

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: P643687

Luminaire Tested: GWS-SA6F-740-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643687  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGF-740-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

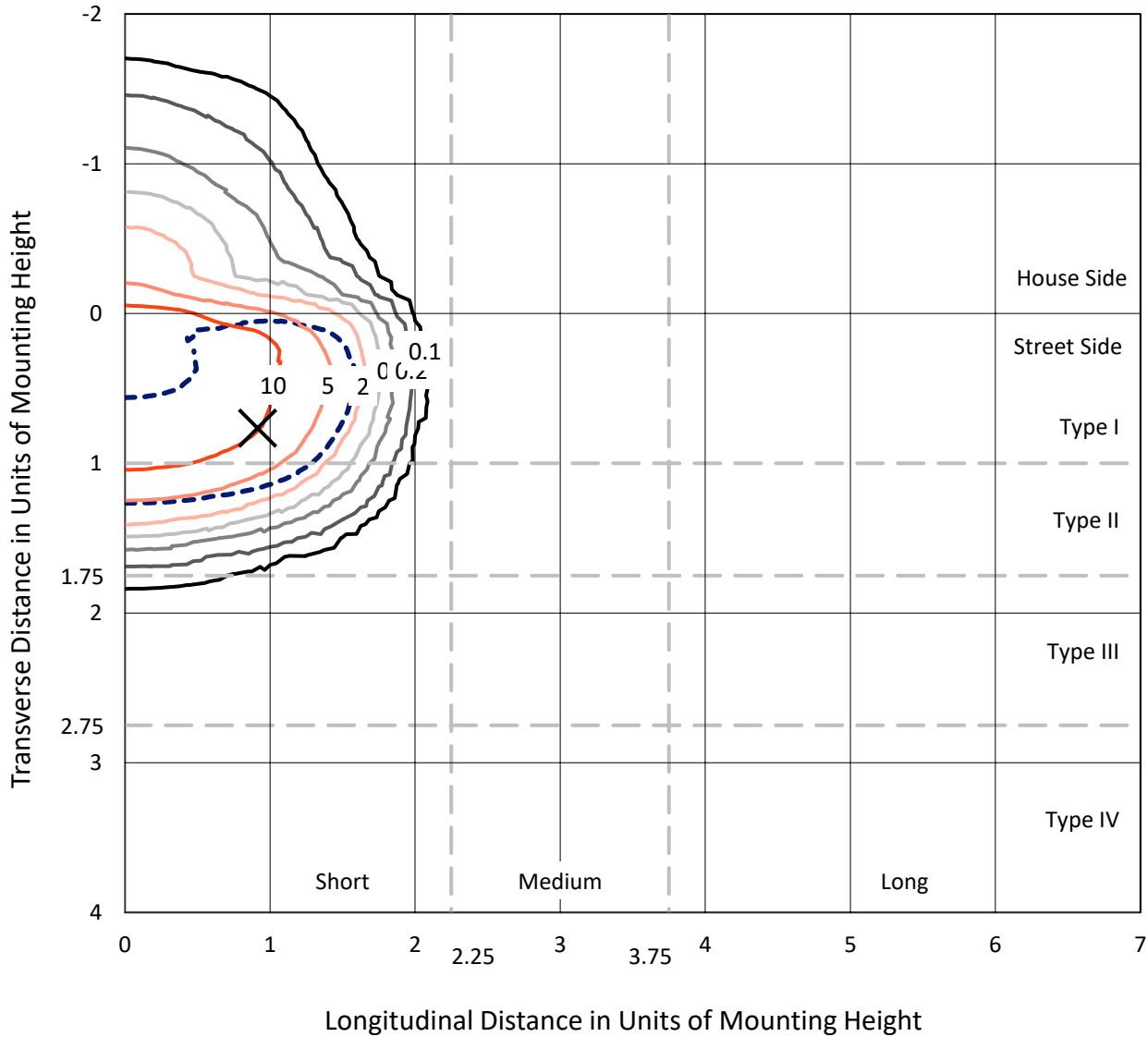
Lumens per Lamp: N/A  
Luminaire Lumens: 37484.1 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

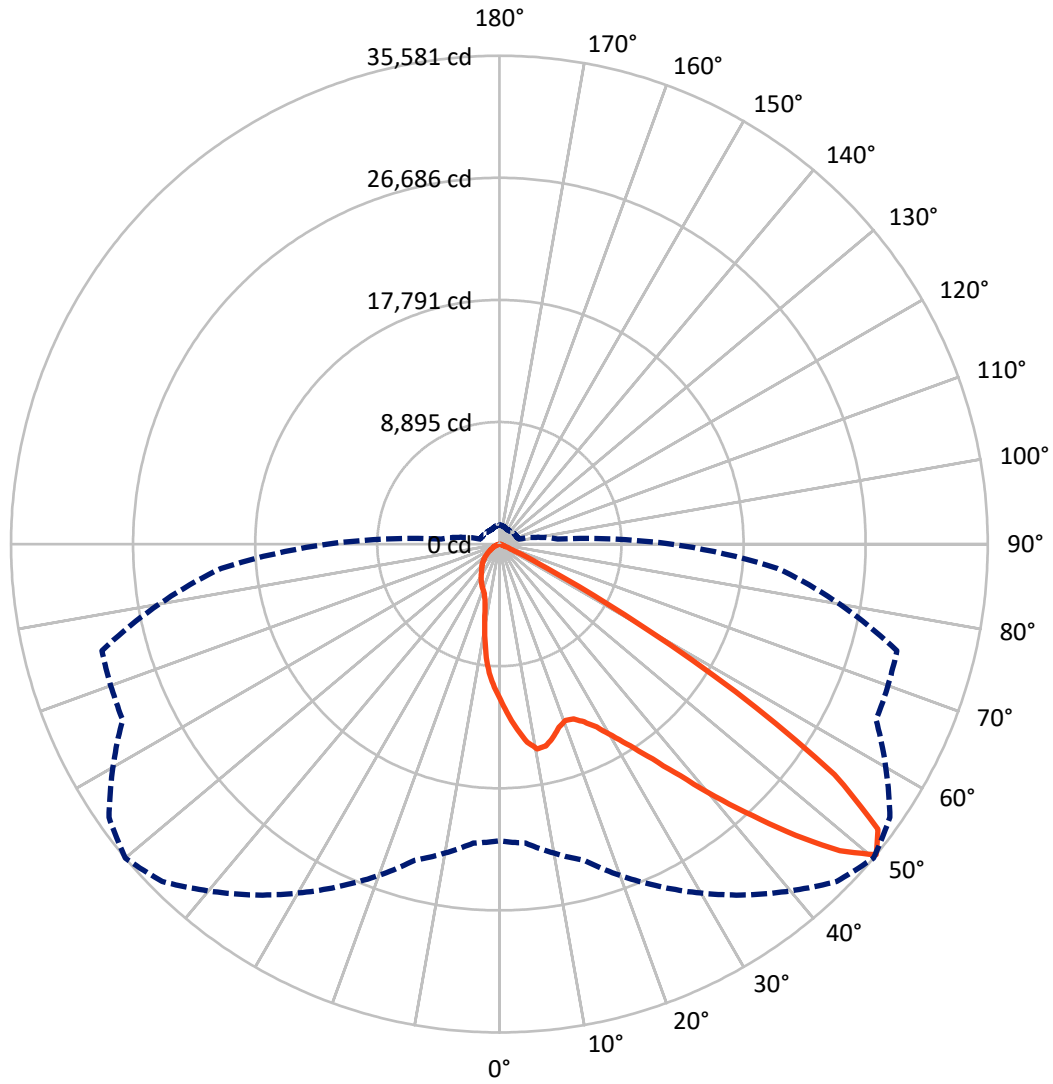
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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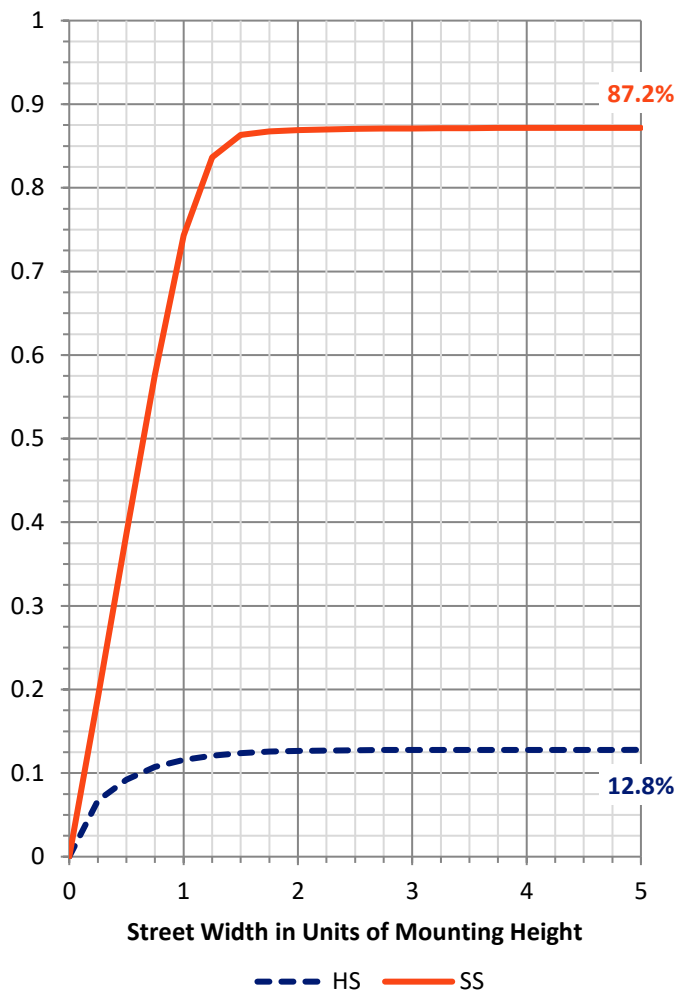
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4816.1	0.0	4816.1
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	32668.0	0.0	32668.0
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	37484.1	0.0	37484.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1053.4	2.8
10°-20°	2718.0	7.3
20°-30°	4485.7	12.0
30°-40°	7402.3	19.7
40°-50°	11712.2	31.2
50°-60°	8867.5	23.7
60°-70°	1109.8	3.0
70°-80°	125.5	0.3
80°-90°	9.6	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°	37484.1	100.0
0°-180°	37484.1	100.0

**Coefficient of Utilization**



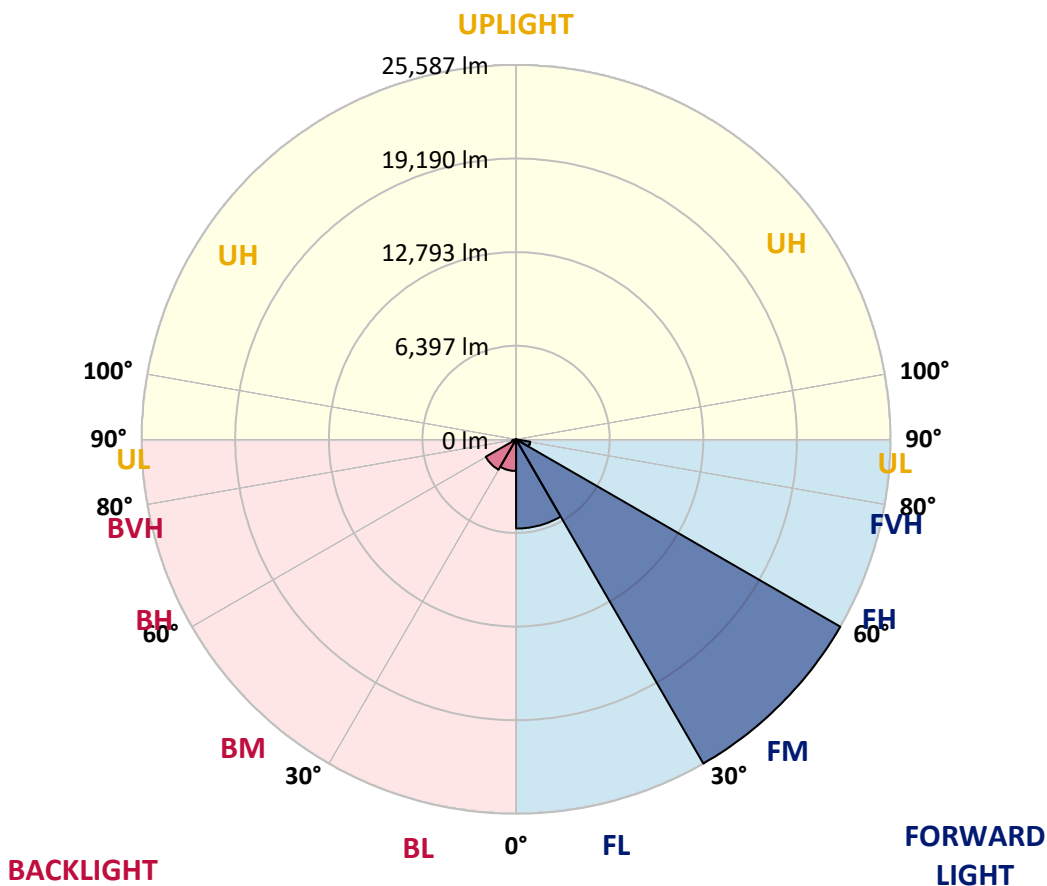
