

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: P639733

Luminaire Tested: GWS-SA5C-740-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639733  
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-740-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

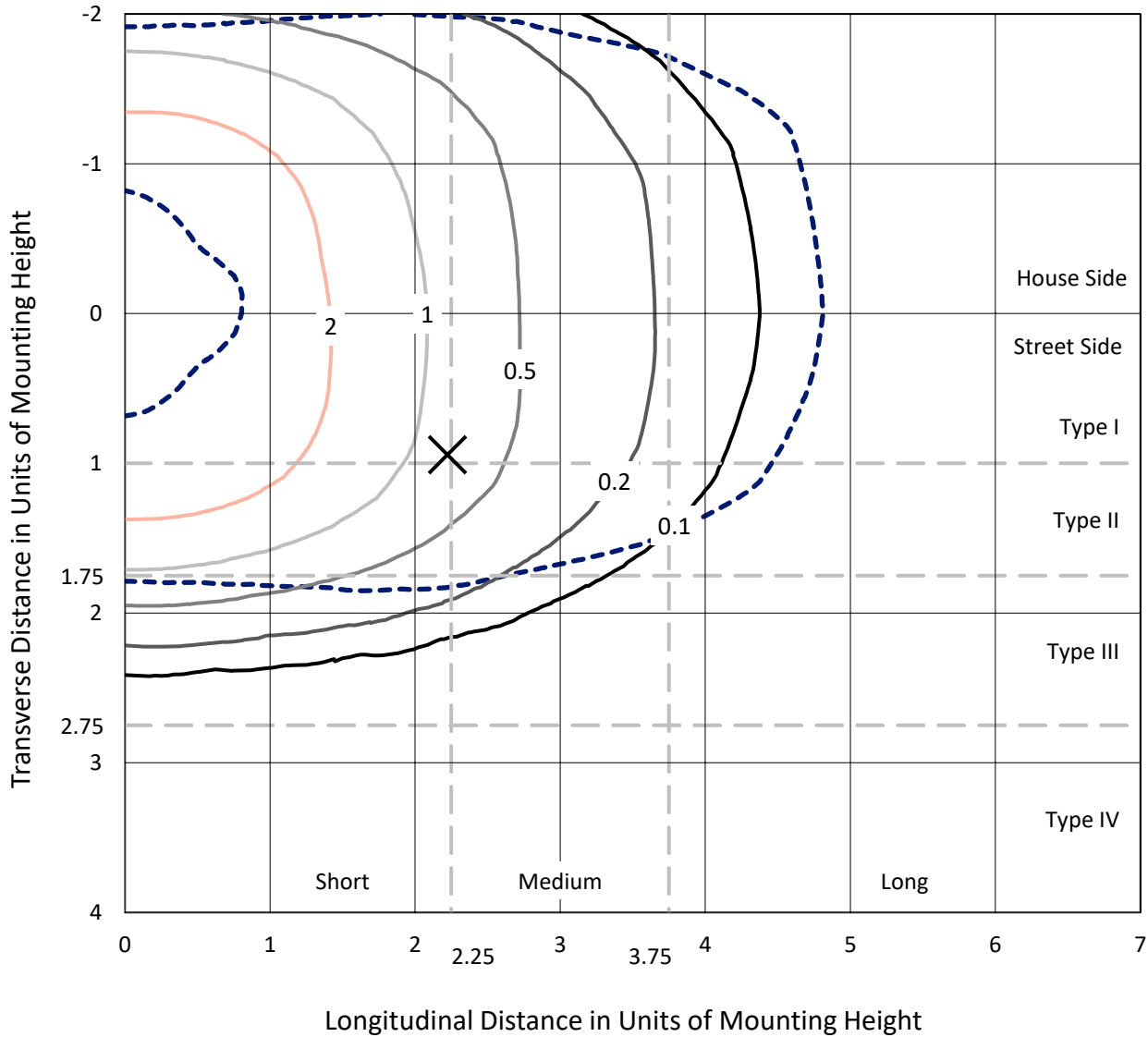
Lumens per Lamp: N/A  
Luminaire Lumens: 24513.2 lumens  
Efficiency: N/A  
Efficacy: 155.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

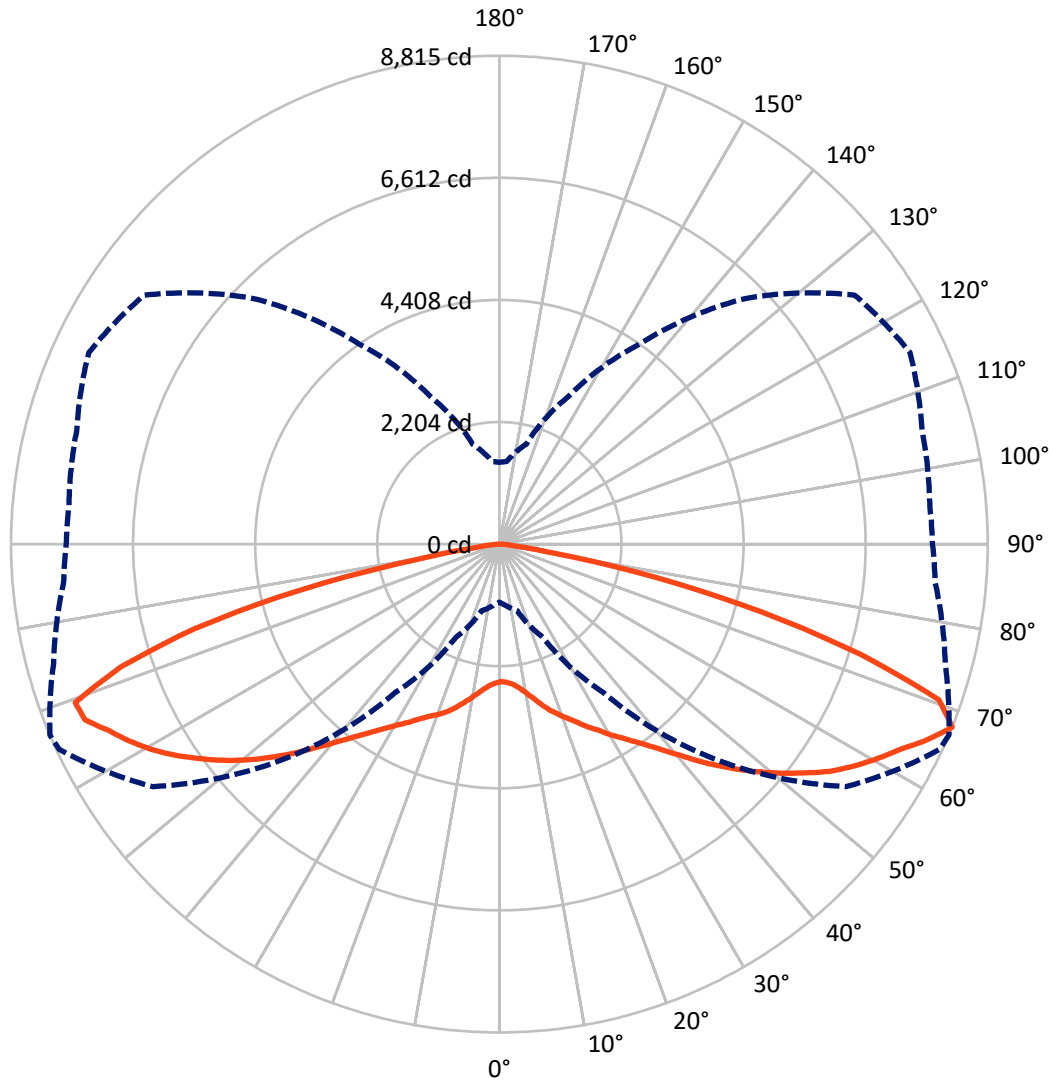
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	12121.3	0.0	12121.3
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	12391.9	0.0	12391.9
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	24513.2	0.0	24513.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.5	1.0
10°-20°	822.7	3.4
20°-30°	1614.2	6.6
30°-40°	2750.0	11.2
40°-50°	4416.0	18.0
50°-60°	6000.4	24.5
60°-70°	5739.8	23.4
70°-80°	2728.9	11.1
80°-90°	197.8	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°	24513.2	100.0
0°-180°	24513.2	100.0

**Coefficient of Utilization**



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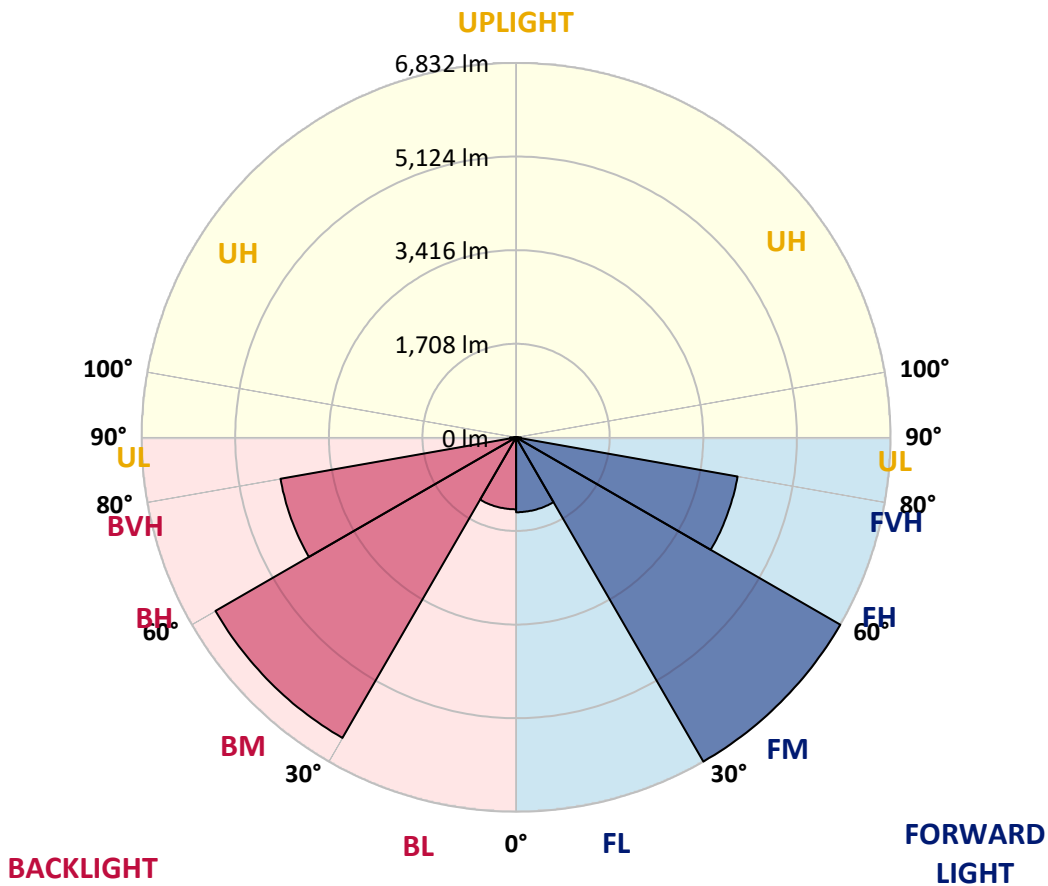
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1366.8	5.6			
FM (30°-60°)	6832.0	27.9			
FH (60°-80°)	4104.2	16.7			G2/5000
FVH (80°-90°)	88.9	0.4			G1/100
BL (0°-30°)	1313.6	5.4	B3/2500		
BM (30°-60°)	6334.3	25.8	B4/8500		
BH (60°-80°)	4364.5	17.8	B4/5000		G4/5000
