

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: P639788

Luminaire Tested: GWS-SA5C-750-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639788  
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-SA5C-750-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

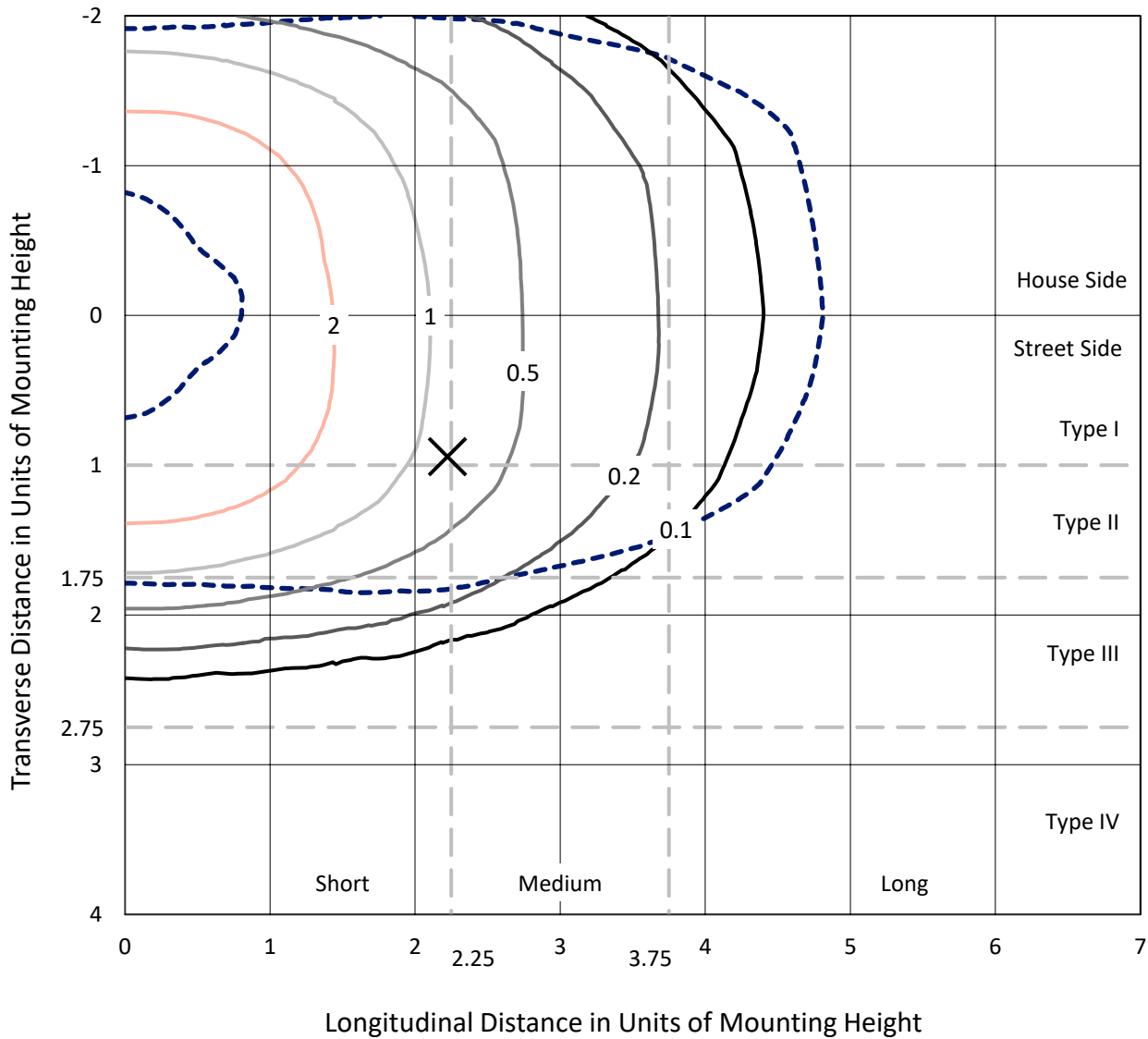
Lumens per Lamp: N/A  
Luminaire Lumens: 25075 lumens  
Efficiency: N/A  
Efficacy: 159.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

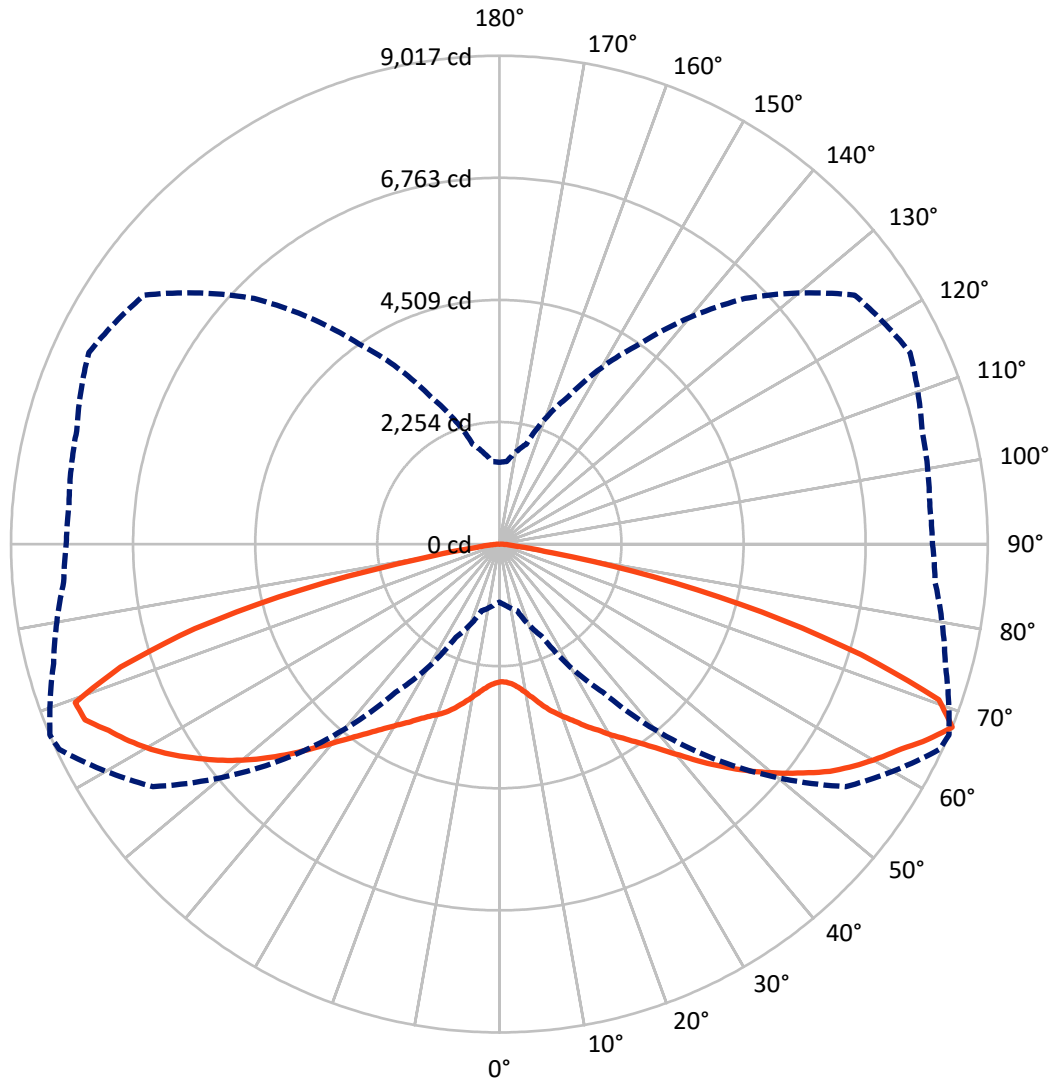
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	12399.1	0.0	12399.1
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	12675.9	0.0	12675.9
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	25075.0	0.0	25075.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.1	1.0
10°-20°	841.6	3.4
20°-30°	1651.2	6.6
30°-40°	2813.0	11.2
40°-50°	4517.2	18.0
50°-60°	6137.9	24.5
60°-70°	5871.3	23.4
70°-80°	2791.4	11.1
80°-90°	202.3	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°	25075.0	100.0
0°-180°	25075.0	100.0

**Coefficient of Utilization**



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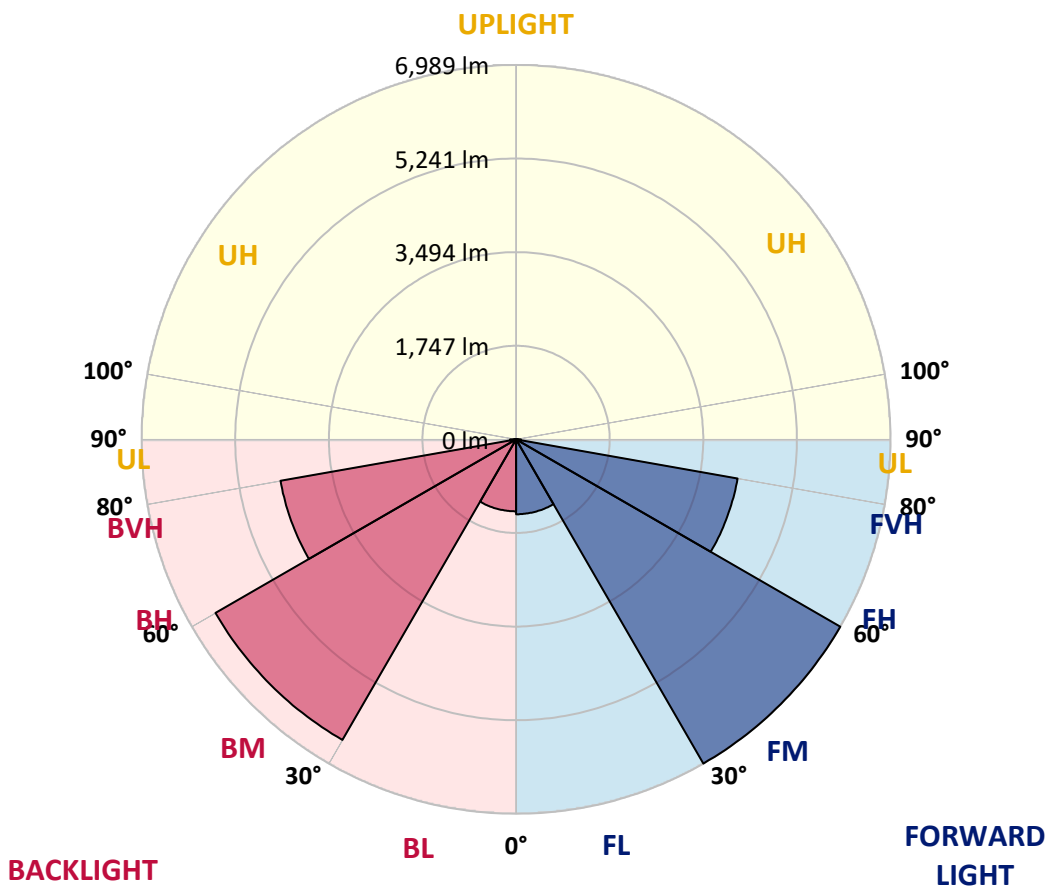
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1398.1	5.6			
FM (30°-60°)	6988.6	27.9			
FH (60°-80°)	4198.2	16.7			G2/5000
FVH (80°-90°)	90.9	0.4			G1/100
BL (0°-30°)	1343.7	5.4	B3/2500		
BM (30°-60°)	6479.5	25.8	B4/8500		
BH (60°-80°)	4464.5	17.8	B4/5000		G4/5000
