

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: P638523

Luminaire Tested: GWS-SA4F-722-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638523  
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-722-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

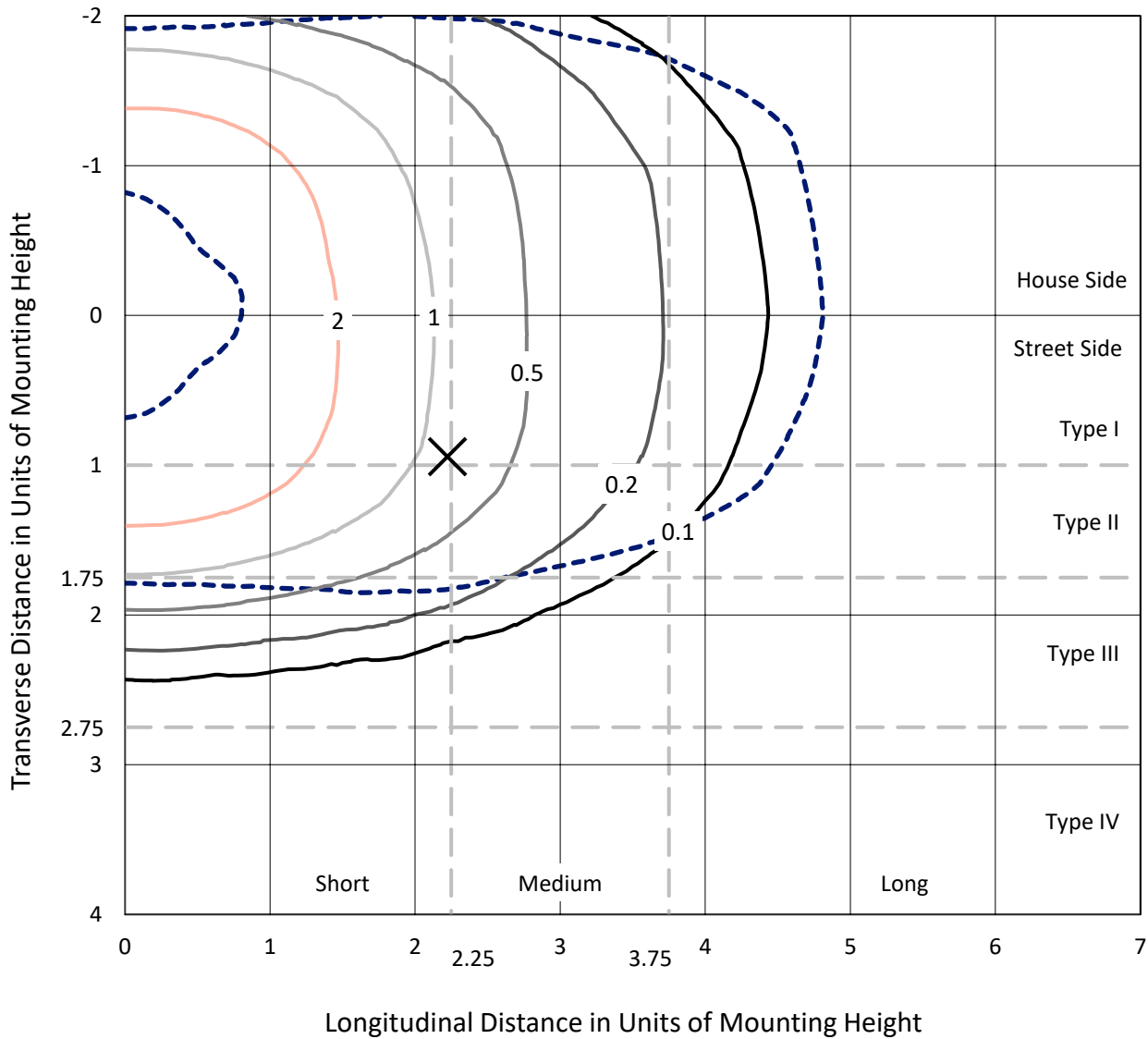
Lumens per Lamp: N/A  
Luminaire Lumens: 25799.9 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): 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

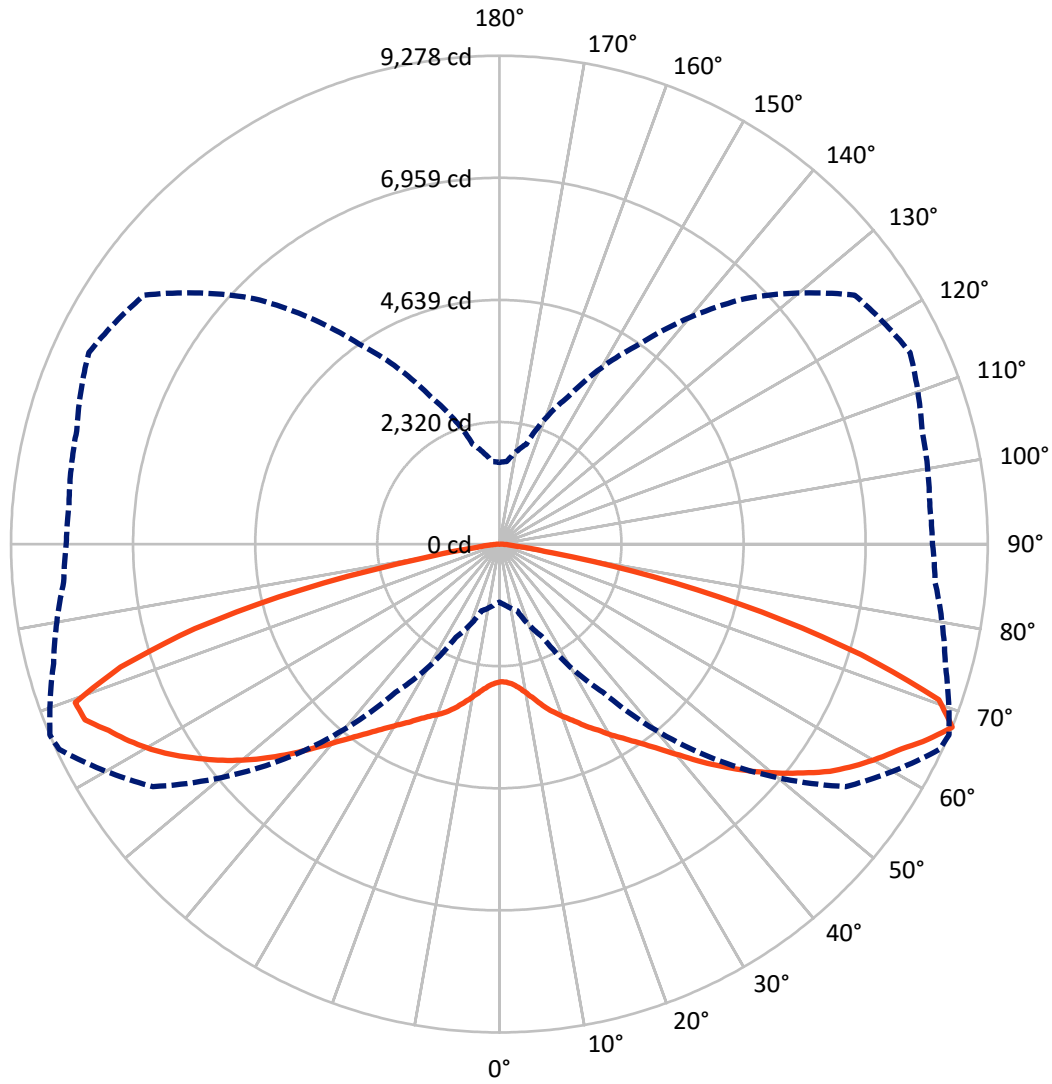
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	12757.6	0.0	12757.6
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	13042.3	0.0	13042.3
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	25799.9	0.0	25799.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.3	1.0
10°-20°	865.9	3.4
20°-30°	1698.9	6.6
30°-40°	2894.4	11.2
40°-50°	4647.8	18.0
50°-60°	6315.3	24.5
60°-70°	6041.1	23.4
70°-80°	2872.1	11.1
80°-90°	208.1	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°	25799.9	100.0
0°-180°	25799.9	100.0

**Coefficient of Utilization**



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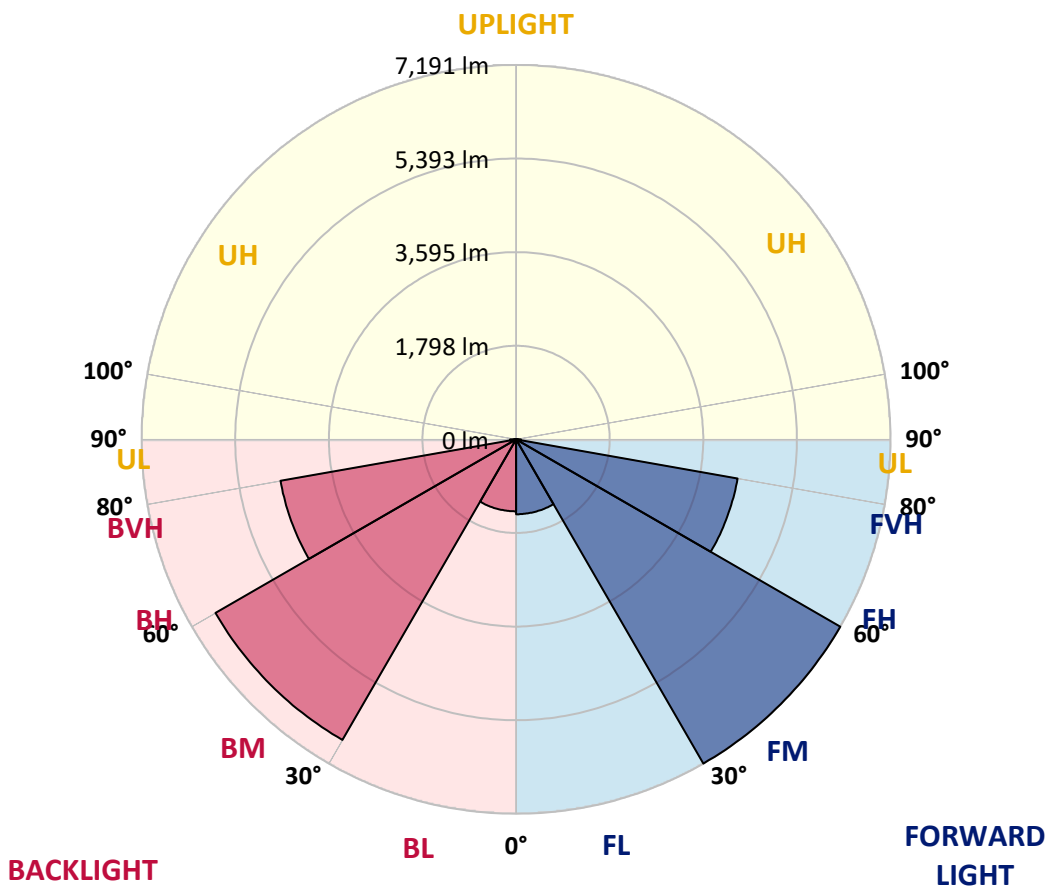
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1438.5	5.6			
FM (30°-60°)	7190.7	27.9			
FH (60°-80°)	4319.6	16.7			G2/5000
FVH (80°-90°)	93.5	0.4			G1/100
BL (0°-30°)	1382.6	5.4	B3/2500		
BM (30°-60°)	6666.8	25.8	B4/8500		
BH (60°-80°)	4593.6	17.8	B4/5000		G4/5000
