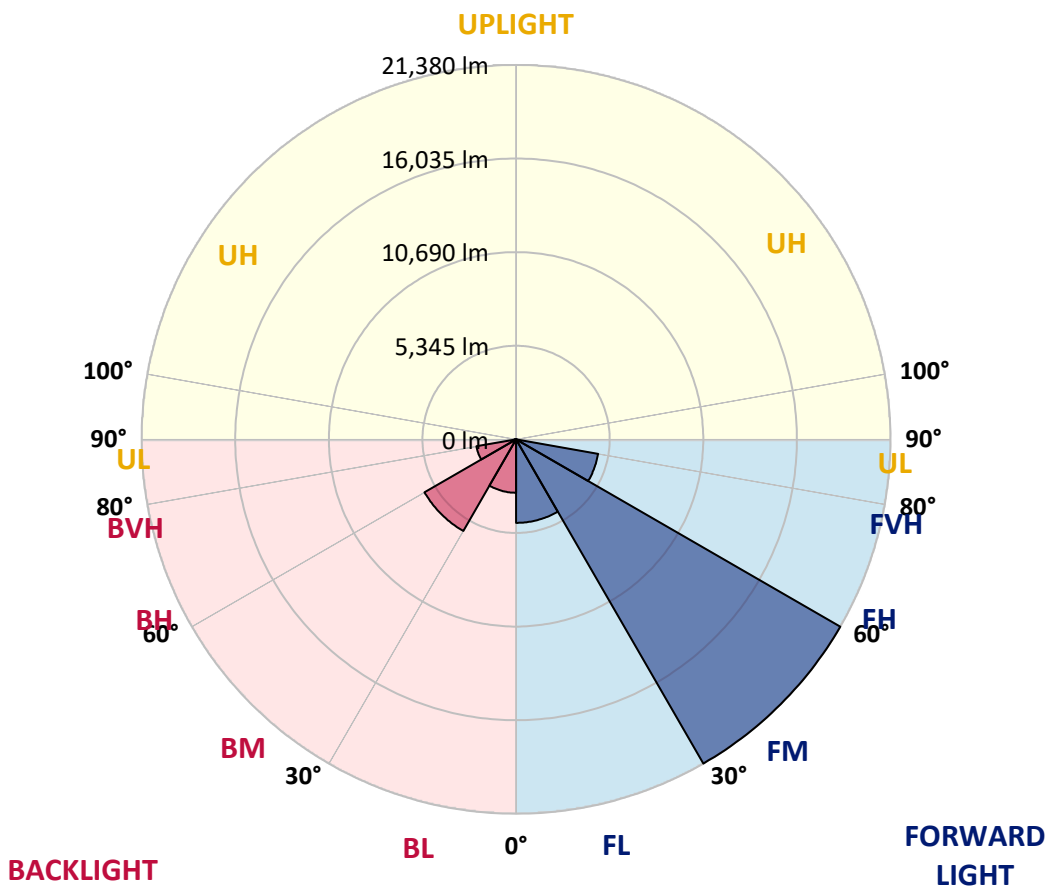
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4769.0	11.2			
FM (30°-60°)	21380.1	50.4			
FH (60°-80°)	4757.7	11.2			G2/5000
FVH (80°-90°)	56.1	0.1			G1/100
BL (0°-30°)	3050.4	7.2	B4/5000		
BM (30°-60°)	6038.6	14.2	B4/8500		
BH (60°-80°)	2297.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	95.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	7949.0	7949.0	7949.0	7949.0	7949.0	7949.0	7949.0	7949.0	7949.0	7949.0	7949.0
2.5°	8540.2	8562.1	8540.2	8576.7	8503.7	8470.9	8390.6	8270.1	8175.2	8160.6	8054.8
5°	9204.5	9251.9	9222.7	9208.1	9109.6	9036.6	8916.1	8675.3	8478.2	8449.0	8240.9
7.5°	9631.5	9664.3	9664.3	9675.3	9638.8	9554.8	9427.1	9142.4	8865.0	8821.2	8507.4
10°	9773.8	9799.3	9846.8	9938.0	10011.0	10036.6	9952.6	9678.9	9339.5	9295.7	8857.7
12.5°	9806.6	9835.8	9908.8	10076.7	10277.5	10459.9	10474.5	10273.8	9894.2	9846.8	9262.8
15°	9868.7	9897.9	9996.4	10204.5	10500.1	10850.4	11065.8	10927.1	10507.4	10456.3	9722.7
17.5°	9861.4	9894.2	10040.2	10317.6	10715.4	11222.7	11638.8	11697.2	11262.9	11175.3	10244.6
20°	9843.1	9872.3	10029.3	10368.7	10861.4	11558.5	12310.3	12613.2	12146.1	12065.8	10854.1
22.5°	9989.1	10022.0	10142.4	10423.4	10938.0	11817.6	12930.8	13660.7	13193.5	13080.4	11554.8
25°	10317.6	10365.0	10438.0	10631.5	11076.7	12047.5	13565.8	14846.8	14368.7	14233.7	12317.6
27.5°	10824.9	10883.3	10985.5	11076.7	11386.9	12339.5	14197.2	16175.3	15697.2	15554.9	13124.2
30°	11445.3	11522.0	11653.4	11715.4	11927.1	12770.2	14883.3	17543.9	17266.6	17069.5	14033.0
32.5°	12303.0	12408.9	12532.9	12551.2	12678.9	13423.5	15562.2	18901.6	18898.0	18759.3	15065.8
35°	13419.8	13533.0	13558.5	13584.0	13646.1	14321.3	16383.3	20138.8	20616.9	20456.4	16189.9
37.5°	14638.8	14803.0	14843.2	14730.0	14817.6	15401.6	17306.7	21131.6	22113.3	21941.8	17277.5
40°	15941.7	16007.4	16116.9	15938.1	16047.6	16638.8	18211.8	21766.6	23230.1	23047.6	18135.2
42.5°	16876.0	16996.5	17160.7	17095.0	17157.1	17697.2	18846.9	22073.2	24025.7	23843.3	18752.0
45°	17890.7	17927.1	18033.0	18018.4	18054.9	18558.5	19303.1	22208.2	24737.4	24573.2	19277.5
47.5°	18773.9	18828.6	18898.0	18817.7	18737.4	19065.8	19675.3	22325.0	25558.6	25361.5	19828.6
