

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: P641163

Luminaire Tested: GWS-SA5F-735-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641163  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-735-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

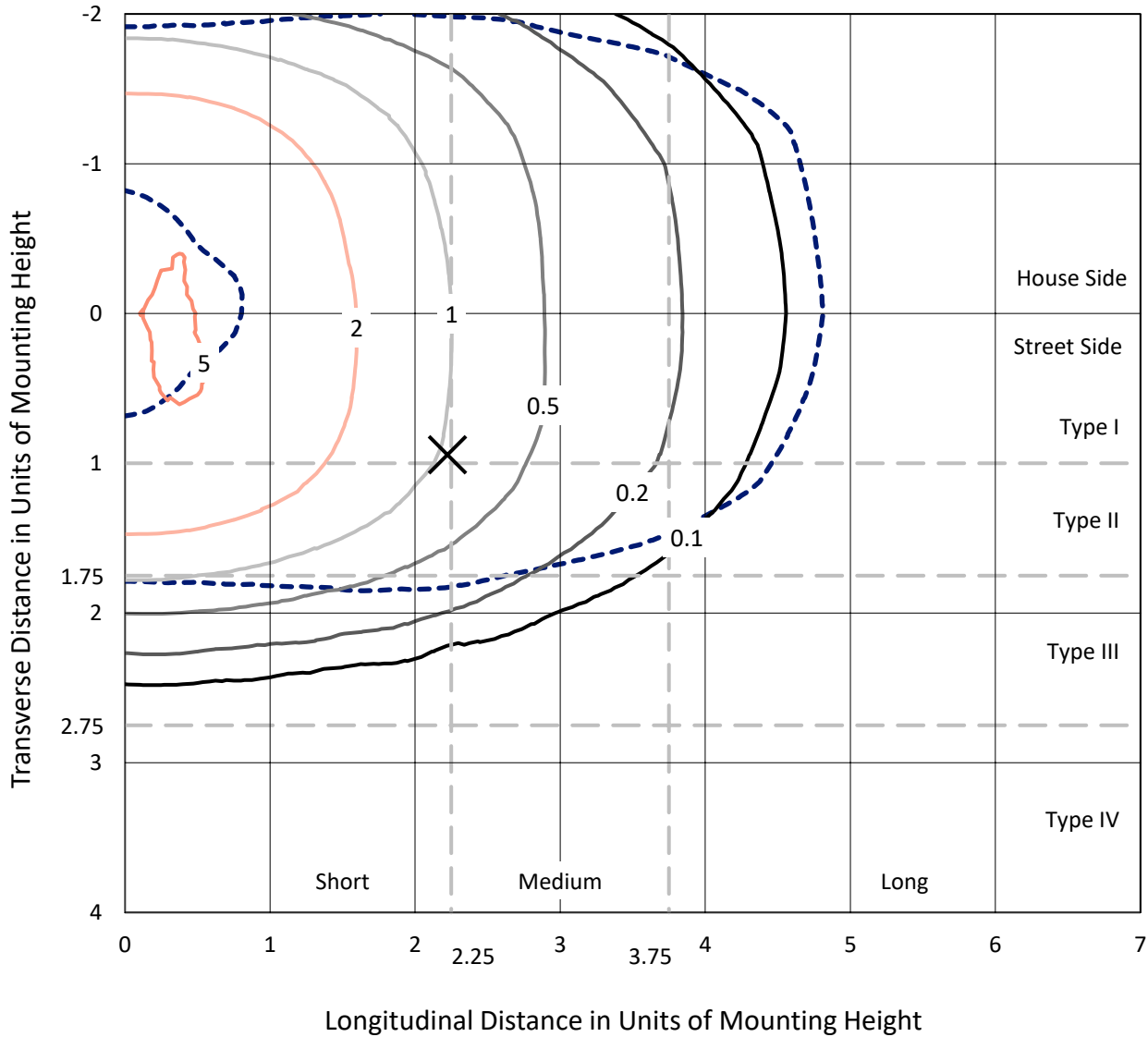
Lumens per Lamp: N/A  
Luminaire Lumens: 42377.8 lumens  
Efficiency: N/A  
Efficacy: 136.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

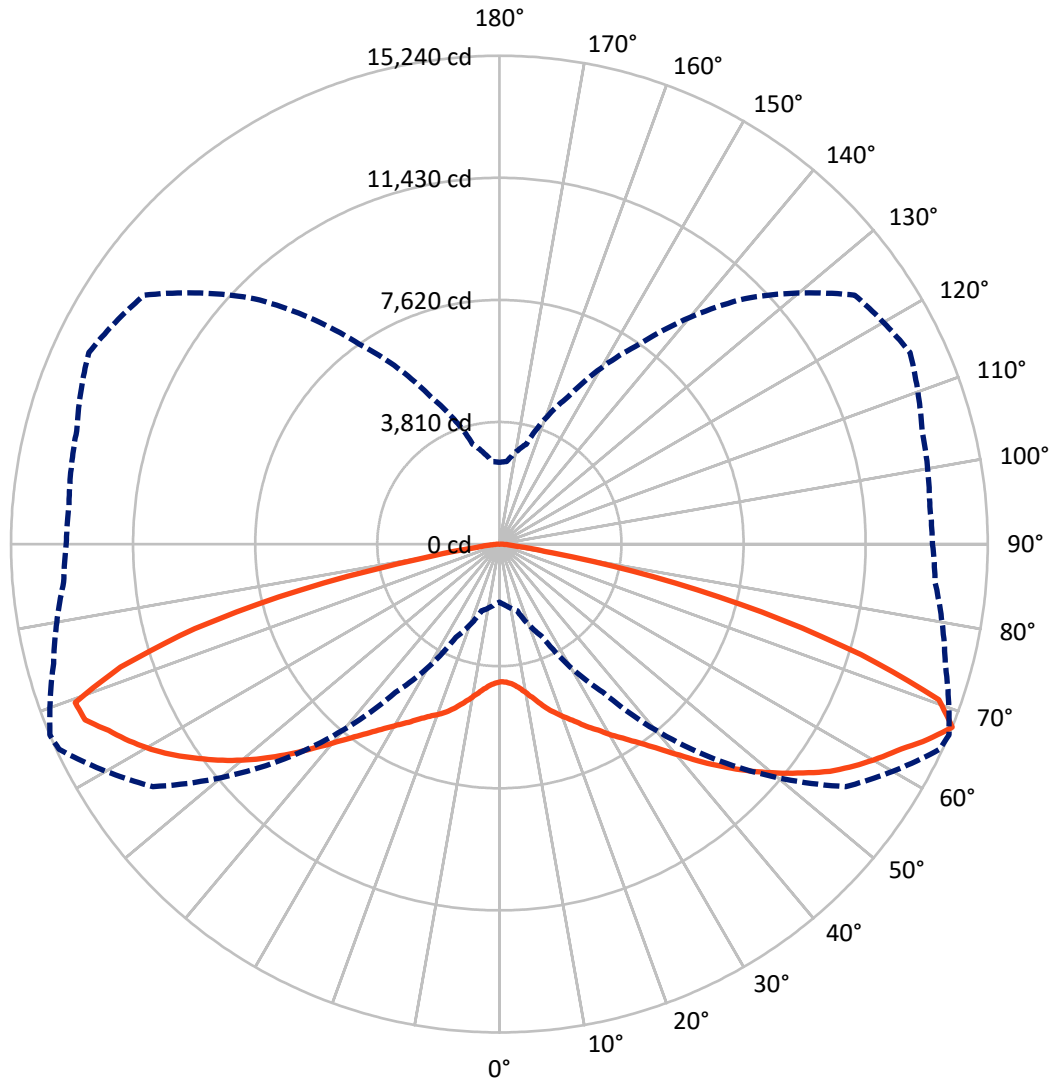
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20955.1	0.0	20955.1
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	21422.7	0.0	21422.7
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	42377.8	0.0	42377.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	421.0	1.0
10°-20°	1422.3	3.4
20°-30°	2790.5	6.6
30°-40°	4754.2	11.2
40°-50°	7634.2	18.0
50°-60°	10373.3	24.5
60°-70°	9922.8	23.4
70°-80°	4717.6	11.1
80°-90°	341.9	0.8
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°	42377.8	100.0
0°-180°	42377.8	100.0

**Coefficient of Utilization**



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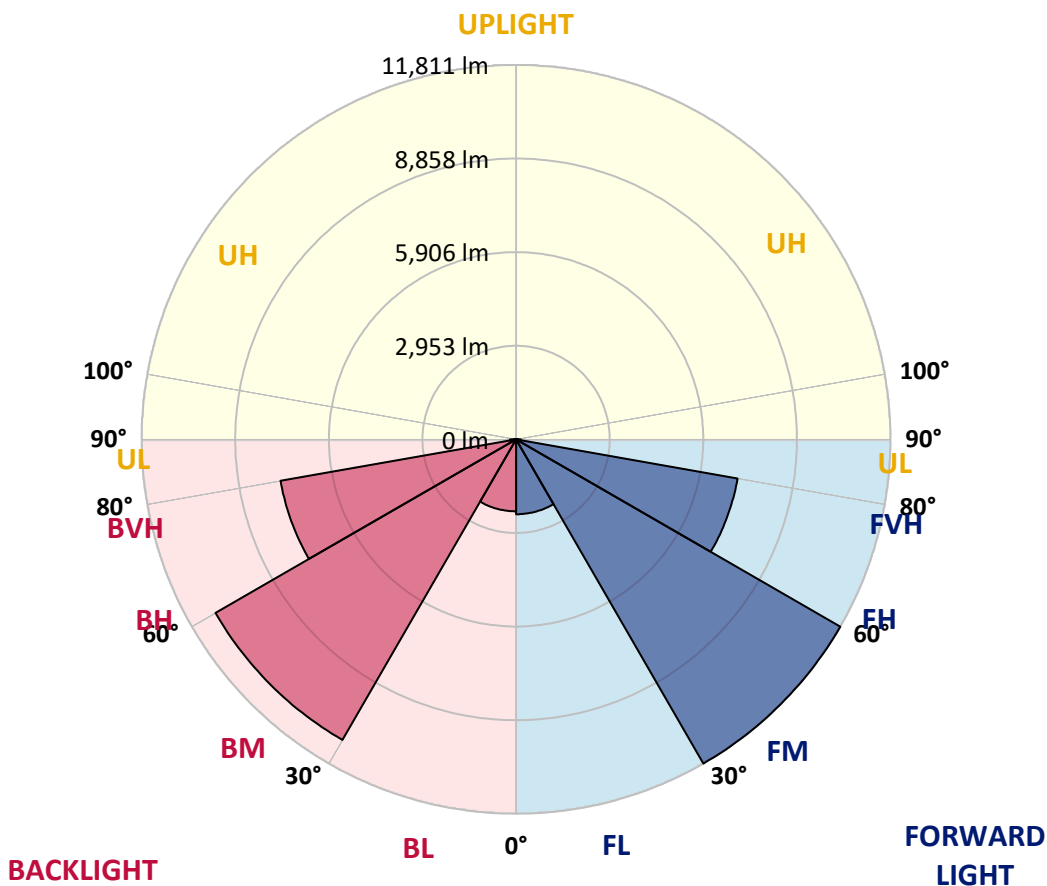
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2362.9	5.6			
FM (30°-60°)	11811.1	27.9			
FH (60°-80°)	7095.1	16.7			G3/7500
FVH (80°-90°)	153.7	0.4			G2/225
BL (0°-30°)	2271.0	5.4	B3/2500		
BM (30°-60°)	10950.6	25.8	B5		
BH (60°-80°)	7545.3	17.8	B5		G5
BVH (80°-90°)	188.2	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4291.0	4291.0	4291.0	4291.0	4291.0	4291.0	4291.0	4291.0	4291.0	4291.0	4291.0
