

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: P637042

Luminaire Tested: GWS-SA4C-722-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637042
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-SA4C-722-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14051 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

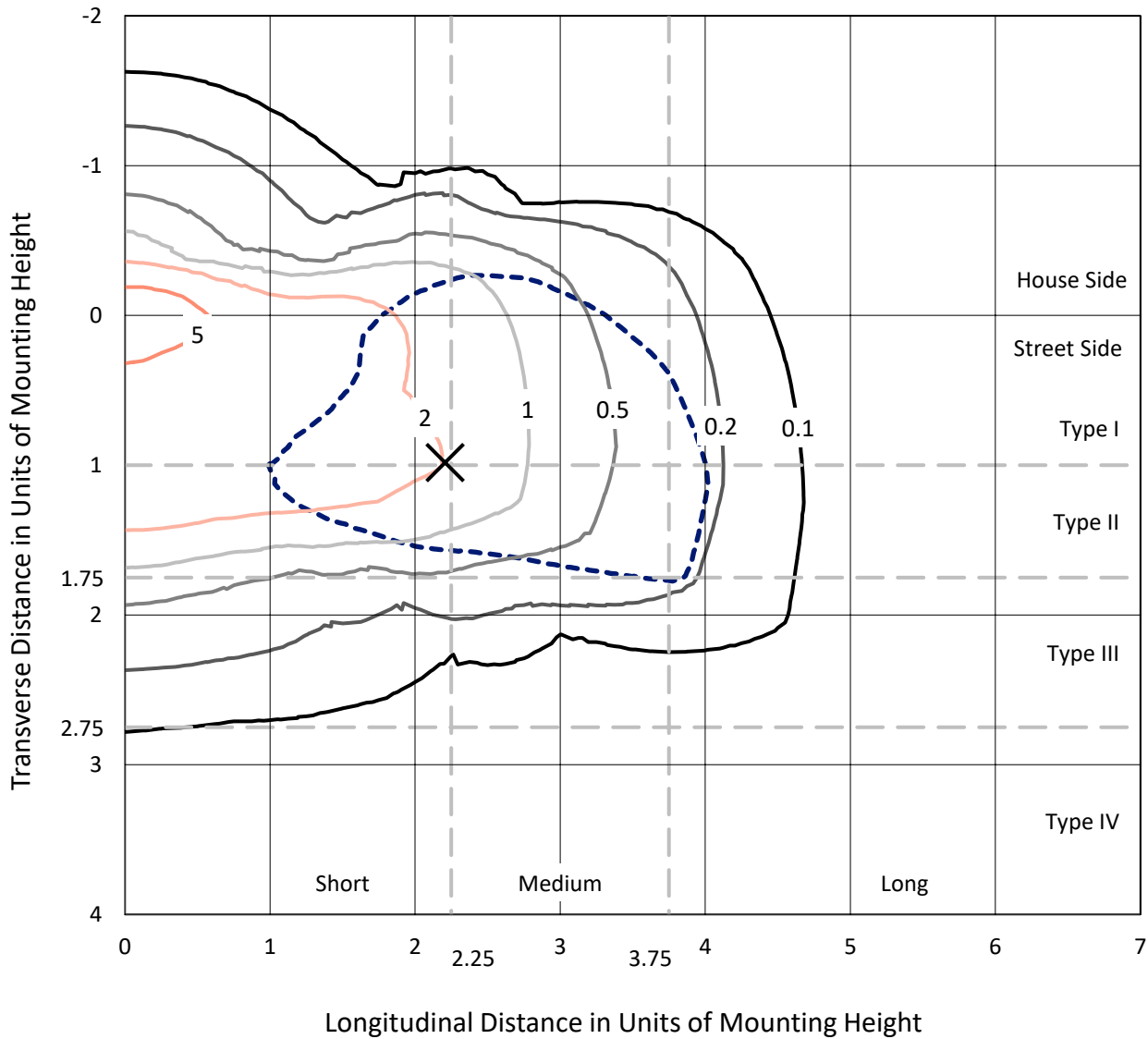
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

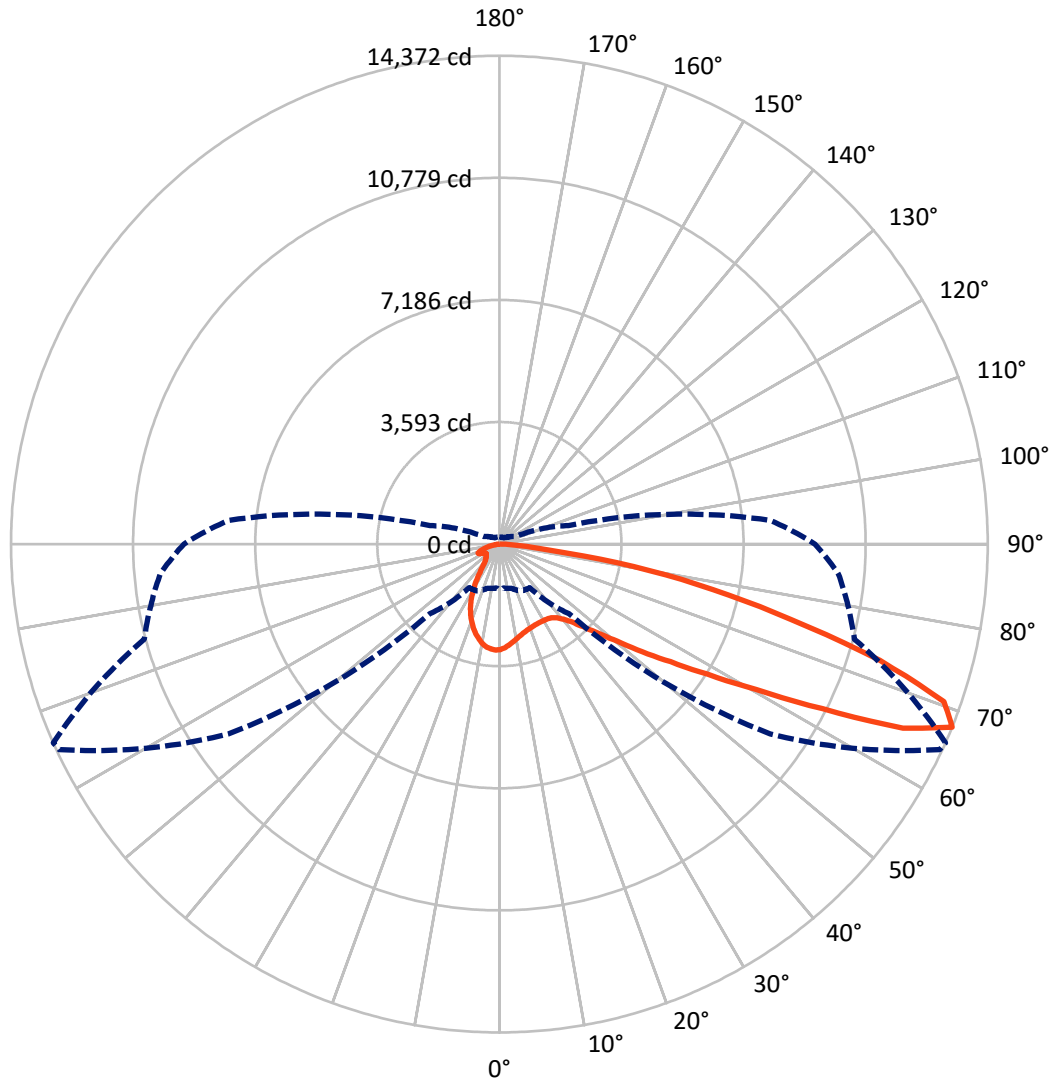
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.8 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
House Side	Lumens	2851.3	0.0	2851.3
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	11199.7	0.0	11199.7
	% Fixture	79.7	0.0	79.7
Total	Lumens	14051.0	0.0	14051.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.5	1.9
10°-20°	669.7	4.8
20°-30°	920.5	6.6
30°-40°	1258.5	9.0
40°-50°	1906.9	13.6
50°-60°	2964.3	21.1
60°-70°	3609.0	25.7
70°-80°	2198.4	15.6
80°-90°	251.1	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°	14051.0	100.0
0°-180°	14051.0	100.0

Coefficient of Utilization



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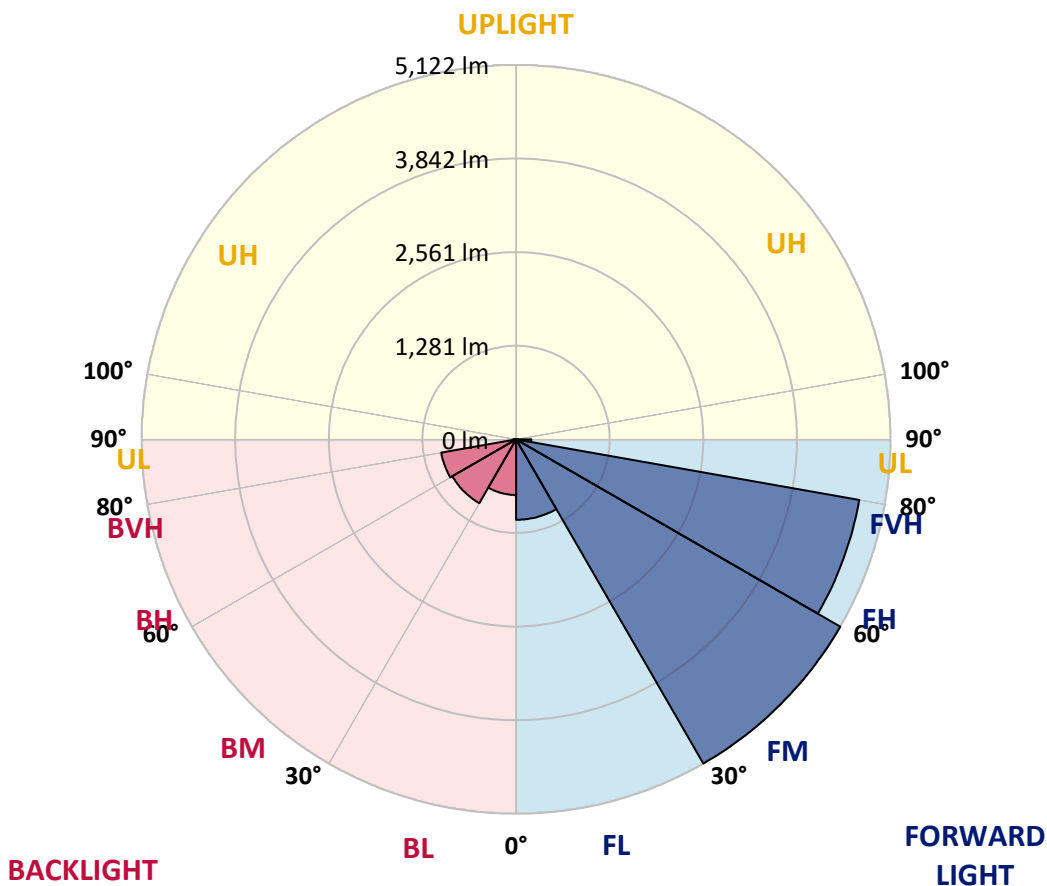
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1101.0	7.8			
FM (30°-60°)	5122.1	36.5			
FH (60°-80°)	4767.9	33.9			G2/5000
FVH (80°-90°)	208.8	1.5			G2/225
BL (0°-30°)	761.7	5.4	B2/1000		
BM (30°-60°)	1007.6	7.2	B2/2500		
BH (60°-80°)	1039.6	7.4	B3/2500		G3/2500
