

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: P639202

Luminaire Tested: GWS-SA5B-735-U-T1-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639202  
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-SA5B-735-U-T1-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

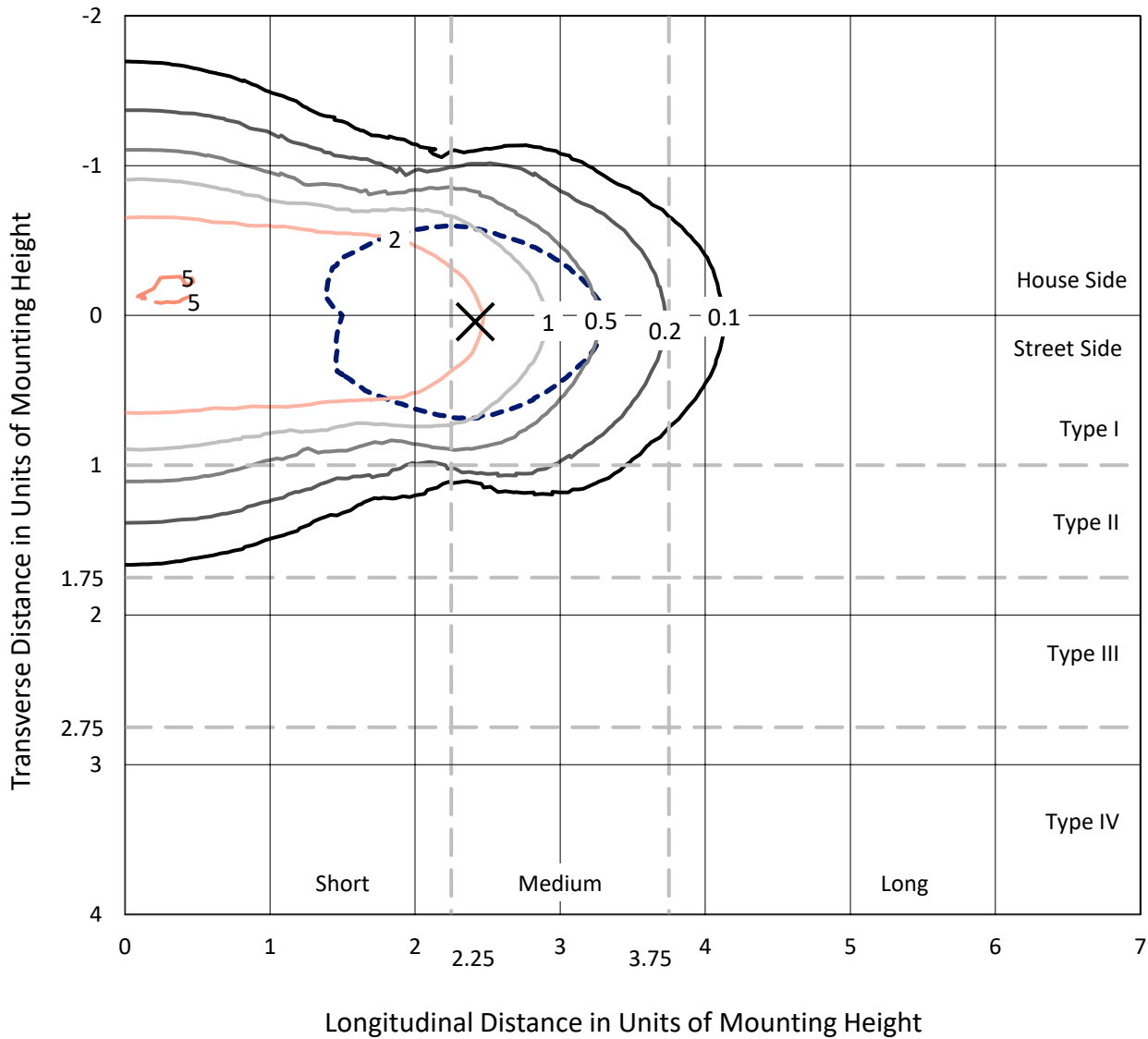
Lumens per Lamp: N/A  
Luminaire Lumens: 17480.4 lumens  
Efficiency: N/A  
Efficacy: 151.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

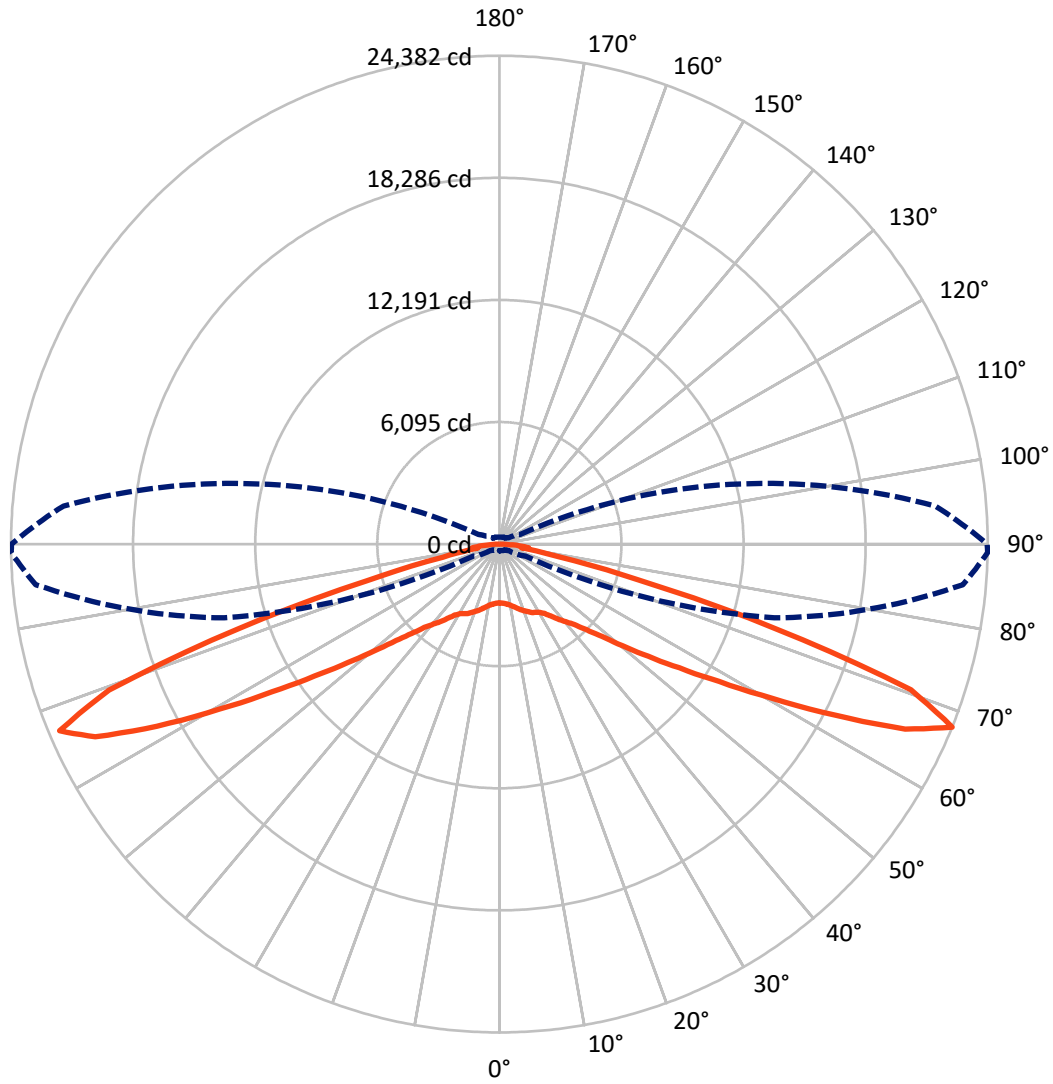
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	8663.6	0.0	8663.6
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	8816.8	0.0	8816.8
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	17480.4	0.0	17480.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.3	1.7
10°-20°	958.3	5.5
20°-30°	1619.9	9.3
30°-40°	2223.1	12.7
40°-50°	2835.0	16.2
50°-60°	3556.9	20.3
60°-70°	4289.9	24.5
70°-80°	1552.0	8.9
80°-90°	150.9	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°	17480.4	100.0
0°-180°	17480.4	100.0

**Coefficient of Utilization**



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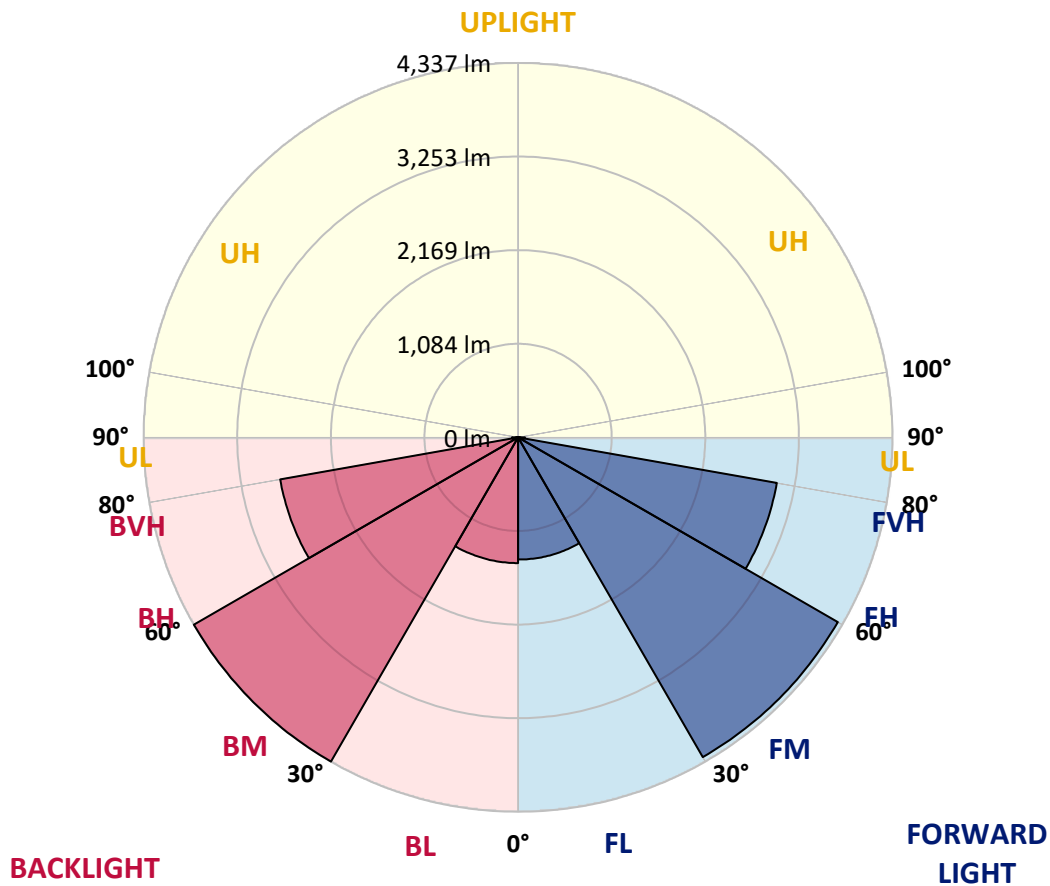
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1415.8	8.1			
FM (30°-60°)	4277.8	24.5			
FH (60°-80°)	3043.6	17.4			G2/5000
FVH (80°-90°)	79.6	0.5			G1/100
