

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: P636767

Luminaire Tested: GWS-SA4B-740-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636767  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-740-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

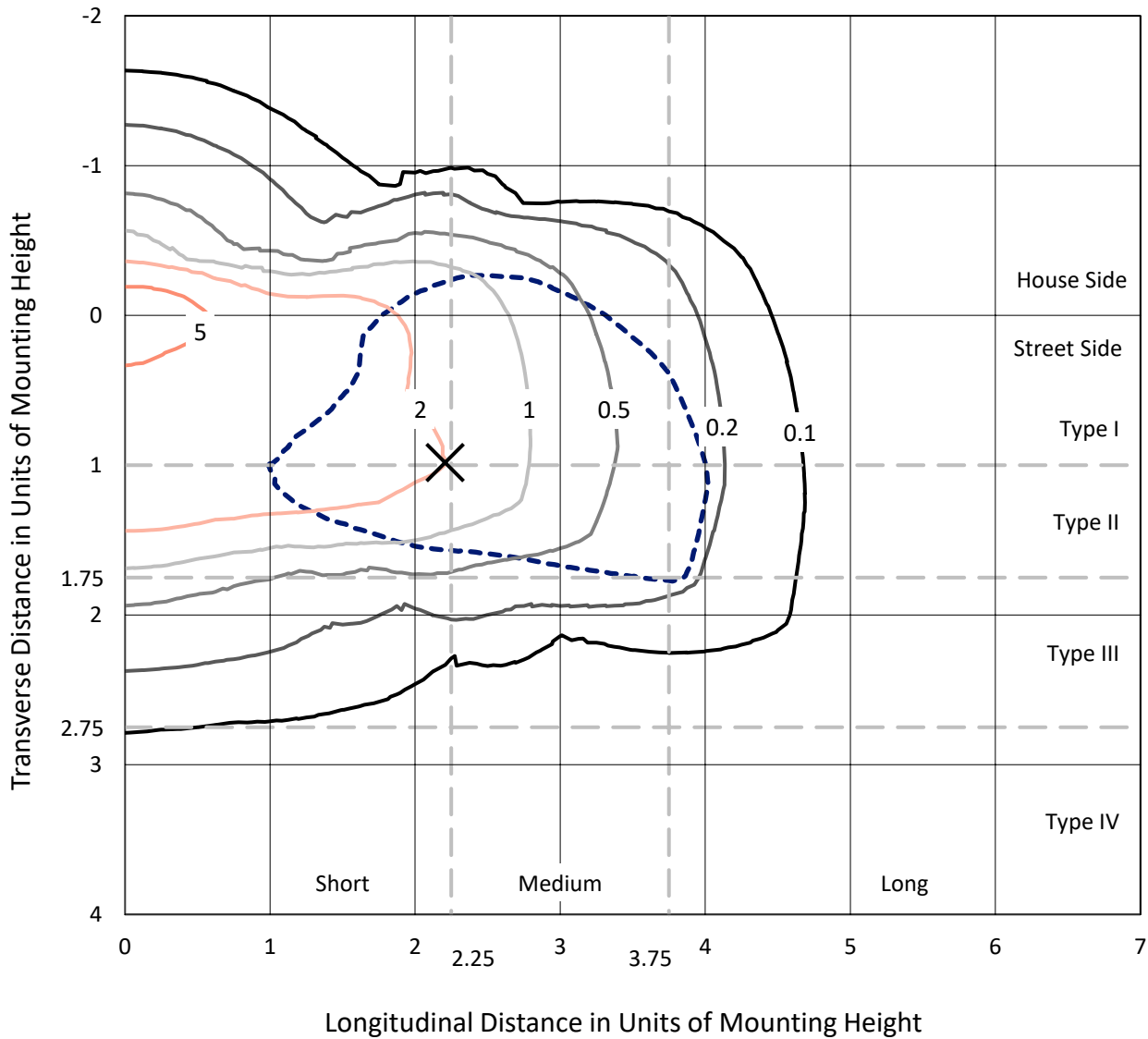
Lumens per Lamp: N/A  
Luminaire Lumens: 14223.7 lumens  
Efficiency: N/A  
Efficacy: 150.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

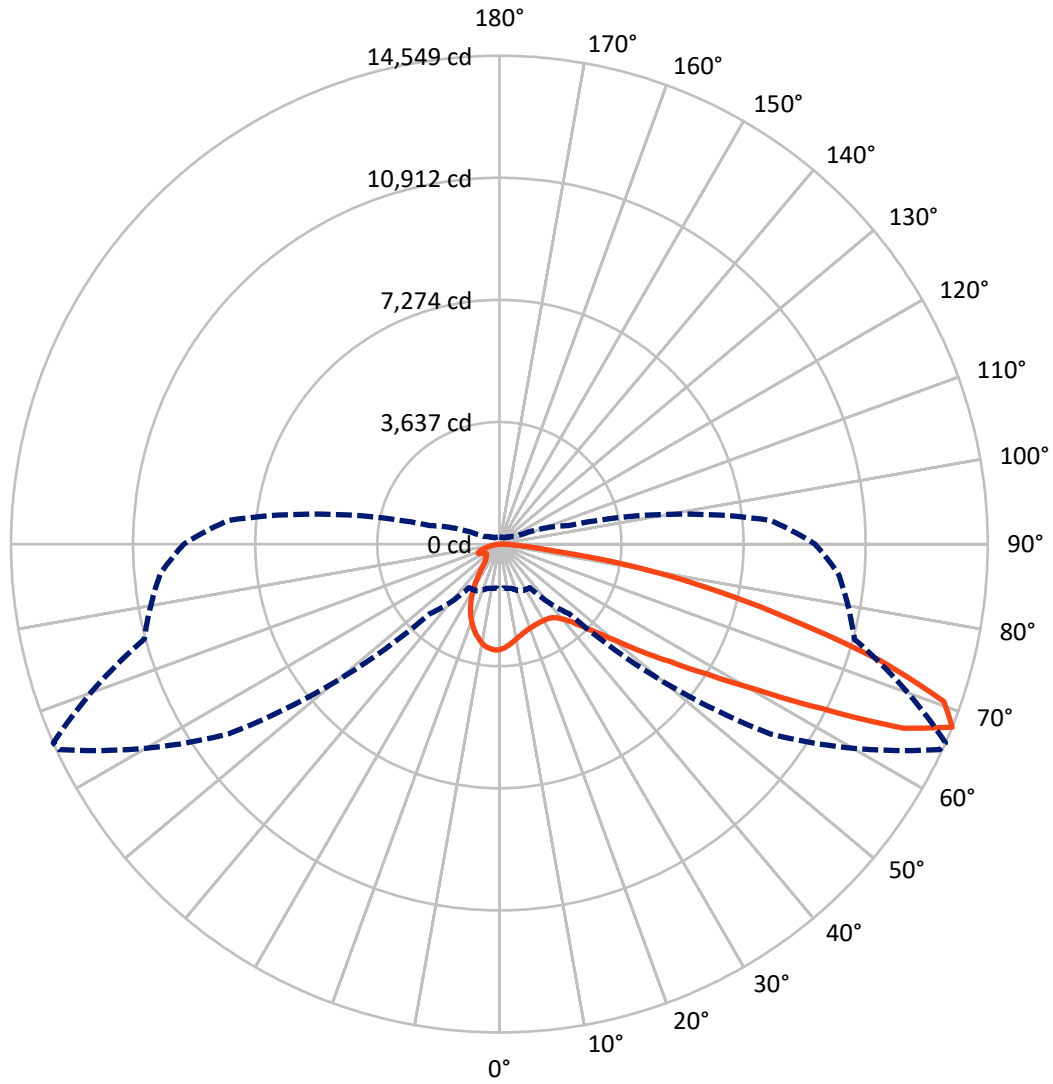
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2886.3	0.0	2886.3
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	11337.4	0.0	11337.4
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	14223.7	0.0	14223.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.8	1.9
10°-20°	677.9	4.8
20°-30°	931.8	6.6
30°-40°	1273.9	9.0
40°-50°	1930.4	13.6
50°-60°	3000.8	21.1
60°-70°	3653.4	25.7
70°-80°	2225.5	15.6
80°-90°	254.2	1.8
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°	14223.7	100.0
0°-180°	14223.7	100.0

**Coefficient of Utilization**



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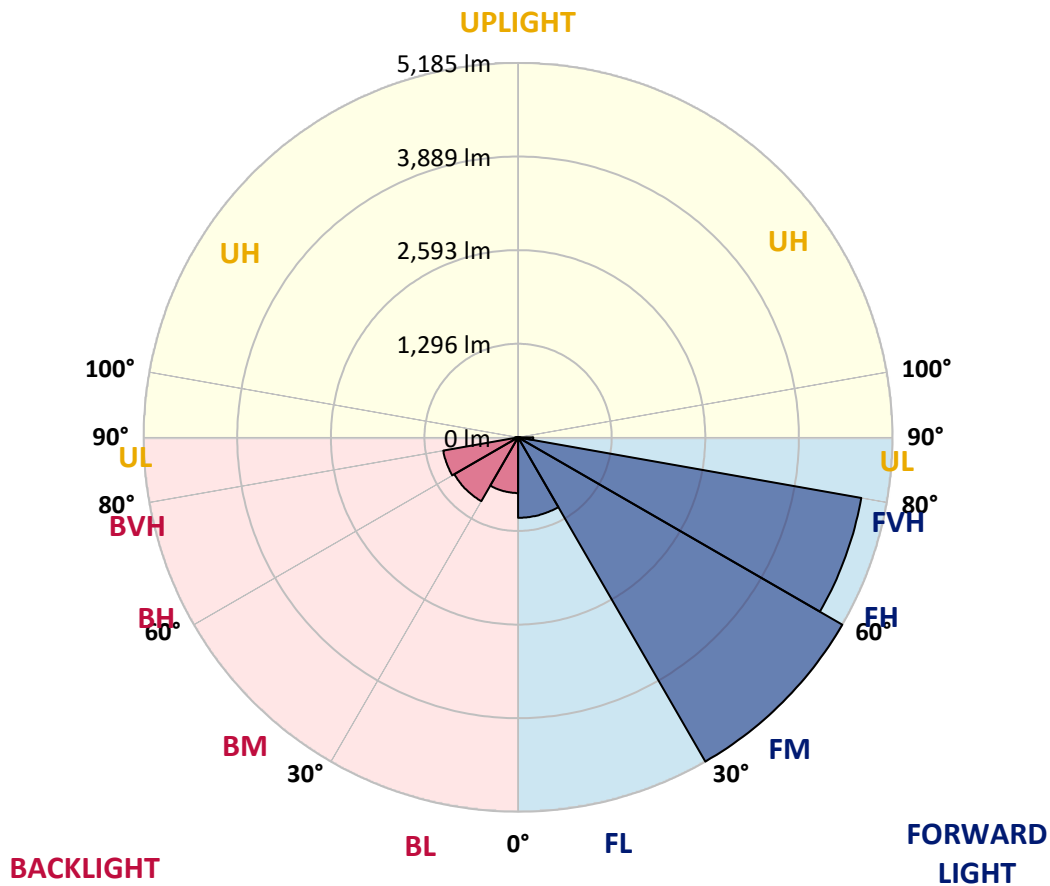
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1114.5	7.8			
FM (30°-60°)	5185.1	36.5			
FH (60°-80°)	4826.5	33.9			G2/5000
FVH (80°-90°)	211.3	1.5			G2/225
BL (0°-30°)	771.1	5.4	B2/1000		
BM (30°-60°)	1020.0	7.2	B2/2500		
BH (60°-80°)	1052.4	7.4	B3/2500		G3/2500
