

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: P643695

Luminaire Tested: GWS-SA6F-740-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643695
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42389.9 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

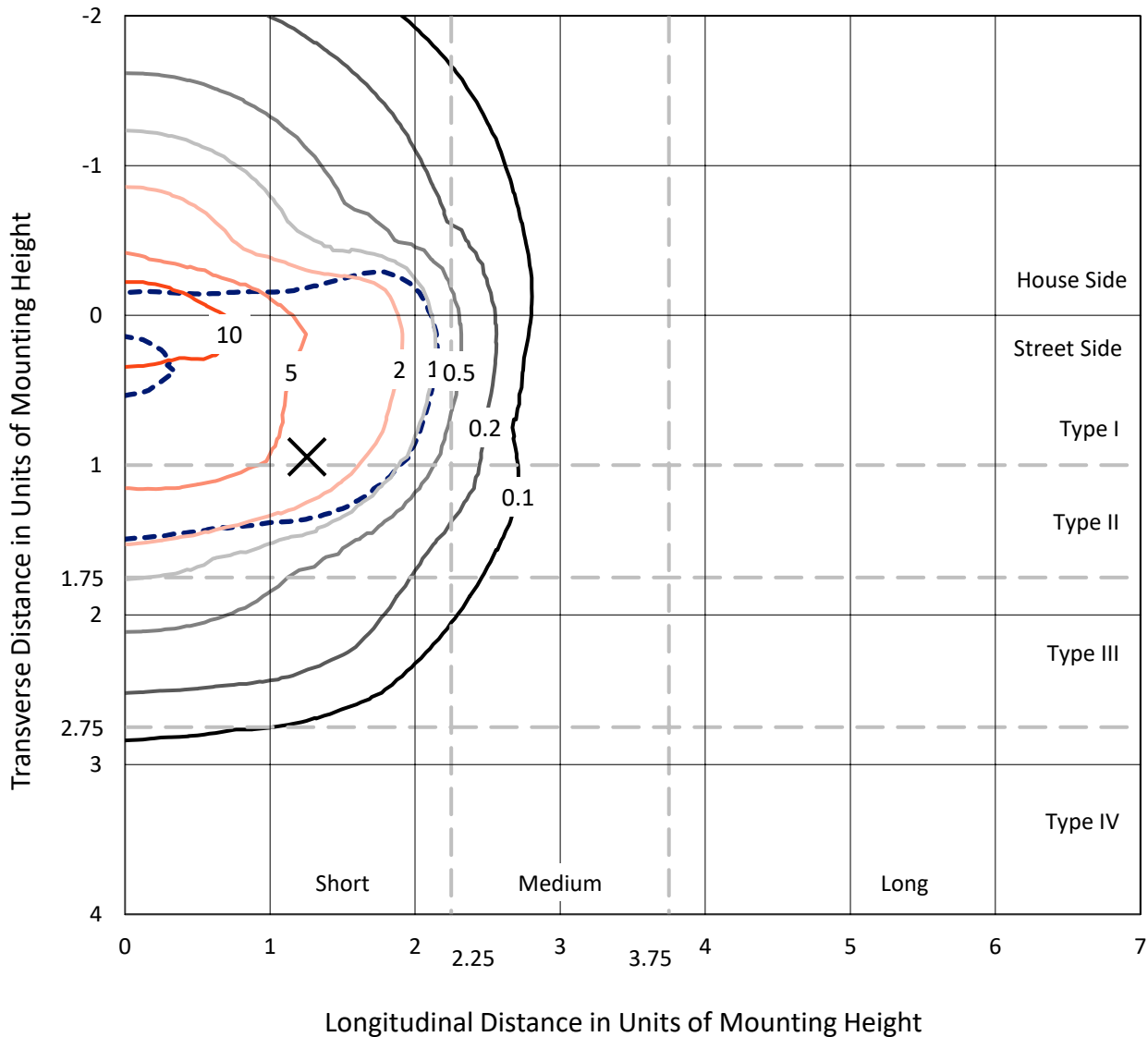
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

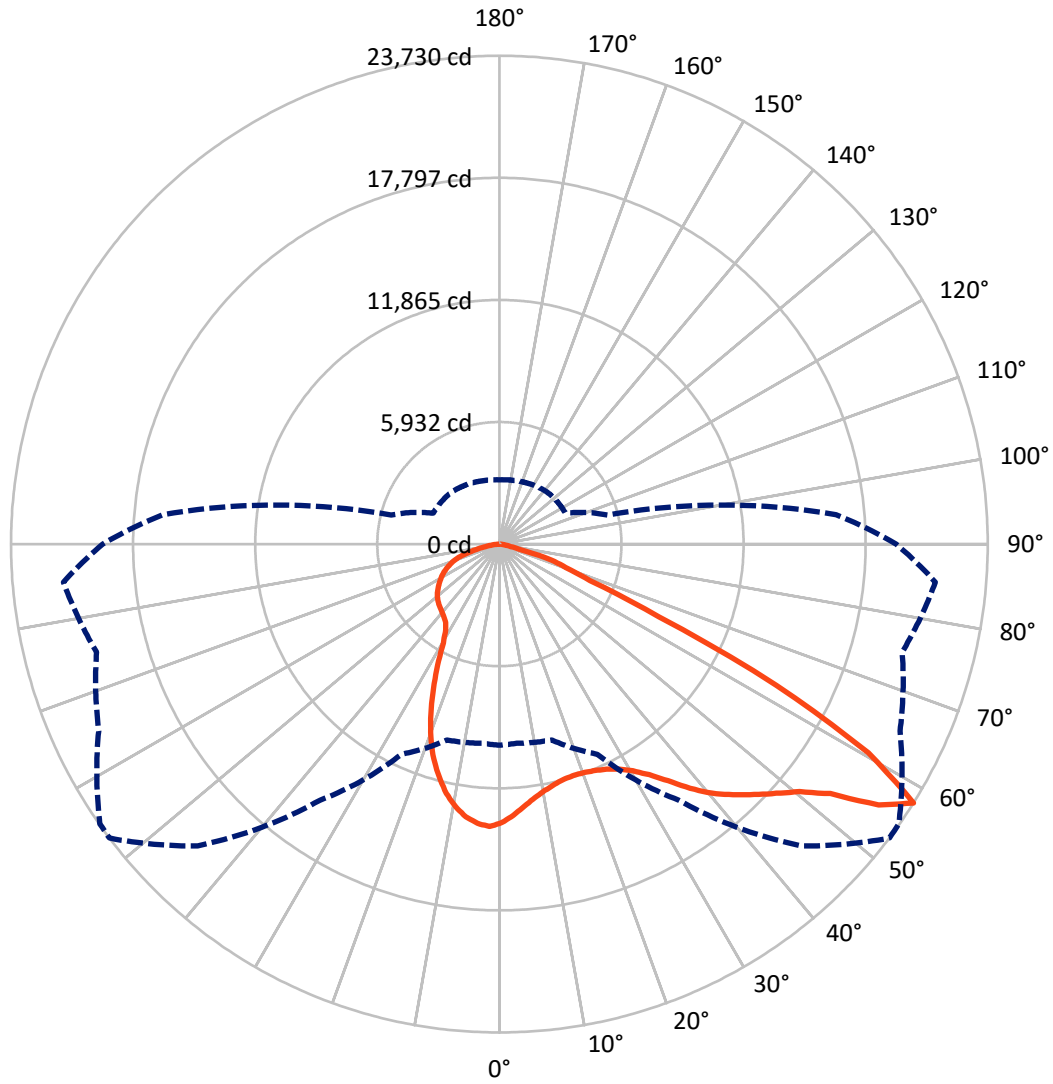
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15 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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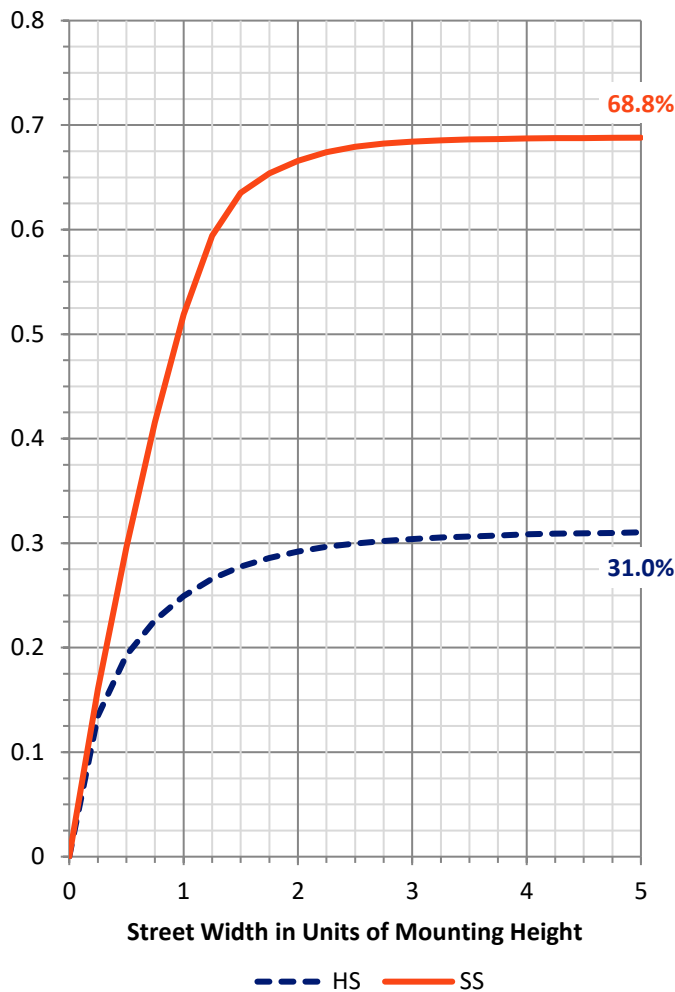
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13253.8	0.0	13253.8
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	29136.1	0.0	29136.1
	% Fixture	68.7	0.0	68.7
Total	Lumens	42389.9	0.0	42389.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1224.1	2.9
10°-20°	3211.4	7.6
20°-30°	4731.6	11.2
30°-40°	6622.9	15.6
40°-50°	8706.4	20.5
50°-60°	10208.2	24.1
60°-70°	6013.8	14.2
70°-80°	1496.0	3.5
80°-90°	175.5	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°	42389.9	100.0
0°-180°	42389.9	100.0

Coefficient of Utilization



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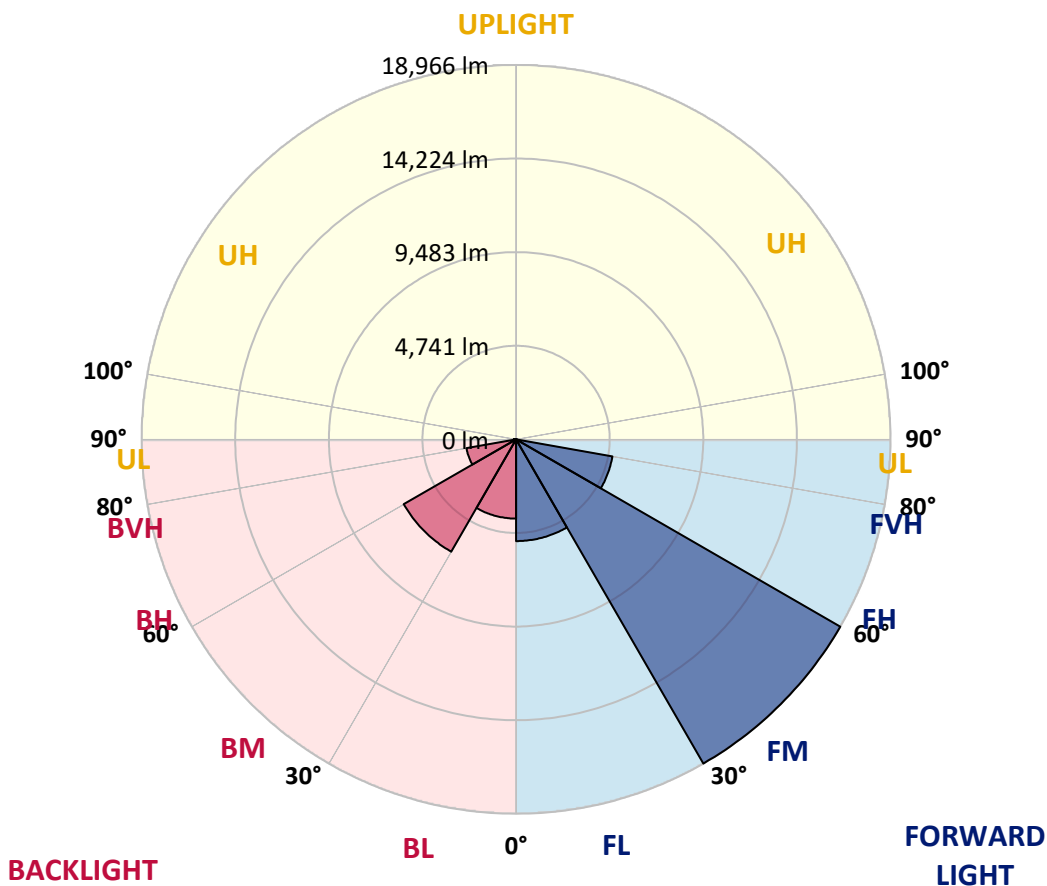
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5153.8	12.2			
