

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: P636837

Luminaire Tested: GWS-SA4B-750-U-T1-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636837  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-750-U-T1-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

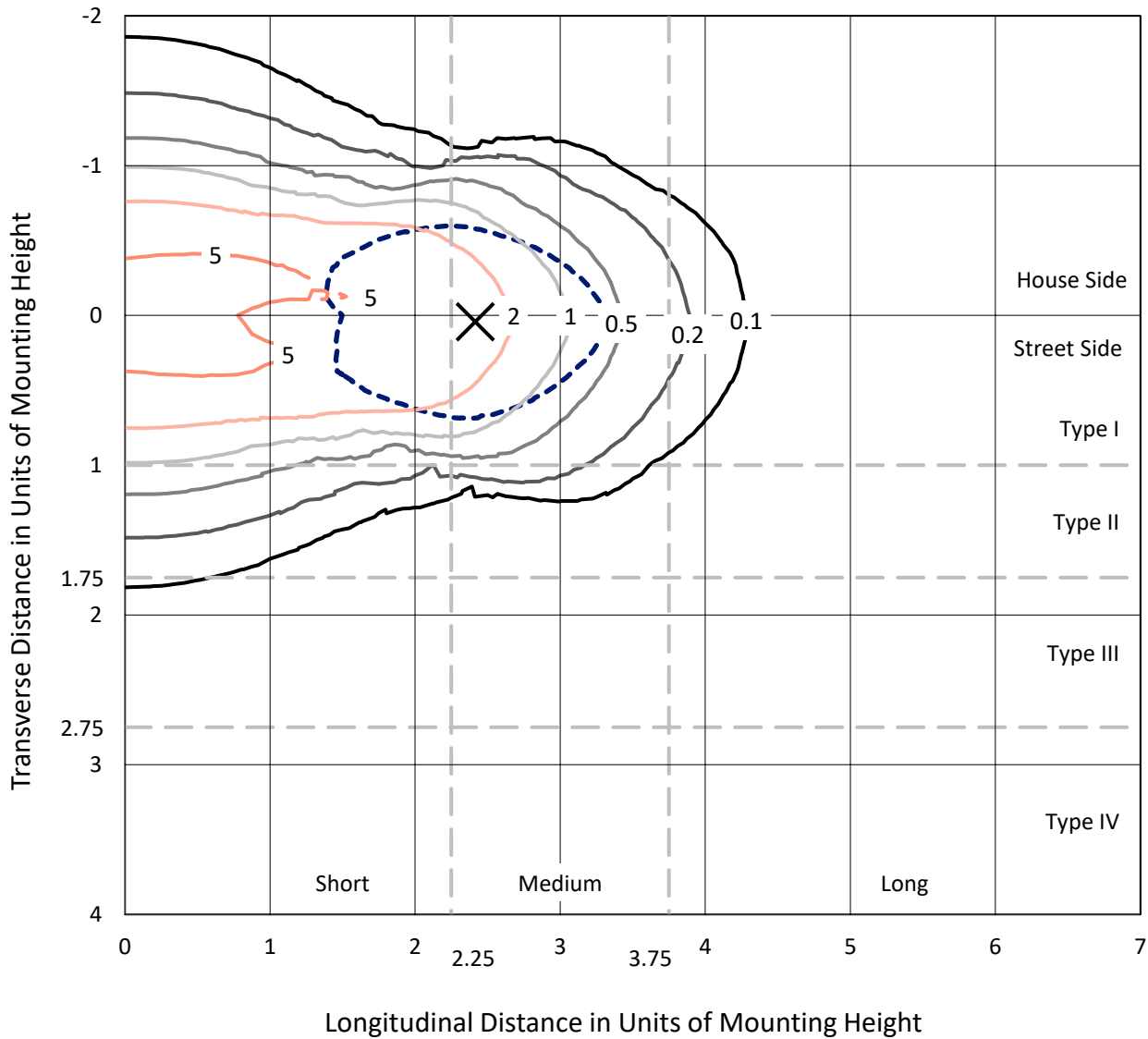
Lumens per Lamp: N/A  
Luminaire Lumens: 14778.9 lumens  
Efficiency: N/A  
Efficacy: 156.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

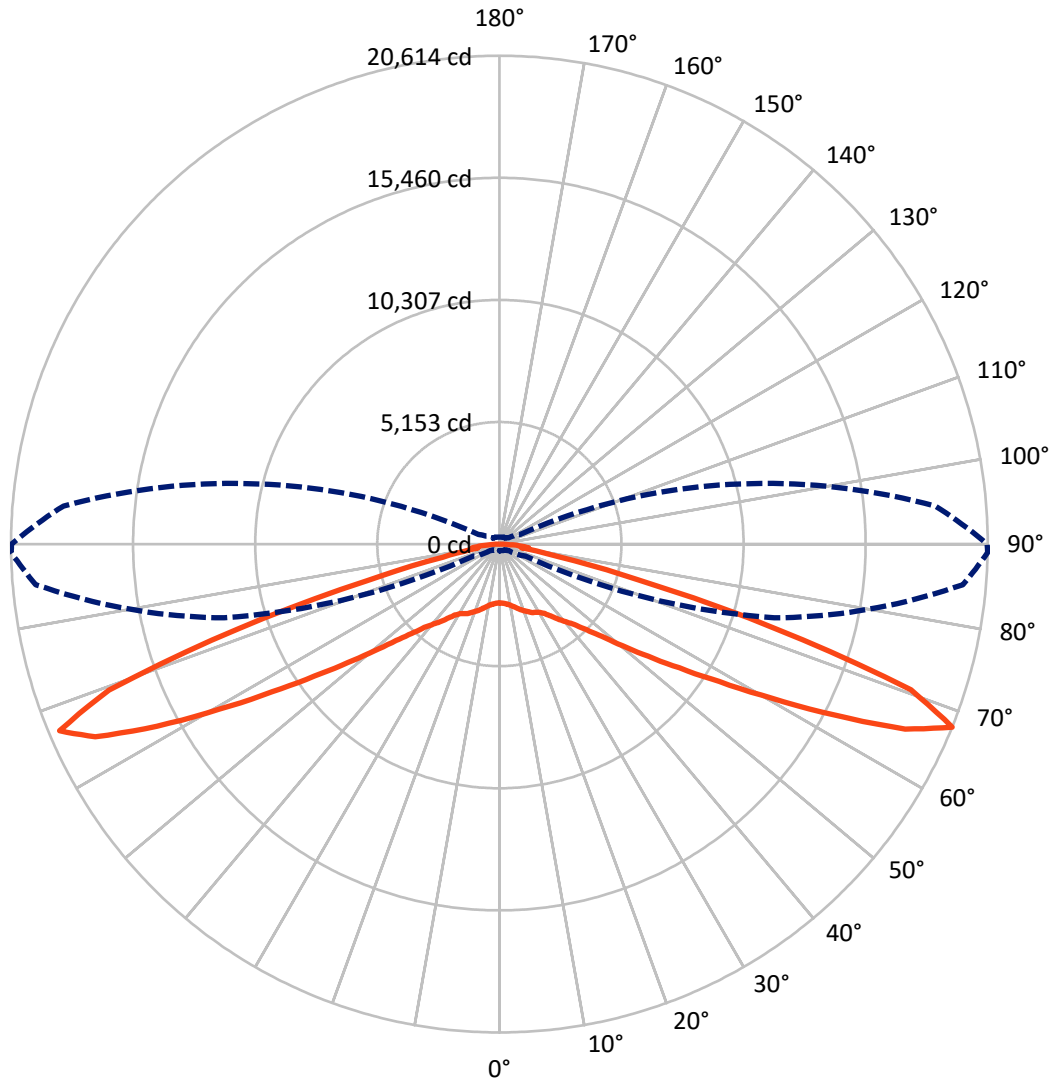
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.8 fc  
 Type I - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7324.7	0.0	7324.7
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	7454.2	0.0	7454.2
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	14778.9	0.0	14778.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.8	1.7
10°-20°	810.2	5.5
20°-30°	1369.6	9.3
30°-40°	1879.6	12.7
40°-50°	2396.9	16.2
50°-60°	3007.2	20.3
60°-70°	3627.0	24.5
70°-80°	1312.1	8.9
80°-90°	127.6	0.9
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°	14778.9	100.0
0°-180°	14778.9	100.0

**Coefficient of Utilization**



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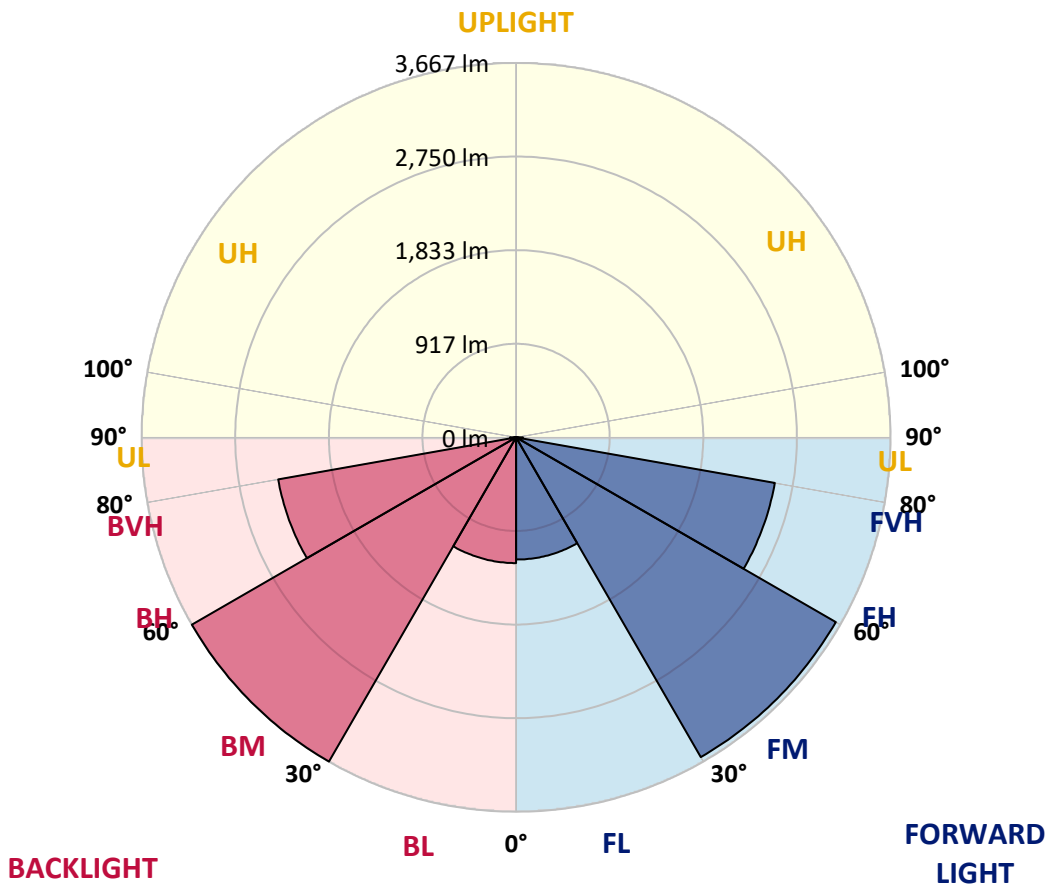
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1197.0	8.1			
FM (30°-60°)	3616.7	24.5			
FH (60°-80°)	2573.2	17.4			G2/5000
FVH (80°-90°)	67.3	0.5			G1/100
BL (0°-30°)	1231.6	8.3	B3/2500		
BM (30°-60°)	3667.0	24.8	B3/5000		