BVH (80°-90°)	111.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2539.0	2539.0	2539.0	2539.0	2539.0	2539.0	2539.0	2539.0	2539.0	2539.0	2539.0
2.5°	2486.6	2490.1	2495.3	2505.8	2516.3	2532.0	2547.7	2546.0	2553.0	2558.2	2563.4
5°	2472.6	2476.1	2484.9	2498.8	2514.5	2540.7	2573.9	2587.9	2598.4	2617.6	2635.0
7.5°	2502.3	2509.3	2521.5	2540.7	2565.2	2598.4	2643.8	2668.2	2683.9	2718.8	2748.5
10°	2542.5	2551.2	2575.7	2612.3	2649.0	2699.6	2757.3	2793.9	2804.4	2849.8	2905.7
12.5°	2580.9	2591.4	2631.5	2697.9	2764.2	2832.3	2900.4	2945.8	2949.3	3010.5	3073.3
15°	2642.0	2650.7	2704.9	2790.4	2891.7	2986.0	3069.8	3101.3	3115.2	3158.9	3237.5
17.5°	2776.5	2786.9	2856.8	2949.3	3055.9	3155.4	3239.2	3265.4	3265.4	3302.1	3366.7
20°	2921.4	2931.9	3024.4	3143.2	3272.4	3373.7	3438.3	3413.8	3405.1	3415.6	3461.0
22.5°	3083.8	3103.0	3192.1	3330.0	3488.9	3612.9	3646.1	3572.7	3548.3	3523.8	3534.3
25°	3291.6	3314.3	3401.6	3548.3	3703.7	3834.7	3853.9	3740.4	3726.4	3640.8	3609.4
27.5°	3530.8	3548.3	3656.6	3801.5	3946.4	4056.4	4077.4	3937.7	3890.5	3771.8	3698.5
30°	3839.9	3855.6	3949.9	4093.1	4218.8	4295.7	4321.9	4129.8	4093.1	3911.5	3798.0
32.5°	4176.9	4183.9	4280.0	4417.9	4529.7	4603.0	4566.3	4342.8	4288.7	4084.4	3929.0
35°	4562.8	4562.8	4686.8	4798.6	4887.6	4908.6	4838.7	4583.8	4520.9	4299.2	4105.3
37.5°	4941.8	4952.2	5067.5	5200.2	5278.8	5275.3	5147.8	4868.4	4796.8	4555.9	4341.1
40°	5352.1	5374.8	5490.1	5638.5	5713.6	5703.1	5507.5	5196.7	5123.4	4838.7	4629.2
42.5°	5729.3	5766.0	5900.4	6052.3	6134.4	6127.4	5923.1	5573.9	5502.3	5181.0	4971.4