BVH (80°-90°)	108.9	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°	2482.1	2482.1	2482.1	2482.1	2482.1	2482.1	2482.1	2482.1	2482.1	2482.1	2482.1
2.5°	2430.9	2434.3	2439.4	2449.7	2459.9	2475.3	2490.6	2488.9	2495.8	2500.9	2506.0
5°	2417.2	2420.6	2429.2	2442.8	2458.2	2483.8	2516.2	2529.9	2540.1	2558.9	2576.0
7.5°	2446.2	2453.1	2465.0	2483.8	2507.7	2540.1	2584.5	2608.4	2623.8	2657.9	2686.9
10°	2485.5	2494.0	2517.9	2553.8	2589.6	2639.1	2695.5	2731.3	2741.6	2786.0	2840.6
12.5°	2523.1	2533.3	2572.6	2637.4	2702.3	2768.9	2835.5	2879.8	2883.3	2943.0	3004.5
15°	2582.8	2591.4	2644.3	2727.9	2826.9	2919.1	3001.1	3031.8	3045.4	3088.1	3164.9
17.5°	2714.3	2724.5	2792.8	2883.3	2987.4	3084.7	3166.6	3192.2	3192.2	3228.1	3291.3
20°	2855.9	2866.2	2956.7	3072.7	3199.1	3298.1	3361.2	3337.3	3328.8	3339.1	3383.4
22.5°	3014.7	3033.5	3120.5	3255.4	3410.8	3532.0	3564.4	3492.7	3468.8	3444.9	3455.1
25°	3217.9	3240.0	3325.4	3468.8	3620.7	3748.8	3767.5	3656.6	3642.9	3559.3	3528.5
27.5°	3451.7	3468.8	3574.6	3716.3	3858.0	3965.6	3986.0	3849.5	3803.4	3687.3	3615.6
30°	3753.9	3769.2	3861.4	4001.4	4124.3	4199.4	4225.0	4037.3	4001.4	3823.9	3712.9
32.5°	4083.3	4090.2	4184.1	4318.9	4428.2	4499.9	4464.0	4245.5	4192.6	3992.9	3840.9
35°	4460.6	4460.6	4581.8	4691.1	4778.1	4798.6	4730.3	4481.1	4419.6	4202.8	4013.4
37.5°	4831.0	4841.3	4954.0	5083.7	5160.5	5157.1	5032.5	4759.3	4689.4	4453.8	4243.8
40°	5232.2	5254.4	5367.1	5512.2	5585.6	5575.3	5384.1	5080.3	5008.6	4730.3	4525.5
42.5°	5600.9	5636.8	5768.2	5916.7	5997.0	5990.2	5790.4	5449.0	5379.0	5064.9	4860.1