BL (0°-30°)	1456.7	8.3	B3/2500		
BM (30°-60°)	4337.3	24.8	B3/5000		
BH (60°-80°)	2798.3	16.0	B4/5000		G4/5000
BVH (80°-90°)	71.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type I Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	2933.9	2933.9	2933.9	2933.9	2933.9	2933.9	2933.9	2933.9	2933.9	2933.9	2933.9
2.5°	2942.7	2940.2	2933.9	2952.8	2949.0	2950.3	2957.8	2952.8	2944.0	2928.9	2950.3
5°	3025.6	3024.3	3010.5	3021.8	3009.3	3000.5	2999.2	2986.7	2976.6	2960.3	2982.9
7.5°	3105.9	3104.7	3093.4	3113.5	3103.4	3093.4	3082.1	3057.0	3033.1	3009.3	3034.4
10°	3167.5	3166.2	3163.7	3192.6	3195.1	3198.8	3193.8	3151.1	3109.7	3080.8	3105.9
12.5°	3202.6	3206.4	3212.7	3265.4	3291.7	3316.9	3323.1	3288.0	3218.9	3177.5	3207.6
15°	3178.8	3186.3	3217.7	3313.1	3385.9	3442.4	3466.2	3437.4	3348.2	3279.2	3313.1
17.5°	3064.5	3070.8	3132.3	3277.9	3438.6	3569.2	3608.1	3590.5	3491.4	3407.2	3439.9
20°	2906.3	2920.1	2986.7	3190.1	3429.8	3657.1	3761.3	3755.0	3647.0	3517.7	3556.6
22.5°	2763.2	2779.5	2849.8	3074.6	3370.8	3679.7	3915.7	3932.0	3788.9	3628.2	3659.6
25°	2602.5	2617.6	2708.0	2937.7	3269.1	3662.1	4047.5	4121.6	3949.6	3755.0	3783.9
27.5°	2438.0	2449.3	2538.5	2783.3	3136.1	3629.5	4151.7	4330.0	4107.8	3842.9	3863.0
30°	2293.7	2308.7	2390.3	2628.9	2990.4	3564.2	4237.1	4552.2	4289.8	3942.1	3958.4
