

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: P636877

Luminaire Tested: GWS-SA4B-760-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636877
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-760-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14350.3 lumens
Efficiency: N/A
Efficacy: 152.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

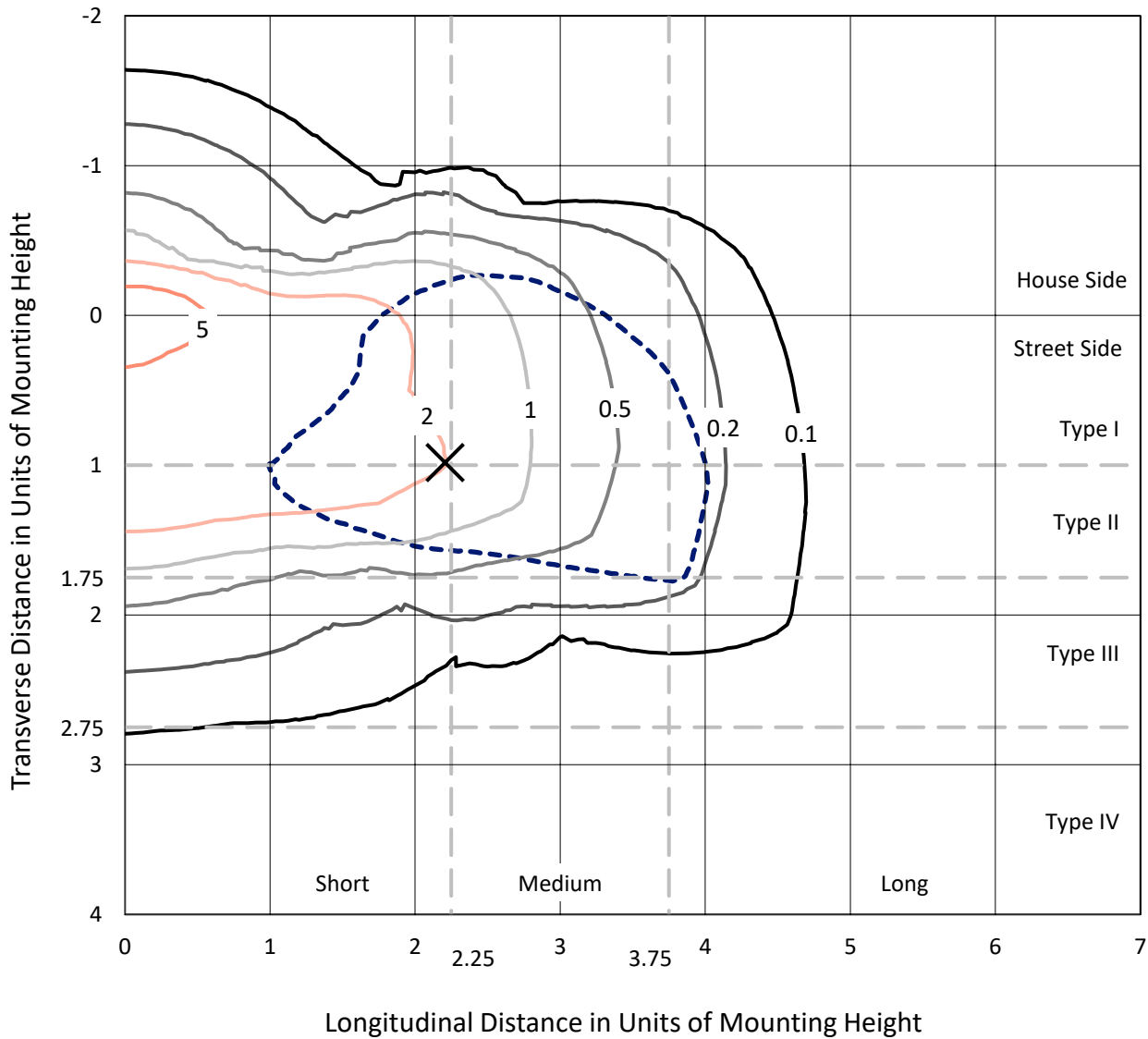
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

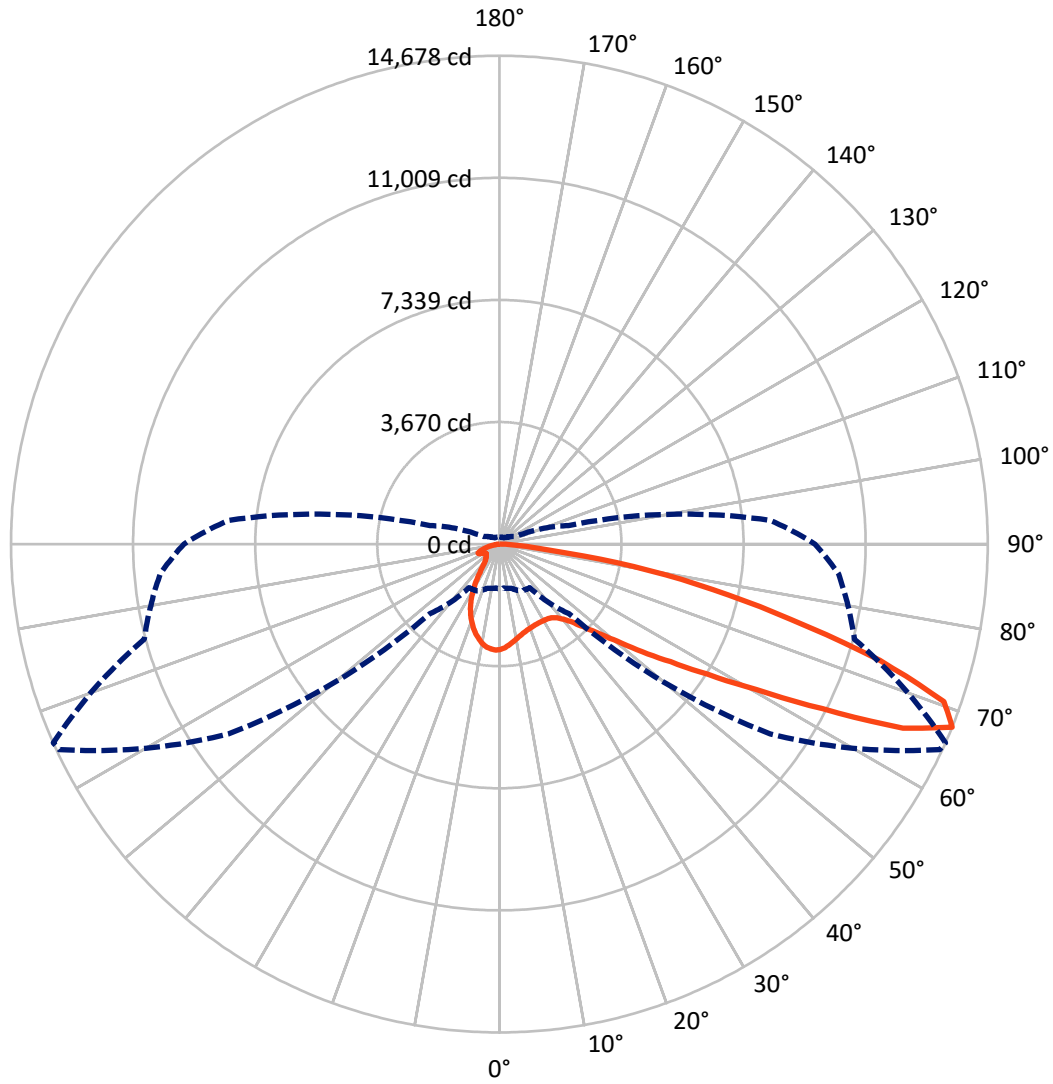
✕ Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	2912.0	0.0	2912.0
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	11438.3	0.0	11438.3
	% Fixture	79.7	0.0	79.7
Total	Lumens	14350.3	0.0	14350.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.3	1.9
10°-20°	683.9	4.8
20°-30°	940.1	6.6
30°-40°	1285.3	9.0
40°-50°	1947.5	13.6
50°-60°	3027.5	21.1
60°-70°	3685.9	25.7
70°-80°	2245.3	15.6
80°-90°	256.5	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°	14350.3	100.0
0°-180°	14350.3	100.0

Coefficient of Utilization



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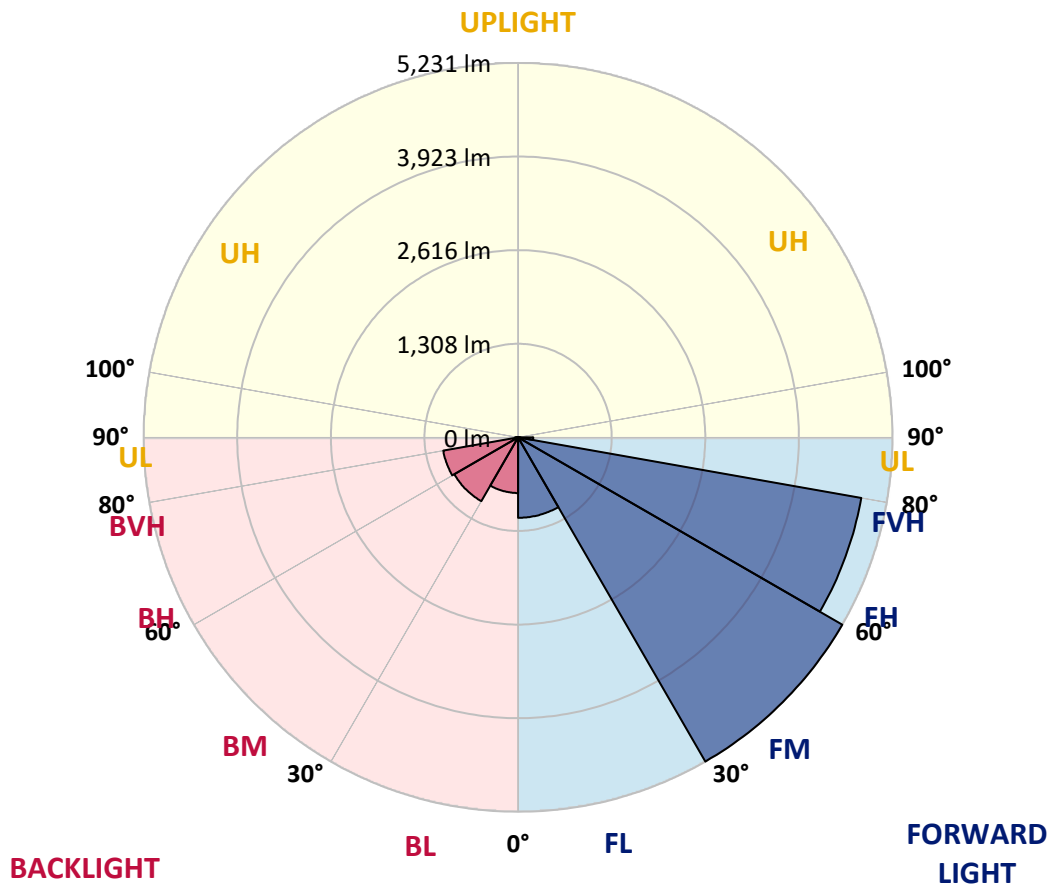
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1124.4	7.8			
FM (30°-60°)	5231.2	36.5			
FH (60°-80°)	4869.4	33.9			G2/5000
FVH (80°-90°)	213.2	1.5			G2/225
BL (0°-30°)	777.9	5.4	B2/1000		
BM (30°-60°)	1029.1	7.2	B2/2500		
BH (60°-80°)	1061.8	7.4	B3/2500		G3/2500
