

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: P636822

Luminaire Tested: GWS-SA4B-750-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636822
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-750-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14549.7 lumens
Efficiency: N/A
Efficacy: 154.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

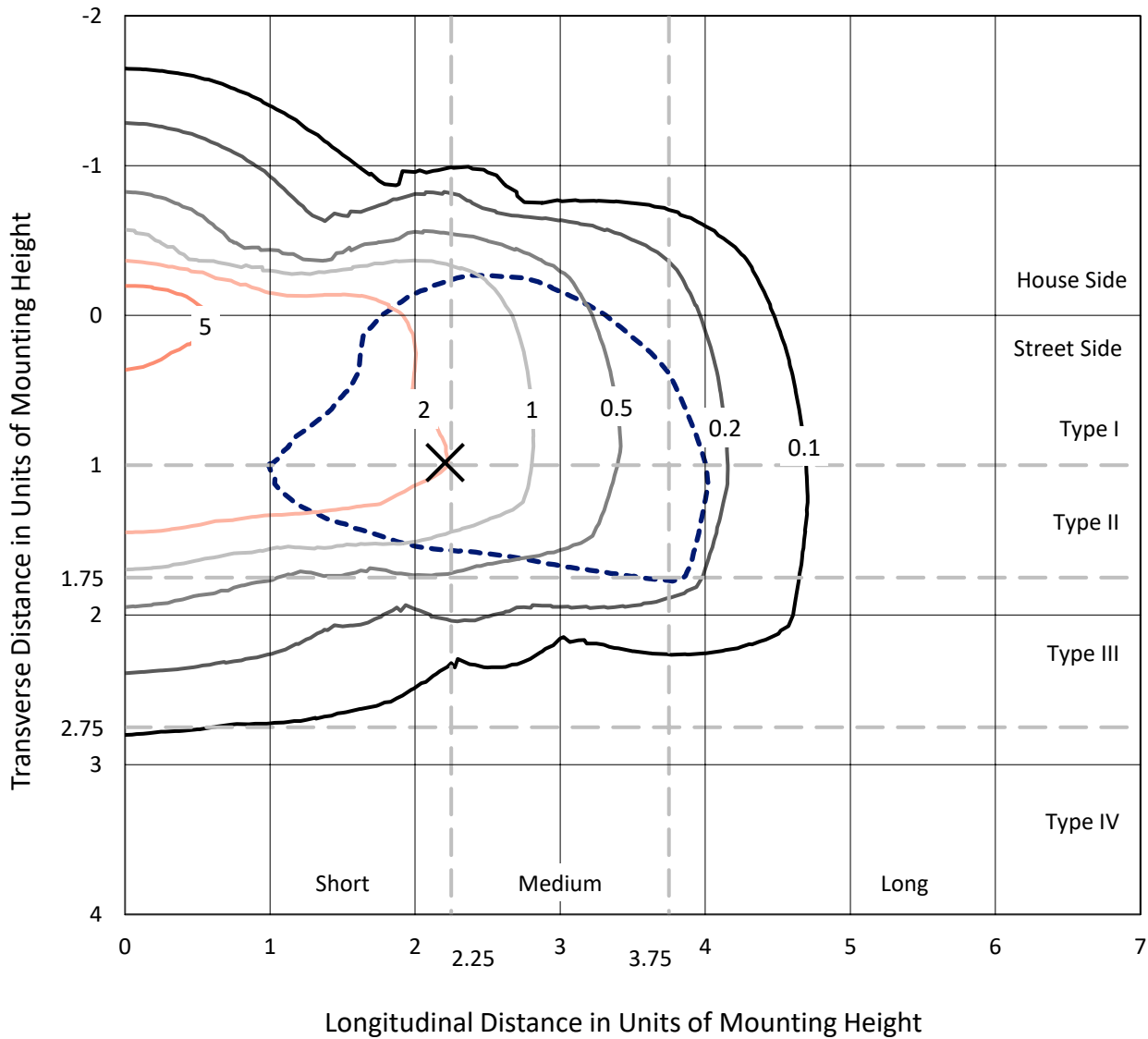
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

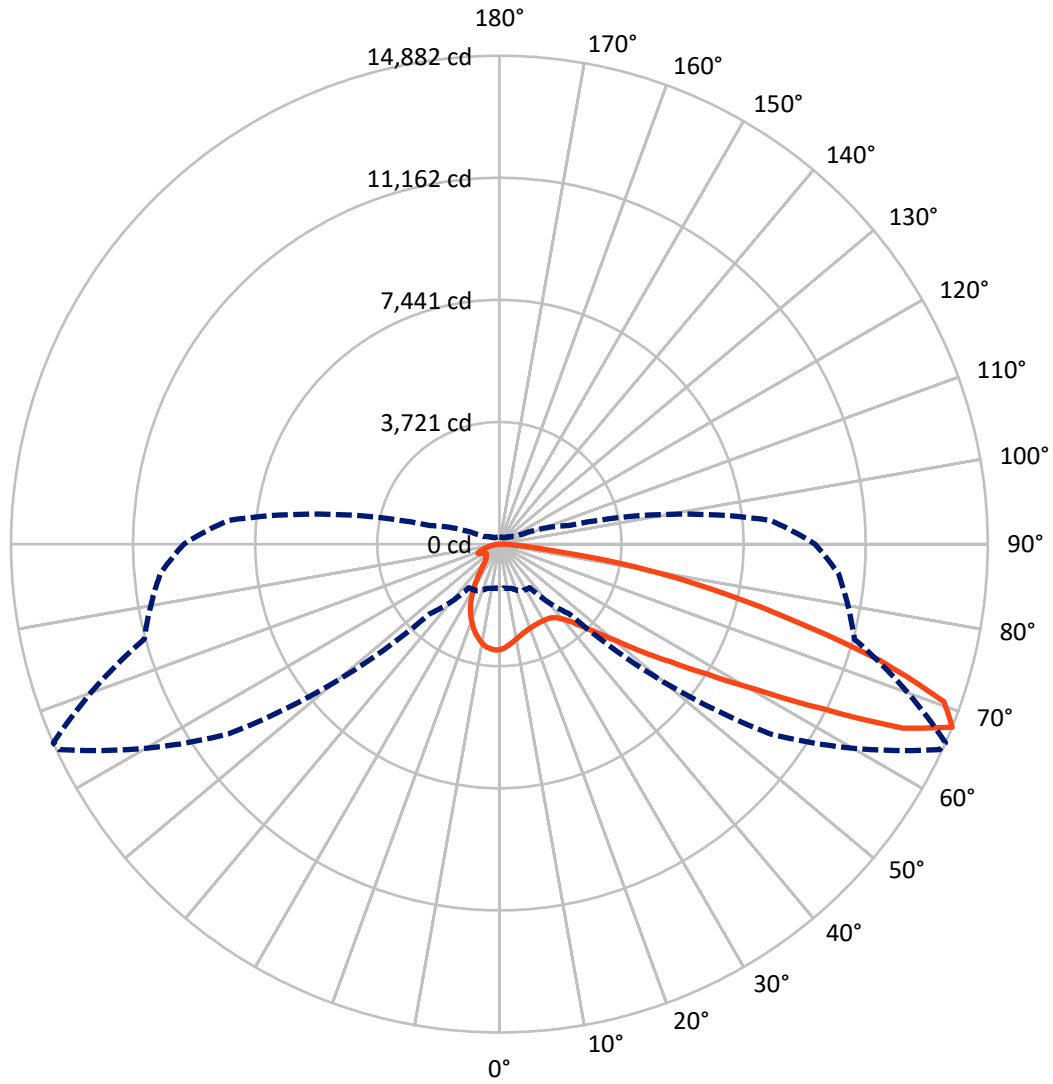
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 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	2952.5	0.0	2952.5
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	11597.2	0.0	11597.2
	% Fixture	79.7	0.0	79.7
Total	Lumens	14549.7	0.0	14549.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.2	1.9
10°-20°	693.5	4.8
20°-30°	953.2	6.6
30°-40°	1303.1	9.0
40°-50°	1974.6	13.6
50°-60°	3069.6	21.1
60°-70°	3737.1	25.7
70°-80°	2276.5	15.6
80°-90°	260.0	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°	14549.7	100.0
0°-180°	14549.7	100.0

Coefficient of Utilization



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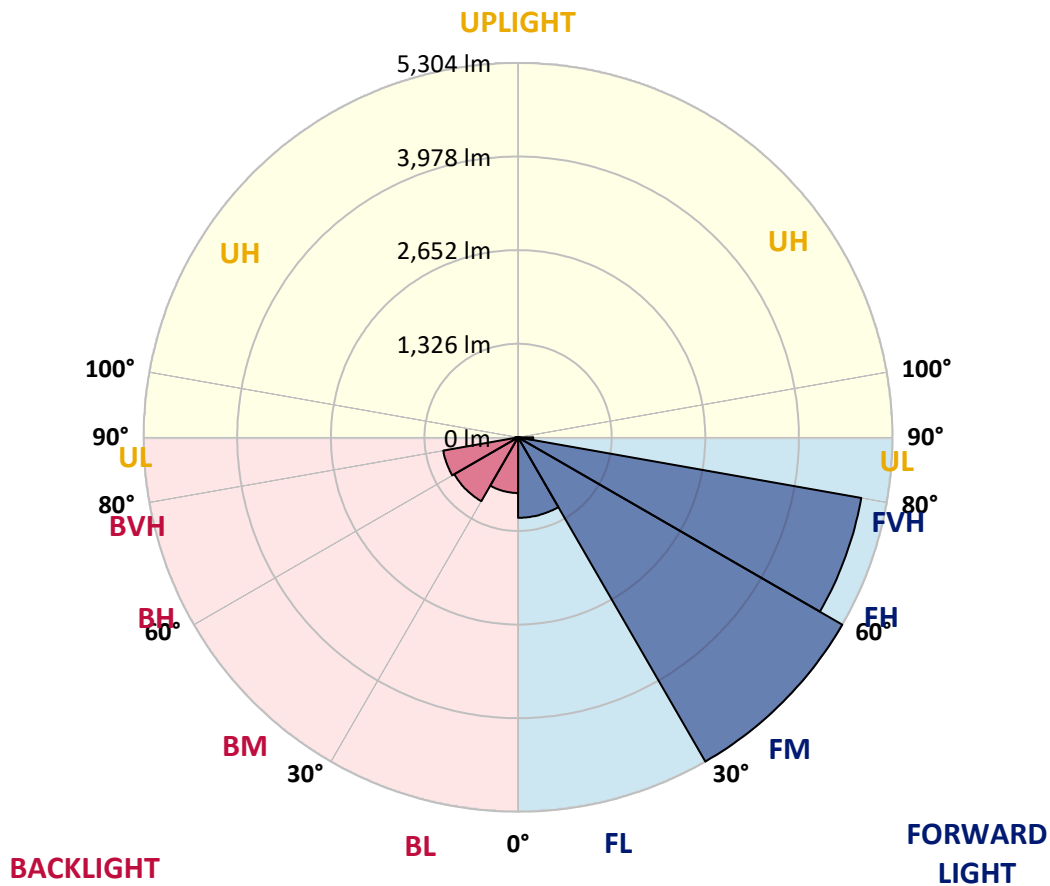
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1140.0	7.8			
FM (30°-60°)	5303.9	36.5			
FH (60°-80°)	4937.1	33.9			G2/5000
FVH (80°-90°)	216.2	1.5			G2/225
BL (0°-30°)	788.7	5.4	B2/1000		
BM (30°-60°)	1043.4	7.2	B2/2500		
BH (60°-80°)	1076.5	7.4	B3/2500		G3/2500