BVH (80°-90°)	114.6	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°	2612.4	2612.4	2612.4	2612.4	2612.4	2612.4	2612.4	2612.4	2612.4	2612.4	2612.4
2.5°	2558.5	2562.1	2567.5	2578.2	2589.0	2605.2	2621.4	2619.6	2626.8	2632.1	2637.5
5°	2544.1	2547.7	2556.7	2571.1	2587.2	2614.2	2648.3	2662.7	2673.5	2693.2	2711.2
7.5°	2574.7	2581.8	2594.4	2614.2	2639.3	2673.5	2720.2	2745.3	2761.5	2797.4	2828.0
10°	2616.0	2625.0	2650.1	2687.8	2725.6	2777.7	2837.0	2874.7	2885.5	2932.2	2989.7
12.5°	2655.5	2666.3	2707.6	2775.9	2844.2	2914.2	2984.3	3031.0	3034.6	3097.5	3162.2
15°	2718.4	2727.4	2783.1	2871.1	2975.3	3072.3	3158.6	3190.9	3205.3	3250.2	3331.1
17.5°	2856.7	2867.5	2939.4	3034.6	3144.2	3246.6	3332.9	3359.8	3359.8	3397.5	3464.0
20°	3005.9	3016.6	3111.9	3234.0	3367.0	3471.2	3537.7	3512.5	3503.5	3514.3	3561.0
22.5°	3173.0	3192.7	3284.3	3426.3	3589.8	3717.3	3751.5	3676.0	3650.9	3625.7	3636.5
25°	3386.8	3410.1	3499.9	3650.9	3810.8	3945.5	3965.3	3848.5	3834.1	3746.1	3713.8
27.5°	3632.9	3650.9	3762.3	3911.4	4060.5	4173.7	4195.3	4051.5	4003.0	3880.8	3805.4
30°	3950.9	3967.1	4064.1	4211.4	4340.8	4419.9	4446.8	4249.2	4211.4	4024.6	3907.8
32.5°	4297.7	4304.9	4403.7	4545.6	4660.6	4736.1	4698.3	4468.4	4412.7	4202.5	4042.5
35°	4694.7	4694.7	4822.3	4937.3	5028.9	5050.5	4978.6	4716.3	4651.6	4423.4	4224.0
37.5°	5084.6	5095.4	5214.0	5350.5	5431.4	5427.8	5296.6	5009.2	4935.5	4687.6	4466.6
40°	5506.8	5530.2	5648.8	5801.5	5878.8	5868.0	5666.8	5346.9	5271.5	4978.6	4763.0