45°	6029.6	6068.1	6235.7	6447.0	6578.0	6565.7	6359.7	5965.0	5877.7	5540.7	5310.2
47.5°	6293.3	6333.5	6520.3	6743.8	6951.6	6972.6	6784.0	6359.7	6267.1	5926.6	5666.4
50°	6495.9	6515.1	6724.6	6969.1	7210.1	7327.1	7162.9	6756.1	6644.3	6307.3	6013.9
52.5°	6480.2	6506.4	6764.8	7096.6	7419.6	7611.7	7498.2	7129.8	7021.5	6654.8	6368.4
55°	6160.6	6186.8	6494.1	6977.8	7536.6	7819.5	7807.3	7486.0	7407.4	7009.3	6736.9
57.5°	5694.4	5752.0	6057.6	6579.7	7383.0	7985.4	8034.3	7810.8	7728.7	7356.8	7101.8
60°	4859.7	4936.5	5289.3	5966.8	6890.5	7929.5	8277.0	8084.9	8034.3	7679.8	7431.9
62.5°	3530.8	3586.7	4056.4	4945.3	6160.6	7531.4	8481.3	8367.8	8329.4	7969.7	7730.5
65°	2114.7	2242.1	2619.3	3497.7	4969.7	6780.5	8369.6	8738.0	8697.9	8268.3	7985.4
67.5°	1070.4	1128.0	1276.5	1896.4	3342.2	5610.6	7809.0	8968.5	9017.4	8523.2	8076.2
70°	663.6	679.3	721.2	936.0	1669.4	3686.2	6385.9	8367.8	8607.0	8483.1	7840.5
72.5°	532.6	536.1	543.1	583.2	801.5	1723.5	4037.2	6553.5	6984.8	7922.5	7503.4
75°	441.8	443.5	445.3	457.5	499.4	703.7	1964.5	4503.5	5008.1	6733.4	6956.9
77.5°	354.5	345.7	352.7	358.0	368.4	392.9	677.5	2402.8	2914.4	4419.6	5380.1
80°	230.5	227.0	241.0	246.2	256.7	272.4	361.5	815.5	990.1	1608.3	1711.3
82.5°	124.0	117.0	146.7	141.4	146.7	158.9	213.0	298.6	335.3	485.4	410.4
85°	38.4	38.4	40.2	47.1	57.6	55.9	92.5	146.7	162.4	207.8	153.7
87.5°	7.0	7.0	7.0	7.0	7.0	8.7	19.2	29.7	40.2	71.6	54.1
