

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: P638688

Luminaire Tested: GWS-SA4F-735-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638688  
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-SA4F-735-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34545.8 lumens  
Efficiency: N/A  
Efficacy: 153.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 225.3  
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

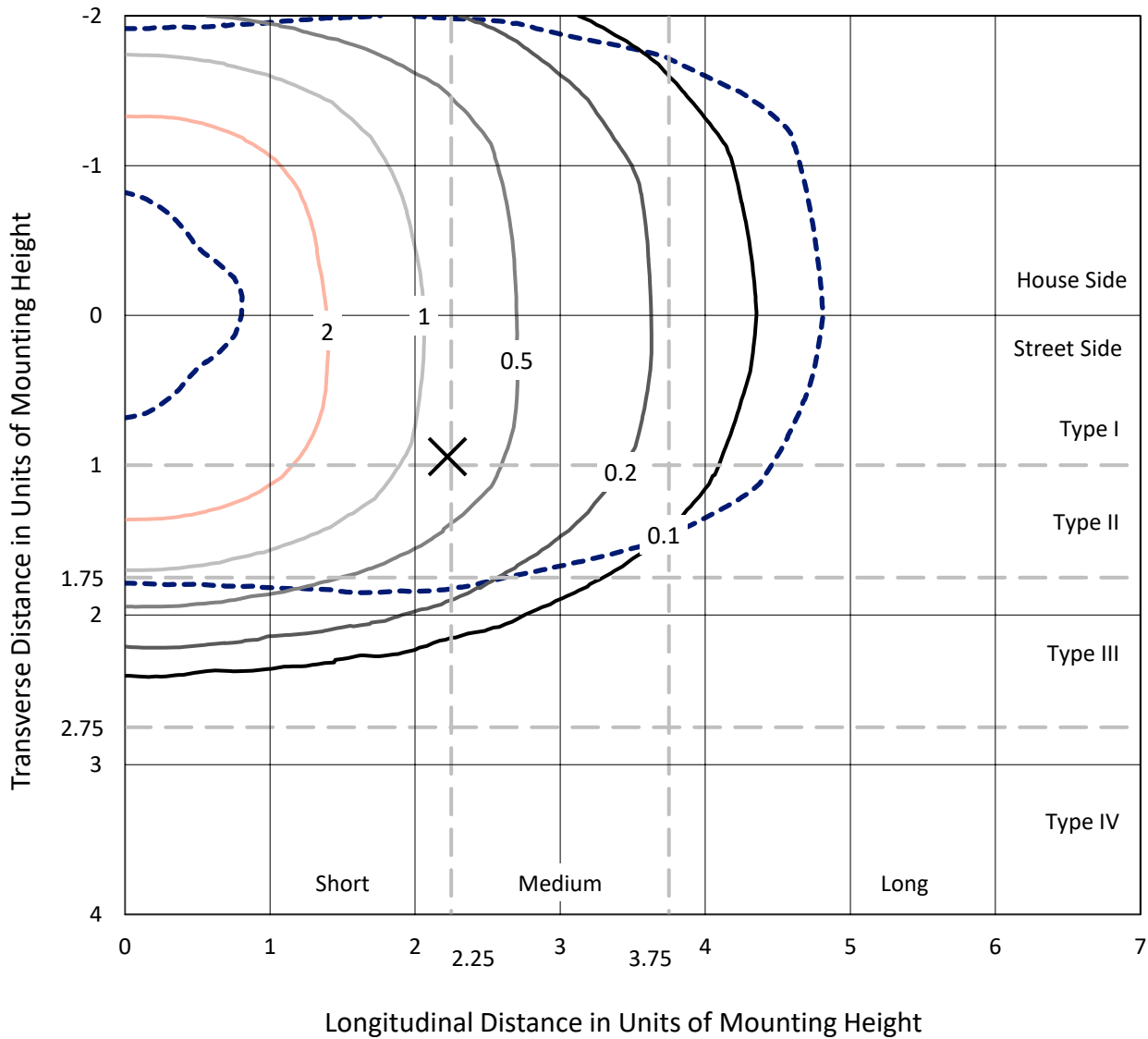


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### Iso-Footcandle Lines of Horizontal Illumination

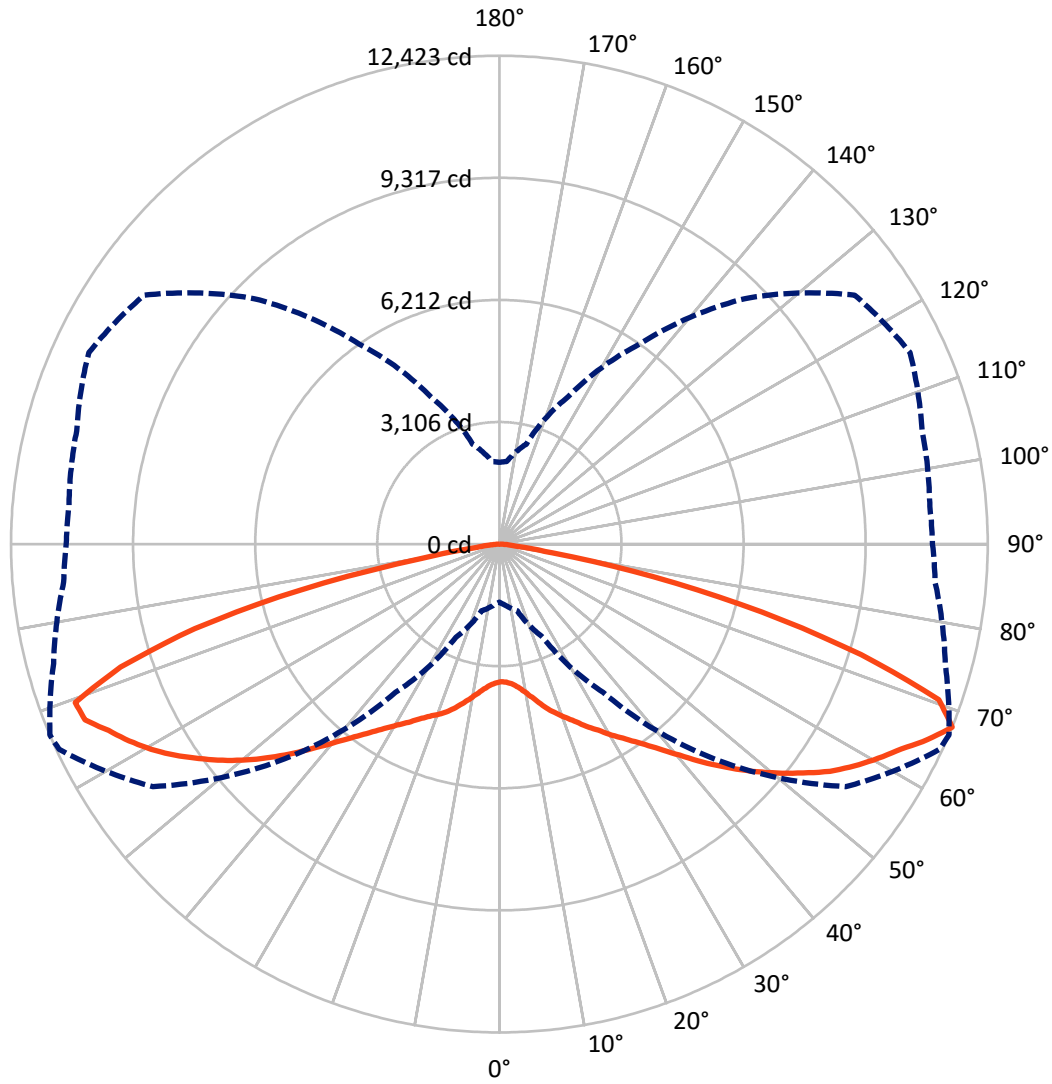
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 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	17082.3	0.0	17082.3
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	17463.5	0.0	17463.5
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	34545.8	0.0	34545.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	343.2	1.0
10°-20°	1159.4	3.4
20°-30°	2274.8	6.6
30°-40°	3875.5	11.2
40°-50°	6223.3	18.0
50°-60°	8456.2	24.5
60°-70°	8088.9	23.4
70°-80°	3845.8	11.1
80°-90°	278.7	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°	34545.8	100.0
0°-180°	34545.8	100.0

**Coefficient of Utilization**



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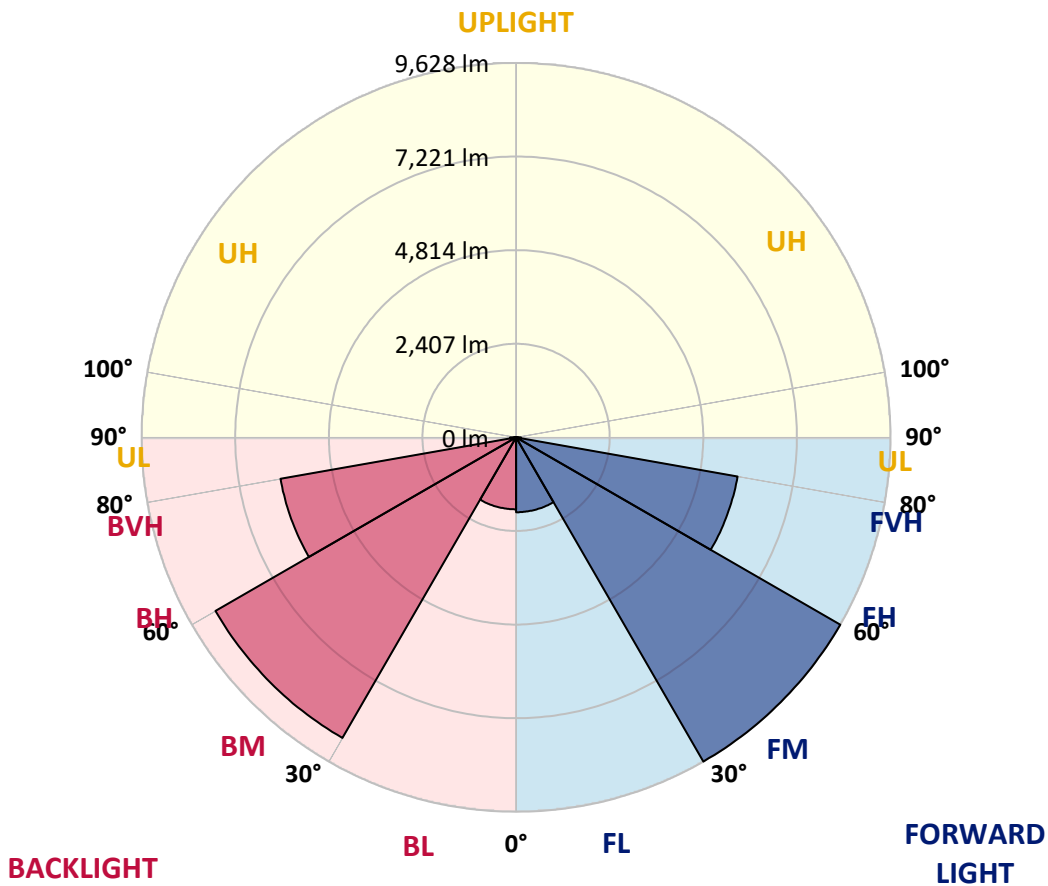
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1926.2	5.6			
FM (30°-60°)	9628.2	27.9			
FH (60°-80°)	5783.9	16.7			G3/7500
FVH (80°-90°)	125.3	0.4			G2/225