BVH (80°-90°)	42.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3143.0	3143.0	3143.0	3143.0	3143.0	3143.0	3143.0	3143.0	3143.0	3143.0	3143.0
2.5°	2943.8	2954.2	2948.0	2987.4	2989.5	3039.3	3067.3	3091.2	3093.2	3124.4	3145.1
5°	2742.5	2748.7	2748.7	2786.1	2811.0	2877.4	2941.7	3010.2	3015.4	3090.1	3147.2
7.5°	2579.6	2585.8	2581.7	2631.5	2663.6	2737.3	2819.3	2924.1	2934.5	3054.8	3154.4
10°	2452.0	2449.9	2460.3	2505.9	2547.4	2635.6	2726.9	2846.3	2861.8	3014.4	3162.7
12.5°	2364.8	2366.9	2373.1	2420.8	2465.5	2552.6	2647.0	2776.7	2793.3	2967.7	3158.6
15°	2323.3	2319.1	2324.3	2367.9	2410.5	2487.2	2584.8	2718.6	2735.2	2926.2	3159.6
17.5°	2314.0	2310.8	2309.8	2340.9	2373.1	2444.7	2538.1	2674.0	2691.7	2899.2	3165.9
20°	2343.0	2338.9	2327.4	2340.9	2354.4	2414.6	2504.9	2641.9	2661.6	2881.5	3178.3
22.5°	2422.9	2415.6	2398.0	2381.4	2363.8	2400.1	2484.1	2618.0	2637.7	2870.1	3190.8
25°	2544.3	2538.1	2519.4	2482.1	2417.7	2411.5	2480.0	2607.6	2627.3	2861.8	3196.0
27.5°	2711.4	2702.0	2683.4	2629.4	2524.6	2454.0	2495.5	2606.6	2625.2	2852.5	3190.8
30°	2909.6	2903.3	2893.0	2827.6	2687.5	2544.3	2530.8	2614.9	2629.4	2847.3	3180.4
32.5°	3110.9	3104.6	3112.9	3081.8	2909.6	2693.7	2607.6	2637.7	2648.1	2846.3	3171.1
35°	3288.3	3295.6	3355.8	3360.9	3191.8	2896.1	2729.0	2690.6	2692.7	2867.0	3175.2
37.5°	3474.0	3502.1	3580.9	3648.4	3507.2	3163.8	2909.6	2790.2	2788.2	2919.9	3201.1
40°	3720.0	3732.4	3833.1	3959.7	3871.5	3531.1	3165.9	2953.1	2938.6	3027.9	3270.7