32.5°	2154.3	2166.9	2256.0	2477.0	2836.0	3463.7	4313.7	4813.3	4559.7	4126.6	4126.6
35°	1978.6	2001.2	2101.6	2331.3	2690.4	3330.7	4368.9	5117.1	4928.8	4399.0	4400.3
37.5°	1816.6	1829.2	1934.6	2166.9	2537.2	3180.0	4373.9	5432.3	5395.8	4745.5	4748.0
40°	1632.1	1648.4	1761.4	1991.1	2361.5	3021.8	4326.2	5726.0	5885.5	5102.1	5088.3
42.5°	1445.0	1468.9	1576.8	1801.5	2171.9	2828.5	4199.4	6006.0	6506.9	5515.1	5481.2
45°	1264.2	1279.3	1387.3	1599.4	1954.7	2597.5	3996.0	6274.6	7245.1	6142.8	6093.9
47.5°	1060.8	1067.1	1178.9	1382.2	1730.0	2340.1	3704.8	6514.4	8056.1	6973.9	6889.8
50°	880.1	888.8	976.7	1151.2	1455.0	2035.1	3342.0	6655.0	9089.3	8107.6	7961.9
52.5°	711.8	720.6	790.9	930.3	1202.7	1687.3	2892.5	6622.4	10137.6	9514.9	9302.8
55°	575.0	581.3	629.0	738.2	946.6	1342.1	2361.5	6329.9	11301.4	11352.9	10895.9
57.5°	485.9	488.4	521.0	587.5	739.4	1034.5	1822.9	5639.4	12521.7	13698.0	12947.3
60°	434.4	435.6	450.7	492.1	583.8	789.7	1335.8	4539.6	13785.9	16632.0	15602.5
62.5°	401.7	401.7	414.3	438.1	484.6	607.6	981.7	3260.4	14693.6	19824.5	18801.3
65°	370.4	370.4	379.1	399.2	424.3	495.9	736.9	2102.8	15139.3	22493.6	22266.3
67.5°	330.2	331.4	337.7	359.1	381.7	414.3	558.7	1422.4	14214.0	23231.8	24381.7
70°	292.5	293.8	302.6	316.4	335.2	357.8	436.9	980.5	10346.0	19348.7	21800.6
72.5°	251.1	256.1	262.4	277.5	288.7	305.1	356.5	635.2	6019.8	12446.4	14411.1