2.5°	4202.5	4208.4	4217.2	4234.9	4252.6	4279.2	4305.7	4302.8	4314.6	4323.5	4332.3
5°	4178.8	4184.7	4199.5	4223.1	4249.7	4293.9	4350.0	4373.6	4391.3	4423.8	4453.3
7.5°	4229.0	4240.8	4261.5	4293.9	4335.3	4391.3	4468.1	4509.4	4535.9	4595.0	4645.1
10°	4296.9	4311.6	4353.0	4414.9	4476.9	4562.5	4659.9	4721.9	4739.6	4816.3	4910.7
12.5°	4361.8	4379.5	4447.4	4559.5	4671.7	4786.8	4901.9	4978.6	4984.5	5087.8	5194.0
15°	4465.1	4479.9	4571.3	4716.0	4887.1	5046.5	5188.1	5241.3	5264.9	5338.7	5471.5
17.5°	4692.3	4710.1	4828.1	4984.5	5164.5	5332.7	5474.4	5518.7	5518.7	5580.6	5689.8
20°	4937.3	4955.0	5111.4	5312.1	5530.5	5701.6	5810.8	5769.5	5754.8	5772.5	5849.2
22.5°	5211.8	5244.2	5394.7	5627.9	5896.4	6106.0	6162.0	6038.1	5996.8	5955.4	5973.2
25°	5562.9	5601.3	5748.9	5996.8	6259.4	6480.8	6513.2	6321.4	6297.8	6153.2	6100.1
27.5°	5967.2	5996.8	6179.7	6424.7	6669.6	6855.5	6891.0	6654.9	6575.2	6374.5	6250.6
30°	6489.6	6516.2	6675.5	6917.5	7130.0	7259.9	7304.1	6979.5	6917.5	6610.6	6418.8
32.5°	7059.2	7071.0	7233.3	7466.4	7655.3	7779.3	7717.3	7339.5	7248.1	6902.8	6640.1
35°	7711.4	7711.4	7920.9	8109.8	8260.3	8295.7	8177.7	7746.8	7640.6	7265.8	6938.2
37.5°	8351.8	8369.5	8564.3	8788.6	8921.4	8915.5	8700.0	8227.8	8106.8	7699.6	7336.6
40°	9045.3	9083.7	9278.5	9529.3	9656.2	9638.5	9308.0	8782.7	8658.7	8177.7	7823.5
42.5°	9682.8	9744.7	9972.0	10228.7	10367.4	10355.6	10010.3	9420.1	9299.1	8756.1	8402.0
45°	10190.4	10255.3	10538.6	10895.7	11117.0	11096.4	10748.1	10081.2	9933.6	9364.0	8974.5