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6095.5	16.3			
FM (30°-60°)	25586.8	68.3			
FH (60°-80°)	981.2	2.6			G1/1800
FVH (80°-90°)	4.5	0.0			G0/10
BL (0°-30°)	2161.7	5.8	B3/2500		
BM (30°-60°)	2395.2	6.4	B2/2500		
BH (60°-80°)	254.1	0.7	B1/500		G1/500
BVH (80°-90°)	5.1	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	11356.2	11356.2	11356.2	11356.2	11356.2	11356.2	11356.2	11356.2	11356.2	11356.2	11356.2
2.5°	12940.3	13043.7	13015.2	12879.6	12733.3	12629.9	12469.3	12419.4	12055.5	11802.2	11534.6
5°	14503.0	14535.1	14499.4	14335.3	14078.4	13832.2	13568.2	13414.8	12804.7	12255.3	11695.1
7.5°	14877.6	14838.3	14906.1	14988.2	14952.5	14845.5	14567.2	14399.5	13671.7	12776.2	11927.0
10°	13707.3	13618.2	13871.5	14296.0	14742.0	15245.1	15173.7	15188.0	14517.2	13432.6	12230.3
12.5°	12155.4	12119.7	12308.8	12801.1	13675.2	14816.9	15091.6	15551.9	15291.4	14142.6	12576.4
15°	11473.9	11491.8	11605.9	11916.3	12544.3	13964.2	14624.3	15455.6	15983.6	14831.2	12958.1
17.5°	11577.4	11641.6	11638.0	11741.5	12123.3	13261.4	14032.0	15152.3	16518.7	15623.2	13397.0
20°	12280.2	12344.5	12248.1	12169.6	12298.1	13083.0	13721.6	14845.5	16879.1	16422.4	13860.8
22.5°	13332.7	13407.7	13179.3	12954.6	12872.5	13375.5	13839.4	14720.6	17153.8	17153.8	14274.6