BVH (80°-90°)	43.8	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°	3215.1	3215.1	3215.1	3215.1	3215.1	3215.1	3215.1	3215.1	3215.1	3215.1	3215.1
2.5°	3011.3	3021.9	3015.5	3055.9	3058.0	3108.9	3137.6	3162.0	3164.1	3196.0	3217.2
5°	2805.4	2811.7	2811.7	2849.9	2875.4	2943.3	3009.2	3079.2	3084.5	3160.9	3219.3
7.5°	2638.7	2645.1	2640.8	2691.8	2724.7	2800.1	2883.9	2991.1	3001.7	3124.8	3226.7
10°	2508.2	2506.0	2516.6	2563.4	2605.8	2696.0	2789.4	2911.5	2927.4	3083.5	3235.2
12.5°	2419.0	2421.1	2427.5	2476.3	2522.0	2611.1	2707.7	2840.4	2857.4	3035.7	3231.0
15°	2376.5	2372.3	2377.6	2422.2	2465.7	2544.2	2644.0	2780.9	2797.9	2993.2	3232.1
17.5°	2367.0	2363.8	2362.7	2394.6	2427.5	2500.7	2596.3	2735.3	2753.3	2965.6	3238.4
20°	2396.7	2392.5	2380.8	2394.6	2408.4	2469.9	2562.3	2702.4	2722.6	2947.6	3251.2
22.5°	2478.4	2471.0	2453.0	2436.0	2417.9	2455.1	2541.1	2678.0	2698.2	2935.9	3263.9
25°	2602.6	2596.3	2577.2	2538.9	2473.1	2466.8	2536.8	2667.4	2687.5	2927.4	3269.2
27.5°	2773.5	2764.0	2744.9	2689.7	2582.5	2510.3	2552.7	2666.3	2685.4	2917.9	3263.9
30°	2976.2	2969.9	2959.3	2892.4	2749.1	2602.6	2588.8	2674.8	2689.7	2912.6	3253.3
32.5°	3182.2	3175.8	3184.3	3152.4	2976.2	2755.5	2667.4	2698.2	2708.8	2911.5	3243.7
35°	3363.7	3371.1	3432.7	3438.0	3265.0	2962.5	2791.6	2752.3	2754.4	2932.7	3248.0
37.5°	3553.7	3582.3	3663.0	3732.0	3587.6	3236.3	2976.2	2854.2	2852.1	2986.9	3274.5
40°	3805.2	3818.0	3920.9	4050.4	3960.2	3612.0	3238.4	3020.8	3006.0	3097.3	3345.6