BL (0°-30°)	1851.3	5.4	B3/2500		
BM (30°-60°)	8926.8	25.8	B5		
BH (60°-80°)	6150.8	17.8	B5		G5
BVH (80°-90°)	153.4	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°	3498.0	3498.0	3498.0	3498.0	3498.0	3498.0	3498.0	3498.0	3498.0	3498.0	3498.0
2.5°	3425.8	3430.6	3437.8	3452.2	3466.7	3488.3	3510.0	3507.6	3517.2	3524.4	3531.6
5°	3406.5	3411.3	3423.4	3442.6	3464.3	3500.4	3546.1	3565.3	3579.8	3606.2	3630.3
7.5°	3447.4	3457.1	3473.9	3500.4	3534.0	3579.8	3642.3	3676.0	3697.6	3745.7	3786.6
10°	3502.8	3514.8	3548.5	3599.0	3649.5	3719.3	3798.7	3849.2	3863.6	3926.2	4003.2
12.5°	3555.7	3570.1	3625.5	3716.9	3808.3	3902.1	3995.9	4058.5	4063.3	4147.5	4234.1
15°	3639.9	3651.9	3726.5	3844.4	3983.9	4113.8	4229.3	4272.6	4291.9	4352.0	4460.3
17.5°	3825.1	3839.6	3935.8	4063.3	4210.1	4347.2	4462.7	4498.7	4498.7	4549.3	4638.3
20°	4024.8	4039.2	4166.8	4330.3	4508.4	4647.9	4736.9	4703.2	4691.2	4705.6	4768.2
22.5°	4248.5	4275.0	4397.7	4587.8	4806.7	4977.5	5023.2	4922.2	4888.5	4854.8	4869.2
25°	4534.8	4566.1	4686.4	4888.5	5102.6	5283.0	5309.5	5153.1	5133.9	5016.0	4972.7
27.5°	4864.4	4888.5	5037.6	5237.3	5437.0	5588.5	5617.4	5425.0	5360.0	5196.4	5095.4
30°	5290.2	5311.9	5441.8	5639.1	5812.3	5918.1	5954.2	5689.6	5639.1	5388.9	5232.5
32.5°	5754.5	5764.2	5896.5	6086.5	6240.5	6341.5	6291.0	5983.1	5908.5	5627.0	5412.9
35°	6286.2	6286.2	6457.0	6611.0	6733.7	6762.6	6666.3	6315.1	6228.5	5922.9	5655.9
37.5°	6808.3	6822.7	6981.5	7164.3	7272.6	7267.8	7092.1	6707.2	6608.6	6276.6	5980.7
40°	7373.6	7404.9	7563.7	7768.2	7871.6	7857.2	7587.7	7159.5	7058.5	6666.3	6377.6