BVH (80°-90°)	43.2	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°	3171.0	3171.0	3171.0	3171.0	3171.0	3171.0	3171.0	3171.0	3171.0	3171.0	3171.0
2.5°	2970.0	2980.5	2974.2	3014.0	3016.1	3066.3	3094.6	3118.7	3120.8	3152.2	3173.1
5°	2766.9	2773.2	2773.2	2810.9	2836.0	2903.0	2967.9	3037.0	3042.2	3117.6	3175.2
7.5°	2602.6	2608.8	2604.6	2654.9	2687.3	2761.7	2844.4	2950.1	2960.6	3082.0	3182.5
10°	2473.8	2471.7	2482.2	2528.2	2570.1	2659.1	2751.2	2871.6	2887.3	3041.2	3190.9
12.5°	2385.8	2387.9	2394.2	2442.4	2487.4	2575.3	2670.6	2801.5	2818.2	2994.1	3186.7
15°	2344.0	2339.8	2345.0	2389.0	2431.9	2509.4	2607.8	2742.8	2759.6	2952.2	3187.8
17.5°	2334.5	2331.4	2330.4	2361.8	2394.2	2466.5	2560.7	2697.8	2715.6	2925.0	3194.0
20°	2363.9	2359.7	2348.2	2361.8	2375.4	2436.1	2527.2	2665.4	2685.3	2907.2	3206.6
22.5°	2444.5	2437.1	2419.3	2402.6	2384.8	2421.4	2506.2	2641.3	2661.2	2895.7	3219.2
25°	2567.0	2560.7	2541.8	2504.1	2439.2	2433.0	2502.1	2630.8	2650.7	2887.3	3224.4
27.5°	2735.5	2726.1	2707.2	2652.8	2547.1	2475.9	2517.8	2629.8	2648.6	2877.9	3219.2
30°	2935.5	2929.2	2918.7	2852.8	2711.4	2567.0	2553.3	2638.1	2652.8	2872.6	3208.7
32.5°	3138.6	3132.3	3140.6	3109.2	2935.5	2717.7	2630.8	2661.2	2671.6	2871.6	3199.3
35°	3317.6	3324.9	3385.6	3390.9	3220.2	2921.9	2753.3	2714.6	2716.7	2892.5	3203.5
37.5°	3505.0	3533.2	3612.8	3680.8	3538.5	3191.9	2935.5	2815.1	2813.0	2945.9	3229.6
40°	3753.1	3765.6	3867.2	3994.9	3905.9	3562.5	3194.0	2979.4	2964.8	3054.8	3299.8