BVH (80°-90°)	42.3	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°	3104.9	3104.9	3104.9	3104.9	3104.9	3104.9	3104.9	3104.9	3104.9	3104.9	3104.9
2.5°	2908.1	2918.3	2912.2	2951.1	2953.2	3002.4	3030.0	3053.6	3055.7	3086.4	3106.9
5°	2709.2	2715.4	2715.4	2752.3	2776.9	2842.5	2906.0	2973.7	2978.8	3052.6	3109.0
7.5°	2548.3	2554.4	2550.3	2599.5	2631.3	2704.1	2785.1	2888.6	2898.8	3017.7	3116.1
10°	2422.2	2420.1	2430.4	2475.5	2516.5	2603.6	2693.8	2811.7	2827.1	2977.8	3124.3
12.5°	2336.1	2338.1	2344.3	2391.4	2435.5	2521.6	2614.9	2743.0	2759.4	2931.6	3120.2
15°	2295.1	2291.0	2296.1	2339.2	2381.2	2457.0	2553.4	2685.6	2702.0	2890.6	3121.3
17.5°	2285.9	2282.8	2281.8	2312.5	2344.3	2415.0	2507.3	2641.6	2659.0	2864.0	3127.4
20°	2314.6	2310.5	2299.2	2312.5	2325.8	2385.3	2474.5	2609.8	2629.2	2846.6	3139.7
22.5°	2393.5	2386.3	2368.9	2352.5	2335.1	2370.9	2454.0	2586.2	2605.7	2835.3	3152.0
25°	2513.4	2507.3	2488.8	2451.9	2388.4	2382.2	2449.9	2575.9	2595.4	2827.1	3157.1
27.5°	2678.5	2669.2	2650.8	2597.5	2493.9	2424.2	2465.2	2574.9	2593.4	2817.9	3152.0
30°	2874.2	2868.1	2857.8	2793.3	2654.9	2513.4	2500.1	2583.1	2597.5	2812.7	3141.8
32.5°	3073.1	3066.9	3075.1	3044.4	2874.2	2661.0	2575.9	2605.7	2615.9	2811.7	3132.5
35°	3248.4	3255.6	3315.0	3320.1	3153.0	2860.9	2695.9	2658.0	2660.0	2832.2	3136.6
37.5°	3431.9	3459.5	3537.4	3604.1	3464.7	3125.4	2874.2	2756.4	2754.3	2884.5	3162.3
40°	3674.8	3687.1	3786.5	3911.6	3824.5	3488.2	3127.4	2917.3	2902.9	2991.1	3231.0