BH (60°-80°)	2365.9	16.0	B3/2500		G3/2500
BVH (80°-90°)	60.3	0.4			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 I Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5
2.5°	2487.9	2485.8	2480.5	2496.4	2493.3	2494.3	2500.7	2496.4	2489.0	2476.3	2494.3
5°	2558.0	2556.9	2545.3	2554.8	2544.2	2536.8	2535.7	2525.1	2516.6	2502.8	2521.9
7.5°	2625.9	2624.9	2615.3	2632.3	2623.8	2615.3	2605.8	2584.5	2564.4	2544.2	2565.4
10°	2677.9	2676.9	2674.8	2699.2	2701.3	2704.5	2700.2	2664.1	2629.1	2604.7	2625.9
12.5°	2707.7	2710.8	2716.2	2760.7	2783.0	2804.2	2809.6	2779.8	2721.5	2686.4	2711.9
15°	2687.5	2693.9	2720.4	2801.1	2862.6	2910.4	2930.6	2906.1	2830.8	2772.4	2801.1
17.5°	2590.9	2596.2	2648.2	2771.3	2907.2	3017.6	3050.5	3035.6	2951.8	2880.7	2908.3
20°	2457.2	2468.8	2525.1	2697.0	2899.8	3091.9	3180.0	3174.7	3083.4	2974.1	3007.0
22.5°	2336.2	2350.0	2409.4	2599.4	2849.9	3111.0	3310.5	3324.3	3203.3	3067.5	3094.0
25°	2200.3	2213.0	2289.5	2483.7	2763.9	3096.1	3422.0	3484.6	3339.2	3174.7	3199.1
27.5°	2061.3	2070.8	2146.2	2353.1	2651.4	3068.5	3510.1	3660.8	3472.9	3249.0	3266.0
30°	1939.2	1951.9	2020.9	2222.6	2528.3	3013.3	3582.3	3848.7	3626.8	3332.8	3346.6
32.5°	1821.4	1832.0	1907.4	2094.2	2397.7	2928.4	3647.0	4069.5	3855.0	3488.9	3488.9
35°	1672.8	1691.9	1776.8	1971.0	2274.6	2815.9	3693.7	4326.3	4167.1	3719.2	3720.2
37.5°	1535.9	1546.5	1635.6	1832.0	2145.1	2688.6	3698.0	4592.7	4561.9	4012.1	4014.3