42.5°	3959.7	3989.8	4150.6	4295.9	4266.8	3945.1	3488.6	3197.0	3171.1	3218.8	3413.9
45°	4264.7	4293.8	4474.3	4661.1	4714.0	4413.1	3901.6	3543.6	3517.6	3506.2	3676.4
47.5°	4569.8	4599.9	4761.8	5031.6	5217.3	4998.3	4439.1	4001.2	3958.6	3914.0	4072.8
50°	4775.3	4810.5	4965.1	5288.9	5724.7	5728.9	5076.2	4600.9	4547.0	4476.4	4631.0
52.5°	4768.0	4790.8	4938.2	5311.7	6090.0	6568.3	5929.1	5364.6	5321.1	5167.5	5302.4
55°	4393.4	4427.6	4576.0	5043.0	6129.4	7364.2	7182.6	6265.3	6187.5	5912.5	6060.9
57.5°	3641.1	3670.2	3819.6	4395.5	5779.7	7772.0	8774.3	7413.0	7306.1	6724.0	6895.2
60°	2748.7	2713.4	2784.0	3288.3	4943.4	7782.4	10179.3	8969.4	8790.9	7591.4	7734.6
62.5°	2062.8	2027.6	2043.1	2185.3	3351.6	7153.5	10980.4	11098.7	10804.0	8571.0	8543.0
65°	1630.1	1610.4	1655.0	1752.6	1953.9	5447.6	10986.6	13401.2	13215.5	9706.2	9372.0
67.5°	1328.2	1315.7	1361.4	1541.9	1584.5	2927.2	9851.4	14476.2	14548.9	10949.3	10140.9
70°	1069.8	1051.1	1122.7	1360.4	1473.5	1771.3	7057.0	13928.3	14045.6	11690.1	9924.1
72.5°	738.8	739.8	776.2	1102.0	1422.6	1529.5	3991.8	11597.8	11852.0	11018.8	8724.5
75°	498.1	502.2	512.6	727.4	1310.5	1483.8	2127.2	8780.6	8960.1	9107.4	7211.6
77.5°	300.9	303.0	326.9	440.0	903.8	1385.3	1441.3	6364.9	6506.0	6003.8	4470.2
80°	174.3	181.6	203.4	294.7	610.1	1040.8	1115.5	3902.6	4062.4	2668.8	1420.5
82.5°	76.8	82.0	111.0	171.2	355.9	885.1	870.6	1541.9	1519.1	744.0	492.9
85°	13.5	16.6	23.9	54.0	130.7	466.9	675.5	680.7	640.2	282.2	204.4