42.5°	3911.6	3941.3	4100.2	4243.7	4215.0	3897.2	3446.2	3158.2	3132.5	3179.7	3372.4
45°	4212.9	4241.7	4420.0	4604.5	4656.8	4359.5	3854.2	3500.5	3474.9	3463.6	3631.7
47.5°	4514.3	4544.0	4703.9	4970.5	5153.9	4937.7	4385.2	3952.6	3910.6	3866.5	4023.3
50°	4717.3	4752.1	4904.9	5224.7	5655.2	5659.3	5014.5	4545.1	4491.8	4422.1	4574.8
52.5°	4710.1	4732.6	4878.2	5247.2	6016.0	6488.6	5857.1	5299.5	5256.4	5104.7	5238.0
55°	4340.1	4373.9	4520.5	4981.7	6055.0	7274.8	7095.4	6189.2	6112.4	5840.7	5987.3
57.5°	3596.9	3625.6	3773.2	4342.1	5709.5	7677.6	8667.8	7322.9	7217.4	6642.3	6811.4
60°	2715.4	2680.5	2750.2	3248.4	4883.3	7687.9	10055.7	8860.5	8684.2	7499.3	7640.7
62.5°	2037.8	2002.9	2018.3	2158.8	3310.9	7066.7	10847.1	10963.9	10672.8	8466.9	8439.2
65°	1610.4	1590.9	1635.0	1731.3	1930.2	5381.5	10853.2	13238.5	13055.0	9588.3	9258.2
67.5°	1312.1	1299.8	1344.9	1523.2	1565.2	2891.7	9731.8	14300.5	14372.2	10816.3	10017.8
70°	1056.8	1038.4	1109.1	1343.8	1455.6	1749.8	6971.4	13759.2	13875.1	11548.2	9803.6
72.5°	729.8	730.9	766.7	1088.6	1405.3	1510.9	3943.4	11457.0	11708.1	10885.0	8618.6
75°	492.0	496.1	506.4	718.6	1294.6	1465.8	2101.3	8674.0	8851.3	8996.9	7124.1
77.5°	297.3	299.3	322.9	434.6	892.8	1368.4	1423.8	6287.6	6427.1	5930.9	4415.9
80°	172.2	179.4	200.9	291.1	602.7	1028.1	1101.9	3855.2	4013.1	2636.4	1403.3
82.5°	75.9	81.0	109.7	169.1	351.6	874.4	860.0	1523.2	1500.7	735.0	486.9