42.5°	7893.3	7943.8	8129.0	8338.3	8451.4	8441.8	8160.3	7679.1	7580.5	7137.8	6849.2
45°	8307.0	8360.0	8590.9	8882.0	9062.4	9045.6	8761.7	8218.0	8097.7	7633.4	7315.9
47.5°	8670.3	8725.6	8983.1	9291.0	9577.3	9606.1	9346.3	8761.7	8634.2	8165.1	7806.6
50°	8949.4	8975.8	9264.5	9601.3	9933.3	10094.5	9868.4	9307.8	9153.9	8689.6	8285.4
52.5°	8927.7	8963.8	9319.9	9777.0	10222.0	10486.6	10330.3	9822.7	9673.5	9168.3	8773.8
55°	8487.5	8523.6	8947.0	9613.4	10383.2	10772.9	10756.1	10313.4	10205.2	9656.7	9281.4
57.5°	7845.1	7924.5	8345.5	9064.9	10171.5	11001.5	11068.8	10760.9	10647.8	10135.4	9784.2
60°	6695.2	6801.0	7287.0	8220.4	9493.1	10924.5	11403.2	11138.6	11068.8	10580.5	10238.9
62.5°	4864.4	4941.4	5588.5	6813.1	8487.5	10376.0	11684.7	11528.3	11475.4	10979.8	10650.2
65°	2913.4	3089.0	3608.6	4818.7	6846.8	9341.5	11530.7	12038.4	11983.0	11391.2	11001.5
67.5°	1474.7	1554.1	1758.6	2612.6	4604.6	7729.7	10758.5	12355.9	12423.3	11742.4	11126.6
70°	914.2	935.8	993.6	1289.5	2299.9	5078.5	8797.8	11528.3	11857.9	11687.1	10801.8
72.5°	733.8	738.6	748.2	803.5	1104.2	2374.5	5562.1	9028.8	9623.0	10914.9	10337.5
75°	608.7	611.1	613.5	630.3	688.0	969.5	2706.5	6204.4	6899.7	9276.6	9584.5
77.5°	488.4	476.3	486.0	493.2	507.6	541.3	933.4	3310.3	4015.2	6088.9	7412.1
80°	317.6	312.7	332.0	339.2	353.6	375.3	498.0	1123.5	1364.1	2215.7	2357.6
82.5°	170.8	161.2	202.1	194.9	202.1	218.9	293.5	411.4	461.9	668.8	565.4
85°	52.9	52.9	55.3	65.0	79.4	77.0	127.5	202.1	223.7	286.3	211.7
87.5°	9.6	9.6	9.6	9.6	9.6	12.0	26.5	40.9	55.3	98.6	74.6