FM (30°-60°)	18965.6	44.7			
FH (60°-80°)	4958.0	11.7			G2/5000
FVH (80°-90°)	58.7	0.1			G1/100
BL (0°-30°)	4013.3	9.5	B4/5000		
BM (30°-60°)	6571.9	15.5	B4/8500		
BH (60°-80°)	2551.8	6.0	B4/5000		G4/5000
BVH (80°-90°)	116.8	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°	13536.2	13536.2	13536.2	13536.2	13536.2	13536.2	13536.2	13536.2	13536.2	13536.2	13536.2
2.5°	12758.5	12794.1	12801.3	12911.9	12919.0	13079.6	13186.6	13165.2	13275.8	13411.4	13518.4
5°	12148.4	12151.9	12187.6	12319.6	12391.0	12601.5	12779.9	12779.9	12993.9	13272.2	13511.3
7.5°	11645.3	11641.7	11673.8	11820.1	11937.9	12191.2	12433.8	12462.3	12762.0	13168.8	13557.6
10°	11177.9	11202.9	11238.6	11417.0	11566.8	11880.8	12169.8	12216.2	12594.3	13097.4	13621.9
12.5°	10878.2	10881.8	10935.3	11135.1	11327.8	11663.1	11966.4	12023.5	12458.8	13029.6	13668.2
15°	10685.6	10689.1	10746.2	10967.4	11192.2	11531.1	11841.5	11905.8	12380.3	13018.9	13757.4
17.5°	10599.9	10596.4	10649.9	10871.1	11117.3	11470.5	11802.3	11880.8	12416.0	13101.0	13914.4
20°	10599.9	10603.5	10632.0	10831.8	11081.6	11456.2	11841.5	11937.9	12555.1	13286.5	14157.0
22.5°	10749.8	10764.1	10778.3	10913.9	11110.1	11477.6	11945.0	12073.4	12854.8	13596.9	14474.6
25°	11042.3	11045.9	11060.2	11170.8	11260.0	11538.3	12116.3	12308.9	13322.2	14050.0	14874.2