42.5°	3994.9	4025.3	4187.5	4334.1	4304.8	3980.2	3519.6	3225.4	3199.3	3247.4	3444.2
45°	4302.7	4332.0	4514.2	4702.6	4756.0	4452.4	3936.3	3575.1	3548.9	3537.4	3709.1
47.5°	4610.5	4640.8	4804.1	5076.3	5263.7	5042.8	4478.6	4036.8	3993.9	3948.8	4109.0
50°	4817.8	4853.4	5009.3	5336.0	5775.7	5779.8	5121.4	4641.9	4587.4	4516.3	4672.2
52.5°	4810.4	4833.5	4982.1	5359.0	6144.2	6626.8	5981.9	5412.4	5368.4	5213.5	5349.6
55°	4432.5	4467.1	4616.8	5087.9	6183.9	7429.7	7246.5	6321.1	6242.6	5965.1	6114.8
57.5°	3673.5	3702.8	3853.6	4434.6	5831.1	7841.2	8852.4	7478.9	7371.1	6783.8	6956.5
60°	2773.2	2737.6	2808.8	3317.6	4987.4	7851.6	10269.9	9049.3	8869.2	7659.0	7803.5
62.5°	2081.2	2045.6	2061.3	2204.7	3381.4	7217.2	11078.1	11197.5	10900.1	8647.3	8619.0
65°	1644.7	1624.8	1669.8	1768.2	1971.3	5496.1	11084.4	13520.5	13333.1	9792.5	9455.4
67.5°	1340.0	1327.4	1373.5	1555.7	1598.6	2953.3	9939.1	14605.1	14678.3	11046.7	10231.2
70°	1079.3	1060.5	1132.7	1372.5	1486.6	1787.0	7119.9	14052.3	14170.6	11794.2	10012.4
72.5°	745.4	746.4	783.1	1111.8	1435.3	1543.1	4027.4	11701.0	11957.5	11116.9	8802.2
75°	502.5	506.7	517.2	733.9	1322.2	1497.0	2146.1	8858.7	9039.8	9188.5	7275.8
77.5°	303.6	305.7	329.8	443.9	911.8	1397.6	1454.1	6421.6	6564.0	6057.3	4510.0
80°	175.9	183.2	205.2	297.3	615.6	1050.0	1125.4	3937.3	4098.5	2692.6	1433.2
82.5°	77.5	82.7	112.0	172.7	359.1	893.0	878.3	1555.7	1532.6	750.6	497.3
85°	13.6	16.8	24.1	54.4	131.9	471.1	681.5	686.8	645.9	284.8	206.2