42.5°	5894.9	5932.7	6071.0	6227.3	6311.8	6304.6	6094.4	5735.0	5661.4	5330.8	5115.2
45°	6204.0	6243.5	6416.0	6633.4	6768.1	6755.5	6543.5	6137.5	6047.7	5700.9	5463.7
47.5°	6475.3	6516.6	6708.8	6938.8	7152.6	7174.2	6980.1	6543.5	6448.3	6098.0	5830.3
50°	6683.7	6703.4	6919.0	7170.6	7418.5	7538.9	7370.0	6951.4	6836.4	6489.6	6187.8
52.5°	6667.5	6694.5	6960.4	7301.7	7634.1	7831.8	7715.0	7335.9	7224.5	6847.2	6552.5
55°	6338.7	6365.7	6681.9	7179.6	7754.5	8045.6	8033.0	7702.4	7621.5	7211.9	6931.6
57.5°	5859.0	5918.3	6232.7	6769.9	7596.4	8216.3	8266.6	8036.6	7952.1	7569.4	7307.1
60°	5000.2	5079.2	5442.2	6139.3	7089.7	8158.8	8516.3	8318.7	8266.6	7901.8	7646.7
62.5°	3632.9	3690.4	4173.7	5088.2	6338.7	7749.1	8726.5	8609.7	8570.2	8200.1	7953.9
65°	2175.8	2306.9	2695.0	3598.8	5113.4	6976.5	8611.5	8990.6	8949.3	8507.3	8216.3
67.5°	1101.4	1160.7	1313.4	1951.2	3438.9	5772.8	8034.8	9227.8	9278.1	8769.6	8309.7
70°	682.7	698.9	742.0	963.0	1717.6	3792.8	6570.5	8609.7	8855.9	8728.3	8067.1
72.5°	548.0	551.6	558.8	600.1	824.7	1773.3	4153.9	6743.0	7186.8	8151.6	7720.4
75°	454.6	456.4	458.2	470.7	513.9	724.1	2021.3	4633.7	5152.9	6928.0	7158.0
77.5°	364.7	355.7	362.9	368.3	379.1	404.3	697.1	2472.2	2998.7	4547.4	5535.6
80°	237.2	233.6	247.9	253.3	264.1	280.3	371.9	839.1	1018.7	1654.7	1760.8
82.5°	127.6	120.4	150.9	145.5	150.9	163.5	219.2	307.2	345.0	499.5	422.2
85°	39.5	39.5	41.3	48.5	59.3	57.5	95.2	150.9	167.1	213.8	158.1
87.5°	7.2	7.2	7.2	7.2	7.2	9.0	19.8	30.5	41.3	73.7	55.7