87.5°	0.0	0.0	0.0	0.0	0.0	3.1	101.7	182.6	181.6	79.9	70.6
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°	3143.0	3143.0	3143.0	3143.0	3143.0	3143.0	3143.0	3143.0	3143.0	3143.0	3143.0
2.5°	3158.6	3130.6	3155.5	3158.6	3153.4	3149.3	3118.1	3091.2	3088.0	3059.0	3059.0
5°	3170.0	3144.1	3156.5	3132.7	3095.3	3056.9	2990.5	2944.8	2924.1	2886.7	2886.7
7.5°	3185.6	3158.6	3144.1	3084.9	2997.8	2913.7	2806.8	2717.6	2681.3	2628.4	2626.3
10°	3200.1	3165.9	3116.1	3000.9	2861.8	2728.0	2572.3	2445.7	2359.6	2296.3	2296.3
12.5°	3199.1	3154.4	3055.9	2885.7	2693.7	2499.7	2292.2	2101.2	1987.1	1888.5	1882.3
15°	3197.0	3135.8	2979.1	2751.8	2497.6	2228.9	1946.6	1697.6	1528.5	1432.0	1423.7
17.5°	3194.9	3111.9	2893.0	2599.3	2259.0	1892.7	1520.2	1250.4	1109.2	1050.1	1052.2
20°	3194.9	3084.9	2800.6	2423.9	1984.0	1490.1	1115.5	919.4	884.1	887.2	890.3
22.5°	3185.6	3051.7	2697.9	2233.0	1677.9	1095.8	822.9	756.4	775.1	804.2	808.3
25°	3163.8	2996.7	2578.6	2021.3	1313.7	798.0	671.4	658.9	693.1	729.5	739.8
27.5°	3129.5	2933.4	2444.7	1773.3	967.1	641.3	590.4	589.4	616.4	643.3	652.7
30°	3093.2	2862.9	2303.6	1497.3	700.4	558.3	538.5	538.5	552.0	568.6	566.6
32.5°	3050.7	2791.3	2152.1	1209.9	570.7	511.6	505.3	502.2	504.3	510.5	510.5
35°	3014.4	2728.0	1996.4	905.9	511.6	485.6	479.4	472.1	469.0	464.9	466.9
37.5°	3000.9	2678.2	1835.6	682.8	482.5	466.9	456.6	446.2	438.9	436.8	435.8
40°	3022.7	2657.4	1674.8	562.4	461.8	447.2	435.8	422.3	416.1	416.1	416.1