27.5°	11434.8	11484.8	11499.0	11570.4	11570.4	11688.1	12383.8	12662.1	13953.7	14702.9	15384.4
30°	11984.2	12002.1	12027.1	12105.6	12019.9	11970.0	12776.3	13133.1	14685.1	15491.4	15998.0
32.5°	12465.9	12505.1	12640.7	12769.2	12615.7	12458.8	13354.3	13775.3	15387.9	16312.0	16650.9
35°	12876.2	12972.5	13233.0	13518.4	13411.4	13254.4	14121.4	14560.2	15965.9	16900.7	17228.9
37.5°	13372.1	13447.0	13803.8	14267.6	14364.0	14289.0	15056.1	15370.1	16351.2	17050.5	17542.9
40°	13875.2	13989.4	14449.6	15091.8	15459.3	15512.8	15919.5	16130.0	16483.2	16758.0	17482.2
42.5°	14388.9	14585.2	15216.7	15965.9	16618.8	16740.1	16647.4	16736.6	16440.4	16354.8	17200.4
45°	15016.9	15248.8	15962.3	16918.5	17778.4	17967.5	17360.9	17278.9	16433.3	16201.4	17025.6
47.5°	15759.0	15990.9	16672.3	17785.5	18884.4	19023.5	18092.3	17942.5	16683.0	16436.9	17261.0
50°	16415.5	16576.0	17186.1	18431.3	19915.5	19997.5	18898.6	18716.7	17303.8	17089.8	17996.0
52.5°	15748.3	15730.4	16372.6	17906.8	20450.6	21438.9	20140.2	19965.4	18502.6	18174.4	19134.1
55°	13361.4	13158.1	13732.5	15241.6	18955.7	22719.8	22366.5	22016.9	20101.0	19266.1	20200.9
57.5°	9768.6	9711.6	9850.7	11267.1	15184.6	20736.1	23729.5	23697.3	21481.7	20265.1	21264.1
60°	7638.7	7553.0	7182.0	7221.2	10350.2	16197.8	20593.4	21538.8	22338.0	20864.5	22006.2