40°	1379.8	1393.6	1489.2	1683.4	1996.5	2554.8	3657.6	4841.1	4975.9	4313.6	4301.9
42.5°	1221.7	1241.9	1333.1	1523.1	1836.2	2391.4	3550.4	5077.8	5501.3	4662.8	4634.1
45°	1068.8	1081.6	1172.9	1352.2	1652.6	2196.1	3378.5	5304.9	6125.4	5193.5	5152.1
47.5°	896.9	902.2	996.7	1168.6	1462.6	1978.5	3132.2	5507.7	6811.1	5896.1	5825.0
50°	744.0	751.5	825.8	973.3	1230.2	1720.5	2825.5	5626.5	7684.6	6854.6	6731.5
52.5°	601.8	609.3	668.7	786.5	1016.8	1426.5	2445.5	5598.9	8570.9	8044.4	7865.1
55°	486.1	491.4	531.8	624.1	800.3	1134.6	1996.5	5351.6	9554.8	9598.3	9212.0
57.5°	410.8	412.9	440.5	496.7	625.2	874.6	1541.2	4767.9	10586.5	11581.1	10946.3
60°	367.2	368.3	381.0	416.1	493.6	667.6	1129.3	3838.1	11655.4	14061.6	13191.2
62.5°	339.7	339.7	350.3	370.4	409.7	513.7	830.0	2756.5	12422.8	16760.8	15895.7
65°	313.1	313.1	320.5	337.5	358.8	419.3	623.0	1777.9	12799.6	19017.3	18825.2
67.5°	279.2	280.2	285.5	303.6	322.7	350.3	472.3	1202.6	12017.3	19641.4	20613.7
70°	247.3	248.4	255.8	267.5	283.4	302.5	369.4	829.0	8747.1	16358.5	18431.4
72.5°	212.3	216.5	221.8	234.6	244.1	257.9	301.4	537.1	5089.5	10522.8	12183.9
75°	174.1	179.4	185.7	198.5	204.9	210.2	248.4	383.2	2448.7	5332.5	6072.3
77.5°	134.8	140.1	147.5	159.2	163.5	169.8	190.0	277.0	1172.9	2363.8	2548.4
80°	90.2	92.3	98.7	112.5	119.9	124.2	140.1	188.9	509.5	948.9	940.4
82.5°	55.2	56.3	58.4	66.9	70.1	74.3	91.3	115.7	243.1	1078.4	1236.5
85°	20.2	19.1	18.0	23.4	27.6	31.8	42.5	58.4	106.1	740.9	829.0
87.5°	0.0	0.0	0.0	1.1	2.1	2.1	4.2	8.5	25.5	277.0	190.0