75°	205.9	212.2	219.7	234.8	242.3	248.6	293.8	453.2	2896.3	6307.3	7182.3
77.5°	159.4	165.7	174.5	188.3	193.3	200.9	224.7	327.7	1387.3	2795.8	3014.3
80°	106.7	109.2	116.8	133.1	141.9	146.9	165.7	223.5	602.6	1122.4	1112.3
82.5°	65.3	66.5	69.0	79.1	82.9	87.9	108.0	136.8	287.5	1275.5	1462.6
85°	23.9	22.6	21.3	27.6	32.6	37.7	50.2	69.0	125.5	876.3	980.5
87.5°	0.0	0.0	0.0	1.3	2.5	2.5	5.0	10.0	30.1	327.7	224.7
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°	2933.9	2933.9	2933.9	2933.9	2933.9	2933.9	2933.9	2933.9	2933.9	2933.9	2933.9
2.5°	2944.0	2930.2	2947.8	2960.3	2987.9	2998.0	3000.5	2991.7	2991.7	2976.6	2979.1
5°	2977.9	2969.1	2998.0	3019.3	3059.5	3074.6	3084.6	3078.3	3082.1	3072.0	3074.6
7.5°	3029.4	3021.8	3072.0	3113.5	3154.9	3172.5	3181.3	3176.2	3177.5	3164.9	3168.7
10°	3100.9	3103.4	3163.7	3217.7	3272.9	3290.5	3294.3	3279.2	3266.6	3244.0	3245.3
12.5°	3198.8	3211.4	3296.8	3357.0	3413.5	3438.6	3411.0	3355.8	3304.3	3265.4	3260.4
15°	3305.6	3328.1	3451.2	3527.8	3589.3	3576.7	3495.1	3370.8	3269.1	3211.4	3200.1
17.5°	3433.6	3467.5	3621.9	3713.6	3766.3	3685.9	3515.2	3329.4	3187.5	3109.7	3094.6
20°	3554.1	3608.1	3802.7	3922.0	3928.2	3747.5	3506.4	3245.3	3067.0	2971.6	2951.5
22.5°	3664.6	3733.7	3992.3	4144.2	4062.6	3775.1	3452.4	3126.0	2921.4	2809.7	2792.1