45°	5894.6	5932.1	6096.0	6302.5	6430.6	6418.6	6217.2	5831.4	5746.0	5416.6	5191.2
47.5°	6152.3	6191.6	6374.2	6592.8	6795.9	6816.4	6632.0	6217.2	6126.7	5793.8	5539.5
50°	6350.3	6369.1	6574.0	6813.0	7048.5	7162.9	7002.5	6604.7	6495.4	6166.0	5879.2
52.5°	6335.0	6360.6	6613.2	6937.6	7253.4	7441.2	7330.2	6970.0	6864.2	6505.7	6225.7
55°	6022.6	6048.2	6348.6	6821.5	7367.8	7644.3	7632.4	7318.3	7241.4	6852.2	6585.9
57.5°	5566.8	5623.1	5921.9	6432.3	7217.5	7806.5	7854.3	7635.8	7555.5	7191.9	6942.7
60°	4750.8	4825.9	5170.8	5833.1	6736.1	7751.9	8091.6	7903.8	7854.3	7507.7	7265.3
62.5°	3451.7	3506.3	3965.6	4834.5	6022.6	7362.6	8291.3	8180.3	8142.8	7791.1	7557.3
65°	2067.3	2191.9	2560.6	3419.3	4858.4	6628.6	8182.0	8542.2	8503.0	8083.0	7806.5
67.5°	1046.4	1102.8	1247.9	1853.9	3267.4	5484.9	7634.1	8767.6	8815.4	8332.3	7895.3
70°	648.7	664.1	705.0	915.0	1632.0	3603.7	6242.8	8180.3	8414.2	8293.0	7664.8
72.5°	520.7	524.1	530.9	570.2	783.6	1684.9	3946.8	6406.7	6828.3	7745.0	7335.3
75°	431.9	433.6	435.3	447.3	488.2	688.0	1920.5	4402.6	4895.9	6582.5	6801.0
77.5°	346.5	338.0	344.8	350.0	360.2	384.1	662.3	2348.9	2849.1	4320.6	5259.5
80°	225.3	221.9	235.6	240.7	250.9	266.3	353.4	797.2	967.9	1572.2	1672.9
82.5°	121.2	114.4	143.4	138.3	143.4	155.3	208.3	291.9	327.8	474.6	401.2
85°	37.6	37.6	39.3	46.1	56.3	54.6	90.5	143.4	158.8	203.1	150.2
87.5°	6.8	6.8	6.8	6.8	6.8	8.5	18.8	29.0	39.3	70.0	52.9