25°	14606.4	14709.9	14356.7	13957.1	13728.8	13992.8	14342.4	15002.4	17435.7	17810.3	14556.5
27.5°	16030.0	16033.5	15730.3	15280.7	14852.6	14884.7	15095.2	15637.5	17746.1	18516.7	14777.7
30°	17631.9	17642.6	17239.4	16700.7	16162.0	16015.7	16194.1	16604.4	18391.8	19405.1	15084.5
32.5°	19701.2	19751.1	19173.2	18381.1	17681.8	17407.1	17510.6	17942.3	19419.3	20518.2	15544.7
35°	22498.3	22551.8	21699.1	20653.8	19540.6	19126.8	19230.2	19665.5	20907.1	22098.7	16279.7
37.5°	25259.8	25331.1	24467.7	23493.7	21966.7	21281.7	21388.7	21802.6	23140.5	24282.2	17457.1
40°	27168.5	27264.9	26997.3	26340.8	24924.4	24025.3	24153.8	24303.6	25598.7	26893.8	18984.1
42.5°	28174.6	28310.2	28424.4	28759.7	28014.1	27261.3	27043.6	27054.4	28099.7	29555.4	20571.7
45°	28235.3	28367.3	28952.4	30247.5	30814.8	30657.8	30261.8	29994.2	30008.5	31328.5	21563.6
47.5°	26273.0	26519.2	27614.5	30151.2	32284.7	33586.9	33387.1	32752.1	30811.2	31446.3	21456.5
50°	21624.2	21866.8	23857.6	27507.5	31214.4	34757.2	35581.3	34728.6	30286.7	29979.9	20354.1
52.5°	15705.3	15730.3	17021.8	21285.3	26876.0	32598.7	34539.5	34457.5	29487.6	28203.2	18848.5
55°	7460.2	7371.0	8823.1	12012.7	18588.0	26365.8	29637.4	30565.0	28353.0	26918.8	17681.8