85°	13.3	16.4	23.6	53.3	129.2	461.3	667.3	672.4	632.5	278.8	201.9
87.5°	0.0	0.0	0.0	0.0	0.0	3.1	100.5	180.4	179.4	78.9	69.7
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°	3104.9	3104.9	3104.9	3104.9	3104.9	3104.9	3104.9	3104.9	3104.9	3104.9	3104.9
2.5°	3120.2	3092.6	3117.2	3120.2	3115.1	3111.0	3080.3	3053.6	3050.5	3021.8	3021.8
5°	3131.5	3105.9	3118.2	3094.6	3057.7	3019.8	2954.2	2909.1	2888.6	2851.7	2851.7
7.5°	3146.9	3120.2	3105.9	3047.5	2961.4	2878.3	2772.8	2684.6	2648.7	2596.4	2594.4
10°	3161.2	3127.4	3078.2	2964.4	2827.1	2694.9	2541.1	2416.0	2331.0	2268.4	2268.4
12.5°	3160.2	3116.1	3018.8	2850.7	2661.0	2469.3	2264.3	2075.7	1963.0	1865.6	1859.4
15°	3158.2	3097.7	2942.9	2718.4	2467.3	2201.8	1923.0	1677.0	1509.9	1414.6	1406.4
17.5°	3156.1	3074.1	2857.8	2567.7	2231.5	1869.7	1501.7	1235.2	1095.8	1037.3	1039.4
20°	3156.1	3047.5	2766.6	2394.5	1959.9	1472.0	1101.9	908.2	873.3	876.4	879.5
22.5°	3146.9	3014.7	2665.1	2205.9	1657.5	1082.5	812.9	747.3	765.7	794.4	798.5
25°	3125.4	2960.3	2547.2	1996.8	1297.7	788.3	663.2	650.9	684.7	720.6	730.9
27.5°	3091.5	2897.8	2415.0	1751.8	955.3	633.5	583.3	582.2	608.9	635.5	644.8
30°	3055.7	2828.1	2275.6	1479.1	691.9	551.5	532.0	532.0	545.3	561.7	559.7
32.5°	3013.6	2757.4	2126.0	1195.2	563.8	505.3	499.2	496.1	498.2	504.3	504.3
35°	2977.8	2694.9	1972.2	894.9	505.3	479.7	473.6	466.4	463.3	459.2	461.3
37.5°	2964.4	2645.7	1813.3	674.5	476.6	461.3	451.0	440.8	433.6	431.5	430.5