50°	19624.2	19671.7	19755.6	19522.0	19222.8	19306.7	19857.8	22485.6	26328.7	26190.0	20262.9
52.5°	19781.2	19832.3	20226.4	20273.9	19890.7	19595.0	20179.0	22839.6	26781.2	26693.6	20419.9
55°	17806.7	17897.9	18682.6	19584.1	20529.4	20434.5	20693.6	23025.7	26960.1	26982.0	20700.9
57.5°	13821.3	13952.7	15098.7	16335.9	18325.0	19971.0	20759.3	22978.3	26898.0	27018.5	20989.2
60°	9065.8	9142.4	10500.1	11887.0	13949.0	16226.4	18580.4	22124.3	26346.9	26518.5	20916.2
62.5°	5474.5	5562.1	6653.3	7704.4	8919.8	10441.7	12602.3	17781.2	22084.1	22467.3	16752.0
65°	3821.2	3938.0	4894.2	5759.2	6178.9	5865.0	6383.3	9930.7	13759.2	13919.8	10237.3
67.5°	2770.1	2850.4	3635.1	4664.3	5127.8	4142.4	3157.0	4397.8	5992.7	6051.1	4222.7
70°	1813.9	1905.1	2616.8	3551.1	4186.2	3357.7	2361.3	2379.6	2521.9	2551.1	2452.6
72.5°	996.4	1051.1	1616.8	2357.7	2474.5	2007.3	1843.1	1978.1	2076.7	2076.7	2102.2
75°	514.6	562.0	660.6	777.4	938.0	1098.5	1328.5	1529.2	1635.0	1642.3	1631.4
77.5°	262.8	281.0	354.0	383.2	419.7	489.1	635.0	813.9	908.8	945.3	938.0
80°	124.1	131.4	149.6	175.2	215.3	273.7	343.1	408.8	467.2	474.5	514.6
82.5°	65.7	73.0	80.3	94.9	116.8	146.0	200.7	240.9	277.4	284.7	317.5
85°	25.5	29.2	32.8	36.5	51.1	62.0	83.9	113.1	138.7	138.7	164.2
87.5°	0.0	0.0	0.0	0.0	3.6	7.3	14.6	18.2	25.5	25.5	43.8
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°	7949.0	7949.0	7949.0	7949.0	7949.0	7949.0	7949.0	7949.0	7949.0	7949.0	7949.0
2.5°	8029.3	7923.4	7876.0	7799.3	7737.3	7667.9	7613.2	7573.1	7547.5	7532.9	7518.3
5°	8160.6	8000.1	7872.3	7719.0	7613.2	7511.0	7427.1	7368.7	7339.5	7317.6	7303.0
7.5°	8365.0	8149.7	7908.8	7671.6	7485.5	7321.2	7215.4	7153.3	7113.2	7098.6	7087.6
10°	8646.1	8346.8	7949.0	7573.1	7295.7	7116.8	7043.9	7014.7	7018.3	7011.0	7007.4
12.5°	8963.6	8554.8	7938.0	7397.9	7091.3	6985.5	6989.1	7036.6	7091.3	7105.9	7109.5
15°	9306.6	8759.2	7832.2	7171.6	6930.7	6941.7	7036.6	7149.7	7251.9	7292.0	7299.3
17.5°	9678.9	8930.7	7638.7	6923.4	6799.3	6916.1	7091.3	7277.4	7427.1	7492.8	7511.0
20°	10095.0	9076.7	7365.0	6678.9	6675.2	6868.7	7124.1	7368.7	7558.5	7646.0	7660.6
22.5°	10536.6	9168.0	7029.3	6452.6	6547.5	6806.6	7098.6	7354.1	7554.8	7642.4	7660.6