62.5°	6782.4	6718.2	6525.5	5993.9	6165.2	10860.4	15095.4	15962.3	19519.4	18427.7	18902.2
65°	5615.7	5597.9	5758.4	5737.0	5166.2	5997.5	8519.9	9394.0	12273.2	12426.7	12273.2
67.5°	4081.6	4049.5	4456.2	5258.9	4973.5	4527.5	4748.7	5052.0	6293.6	5651.4	5087.7
70°	2654.4	2608.1	2843.5	3799.7	4452.6	3946.0	3421.5	3371.6	3460.8	2151.4	2326.2
72.5°	1780.3	1726.8	1723.2	2090.7	2690.1	2658.0	2650.9	2625.9	2344.0	1698.3	1883.8
75°	991.8	949.0	938.3	902.7	963.3	981.1	1045.4	1081.0	1170.2	1288.0	1427.1
77.5°	167.7	164.1	206.9	264.0	363.9	467.4	578.0	610.1	752.8	892.0	981.1
80°	92.8	96.3	124.9	153.4	203.4	278.3	356.8	378.2	463.8	538.7	610.1
82.5°	49.9	49.9	64.2	82.1	110.6	146.3	192.7	210.5	267.6	314.0	363.9
85°	17.8	17.8	25.0	32.1	46.4	60.7	74.9	85.6	117.7	160.6	182.0
87.5°	0.0	0.0	0.0	0.0	3.6	7.1	14.3	14.3	17.8	32.1	46.4
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°	13536.2	13536.2	13536.2	13536.2	13536.2	13536.2	13536.2	13536.2	13536.2	13536.2	13536.2
2.5°	13607.6	13511.3	13643.3	13703.9	13725.3	13739.6	13646.8	13582.6	13561.2	13493.4	13454.2
5°	13657.5	13593.3	13718.2	13718.2	13629.0	13536.2	13347.1	13215.1	13122.4	13011.8	12993.9
7.5°	13743.2	13696.8	13764.6	13625.4	13400.7	13150.9	12822.7	12565.8	12358.9	12223.3	12226.9
10°	13857.3	13800.3	13746.7	13436.3	13026.0	12565.8	12062.7	11688.1	11345.6	11188.6	11103.0
