

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: P643714

Luminaire Tested: GWS-SA6F-740-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643714
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41494.4 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

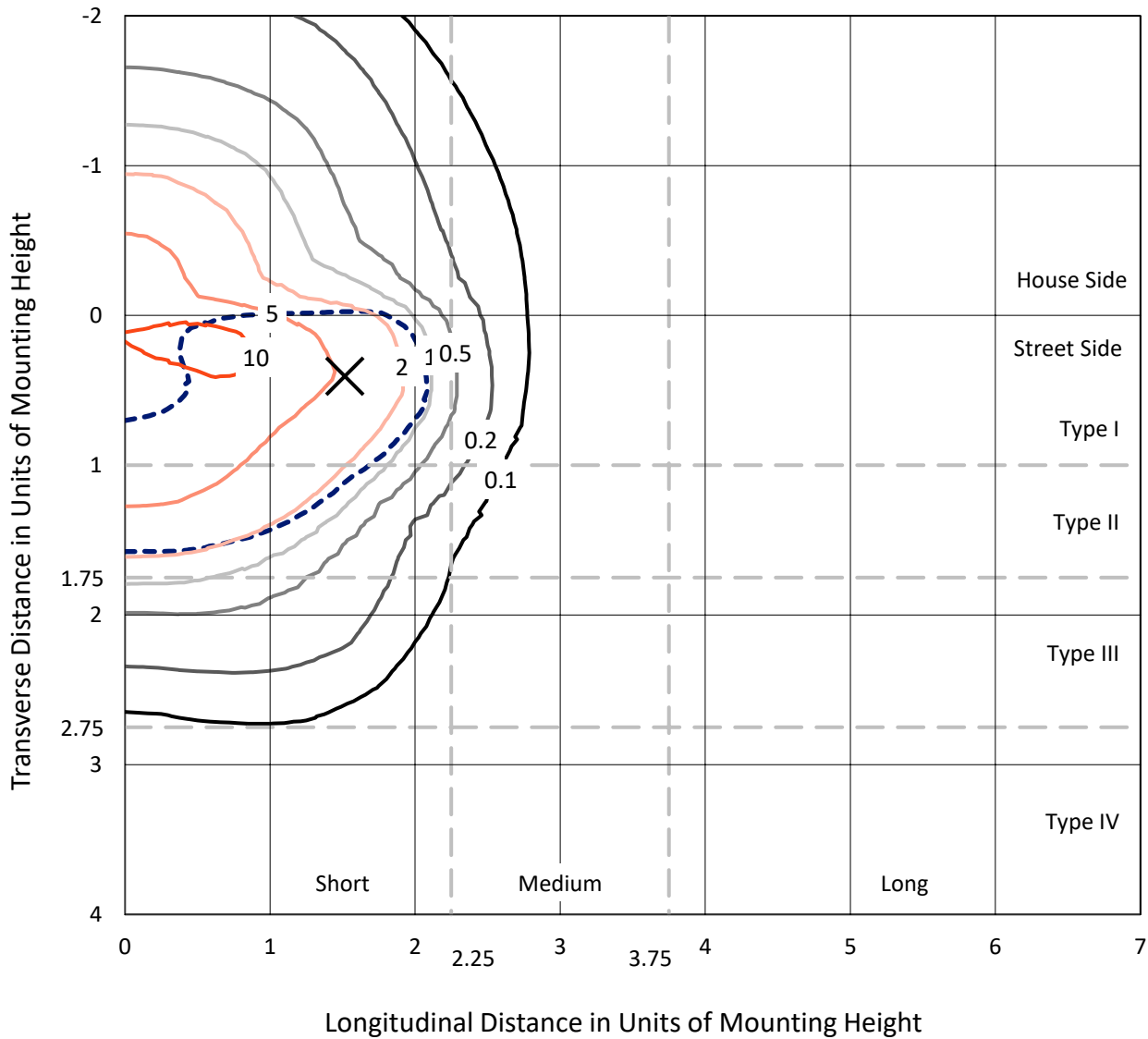
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

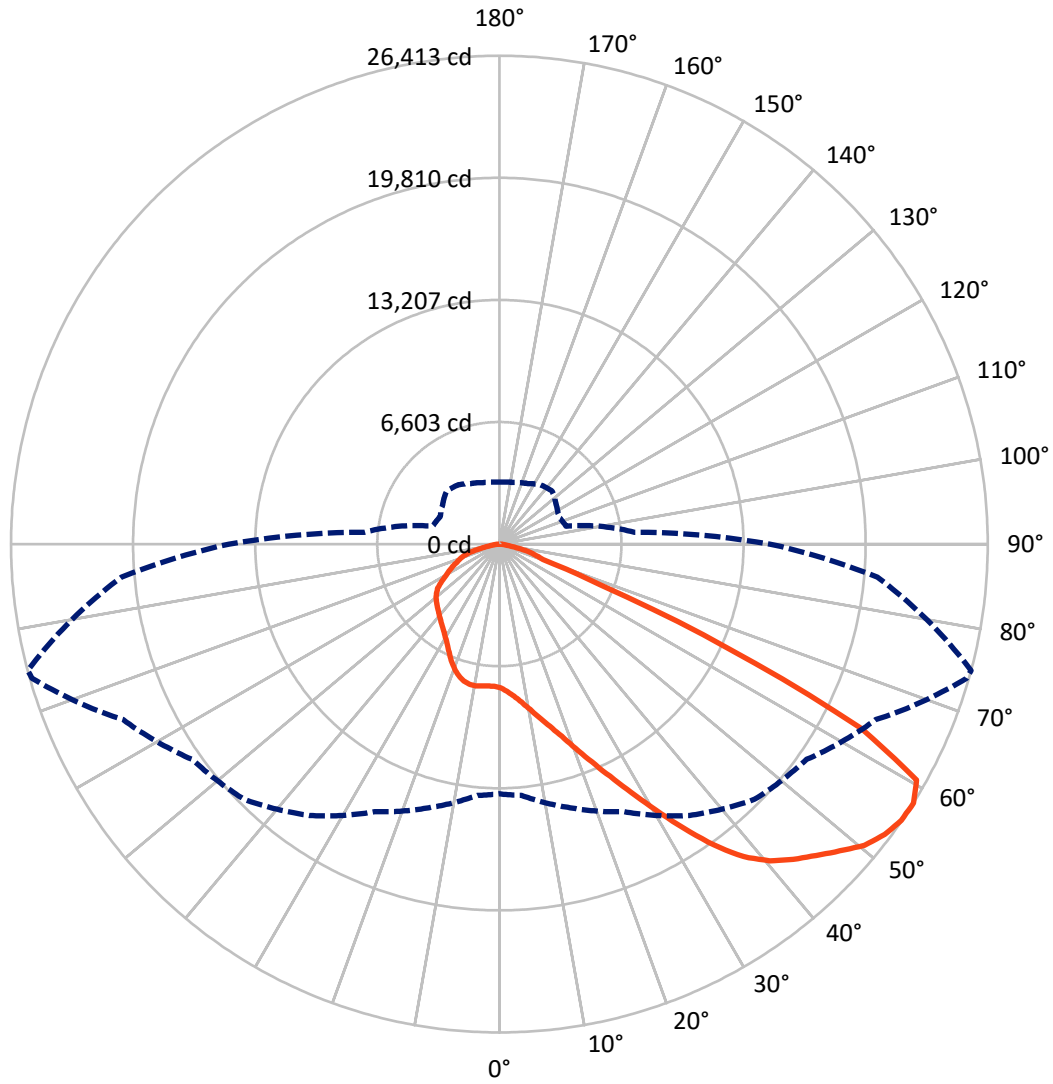
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.2 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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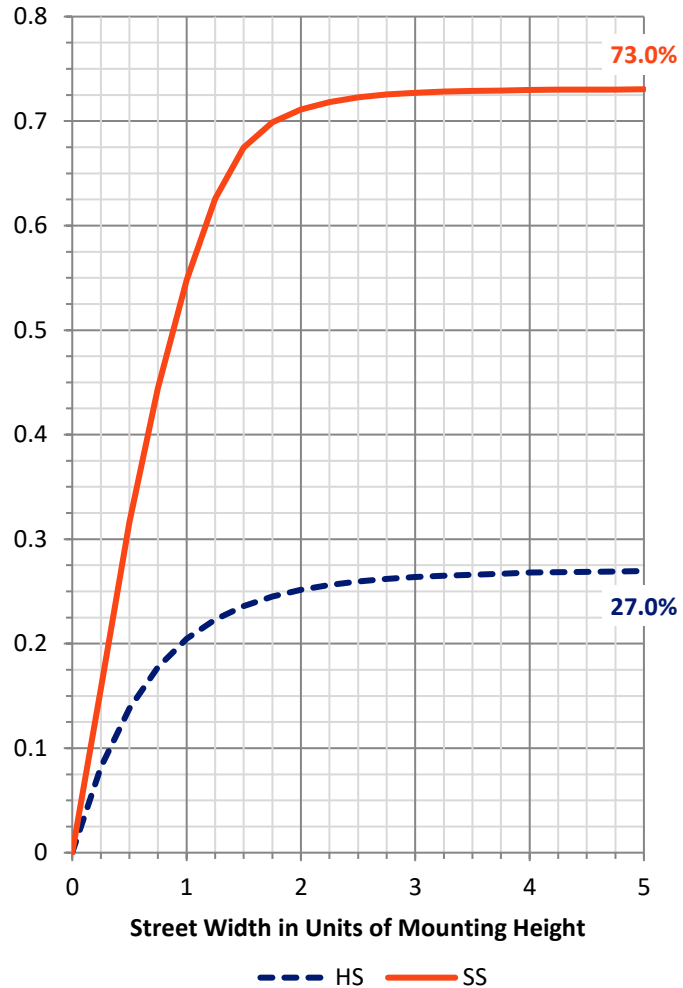
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11225.1	0.0	11225.1
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	30269.3	0.0	30269.3
	% Fixture	72.9	0.0	72.9
Total	Lumens	41494.4	0.0	41494.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	777.6	1.9
10°-20°	2475.8	6.0
20°-30°	4390.8	10.6
30°-40°	6721.5	16.2
40°-50°	9359.2	22.6
50°-60°	10723.8	25.8
60°-70°	5510.1	13.3
70°-80°	1387.2	3.3
80°-90°	148.3	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°	41494.4	100.0
0°-180°	41494.4	100.0

Coefficient of Utilization



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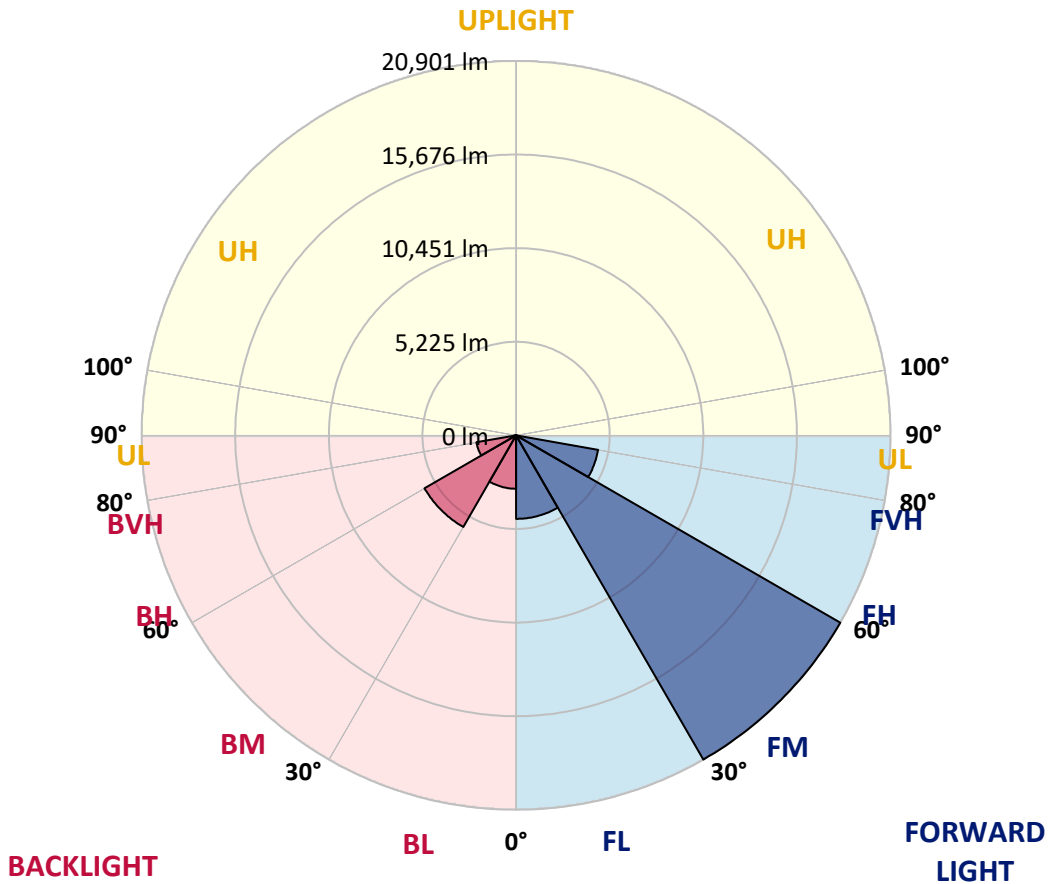