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°	2539.0	2539.0	2539.0	2539.0	2539.0	2539.0	2539.0	2539.0	2539.0	2539.0	2539.0
2.5°	2573.9	2558.2	2566.9	2572.2	2570.4	2566.9	2549.5	2546.0	2537.2	2523.3	2519.8
5°	2650.7	2633.3	2635.0	2629.8	2612.3	2589.6	2551.2	2532.0	2516.3	2498.8	2497.1
7.5°	2771.2	2752.0	2746.8	2722.3	2673.4	2621.1	2559.9	2525.0	2498.8	2476.1	2472.6
10°	2924.9	2905.7	2888.2	2830.6	2750.3	2680.4	2600.1	2549.5	2511.0	2483.1	2477.9
12.5°	3096.0	3080.3	3036.7	2952.8	2856.8	2774.7	2692.6	2629.8	2573.9	2532.0	2526.8
15°	3286.4	3251.4	3185.1	3076.8	2986.0	2919.7	2820.1	2734.6	2645.5	2589.6	2577.4
17.5°	3419.1	3389.4	3310.8	3206.0	3134.4	3076.8	2959.8	2837.6	2717.1	2635.0	2617.6
20°	3513.4	3481.9	3392.9	3316.0	3293.3	3244.5	3108.2	2966.8	2827.1	2725.8	2703.1
22.5°	3581.5	3548.3	3457.5	3419.1	3450.5	3441.8	3309.1	3148.4	2982.5	2862.0	2834.1
25°	3646.1	3614.6	3534.3	3548.3	3632.1	3658.3	3515.1	3328.3	3139.7	2998.2	2965.1
27.5°	3707.2	3667.0	3630.4	3707.2	3825.9	3874.8	3722.9	3511.6	3307.3	3162.4	3136.2
30°	3801.5	3754.3	3749.1	3860.9	4049.5	4091.4	3923.7	3712.4	3509.9	3363.2	3330.0
32.5°	3920.2	3876.6	3880.1	4047.7	4266.0	4300.9	4157.7	3960.4	3757.8	3611.2	3565.8
35°	4080.9	4026.8	4056.4	4262.5	4482.5	4547.1	4431.9	4267.7	4070.4	3920.2	3869.6
37.5°	4302.7	4224.1	4285.2	4501.7	4723.5	4819.5	4730.5	4608.2	4412.7	4260.7	4213.6
40°	4585.5	4520.9	4545.4	4784.6	5013.4	5128.6	5072.7	4952.2	4758.4	4599.5	4545.4
42.5°	4920.8	4856.2	4847.5	5102.4	5331.2	5505.8	5451.7	5341.6	5140.8	4959.2	4906.8