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°	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5
2.5°	2489.0	2477.3	2492.2	2502.8	2526.2	2534.7	2536.8	2529.3	2529.3	2516.6	2518.7
5°	2517.7	2510.2	2534.7	2552.7	2586.7	2599.4	2607.9	2602.6	2605.8	2597.3	2599.4
7.5°	2561.2	2554.8	2597.3	2632.3	2667.3	2682.2	2689.6	2685.4	2686.4	2675.8	2679.0
10°	2621.7	2623.8	2674.8	2720.4	2767.1	2782.0	2785.1	2772.4	2761.8	2742.7	2743.7
12.5°	2704.5	2715.1	2787.3	2838.2	2886.0	2907.2	2883.9	2837.2	2793.6	2760.7	2756.5
15°	2794.7	2813.8	2917.8	2982.6	3034.6	3024.0	2955.0	2849.9	2763.9	2715.1	2705.5
17.5°	2903.0	2931.6	3062.2	3139.7	3184.2	3116.3	2972.0	2814.9	2694.9	2629.1	2616.4
20°	3004.9	3050.5	3215.0	3315.9	3321.2	3168.3	2964.5	2743.7	2593.0	2512.4	2495.4
22.5°	3098.3	3156.6	3375.3	3503.7	3434.7	3191.7	2918.9	2642.9	2469.9	2375.4	2360.6
25°	3200.2	3282.9	3562.1	3682.0	3548.3	3182.1	2823.4	2517.7	2321.3	2224.7	2214.1
27.5°	3270.2	3374.2	3750.0	3864.6	3641.7	3128.0	2700.2	2380.7	2185.4	2094.2	2079.3
30°	3350.9	3483.6	3956.9	4063.1	3699.0	3048.4	2568.6	2253.4	2059.1	1960.4	1949.8
32.5°	3497.4	3664.0	4213.8	4273.2	3717.1	2949.7	2442.3	2130.3	1927.5	1828.8	1814.0
35°	3733.0	3928.3	4574.7	4507.8	3703.3	2841.4	2322.4	1985.9	1792.7	1700.4	1685.5
37.5°	4030.2	4273.2	4977.0	4719.0	3665.1	2722.5	2180.1	1864.9	1671.7	1578.3	1569.8
40°	4307.2	4606.5	5428.1	4901.6	3587.6	2576.0	2043.2	1738.6	1541.2	1442.5	1423.4