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4662.2	11.2			
FM (30°-60°)	20901.2	50.4			
FH (60°-80°)	4651.1	11.2			G2/5000
FVH (80°-90°)	54.9	0.1			G1/100
BL (0°-30°)	2982.1	7.2	B4/5000		
BM (30°-60°)	5903.4	14.2	B4/8500		
BH (60°-80°)	2246.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	93.4	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°	7770.9	7770.9	7770.9	7770.9	7770.9	7770.9	7770.9	7770.9	7770.9	7770.9	7770.9
2.5°	8348.9	8370.3	8348.9	8384.6	8313.2	8281.1	8202.6	8084.9	7992.1	7977.8	7874.4
5°	8998.3	9044.6	9016.1	9001.8	8905.5	8834.1	8716.4	8480.9	8288.3	8259.7	8056.3
7.5°	9415.7	9447.8	9447.8	9458.5	9422.8	9340.8	9215.9	8937.6	8666.5	8623.6	8316.8
10°	9554.9	9579.8	9626.2	9715.4	9786.8	9811.7	9729.7	9462.1	9130.3	9087.5	8659.3
12.5°	9587.0	9615.5	9686.9	9851.0	10047.2	10225.6	10239.9	10043.7	9672.6	9626.2	9055.4
15°	9647.6	9676.2	9772.5	9975.9	10264.9	10607.4	10817.9	10682.3	10272.0	10222.1	9504.9
17.5°	9640.5	9672.6	9815.3	10086.5	10475.4	10971.3	11378.1	11435.1	11010.6	10924.9	10015.1
20°	9622.6	9651.2	9804.6	10136.4	10618.1	11299.6	12034.6	12330.7	11874.0	11795.5	10611.0
22.5°	9765.4	9797.5	9915.2	10189.9	10693.0	11552.9	12641.1	13354.7	12898.0	12787.4	11296.0
25°	10086.5	10132.9	10204.2	10393.3	10828.6	11777.7	13261.9	14514.3	14046.9	13914.8	12041.7