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°	3498.0	3498.0	3498.0	3498.0	3498.0	3498.0	3498.0	3498.0	3498.0	3498.0	3498.0
2.5°	3546.1	3524.4	3536.4	3543.7	3541.3	3536.4	3512.4	3507.6	3495.5	3476.3	3471.5
5°	3651.9	3627.9	3630.3	3623.1	3599.0	3567.7	3514.8	3488.3	3466.7	3442.6	3440.2
7.5°	3817.9	3791.5	3784.2	3750.6	3683.2	3611.0	3526.8	3478.7	3442.6	3411.3	3406.5
10°	4029.6	4003.2	3979.1	3899.7	3789.1	3692.8	3582.2	3512.4	3459.5	3421.0	3413.8
12.5°	4265.4	4243.7	4183.6	4068.1	3935.8	3822.7	3709.7	3623.1	3546.1	3488.3	3481.1
15°	4527.6	4479.5	4388.1	4238.9	4113.8	4022.4	3885.3	3767.4	3644.7	3567.7	3550.9
17.5°	4710.5	4669.6	4561.3	4416.9	4318.3	4238.9	4077.7	3909.3	3743.3	3630.3	3606.2
20°	4840.4	4797.1	4674.4	4568.5	4537.2	4469.9	4282.2	4087.4	3894.9	3755.4	3724.1
22.5°	4934.2	4888.5	4763.4	4710.5	4753.8	4741.7	4558.9	4337.6	4109.0	3943.0	3904.5
25°	5023.2	4979.9	4869.2	4888.5	5004.0	5040.0	4842.8	4585.4	4325.5	4130.7	4085.0
27.5°	5107.4	5052.1	5001.5	5107.4	5271.0	5338.4	5129.1	4838.0	4556.5	4356.8	4320.7
30°	5237.3	5172.4	5165.1	5319.1	5578.9	5636.7	5405.7	5114.6	4835.5	4633.5	4587.8
32.5°	5400.9	5340.8	5345.6	5576.5	5877.2	5925.4	5728.1	5456.2	5177.2	4975.1	4912.5
35°	5622.2	5547.7	5588.5	5872.4	6175.6	6264.6	6105.8	5879.6	5607.8	5400.9	5331.1
37.5°	5927.8	5819.5	5903.7	6202.0	6507.5	6639.9	6517.2	6348.8	6079.3	5870.0	5805.1
40°	6317.5	6228.5	6262.2	6591.7	6906.9	7065.7	6988.7	6822.7	6555.7	6336.7	6262.2
42.5°	6779.4	6690.4	6678.4	7029.6	7344.7	7585.3	7510.7	7359.2	7082.5	6832.3	6760.1
