

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: P633302

Luminaire Tested: GWS-SA2E-740-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633302
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-SA2E-740-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14338.4 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

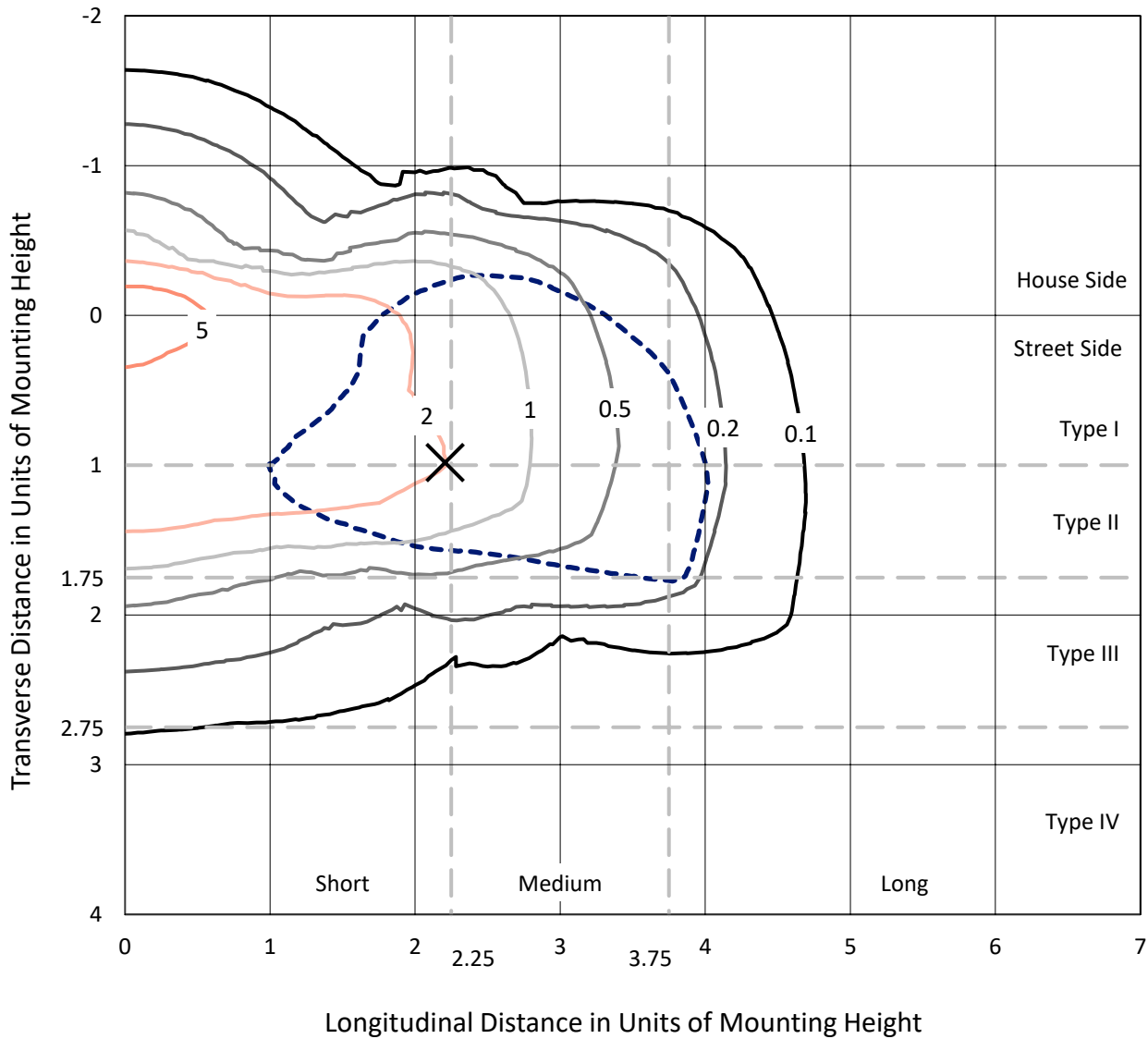
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

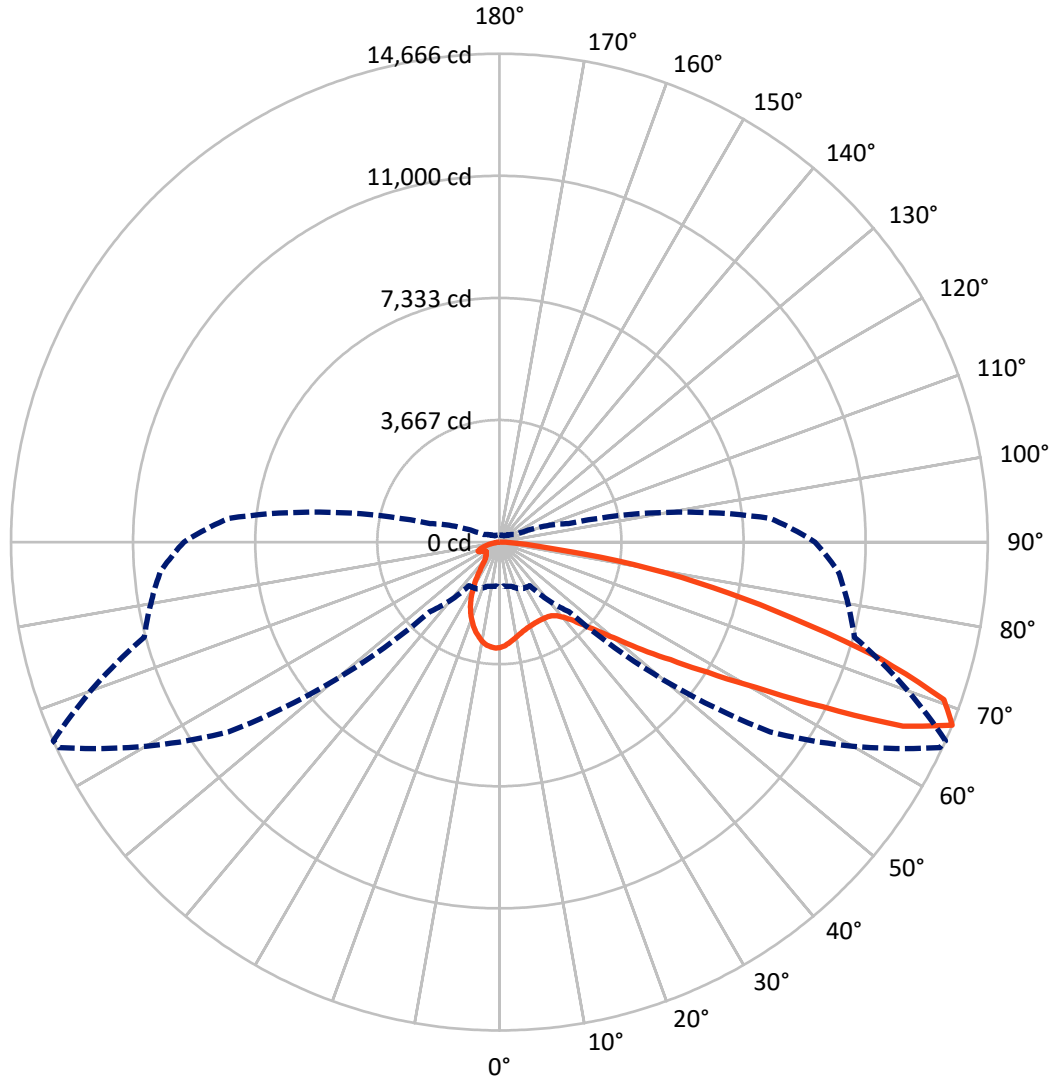
✕ Max cd
 - - - 1/2 Max cd



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	2909.6	0.0	2909.6
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	11428.8	0.0	11428.8
	% Fixture	79.7	0.0	79.7
Total	Lumens	14338.4	0.0	14338.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.1	1.9
10°-20°	683.4	4.8
20°-30°	939.3	6.6
30°-40°	1284.2	9.0
40°-50°	1945.9	13.6
50°-60°	3025.0	21.1
60°-70°	3682.8	25.7
70°-80°	2243.4	15.6
80°-90°	256.3	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°	14338.4	100.0
0°-180°	14338.4	100.0

Coefficient of Utilization



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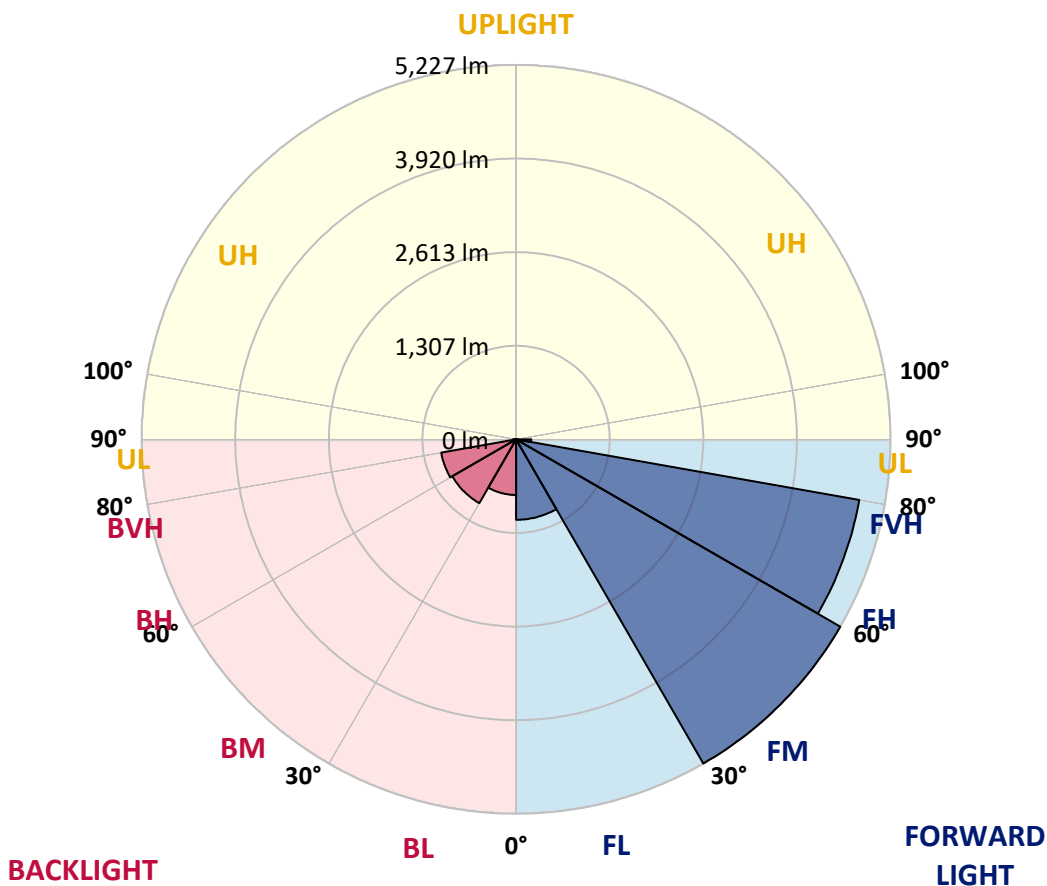
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1123.5	7.8			
FM (30°-60°)	5226.9	36.5			
FH (60°-80°)	4865.4	33.9			G2/5000
FVH (80°-90°)	213.1	1.5			G2/225
BL (0°-30°)	777.3	5.4	B2/1000		
BM (30°-60°)	1028.2	7.2	B2/2500		