27.5°	10582.4	10639.5	10739.4	10828.6	11131.9	12063.1	13879.2	15813.0	15345.6	15206.4	12830.2
30°	11189.0	11263.9	11392.3	11453.0	11659.9	12484.1	14549.9	17150.9	16879.8	16687.1	13718.6
32.5°	12027.4	12130.9	12252.2	12270.0	12394.9	13122.8	15213.6	18478.2	18474.6	18339.1	14728.3
35°	13119.2	13229.8	13254.8	13279.8	13340.4	14000.5	16016.3	19687.7	20155.1	19998.1	15827.2
37.5°	14310.9	14471.4	14510.7	14400.1	14485.7	15056.6	16919.0	20658.2	21618.0	21450.3	16890.5
40°	15584.6	15648.8	15755.9	15581.1	15688.1	16266.1	17803.9	21279.0	22709.7	22531.3	17728.9
42.5°	16498.0	16615.8	16776.3	16712.1	16772.7	17300.8	18424.7	21578.7	23487.5	23309.1	18331.9
45°	17489.9	17525.6	17629.0	17614.8	17650.4	18142.8	18870.7	21710.7	24183.3	24022.7	18845.7
47.5°	18353.3	18406.8	18474.6	18396.1	18317.6	18638.8	19234.6	21824.9	24986.1	24793.4	19384.4
50°	19184.6	19231.0	19313.1	19084.7	18792.2	18874.2	19413.0	21981.9	25738.9	25603.3	19809.0
52.5°	19338.1	19388.0	19773.3	19819.7	19445.1	19156.1	19727.0	22328.0	26181.3	26095.7	19962.4
55°	17407.8	17497.0	18264.1	19145.4	20069.5	19976.7	20230.0	22509.9	26356.1	26377.5	20237.2
57.5°	13511.7	13640.1	14760.4	15970.0	17914.5	19523.6	20294.3	22463.6	26295.5	26413.2	20519.0
60°	8862.7	8937.6	10264.9	11620.7	13636.5	15862.9	18164.2	21628.7	25756.7	25924.4	20447.7