42.5°	4050.4	4081.2	4245.7	4394.3	4364.6	4035.6	3568.5	3270.3	3243.7	3292.6	3492.1
45°	4362.5	4392.2	4576.9	4767.9	4822.1	4514.3	3991.0	3624.8	3598.2	3586.6	3760.6
47.5°	4674.5	4705.3	4870.9	5146.9	5336.9	5112.9	4540.8	4092.9	4049.4	4003.7	4166.1
50°	4884.7	4920.8	5078.9	5410.1	5855.9	5860.2	5192.5	4706.4	4651.2	4579.0	4737.2
52.5°	4877.3	4900.6	5051.3	5433.5	6229.5	6718.9	6065.0	5487.6	5443.0	5285.9	5423.9
55°	4494.1	4529.1	4680.9	5158.5	6269.9	7533.0	7347.2	6408.9	6329.3	6048.0	6199.8
57.5°	3724.6	3754.3	3907.1	4496.2	5912.2	7950.1	8975.4	7582.9	7473.5	6878.1	7053.2
60°	2811.7	2775.6	2847.8	3363.7	5056.7	7960.7	10412.6	9175.0	8992.4	7765.4	7911.9
62.5°	2110.1	2074.0	2090.0	2235.4	3428.4	7317.5	11232.0	11353.1	11051.6	8767.4	8738.8
65°	1667.5	1647.3	1693.0	1792.8	1998.7	5572.5	11238.4	13708.4	13518.4	9928.6	9586.8
67.5°	1358.6	1345.9	1392.6	1577.3	1620.8	2994.3	10077.2	14808.0	14882.3	11200.2	10373.4
70°	1094.3	1075.2	1148.5	1391.5	1507.2	1811.9	7218.8	14247.6	14367.5	11958.1	10151.5
72.5°	755.7	756.8	793.9	1127.2	1455.2	1564.5	4083.3	11863.6	12123.7	11271.3	8924.5
75°	509.5	513.7	524.3	744.1	1340.6	1517.8	2175.9	8981.8	9165.4	9316.2	7376.9
77.5°	307.8	309.9	334.4	450.0	924.5	1417.0	1474.3	6510.8	6655.2	6141.4	4572.6
80°	178.3	185.8	208.0	301.4	624.1	1064.6	1141.0	3992.0	4155.5	2730.0	1453.1
82.5°	78.5	83.9	113.6	175.1	364.1	905.4	890.5	1577.3	1553.9	761.0	504.2