47.5°	10636.0	10703.9	11019.6	11397.4	11748.6	11784.0	11465.3	10748.1	10591.7	10016.2	9576.5
50°	10978.3	11010.8	11364.9	11778.1	12185.3	12383.1	12105.7	11418.0	11229.2	10659.6	10163.8
52.5°	10951.8	10996.0	11432.8	11993.5	12539.5	12864.1	12672.3	12049.6	11866.6	11246.9	10762.9
55°	10411.7	10456.0	10975.4	11792.8	12737.2	13215.3	13194.6	12651.6	12518.8	11846.0	11385.6
57.5°	9623.7	9721.1	10237.6	11120.0	12477.5	13495.7	13578.3	13200.5	13061.8	12433.2	12002.4
60°	8213.1	8342.9	8939.1	10084.1	11645.3	13401.2	13988.5	13663.9	13578.3	12979.2	12560.1
62.5°	5967.2	6061.7	6855.5	8357.7	10411.7	12728.4	14333.8	14142.0	14077.0	13469.1	13064.8
65°	3573.9	3789.3	4426.7	5911.2	8399.0	11459.4	14144.9	14767.6	14699.7	13973.7	13495.7
67.5°	1809.1	1906.5	2157.3	3205.0	5648.5	9482.1	13197.6	15157.2	15239.8	14404.6	13649.1
70°	1121.4	1148.0	1218.8	1581.8	2821.3	6229.9	10792.4	14142.0	14546.3	14336.7	13250.7
72.5°	900.1	906.0	917.8	985.7	1354.6	2912.8	6823.1	11075.7	11804.6	13389.4	12681.1
75°	746.6	749.6	752.5	773.2	844.0	1189.3	3320.1	7611.0	8463.9	11379.7	11757.4
77.5°	599.1	584.3	596.1	605.0	622.7	664.0	1145.1	4060.8	4925.5	7469.4	9092.5
80°	389.6	383.7	407.3	416.1	433.8	460.4	610.9	1378.2	1673.3	2718.0	2892.1
82.5°	209.5	197.7	247.9	239.0	247.9	268.6	360.0	504.6	566.6	820.4	693.5
85°	64.9	64.9	67.9	79.7	97.4	94.4	156.4	247.9	274.5	351.2	259.7
87.5°	11.8	11.8	11.8	11.8	11.8	14.8	32.5	50.2	67.9	121.0	91.5