12.5°	13932.3	13850.2	13625.4	13111.7	12508.7	11891.5	11181.5	10624.9	10129.0	9904.2	9886.4
15°	14025.0	13875.2	13425.6	12690.7	11852.2	11010.2	10096.9	9322.7	8651.9	8302.3	8284.4
17.5°	14146.3	13900.2	13186.6	12209.0	11160.1	9918.5	8769.7	7795.6	7082.1	6810.9	6857.3
20°	14317.6	13928.7	12915.4	11673.8	10300.2	8676.9	7246.2	6350.7	6076.0	6058.1	6022.4
22.5°	14510.3	13946.5	12615.7	11074.5	9258.4	7353.2	5986.8	5605.0	5601.4	5690.6	5712.1
25°	14727.9	13960.8	12276.8	10375.2	8131.0	6033.2	5294.6	5180.4	5269.6	5437.3	5458.7
27.5°	15006.2	13989.4	11866.5	9608.1	6932.2	5212.6	4912.9	4884.3	4991.4	5148.3	5141.2
30°	15416.5	14092.8	11431.2	8726.8	5701.3	4823.7	4681.0	4684.5	4727.3	4802.3	4813.0
32.5°	15833.9	14253.4	11006.7	7735.0	4994.9	4602.5	4538.2	4531.1	4531.1	4563.2	4570.4
35°	16229.9	14435.3	10546.4	6700.3	4652.4	4474.0	4431.2	4409.8	4399.1	4392.0	4381.3
37.5°	16451.1	14524.5	10096.9	5679.9	4470.5	4388.4	4345.6	4317.0	4277.8	4249.3	4242.1
40°	16354.8	14421.1	9576.0	4916.4	4359.9	4306.3	4256.4	4217.1	4163.6	4138.7	4124.4
42.5°	16033.7	14100.0	9008.7	4556.1	4270.7	4217.1	4156.5	4092.3	4056.6	4035.2	4031.6
45°	15694.8	13711.1	8323.7	4345.6	4185.0	4120.8	4049.5	3978.1	3938.9	3928.1	3924.6
47.5°	15684.1	13518.4	7595.9	4177.9	4081.6	4017.3	3928.1	3856.8	3814.0	3799.7	3785.4