BH (60°-80°)	1060.9	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°	3168.4	3168.4	3168.4	3168.4	3168.4	3168.4	3168.4	3168.4	3168.4	3168.4	3168.4
2.5°	2967.5	2978.0	2971.7	3011.5	3013.6	3063.8	3092.0	3116.1	3118.2	3149.6	3170.5
5°	2764.6	2770.9	2770.9	2808.6	2833.7	2900.6	2965.5	3034.5	3039.7	3115.0	3172.6
7.5°	2600.4	2606.7	2602.5	2652.7	2685.1	2759.4	2842.0	2947.7	2958.1	3079.5	3179.9
10°	2471.7	2469.6	2480.1	2526.1	2568.0	2656.9	2748.9	2869.2	2884.9	3038.7	3188.3
12.5°	2383.9	2386.0	2392.2	2440.4	2485.3	2573.2	2668.4	2799.1	2815.9	2991.6	3184.1
15°	2342.0	2337.8	2343.1	2387.0	2429.9	2507.3	2605.6	2740.6	2757.3	2949.8	3185.1
17.5°	2332.6	2329.5	2328.4	2359.8	2392.2	2464.4	2558.6	2695.6	2713.4	2922.6	3191.4
20°	2361.9	2357.7	2346.2	2359.8	2373.4	2434.1	2525.1	2663.2	2683.0	2904.8	3203.9
22.5°	2442.4	2435.1	2417.3	2400.6	2382.8	2419.4	2504.2	2639.1	2659.0	2893.3	3216.5
25°	2564.8	2558.6	2539.7	2502.1	2437.2	2430.9	2500.0	2628.6	2648.5	2884.9	3221.7
27.5°	2733.2	2723.8	2705.0	2650.6	2545.0	2473.8	2515.7	2627.6	2646.4	2875.5	3216.5
30°	2933.0	2926.7	2916.3	2850.4	2709.2	2564.8	2551.2	2636.0	2650.6	2870.3	3206.0
32.5°	3136.0	3129.7	3138.0	3106.7	2933.0	2715.5	2628.6	2659.0	2669.4	2869.2	3196.6
35°	3314.8	3322.1	3382.8	3388.0	3217.5	2919.4	2751.0	2712.3	2714.4	2890.1	3200.8
37.5°	3502.1	3530.3	3609.8	3677.8	3535.5	3189.3	2933.0	2812.7	2810.6	2943.5	3227.0
40°	3750.0	3762.5	3864.0	3991.6	3902.7	3559.6	3191.4	2977.0	2962.3	3052.3	3297.0