42.5°	3107.8	2673.0	1510.8	508.4	447.2	430.6	414.0	401.6	399.5	401.6	402.6
45°	3263.4	2733.2	1340.6	481.5	434.8	414.0	394.3	385.0	385.0	387.0	387.0
47.5°	3541.5	2890.9	1172.5	464.9	422.3	400.5	379.8	370.4	369.4	371.5	371.5
50°	4023.0	3175.2	1021.0	453.5	413.0	390.2	369.4	357.0	353.8	352.8	352.8
52.5°	4630.0	3668.1	924.5	445.2	401.6	378.7	358.0	341.4	335.2	332.0	332.0
55°	5363.6	4324.9	924.5	438.9	387.0	365.3	341.4	324.8	315.4	311.3	311.3
57.5°	6194.8	5089.7	1084.3	433.7	375.6	349.7	323.7	307.1	296.8	290.5	290.5
60°	7040.4	5898.0	1479.7	426.5	365.3	330.0	304.0	288.5	275.0	267.7	266.7
62.5°	7917.2	6788.3	2000.6	430.6	358.0	311.3	283.3	265.6	254.2	247.0	245.9
65°	8720.4	7636.0	2456.1	462.8	359.0	294.7	259.4	243.8	234.5	225.2	224.1
67.5°	9402.1	8104.0	2136.5	528.2	380.8	275.0	235.5	220.0	211.7	205.5	204.4
70°	8924.8	7390.1	1212.0	568.6	410.9	254.2	208.6	198.2	189.9	185.7	184.7
72.5°	7631.9	6257.0	810.4	502.2	374.6	227.2	183.7	175.4	169.1	163.9	162.9
75°	6182.3	4962.0	619.5	411.9	291.6	184.7	157.7	151.5	145.3	140.1	139.0
77.5°	3657.7	2867.0	456.6	325.8	205.5	144.2	130.7	125.6	119.3	115.2	114.1
80°	1167.4	996.1	289.5	224.1	135.9	111.0	100.7	96.5	90.3	85.1	84.0
82.5°	445.2	385.0	153.6	114.1	90.3	75.7	67.4	63.3	59.1	54.0	52.9
85°	197.2	184.7	85.1	61.2	48.8	37.4	33.2	31.1	25.9	21.8	20.8
87.5°	69.5	69.5	36.3	17.6	10.4	5.2	3.1	1.0	0.0	0.0	0.0
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)