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°	2612.4	2612.4	2612.4	2612.4	2612.4	2612.4	2612.4	2612.4	2612.4	2612.4	2612.4
2.5°	2648.3	2632.1	2641.1	2646.5	2644.7	2641.1	2623.2	2619.6	2610.6	2596.2	2592.6
5°	2727.4	2709.4	2711.2	2705.8	2687.8	2664.5	2625.0	2605.2	2589.0	2571.1	2569.3
7.5°	2851.3	2831.6	2826.2	2801.0	2750.7	2696.8	2633.9	2598.0	2571.1	2547.7	2544.1
10°	3009.5	2989.7	2971.7	2912.4	2829.8	2757.9	2675.3	2623.2	2583.6	2554.9	2549.5
12.5°	3185.5	3169.4	3124.4	3038.2	2939.4	2854.9	2770.5	2705.8	2648.3	2605.2	2599.8
15°	3381.4	3345.4	3277.2	3165.8	3072.3	3004.1	2901.7	2813.6	2722.0	2664.5	2651.9
17.5°	3517.9	3487.4	3406.5	3298.7	3225.1	3165.8	3045.4	2919.6	2795.6	2711.2	2693.2
20°	3614.9	3582.6	3491.0	3411.9	3388.6	3338.2	3198.1	3052.6	2908.8	2804.6	2781.3
22.5°	3685.0	3650.9	3557.4	3517.9	3550.3	3541.3	3404.7	3239.4	3068.7	2944.8	2916.0
25°	3751.5	3719.1	3636.5	3650.9	3737.1	3764.1	3616.7	3424.5	3230.4	3084.9	3050.8
27.5°	3814.4	3773.0	3735.3	3814.4	3936.5	3986.8	3830.5	3613.1	3402.9	3253.8	3226.9
30°	3911.4	3862.9	3857.5	3972.5	4166.5	4209.6	4037.2	3819.8	3611.3	3460.4	3426.3
32.5°	4033.6	3988.6	3992.2	4164.7	4389.3	4425.2	4277.9	4074.9	3866.5	3715.5	3668.8
35°	4198.9	4143.2	4173.7	4385.7	4612.1	4678.6	4560.0	4391.1	4188.1	4033.6	3981.5
37.5°	4427.0	4346.2	4409.1	4631.9	4860.0	4958.9	4867.2	4741.5	4540.2	4383.9	4335.4
40°	4718.1	4651.6	4676.8	4922.9	5158.3	5276.9	5219.4	5095.4	4896.0	4732.5	4676.8
42.5°	5063.1	4996.6	4987.6	5249.9	5485.3	5665.0	5609.3	5496.1	5289.4	5102.6	5048.7