42.5°	3991.6	4021.9	4184.1	4330.5	4301.2	3976.9	3516.7	3222.8	3196.6	3244.7	3441.4
45°	4299.1	4328.4	4510.4	4698.7	4752.0	4448.7	3933.0	3572.1	3546.0	3534.5	3706.0
47.5°	4606.6	4637.0	4800.2	5072.1	5259.4	5038.7	4474.9	4033.4	3990.5	3945.6	4105.6
50°	4813.8	4849.3	5005.2	5331.5	5770.9	5775.0	5117.1	4638.0	4583.6	4512.5	4668.4
52.5°	4806.4	4829.5	4978.0	5354.6	6139.1	6621.3	5976.9	5407.9	5364.0	5209.2	5345.1
55°	4428.8	4463.3	4612.9	5083.6	6178.8	7423.6	7240.5	6315.8	6237.4	5960.2	6109.8
57.5°	3670.5	3699.8	3850.4	4430.9	5826.3	7834.7	8845.1	7472.7	7365.0	6778.2	6950.8
60°	2770.9	2735.3	2806.5	3314.8	4983.2	7845.1	10261.4	9041.8	8861.8	7652.6	7797.0
62.5°	2079.5	2043.9	2059.6	2202.9	3378.6	7211.2	11068.9	11188.2	10891.1	8640.1	8611.8
65°	1643.3	1623.4	1668.4	1766.7	1969.6	5491.6	11075.2	13509.3	13322.0	9784.4	9447.6
67.5°	1338.9	1326.3	1372.4	1554.4	1597.3	2950.8	9930.9	14593.0	14666.2	11037.5	10222.7
70°	1078.4	1059.6	1131.8	1371.3	1485.3	1785.5	7113.9	14040.7	14158.9	11784.4	10004.1
72.5°	744.8	745.8	782.4	1110.9	1434.1	1541.8	4024.0	11691.3	11947.6	11107.6	8794.9
75°	502.1	506.3	516.7	733.3	1321.1	1495.8	2144.3	8851.4	9032.3	9180.9	7269.8
77.5°	303.3	305.4	329.5	443.5	911.1	1396.4	1452.9	6416.3	6558.5	6052.2	4506.2
80°	175.7	183.1	205.0	297.1	615.1	1049.2	1124.5	3934.1	4095.1	2690.4	1432.0
82.5°	77.4	82.6	111.9	172.6	358.8	892.3	877.6	1554.4	1531.4	750.0	496.9