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°	4291.0	4291.0	4291.0	4291.0	4291.0	4291.0	4291.0	4291.0	4291.0	4291.0	4291.0
2.5°	4350.0	4323.5	4338.2	4347.1	4344.1	4338.2	4308.7	4302.8	4288.0	4264.4	4258.5
5°	4479.9	4450.4	4453.3	4444.4	4414.9	4376.6	4311.6	4279.2	4252.6	4223.1	4220.2
7.5°	4683.5	4651.0	4642.2	4600.9	4518.2	4429.7	4326.4	4267.4	4223.1	4184.7	4178.8
10°	4943.2	4910.7	4881.2	4783.8	4648.1	4530.0	4394.3	4308.7	4243.8	4196.6	4187.7
12.5°	5232.4	5205.8	5132.1	4990.4	4828.1	4689.4	4550.7	4444.4	4350.0	4279.2	4270.3
15°	5554.1	5495.1	5382.9	5199.9	5046.5	4934.3	4766.1	4621.5	4471.0	4376.6	4355.9
17.5°	5778.4	5728.2	5595.4	5418.3	5297.3	5199.9	5002.2	4795.6	4592.0	4453.3	4423.8
20°	5937.7	5884.6	5734.1	5604.3	5565.9	5483.3	5253.1	5014.0	4777.9	4606.8	4568.4
22.5°	6052.8	5996.8	5843.3	5778.4	5831.5	5816.7	5592.5	5320.9	5040.6	4837.0	4789.7
25°	6162.0	6108.9	5973.2	5996.8	6138.4	6182.7	5940.7	5624.9	5306.2	5067.1	5011.1
27.5°	6265.3	6197.4	6135.5	6265.3	6466.0	6548.6	6291.9	5934.8	5589.5	5344.6	5300.3
30°	6424.7	6345.0	6336.1	6525.0	6843.7	6914.6	6631.3	6274.2	5931.8	5683.9	5627.9
32.5°	6625.4	6551.6	6557.5	6840.8	7209.7	7268.7	7026.7	6693.2	6350.9	6103.0	6026.3
35°	6896.9	6805.4	6855.5	7203.8	7575.6	7684.8	7490.0	7212.6	6879.2	6625.4	6539.8
37.5°	7271.7	7138.9	7242.1	7608.1	7982.9	8145.2	7994.7	7788.1	7457.6	7200.8	7121.2
40°	7749.7	7640.6	7681.9	8086.2	8472.8	8667.6	8573.1	8369.5	8041.9	7773.4	7681.9
42.5°	8316.4	8207.2	8192.4	8623.3	9009.9	9305.0	9213.5	9027.6	8688.2	8381.3	8292.8
45°	8871.2	8770.9	8791.5	9231.2	9665.1	9986.7	9895.2	9676.9	9308.0	8953.8	8883.0