25°	10981.8	9197.2	6660.6	6244.6	6416.1	6708.1	6974.5	7178.9	7368.7	7445.3	7459.9
27.5°	11397.9	9113.2	6310.3	6065.7	6295.7	6562.1	6740.9	6850.4	6981.8	7040.2	7051.1
30°	11821.3	8945.3	6014.6	5923.4	6160.6	6361.4	6441.7	6449.0	6500.1	6500.1	6507.3
32.5°	12248.3	8697.1	5755.5	5784.7	5992.7	6124.1	6135.1	6051.1	5989.1	5886.9	5883.3
35°	12741.0	8445.3	5543.8	5627.8	5795.7	5876.0	5843.1	5682.5	5532.9	5365.0	5357.7
37.5°	13197.2	8186.2	5365.0	5467.2	5573.0	5631.4	5554.8	5361.4	5237.3	5065.7	5040.2
40°	13573.1	7952.6	5193.5	5299.3	5350.4	5401.5	5277.4	5120.5	5138.7	5043.8	5040.2
42.5°	13792.1	7726.3	5032.9	5113.2	5146.0	5182.5	5073.0	4956.2	5054.8	4981.8	4985.4
45°	13952.7	7529.3	4886.9	4916.1	4996.4	5051.1	4948.9	4817.6	4839.5	4558.4	4492.7
47.5°	14135.1	7419.8	4748.2	4719.0	4861.4	4956.2	4799.3	4609.5	4478.1	4200.8	4175.2
50°	14328.6	7379.6	4602.2	4521.9	4693.5	4784.7	4602.2	4365.0	4193.5	4043.8	4029.2
52.5°	14394.3	7376.0	4419.7	4284.7	4456.2	4584.0	4430.7	4189.8	3985.4	3839.4	3832.1
55°	14653.4	7481.8	4186.2	3959.9	4120.5	4383.2	4270.1	3923.4	3759.2	3693.5	3686.2
57.5°	14956.3	7500.1	3817.5	3605.9	3828.5	4138.7	3996.4	3697.1	3518.3	3438.0	3430.7
60°	14832.2	7051.1	3423.4	3335.8	3580.3	3908.8	3777.4	3518.3	3310.2	3233.6	3226.3
62.5°	11303.0	4978.1	3135.1	3102.2	3313.9	3576.7	3551.1	3281.0	3084.0	3029.2	3021.9
65°	6799.3	3496.4	2857.7	2854.0	3003.7	3255.5	3288.3	3069.4	2861.3	2784.7	2784.7
67.5°	3361.3	2675.2	2543.8	2525.6	2620.5	2799.3	2938.0	2759.1	2584.0	2511.0	2500.0
70°	2375.9	2357.7	2313.9	2262.8	2281.0	2354.0	2412.4	2262.8	2076.7	2003.7	1989.1
72.5°	2054.8	2058.4	2029.2	1989.1	1974.5	1923.4	1872.3	1762.8	1649.6	1573.0	1580.3
75°	1594.9	1602.2	1620.5	1605.9	1565.7	1511.0	1456.2	1317.5	1226.3	1153.3	1138.7
77.5°	930.7	967.2	1025.6	1011.0	1018.3	941.6	919.7	784.7	700.7	649.6	638.7
80°	525.6	547.4	573.0	591.2	569.3	536.5	489.1	416.1	390.5	354.0	346.7
82.5°	317.5	339.4	350.4	365.0	357.7	313.9	277.4	229.9	208.0	189.8	186.1
85°	160.6	175.2	186.1	193.4	171.5	142.3	127.7	102.2	87.6	76.6	76.6
87.5°	40.1	43.8	51.1	43.8	40.1	18.2	14.6	3.6	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)