85°	13.6	16.7	24.1	54.4	131.8	470.7	681.0	686.2	645.4	284.5	206.1
87.5°	0.0	0.0	0.0	0.0	0.0	3.1	102.5	184.1	183.1	80.5	71.1
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°	3168.4	3168.4	3168.4	3168.4	3168.4	3168.4	3168.4	3168.4	3168.4	3168.4	3168.4
2.5°	3184.1	3155.8	3180.9	3184.1	3178.8	3174.7	3143.3	3116.1	3112.9	3083.7	3083.7
5°	3195.6	3169.4	3182.0	3157.9	3120.3	3081.6	3014.6	2968.6	2947.7	2910.0	2910.0
7.5°	3211.3	3184.1	3169.4	3109.8	3021.9	2937.2	2829.5	2739.5	2702.9	2649.6	2647.5
10°	3225.9	3191.4	3141.2	3025.1	2884.9	2750.0	2593.1	2465.5	2378.6	2314.8	2314.8
12.5°	3224.9	3179.9	3080.5	2909.0	2715.5	2519.9	2310.6	2118.2	2003.1	1903.7	1897.5
15°	3222.8	3161.1	3003.1	2774.0	2517.8	2246.8	1962.3	1711.3	1540.8	1443.5	1435.1
17.5°	3220.7	3137.0	2916.3	2620.3	2277.2	1907.9	1532.4	1260.4	1118.2	1058.6	1060.7
20°	3220.7	3109.8	2823.2	2443.5	2000.0	1502.1	1124.5	926.8	891.2	894.3	897.5
22.5°	3211.3	3076.3	2719.6	2251.0	1691.4	1104.6	829.5	762.5	781.4	810.7	814.8
25°	3189.3	3020.9	2599.3	2037.6	1324.3	804.4	676.8	664.2	698.7	735.3	745.8
27.5°	3154.8	2957.1	2464.4	1787.6	974.9	646.4	595.2	594.1	621.3	648.5	657.9
30°	3118.2	2886.0	2322.2	1509.4	706.1	562.8	542.9	542.9	556.5	573.2	571.1
32.5°	3075.3	2813.8	2169.4	1219.7	575.3	515.7	509.4	506.3	508.4	514.6	514.6
35°	3038.7	2750.0	2012.5	913.2	515.7	489.5	483.3	475.9	472.8	468.6	470.7
37.5°	3025.1	2699.8	1850.4	688.3	486.4	470.7	460.2	449.8	442.5	440.4	439.3