47.5°	9449.6	9367.0	9384.7	9851.0	10329.1	10650.7	10535.6	10270.0	9839.2	9461.4	9375.8
50°	10042.8	9948.4	9974.9	10464.8	10981.3	11285.2	11108.2	10715.7	10240.5	9871.6	9797.9
52.5°	10633.0	10520.9	10588.8	11052.1	11586.3	11828.3	11500.7	11025.5	10565.2	10199.2	10116.6
55°	11311.8	11193.8	11120.0	11615.8	12144.0	12244.4	11795.8	11241.0	10695.0	10278.9	10228.7
57.5°	11931.5	11831.2	11692.5	12188.3	12577.8	12504.1	12023.0	11182.0	10379.2	9845.1	9774.2
60°	12486.4	12400.8	12279.8	12701.8	12878.9	12713.6	11840.1	10482.5	9600.1	9042.4	9009.9
62.5°	12996.9	12905.4	12793.3	13153.3	13129.7	12746.1	11007.8	9408.3	8227.8	7628.8	7575.6
65°	13401.2	13318.6	13286.1	13569.4	13531.1	12111.6	9712.3	7649.4	6011.5	5335.7	5315.0
67.5°	13516.3	13483.9	13658.0	14139.0	13539.9	10836.7	7616.9	5073.0	3228.6	2588.2	2549.8
70°	13085.4	13082.5	13581.2	14268.9	12312.2	8278.0	4494.6	2287.1	1623.1	1440.2	1416.6
72.5°	12524.7	12515.9	12911.3	12309.3	9130.9	4530.0	1891.7	1224.7	1015.2	965.0	965.0
75°	11604.0	11580.4	11878.4	9364.0	5135.0	1705.8	1003.4	841.1	796.8	788.0	788.0
77.5°	9458.5	9260.7	8791.5	5787.2	1791.4	838.1	664.0	661.1	634.5	631.5	631.5
80°	3110.5	3110.5	3615.2	2207.5	790.9	516.5	469.2	492.8	466.3	448.6	445.6
82.5°	507.6	699.4	994.5	631.5	427.9	321.7	289.2	306.9	321.7	256.8	256.8
85°	200.7	262.7	383.7	295.1	197.7	129.9	138.7	153.5	135.8	118.0	115.1
87.5°	76.7	94.4	135.8	70.8	41.3	23.6	14.8	14.8	11.8	11.8	11.8
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)