57.5°	2172.8	2215.6	2861.3	4688.0	9297.6	16850.5	20297.0	22023.8	23272.5	22130.8	13714.5
60°	974.0	977.6	1088.2	1427.1	3096.8	7838.4	10492.8	12629.9	13914.3	12893.9	6803.7
62.5°	706.4	710.0	752.8	806.3	1052.5	2654.4	3935.2	5244.6	5340.9	3496.4	1723.2
65°	588.7	588.7	595.8	595.8	631.5	949.0	1195.2	1541.3	1298.7	963.3	674.3
67.5°	474.5	478.1	485.2	485.2	474.5	474.5	513.8	563.7	603.0	745.7	620.8
70°	371.0	367.5	367.5	371.0	360.3	306.8	331.8	378.2	413.9	581.5	538.7
72.5°	289.0	292.6	289.0	274.7	249.7	182.0	196.2	246.2	264.0	363.9	363.9
75°	217.6	221.2	206.9	157.0	103.5	57.1	74.9	121.3	153.4	178.4	132.0
77.5°	28.5	28.5	21.4	21.4	17.8	21.4	21.4	28.5	42.8	42.8	32.1
80°	3.6	3.6	3.6	7.1	10.7	14.3	14.3	14.3	14.3	17.8	17.8
82.5°	3.6	3.6	3.6	3.6	10.7	10.7	14.3	14.3	14.3	14.3	14.3
85°	0.0	0.0	0.0	3.6	7.1	10.7	10.7	14.3	14.3	14.3	14.3
87.5°	0.0	0.0	0.0	3.6	7.1	10.7	10.7	10.7	14.3	14.3	14.3
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°	11356.2	11356.2	11356.2	11356.2	11356.2	11356.2	11356.2	11356.2	11356.2	11356.2	11356.2
2.5°	11374.0	11167.1	10917.4	10746.1	10503.5	10342.9	10114.6	9961.2	9829.2	9725.7	9782.8
5°	11377.6	11049.4	10539.2	10103.9	9629.4	9194.1	8726.8	8359.3	8027.5	7877.6	7959.7
7.5°	11449.0	10978.0	10196.7	9422.5	8512.7	7613.6	6771.6	6086.6	5747.7	5587.1	5637.1