45°	5400.8	5339.8	5352.3	5620.0	5884.2	6080.0	6024.3	5891.3	5666.8	5451.2	5408.0
47.5°	5753.0	5702.7	5713.5	5997.3	6288.4	6484.2	6414.2	6252.5	5990.2	5760.2	5708.1
50°	6114.1	6056.6	6072.8	6371.1	6685.5	6870.5	6762.7	6523.8	6234.5	6009.9	5965.0
52.5°	6473.5	6405.2	6446.5	6728.6	7053.8	7201.1	7001.7	6712.4	6432.1	6209.4	6159.0
55°	6886.7	6814.8	6769.9	7071.8	7393.4	7454.5	7181.4	6843.6	6511.2	6257.9	6227.3
57.5°	7264.0	7202.9	7118.5	7420.3	7657.5	7612.6	7319.7	6807.6	6319.0	5993.7	5950.6
60°	7601.8	7549.7	7476.0	7732.9	7840.7	7740.1	7208.3	6381.8	5844.6	5505.1	5485.3
62.5°	7912.6	7856.9	7788.6	8007.8	7993.5	7759.9	6701.6	5727.8	5009.2	4644.4	4612.1
65°	8158.8	8108.5	8088.7	8261.2	8237.8	7373.6	5912.9	4657.0	3659.9	3248.4	3235.8
67.5°	8228.8	8209.1	8315.1	8607.9	8243.2	6597.4	4637.3	3088.5	1965.6	1575.7	1552.3
70°	7966.5	7964.7	8268.4	8687.0	7495.8	5039.7	2736.4	1392.4	988.2	876.8	862.4
72.5°	7625.1	7619.8	7860.5	7494.0	5559.0	2757.9	1151.7	745.6	618.1	587.5	587.5
75°	7064.6	7050.2	7231.7	5700.9	3126.2	1038.5	610.9	512.1	485.1	479.7	479.7
77.5°	5758.4	5638.0	5352.3	3523.3	1090.6	510.3	404.3	402.5	386.3	384.5	384.5
80°	1893.7	1893.7	2200.9	1343.9	481.5	314.4	285.7	300.0	283.9	273.1	271.3
82.5°	309.0	425.8	605.5	384.5	260.5	195.8	176.1	186.9	195.8	156.3	156.3
85°	122.2	159.9	233.6	179.7	120.4	79.1	84.4	93.4	82.6	71.9	70.1
87.5°	46.7	57.5	82.6	43.1	25.2	14.4	9.0	9.0	7.2	7.2	7.2
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)