45°	5249.1	5189.7	5201.9	5462.1	5718.8	5909.2	5855.0	5725.8	5507.5	5298.0	5256.1
47.5°	5591.4	5542.5	5552.9	5828.8	6111.7	6302.1	6234.0	6076.8	5821.9	5598.3	5547.7
50°	5942.3	5886.5	5902.2	6192.0	6497.6	6677.5	6572.7	6340.5	6059.3	5841.1	5797.4
52.5°	6291.6	6225.2	6265.4	6539.5	6855.6	6998.8	6805.0	6523.8	6251.4	6034.9	5986.0
55°	6693.2	6623.4	6579.7	6873.1	7185.6	7245.0	6979.6	6651.3	6328.3	6082.0	6052.3
57.5°	7059.9	7000.5	6918.5	7211.8	7442.3	7398.7	7114.0	6616.4	6141.4	5825.3	5783.4
60°	7388.2	7337.6	7266.0	7515.7	7620.4	7522.7	7005.8	6202.5	5680.4	5350.4	5331.2
62.5°	7690.3	7636.2	7569.8	7782.8	7768.9	7541.9	6513.3	5566.9	4868.4	4513.9	4482.5
65°	7929.5	7880.6	7861.4	8029.1	8006.4	7166.4	5746.8	4526.2	3557.0	3157.1	3144.9
67.5°	7997.6	7978.4	8081.4	8366.1	8011.6	6412.1	4507.0	3001.7	1910.3	1531.4	1508.7
70°	7742.7	7740.9	8036.0	8442.9	7285.2	4898.1	2659.5	1353.3	960.4	852.1	838.2
72.5°	7410.9	7405.7	7639.7	7283.4	5402.8	2680.4	1119.3	724.7	600.7	571.0	571.0
75°	6866.1	6852.1	7028.5	5540.7	3038.4	1009.3	593.7	497.7	471.5	466.2	466.2
77.5°	5596.6	5479.6	5201.9	3424.3	1059.9	495.9	392.9	391.2	375.4	373.7	373.7
80°	1840.5	1840.5	2139.1	1306.2	468.0	305.6	277.6	291.6	275.9	265.4	263.7
82.5°	300.3	413.9	588.5	373.7	253.2	190.3	171.1	181.6	190.3	151.9	151.9
85°	118.7	155.4	227.0	174.6	117.0	76.8	82.1	90.8	80.3	69.8	68.1
87.5°	45.4	55.9	80.3	41.9	24.4	14.0	8.7	8.7	7.0	7.0	7.0
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)