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°	2482.1	2482.1	2482.1	2482.1	2482.1	2482.1	2482.1	2482.1	2482.1	2482.1	2482.1
2.5°	2516.2	2500.9	2509.4	2514.5	2512.8	2509.4	2492.3	2488.9	2480.4	2466.7	2463.3
5°	2591.4	2574.3	2576.0	2570.9	2553.8	2531.6	2494.0	2475.3	2459.9	2442.8	2441.1
7.5°	2709.1	2690.4	2685.2	2661.3	2613.5	2562.3	2502.6	2468.4	2442.8	2420.6	2417.2
10°	2859.4	2840.6	2823.5	2767.2	2688.7	2620.4	2541.8	2492.3	2454.8	2427.5	2422.4
12.5°	3026.7	3011.3	2968.6	2886.7	2792.8	2712.6	2632.3	2570.9	2516.2	2475.3	2470.1
15°	3212.7	3178.6	3113.7	3007.9	2919.1	2854.2	2756.9	2673.3	2586.2	2531.6	2519.7
17.5°	3342.5	3313.4	3236.6	3134.2	3064.2	3007.9	2893.5	2774.0	2656.2	2576.0	2558.9
20°	3434.7	3403.9	3316.9	3241.7	3219.6	3171.8	3038.6	2900.3	2763.8	2664.8	2642.6
22.5°	3501.2	3468.8	3380.0	3342.5	3373.2	3364.7	3234.9	3077.9	2915.7	2797.9	2770.6
25°	3564.4	3533.7	3455.1	3468.8	3550.7	3576.3	3436.4	3253.7	3069.3	2931.1	2898.6
27.5°	3624.1	3584.9	3549.0	3624.1	3740.2	3788.0	3639.5	3432.9	3233.2	3091.5	3065.9
30°	3716.3	3670.2	3665.1	3774.4	3958.7	3999.7	3835.8	3629.3	3431.2	3287.8	3255.4
32.5°	3832.4	3789.7	3793.1	3957.0	4170.4	4204.5	4064.6	3871.7	3673.6	3530.2	3485.9
35°	3989.5	3936.5	3965.6	4167.0	4382.1	4445.2	4332.6	4172.1	3979.2	3832.4	3782.9
37.5°	4206.3	4129.4	4189.2	4400.9	4617.7	4711.5	4624.5	4505.0	4313.8	4165.3	4119.2
40°	4482.8	4419.6	4443.5	4677.4	4901.0	5013.7	4959.1	4841.3	4651.8	4496.5	4443.5
42.5°	4810.6	4747.4	4738.9	4988.1	5211.7	5382.4	5329.5	5222.0	5025.7	4848.1	4796.9