42.5°	4654.3	5052.3	5950.3	5059.7	3460.2	2400.9	1889.3	1582.6	1377.7	1288.6	1265.2
45°	5181.8	5676.4	6557.4	5211.5	3270.2	2185.4	1696.1	1392.6	1198.3	1107.1	1089.0
47.5°	5839.9	6456.6	7215.5	5301.8	2981.5	1958.3	1477.5	1192.0	997.7	894.8	886.3
50°	6764.4	7591.2	7921.3	5285.8	2658.8	1688.7	1231.2	953.1	790.8	716.5	704.8
52.5°	7890.5	9015.6	8684.5	5094.8	2316.0	1382.0	959.5	748.3	627.3	574.2	564.7
55°	9303.3	10721.3	9488.0	4685.1	1882.9	1058.2	753.6	590.1	507.4	475.5	471.3
57.5°	11052.5	12930.1	10261.7	3995.2	1415.9	807.7	580.6	487.2	447.9	428.8	427.7
60°	13361.1	15274.8	10933.6	3104.6	1013.6	617.7	479.8	435.2	404.4	391.7	390.6
62.5°	16105.9	17404.0	11351.8	2114.3	762.1	492.5	422.4	394.8	376.8	369.4	368.3
65°	18927.1	18749.8	11152.3	1385.1	578.5	418.2	378.9	364.1	348.1	340.7	340.7
67.5°	20593.5	18465.4	9620.6	961.6	458.5	367.2	341.8	328.0	301.4	295.1	295.1
70°	18240.4	14962.7	6305.8	703.7	371.5	321.6	297.2	278.1	267.5	261.1	260.0
72.5°	12064.0	9736.3	3353.0	488.2	309.9	273.8	251.6	244.1	231.4	225.0	224.0
75°	6004.4	5113.9	1718.4	352.4	257.9	219.7	210.2	207.0	196.4	187.9	185.7
77.5°	2502.8	2276.7	801.4	255.8	196.4	177.3	168.8	168.8	157.1	147.5	143.3
80°	943.6	840.6	378.9	175.1	145.4	131.6	126.3	122.1	112.5	100.8	94.5
82.5°	1262.0	824.7	185.7	109.3	95.5	84.9	77.5	74.3	69.0	63.7	59.4
85°	817.3	585.9	83.9	56.3	47.8	36.1	31.8	29.7	26.5	23.4	21.2
87.5°	166.6	196.4	25.5	10.6	6.4	3.2	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)