10°	11588.1	10945.9	9814.9	8530.5	7053.5	5826.2	5009.1	4545.3	4356.2	4256.3	4274.2
12.5°	11716.5	10924.5	9319.0	7356.7	5565.7	4520.4	4095.8	4031.6	4070.8	4074.4	4070.8
15°	11891.4	10885.2	8705.3	6150.8	4452.6	3906.7	3917.4	4010.2	4102.9	4131.5	4124.3
17.5°	12076.9	10824.6	7913.3	4994.9	3778.3	3728.3	3853.2	3978.1	4070.8	4085.1	4088.7
20°	12269.5	10699.7	7010.7	4078.0	3464.3	3592.7	3731.9	3824.6	3892.4	3913.8	3921.0
22.5°	12358.7	10435.7	5968.9	3421.5	3253.8	3425.1	3528.5	3649.8	3671.2	3592.7	3607.0
25°	12312.4	9989.7	4952.1	2979.1	3043.3	3214.6	3368.0	3307.3	3218.1	3161.0	3178.9
27.5°	12166.1	9397.5	3956.7	2654.4	2818.5	3036.2	3054.0	2986.2	2971.9	2925.6	2939.8
30°	12009.1	8716.0	3182.4	2394.0	2590.2	2818.5	2765.0	2790.0	2793.6	2740.0	2757.9
32.5°	11912.8	8002.5	2533.1	2219.1	2443.9	2486.7	2593.8	2643.7	2647.3	2522.4	2543.8
35°	11944.9	7299.6	2144.2	2076.4	2308.3	2297.6	2447.5	2476.0	2269.1	2097.8	2115.7
37.5°	12205.3	6650.3	1923.0	1965.8	2072.9	2154.9	2269.1	2080.0	2033.6	1955.1	1965.8
40°	12690.5	6097.3	1791.0	1898.1	1912.3	2044.3	1869.5	1894.5	1898.1	1848.1	1858.8
42.5°	13257.8	5637.1	1712.5	1858.8	1823.1	1844.5	1669.7	1719.7	1773.2	1751.8	1755.3
45°	13543.2	5187.5	1644.7	1723.2	1733.9	1530.6	1491.3	1544.8	1612.6	1623.3	1626.9