62.5°	5351.9	5437.5	6504.3	7531.9	8720.0	10207.8	12320.0	17382.9	21589.4	21964.0	16376.7
65°	3735.6	3849.8	4784.6	5630.2	6040.5	5733.6	6240.3	9708.3	13451.0	13608.0	10008.0
67.5°	2708.0	2786.5	3553.6	4559.8	5012.9	4049.6	3086.2	4299.3	5858.5	5915.6	4128.1
70°	1773.3	1862.4	2558.2	3471.6	4092.4	3282.5	2308.4	2326.3	2465.4	2494.0	2397.6
72.5°	974.0	1027.6	1580.6	2304.9	2419.0	1962.3	1801.8	1933.8	2030.1	2030.1	2055.1
75°	503.1	549.5	645.8	760.0	917.0	1073.9	1298.7	1495.0	1598.4	1605.6	1594.9
77.5°	256.9	274.7	346.1	374.6	410.3	478.1	620.8	795.6	888.4	924.1	917.0
80°	121.3	128.4	146.3	171.3	210.5	267.6	335.4	399.6	456.7	463.8	503.1
82.5°	64.2	71.4	78.5	92.8	114.2	142.7	196.2	235.5	271.2	278.3	310.4
85°	25.0	28.5	32.1	35.7	50.0	60.7	82.1	110.6	135.6	135.6	160.6
87.5°	0.0	0.0	0.0	0.0	3.6	7.1	14.3	17.8	25.0	25.0	42.8
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°	7770.9	7770.9	7770.9	7770.9	7770.9	7770.9	7770.9	7770.9	7770.9	7770.9	7770.9
2.5°	7849.4	7745.9	7699.5	7624.6	7564.0	7496.2	7442.7	7403.4	7378.4	7364.2	7349.9
5°	7977.8	7820.9	7696.0	7546.1	7442.7	7342.8	7260.7	7203.6	7175.1	7153.7	7139.4
7.5°	8177.6	7967.1	7731.7	7499.7	7317.8	7157.2	7053.8	6993.1	6953.9	6939.6	6928.9
10°	8452.4	8159.8	7770.9	7403.4	7132.2	6957.4	6886.1	6857.5	6861.1	6854.0	6850.4