87.5°	0.0	0.0	0.0	0.0	0.0	3.1	102.6	184.3	183.2	80.6	71.2
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°	3171.0	3171.0	3171.0	3171.0	3171.0	3171.0	3171.0	3171.0	3171.0	3171.0	3171.0
2.5°	3186.7	3158.4	3183.6	3186.7	3181.5	3177.3	3145.9	3118.7	3115.5	3086.2	3086.2
5°	3198.2	3172.1	3184.6	3160.5	3122.9	3084.1	3017.1	2971.1	2950.1	2912.4	2912.4
7.5°	3213.9	3186.7	3172.1	3112.4	3024.4	2939.6	2831.8	2741.8	2705.1	2651.8	2649.7
10°	3228.6	3194.0	3143.8	3027.6	2887.3	2752.3	2595.2	2467.5	2380.6	2316.8	2316.8
12.5°	3227.5	3182.5	3083.1	2911.4	2717.7	2521.9	2312.6	2119.9	2004.8	1905.3	1899.0
15°	3225.4	3163.7	3005.6	2776.3	2519.8	2248.7	1964.0	1712.7	1542.1	1444.7	1436.3
17.5°	3223.4	3139.6	2918.7	2622.4	2279.1	1909.5	1533.7	1261.5	1119.1	1059.4	1061.5
20°	3223.4	3112.4	2825.5	2445.5	2001.6	1503.3	1125.4	927.5	891.9	895.1	898.2
22.5°	3213.9	3078.9	2721.9	2252.9	1692.8	1105.5	830.2	763.2	782.0	811.3	815.5
25°	3191.9	3023.4	2601.5	2039.3	1325.4	805.1	677.3	664.8	699.3	736.0	746.4
27.5°	3157.4	2959.5	2466.5	1789.1	975.7	647.0	595.7	594.6	621.8	649.1	658.5
30°	3120.8	2888.4	2324.1	1510.7	706.6	563.2	543.3	543.3	556.9	573.7	571.6
32.5°	3077.8	2816.1	2171.2	1220.7	575.8	516.1	509.8	506.7	508.8	515.1	515.1
35°	3041.2	2752.3	2014.2	913.9	516.1	489.9	483.7	476.3	473.2	469.0	471.1
37.5°	3027.6	2702.0	1851.9	688.8	486.8	471.1	460.6	450.2	442.8	440.7	439.7