85°	13.8	17.0	24.4	55.2	133.7	477.6	691.0	696.3	654.9	288.7	209.1
87.5°	0.0	0.0	0.0	0.0	0.0	3.2	104.0	186.8	185.8	81.7	72.2
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°	3215.1	3215.1	3215.1	3215.1	3215.1	3215.1	3215.1	3215.1	3215.1	3215.1	3215.1
2.5°	3231.0	3202.3	3227.8	3231.0	3225.7	3221.4	3189.6	3162.0	3158.8	3129.1	3129.1
5°	3242.7	3216.1	3228.9	3204.5	3166.2	3127.0	3059.0	3012.3	2991.1	2952.9	2952.9
7.5°	3258.6	3231.0	3216.1	3155.6	3066.5	2980.5	2871.2	2779.9	2742.7	2688.6	2686.5
10°	3273.4	3238.4	3187.5	3069.7	2927.4	2790.5	2631.3	2501.8	2413.7	2348.9	2348.9
12.5°	3272.4	3226.7	3125.9	2951.8	2755.5	2557.0	2344.7	2149.4	2032.6	1931.8	1925.4
15°	3270.3	3207.6	3047.4	2814.9	2554.9	2280.0	1991.2	1736.5	1563.5	1464.8	1456.3
17.5°	3268.1	3183.2	2959.3	2658.9	2310.7	1936.0	1555.0	1279.0	1134.7	1074.2	1076.3
20°	3268.1	3155.6	2864.8	2479.5	2029.5	1524.2	1141.0	940.4	904.3	907.5	910.7
22.5°	3258.6	3121.7	2759.7	2284.2	1716.3	1120.9	841.7	773.8	792.9	822.6	826.9
25°	3236.3	3065.4	2637.7	2067.7	1343.8	816.2	686.7	674.0	709.0	746.2	756.8
27.5°	3201.3	3000.7	2500.7	1814.0	989.3	656.0	604.0	602.9	630.5	658.1	667.6
30°	3164.1	2928.5	2356.4	1531.6	716.5	571.0	550.9	550.9	564.7	581.7	579.5
32.5°	3120.6	2855.2	2201.4	1237.6	583.8	523.3	516.9	513.7	515.9	522.2	522.2
35°	3083.5	2790.5	2042.2	926.6	523.3	496.7	490.4	483.0	479.8	475.5	477.6
37.5°	3069.7	2739.6	1877.7	698.4	493.6	477.6	467.0	456.4	449.0	446.9	445.8