45°	7231.7	7149.9	7166.7	7525.2	7878.8	8141.0	8066.5	7888.4	7587.7	7299.0	7241.3
47.5°	7703.2	7635.8	7650.3	8030.4	8420.1	8682.3	8588.5	8372.0	8020.8	7712.8	7643.1
50°	8186.8	8109.8	8131.4	8530.8	8951.8	9199.6	9055.2	8735.3	8347.9	8047.2	7987.1
52.5°	8667.9	8576.5	8631.8	9009.5	9445.0	9642.2	9375.2	8987.9	8612.6	8314.3	8246.9
55°	9221.2	9125.0	9064.9	9469.0	9899.6	9981.4	9615.8	9163.5	8718.4	8379.2	8338.3
57.5°	9726.4	9644.6	9531.6	9935.7	10253.3	10193.1	9801.0	9115.4	8461.0	8025.6	7967.8
60°	10178.7	10108.9	10010.3	10354.3	10498.7	10364.0	9651.9	8545.2	7825.9	7371.2	7344.7
62.5°	10594.9	10520.3	10428.9	10722.4	10703.2	10390.4	8973.4	7669.5	6707.2	6218.9	6175.6
65°	10924.5	10857.1	10830.7	11061.6	11030.3	9873.2	7917.3	6235.7	4900.5	4349.6	4332.7
67.5°	11018.3	10991.9	11133.8	11525.9	11037.6	8833.9	6209.2	4135.5	2631.9	2109.8	2078.6
70°	10667.1	10664.7	11071.2	11631.8	10036.8	6748.1	3664.0	1864.5	1323.2	1174.0	1154.8
72.5°	10210.0	10202.8	10525.1	10034.4	7443.4	3692.8	1542.1	998.4	827.6	786.7	786.7
75°	9459.4	9440.1	9683.1	7633.4	4186.0	1390.5	818.0	685.6	649.6	642.3	642.3
77.5°	7710.4	7549.2	7166.7	4717.7	1460.3	683.2	541.3	538.9	517.2	514.8	514.8
80°	2535.7	2535.7	2947.0	1799.5	644.7	421.0	382.5	401.8	380.1	365.7	363.3
82.5°	413.8	570.2	810.7	514.8	348.8	262.2	235.8	250.2	262.2	209.3	209.3
85°	163.6	214.1	312.7	240.6	161.2	105.9	113.1	125.1	110.7	96.2	93.8
87.5°	62.5	77.0	110.7	57.7	33.7	19.2	12.0	12.0	9.6	9.6	9.6
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)