40°	3049.6	2681.1	1689.7	567.4	465.9	451.2	439.7	426.1	419.8	419.8	419.8
42.5°	3135.4	2696.8	1524.3	513.0	451.2	434.5	417.7	405.1	403.0	405.1	406.2
45°	3292.4	2757.5	1352.6	485.8	438.6	417.7	397.8	388.4	388.4	390.5	390.5
47.5°	3573.0	2916.6	1183.0	469.0	426.1	404.1	383.2	373.7	372.7	374.8	374.8
50°	4058.8	3203.5	1030.1	457.5	416.7	393.6	372.7	360.1	357.0	355.9	355.9
52.5°	4671.2	3700.7	932.8	449.1	405.1	382.1	361.2	344.4	338.1	335.0	335.0
55°	5411.3	4363.4	932.8	442.8	390.5	368.5	344.4	327.7	318.3	314.1	314.1
57.5°	6249.9	5135.0	1094.0	437.6	379.0	352.8	326.6	309.9	299.4	293.1	293.1
60°	7103.1	5950.5	1492.9	430.3	368.5	332.9	306.7	291.0	277.4	270.1	269.0
62.5°	7987.7	6848.7	2018.4	434.5	361.2	314.1	285.8	268.0	256.5	249.2	248.1
65°	8798.0	7704.0	2478.0	466.9	362.2	297.3	261.7	246.0	236.6	227.2	226.1
67.5°	9485.8	8176.2	2155.5	532.9	384.2	277.4	237.6	221.9	213.6	207.3	206.2
70°	9004.2	7455.9	1222.8	573.7	414.6	256.5	210.4	200.0	191.6	187.4	186.3
72.5°	7699.8	6312.7	817.6	506.7	377.9	229.3	185.3	176.9	170.6	165.4	164.4
75°	6237.3	5006.2	625.0	415.6	294.2	186.3	159.1	152.8	146.6	141.3	140.3
77.5°	3690.3	2892.5	460.6	328.7	207.3	145.5	131.9	126.7	120.4	116.2	115.2
80°	1177.7	1005.0	292.1	226.1	137.1	112.0	101.5	97.4	91.1	85.8	84.8
82.5°	449.1	388.4	154.9	115.2	91.1	76.4	68.0	63.9	59.7	54.4	53.4
85°	198.9	186.3	85.8	61.8	49.2	37.7	33.5	31.4	26.2	22.0	20.9
87.5°	70.1	70.1	36.6	17.8	10.5	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)