12.5°	8762.8	8363.2	7760.2	7232.2	6932.4	6829.0	6832.5	6878.9	6932.4	6946.7	6950.3
15°	9098.2	8563.0	7656.7	7010.9	6775.5	6786.2	6878.9	6989.5	7089.4	7128.7	7135.8
17.5°	9462.1	8730.7	7467.6	6768.3	6647.0	6761.2	6932.4	7114.4	7260.7	7324.9	7342.8
20°	9868.8	8873.4	7200.0	6529.3	6525.7	6714.8	6964.6	7203.6	7389.1	7474.8	7489.0
22.5°	10300.6	8962.6	6871.8	6308.1	6400.8	6654.1	6939.6	7189.3	7385.6	7471.2	7489.0
25°	10735.8	8991.1	6511.4	6104.7	6272.4	6557.8	6818.3	7018.1	7203.6	7278.5	7292.8
27.5°	11142.6	8909.1	6168.9	5929.9	6154.6	6415.1	6589.9	6697.0	6825.4	6882.5	6893.2
30°	11556.5	8744.9	5879.9	5790.7	6022.6	6218.9	6297.4	6304.5	6354.4	6354.4	6361.6
32.5°	11973.9	8502.3	5626.6	5655.1	5858.5	5987.0	5997.7	5915.6	5854.9	5755.0	5751.5
35°	12455.6	8256.1	5419.7	5501.7	5665.8	5744.3	5712.2	5555.2	5408.9	5244.8	5237.7
37.5°	12901.6	8002.8	5244.8	5344.7	5448.2	5505.3	5430.4	5241.3	5119.9	4952.3	4927.3
40°	13269.1	7774.5	5077.1	5180.6	5230.6	5280.5	5159.2	5005.8	5023.6	4930.8	4927.3
42.5°	13483.1	7553.3	4920.1	4998.6	5030.8	5066.4	4959.4	4845.2	4941.6	4870.2	4873.8
45°	13640.1	7360.6	4777.4	4806.0	4884.5	4938.0	4838.1	4709.6	4731.0	4456.3	4392.1
47.5°	13818.5	7253.6	4641.8	4613.3	4752.5	4845.2	4691.8	4506.3	4377.8	4106.7	4081.7