40°	2986.0	2625.1	1654.4	555.6	456.1	441.8	430.5	417.2	411.0	411.0	411.0
42.5°	3070.0	2640.5	1492.5	502.3	441.8	425.4	409.0	396.7	394.6	396.7	397.7
45°	3223.8	2700.0	1324.4	475.6	429.5	409.0	389.5	380.3	380.3	382.3	382.3
47.5°	3498.5	2855.8	1158.3	459.2	417.2	395.7	375.2	365.9	364.9	367.0	367.0
50°	3974.1	3136.6	1008.6	447.9	408.0	385.4	364.9	352.6	349.5	348.5	348.5
52.5°	4573.8	3623.5	913.3	439.7	396.7	374.1	353.6	337.2	331.1	328.0	328.0
55°	5298.5	4272.4	913.3	433.6	382.3	360.8	337.2	320.8	311.6	307.5	307.5
57.5°	6119.5	5027.9	1071.2	428.5	371.1	345.4	319.8	303.4	293.2	287.0	287.0
60°	6955.0	5826.4	1461.7	421.3	360.8	326.0	300.3	285.0	271.6	264.5	263.4
62.5°	7821.1	6705.9	1976.3	425.4	353.6	307.5	279.8	262.4	251.1	244.0	242.9
65°	8614.5	7543.3	2426.3	457.2	354.7	291.1	256.3	240.9	231.7	222.4	221.4
67.5°	9288.0	8005.6	2110.6	521.7	376.2	271.6	232.7	217.3	209.1	203.0	201.9
70°	8816.4	7300.4	1197.3	561.7	405.9	251.1	206.0	195.8	187.6	183.5	182.5
72.5°	7539.2	6181.0	800.6	496.1	370.0	224.5	181.4	173.2	167.1	162.0	160.9
75°	6107.2	4901.8	612.0	406.9	288.0	182.5	155.8	149.7	143.5	138.4	137.4
77.5°	3613.3	2832.2	451.0	321.9	203.0	142.5	129.2	124.0	117.9	113.8	112.8
80°	1153.2	984.0	286.0	221.4	134.3	109.7	99.4	95.3	89.2	84.1	83.0
82.5°	439.7	380.3	151.7	112.8	89.2	74.8	66.6	62.5	58.4	53.3	52.3
85°	194.8	182.5	84.1	60.5	48.2	36.9	32.8	30.8	25.6	21.5	20.5
87.5°	68.7	68.7	35.9	17.4	10.3	5.1	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)