40°	3091.9	2718.3	1713.1	575.3	472.3	457.5	445.8	432.0	425.6	425.6	425.6
42.5°	3179.0	2734.2	1545.4	520.1	457.5	440.5	423.5	410.8	408.7	410.8	411.8
45°	3338.2	2795.8	1371.4	492.5	444.7	423.5	403.3	393.8	393.8	395.9	395.9
47.5°	3622.7	2957.1	1199.4	475.5	432.0	409.7	388.5	378.9	377.9	380.0	380.0
50°	4115.2	3248.0	1044.4	463.8	422.4	399.1	377.9	365.1	361.9	360.9	360.9
52.5°	4736.1	3752.2	945.7	455.4	410.8	387.4	366.2	349.2	342.8	339.7	339.7
55°	5486.5	4424.0	945.7	449.0	395.9	373.6	349.2	332.2	322.7	318.4	318.4
57.5°	6336.7	5206.3	1109.2	443.7	384.2	357.7	331.2	314.2	303.6	297.2	297.2
60°	7201.8	6033.2	1513.6	436.2	373.6	337.5	311.0	295.1	281.3	273.8	272.8
62.5°	8098.7	6943.9	2046.4	440.5	366.2	318.4	289.8	271.7	260.1	252.6	251.6
65°	8920.3	7811.1	2512.4	473.4	367.3	301.4	265.4	249.4	239.9	230.3	229.3
67.5°	9617.6	8289.8	2185.5	540.3	389.5	281.3	240.9	225.0	216.5	210.2	209.1
70°	9129.4	7559.5	1239.7	581.7	420.3	260.1	213.3	202.7	194.2	190.0	188.9
72.5°	7806.8	6400.4	829.0	513.7	383.2	232.5	187.9	179.4	173.0	167.7	166.6
75°	6324.0	5075.8	633.7	421.4	298.3	188.9	161.3	155.0	148.6	143.3	142.2
77.5°	3741.5	2932.7	467.0	333.3	210.2	147.5	133.7	128.4	122.1	117.8	116.8
80°	1194.1	1019.0	296.1	229.3	139.0	113.6	103.0	98.7	92.3	87.0	86.0
82.5°	455.4	393.8	157.1	116.8	92.3	77.5	69.0	64.7	60.5	55.2	54.1
85°	201.7	188.9	87.0	62.6	49.9	38.2	34.0	31.8	26.5	22.3	21.2
87.5°	71.1	71.1	37.2	18.0	10.6	5.3	3.2	1.1	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)