40°	3047.0	2678.8	1688.3	566.9	465.5	450.8	439.3	425.7	419.5	419.5	419.5
42.5°	3132.8	2694.5	1523.0	512.5	450.8	434.1	417.4	404.8	402.7	404.8	405.9
45°	3289.7	2755.2	1351.5	485.4	438.3	417.4	397.5	388.1	388.1	390.2	390.2
47.5°	3570.0	2914.2	1182.0	468.6	425.7	403.8	382.8	373.4	372.4	374.5	374.5
50°	4055.4	3200.8	1029.3	457.1	416.3	393.3	372.4	359.8	356.7	355.6	355.6
52.5°	4667.3	3697.7	932.0	448.7	404.8	381.8	360.9	344.1	337.9	334.7	334.7
55°	5406.9	4359.8	932.0	442.5	390.2	368.2	344.1	327.4	318.0	313.8	313.8
57.5°	6244.7	5130.7	1093.1	437.2	378.7	352.5	326.4	309.6	299.2	292.9	292.9
60°	7097.2	5945.5	1491.6	429.9	368.2	332.6	306.5	290.8	277.2	269.9	268.8
62.5°	7981.1	6843.0	2016.7	434.1	360.9	313.8	285.6	267.8	256.3	249.0	247.9
65°	8790.7	7697.6	2475.9	466.5	361.9	297.1	261.5	245.8	236.4	227.0	225.9
67.5°	9477.9	8169.4	2153.7	532.4	383.9	277.2	237.4	221.8	213.4	207.1	206.1
70°	8996.8	7449.7	1221.7	573.2	414.2	256.3	210.2	199.8	191.4	187.2	186.2
72.5°	7693.4	6307.5	816.9	506.3	377.6	229.1	185.1	176.8	170.5	165.3	164.2
75°	6232.2	5002.0	624.5	415.3	293.9	186.2	159.0	152.7	146.4	141.2	140.2
77.5°	3687.2	2890.1	460.2	328.4	207.1	145.4	131.8	126.6	120.3	116.1	115.1
80°	1176.8	1004.2	291.8	225.9	137.0	111.9	101.5	97.3	91.0	85.8	84.7
82.5°	448.7	388.1	154.8	115.1	91.0	76.4	68.0	63.8	59.6	54.4	53.3
85°	198.7	186.2	85.8	61.7	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)