47.5°	13289.9	4759.4	1573.4	1527.0	1598.4	1395.0	1348.6	1366.5	1444.9	1487.8	1494.9
50°	12515.7	4267.0	1466.4	1352.2	1312.9	1252.3	1209.5	1213.0	1302.2	1377.2	1391.4
52.5°	11427.5	3753.3	1291.5	1145.3	1056.1	1102.4	1113.1	1091.7	1173.8	1248.7	1263.0
55°	10371.5	3111.1	1023.9	931.2	849.1	949.0	977.6	949.0	974.0	1023.9	1027.5
57.5°	7303.2	1758.9	784.9	770.6	702.8	813.5	859.8	817.0	774.2	806.3	813.5
60°	3385.8	920.5	603.0	603.0	585.1	699.3	777.8	717.1	635.1	649.3	660.0
62.5°	1059.6	581.5	442.4	417.4	478.1	595.8	660.0	599.4	503.1	503.1	517.3
65°	599.4	499.5	349.6	321.1	388.9	478.1	517.3	453.1	367.5	360.3	360.3
67.5°	556.6	474.5	310.4	260.4	274.7	306.8	321.1	278.3	253.3	249.7	253.3
70°	460.2	396.0	249.7	178.4	167.7	164.1	171.3	160.5	153.4	157.0	167.7
72.5°	285.4	239.0	157.0	107.0	92.8	89.2	89.2	89.2	85.6	85.6	85.6
75°	103.5	89.2	71.4	53.5	46.4	42.8	42.8	46.4	42.8	39.2	35.7
77.5°	32.1	28.5	28.5	28.5	25.0	21.4	17.8	17.8	14.3	10.7	10.7
80°	17.8	17.8	17.8	17.8	14.3	14.3	10.7	7.1	3.6	3.6	0.0
82.5°	17.8	17.8	17.8	14.3	14.3	14.3	10.7	7.1	3.6	0.0	0.0
85°	14.3	14.3	14.3	14.3	14.3	14.3	10.7	7.1	3.6	0.0	0.0
87.5°	14.3	14.3	14.3	14.3	14.3	14.3	10.7	7.1	3.6	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)