45°	5131.5	5073.4	5085.4	5339.8	5590.7	5776.8	5723.8	5597.5	5384.1	5179.3	5138.3
47.5°	5466.1	5418.3	5428.5	5698.2	5974.8	6160.9	6094.3	5940.6	5691.4	5472.9	5423.4
50°	5809.2	5754.6	5769.9	6053.3	6352.1	6527.9	6425.5	6198.4	5923.6	5710.2	5667.5
52.5°	6150.6	6085.7	6125.0	6393.0	6702.0	6842.0	6652.5	6377.7	6111.4	5899.7	5851.9
55°	6543.2	6475.0	6432.3	6719.1	7024.6	7082.7	6823.2	6502.3	6186.5	5945.8	5916.7
57.5°	6901.7	6843.7	6763.5	7050.3	7275.6	7232.9	6954.7	6468.1	6003.8	5694.8	5653.9
60°	7222.7	7173.2	7103.2	7347.3	7449.7	7354.1	6848.8	6063.6	5553.1	5230.5	5211.7
62.5°	7518.0	7465.1	7400.2	7608.5	7594.8	7372.9	6367.4	5442.2	4759.3	4412.8	4382.1
65°	7751.9	7704.1	7685.3	7849.2	7827.0	7005.9	5618.0	4424.8	3477.3	3086.4	3074.5
67.5°	7818.4	7799.7	7900.4	8178.6	7832.1	6268.4	4406.0	2934.5	1867.5	1497.1	1474.9
70°	7569.2	7567.5	7856.0	8253.7	7121.9	4788.4	2599.9	1323.0	938.9	833.1	819.4
72.5°	7244.9	7239.7	7468.5	7120.2	5281.7	2620.4	1094.2	708.4	587.2	558.2	558.2
75°	6712.2	6698.6	6871.0	5416.6	2970.3	986.7	580.4	486.5	460.9	455.8	455.8
77.5°	5471.2	5356.8	5085.4	3347.6	1036.2	484.8	384.1	382.4	367.0	365.3	365.3
80°	1799.3	1799.3	2091.2	1276.9	457.5	298.7	271.4	285.1	269.7	259.5	257.8
82.5°	293.6	404.6	575.3	365.3	247.5	186.1	167.3	177.5	186.1	148.5	148.5
85°	116.1	151.9	221.9	170.7	114.4	75.1	80.2	88.8	78.5	68.3	66.6
87.5°	44.4	54.6	78.5	41.0	23.9	13.7	8.5	8.5	6.8	6.8	6.8
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)