50°	14007.6	7214.3	4499.1	4420.6	4588.3	4677.5	4499.1	4267.2	4099.5	3953.2	3939.0
52.5°	14071.8	7210.7	4320.7	4188.7	4356.4	4481.3	4331.4	4096.0	3896.2	3753.4	3746.3
55°	14325.2	7314.2	4092.4	3871.2	4028.2	4285.1	4174.5	3835.5	3674.9	3610.7	3603.6
57.5°	14621.3	7332.1	3732.0	3525.1	3742.7	4046.0	3906.9	3614.3	3439.5	3361.0	3353.8
60°	14500.0	6893.2	3346.7	3261.1	3500.1	3821.2	3692.8	3439.5	3236.1	3161.2	3154.0
62.5°	11049.8	4866.6	3064.8	3032.7	3239.7	3496.6	3471.6	3207.5	3014.9	2961.4	2954.2
65°	6647.0	3418.1	2793.7	2790.1	2936.4	3182.6	3214.7	3000.6	2797.2	2722.3	2722.3
67.5°	3286.0	2615.3	2486.8	2469.0	2561.8	2736.6	2872.2	2697.3	2526.1	2454.7	2444.0
70°	2322.7	2304.9	2262.1	2212.1	2229.9	2301.3	2358.4	2212.1	2030.1	1958.8	1944.5
72.5°	2008.7	2012.3	1983.8	1944.5	1930.2	1880.3	1830.3	1723.3	1612.7	1537.8	1544.9
75°	1559.2	1566.3	1584.2	1569.9	1530.6	1477.1	1423.6	1288.0	1198.8	1127.5	1113.2
77.5°	909.8	945.5	1002.6	988.3	995.4	920.5	899.1	767.1	685.0	635.1	624.4
80°	513.8	535.2	560.2	578.0	556.6	524.5	478.1	406.7	381.8	346.1	339.0
82.5°	310.4	331.8	342.5	356.8	349.7	306.8	271.2	224.8	203.4	185.5	182.0
85°	157.0	171.3	182.0	189.1	167.7	139.1	124.9	99.9	85.6	74.9	74.9
87.5°	39.2	42.8	50.0	42.8	39.2	17.8	14.3	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)