50°	16155.0	13714.6	6775.3	4031.6	3974.5	3906.7	3806.8	3728.4	3674.8	3657.0	3653.4
52.5°	17132.6	14453.2	6040.3	3885.3	3831.8	3753.3	3671.3	3592.8	3528.6	3496.4	3492.9
55°	18188.7	15391.5	5583.6	3735.5	3664.1	3596.3	3521.4	3435.8	3364.4	3314.5	3307.4
57.5°	19280.4	16415.5	5444.5	3546.4	3492.9	3446.5	3357.3	3264.5	3182.5	3136.1	3125.4
60°	20179.5	17296.7	5704.9	3346.6	3318.1	3257.4	3175.3	3086.1	3029.1	2993.4	2986.3
62.5°	16893.5	14082.1	4606.0	3129.0	3129.0	3064.7	2972.0	2907.8	2868.5	2843.5	2836.4
65°	10721.2	8719.7	3143.2	2911.3	2907.8	2822.1	2743.6	2700.8	2683.0	2643.7	2636.6
67.5°	4670.3	3985.2	2686.6	2690.1	2675.9	2583.1	2504.6	2472.5	2436.8	2394.0	2390.4
70°	2422.5	2468.9	2404.7	2443.9	2419.0	2308.4	2233.4	2183.5	2108.6	2065.8	2069.3
72.5°	1955.2	2005.1	2076.5	2137.1	2083.6	1994.4	1876.7	1816.0	1719.7	1673.3	1676.9
75°	1491.3	1544.9	1612.6	1676.9	1634.1	1523.5	1448.5	1387.9	1277.3	1223.8	1234.5
77.5°	1027.5	1056.1	1138.1	1134.6	1120.3	1088.2	977.6	906.2	792.1	727.8	735.0
80°	638.6	656.5	695.7	713.6	706.4	663.6	574.4	520.9	453.1	413.9	417.4
82.5°	385.3	396.0	431.7	435.3	431.7	399.6	331.8	292.6	249.7	228.3	228.3
85°	196.2	203.4	224.8	224.8	203.4	171.3	153.4	135.6	110.6	99.9	99.9
87.5°	53.5	53.5	67.8	57.1	46.4	42.8	21.4	17.8	7.1	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)