25°	3785.1	3883.1	4213.2	4355.1	4196.9	3763.8	3339.4	2977.9	2745.6	2631.4	2618.8
27.5°	3868.0	3991.0	4435.4	4571.0	4307.4	3699.8	3193.8	2815.9	2584.9	2477.0	2459.4
30°	3963.4	4120.3	4680.3	4805.8	4375.2	3605.6	3038.1	2665.3	2435.5	2318.8	2306.2
32.5°	4136.6	4333.8	4984.1	5054.4	4396.5	3488.8	2888.7	2519.7	2279.9	2163.1	2145.5
35°	4415.4	4646.4	5410.9	5331.8	4380.2	3360.8	2746.9	2348.9	2120.4	2011.2	1993.6
37.5°	4766.9	5054.4	5886.7	5581.7	4335.0	3220.2	2578.7	2205.8	1977.3	1866.8	1856.8
40°	5094.5	5448.6	6420.3	5797.6	4243.4	3046.9	2416.7	2056.4	1822.9	1706.1	1683.5
42.5°	5505.1	5975.9	7038.0	5984.6	4092.7	2839.8	2234.7	1871.8	1629.6	1524.1	1496.5
45°	6129.0	6714.0	7756.1	6164.2	3868.0	2584.9	2006.2	1647.1	1417.4	1309.4	1288.1
47.5°	6907.4	7636.8	8534.4	6270.9	3526.5	2316.3	1747.6	1409.9	1180.1	1058.3	1048.3
50°	8000.9	8978.8	9369.3	6252.1	3144.9	1997.4	1456.3	1127.4	935.3	847.4	833.6
52.5°	9332.9	10663.6	10271.9	6026.1	2739.4	1634.6	1134.9	885.1	742.0	679.2	667.9
55°	11003.9	12681.1	11222.3	5541.5	2227.1	1251.7	891.4	698.0	600.1	562.4	557.4
57.5°	13072.8	15293.7	12137.5	4725.4	1674.7	955.4	686.7	576.2	529.8	507.2	505.9
60°	15803.4	18066.9	12932.2	3672.1	1198.9	730.7	567.5	514.7	478.3	463.3	462.0
62.5°	19049.9	20585.3	13426.8	2500.8	901.4	582.5	499.7	467.0	445.7	436.9	435.6
65°	22386.9	22177.2	13190.8	1638.3	684.2	494.6	448.2	430.6	411.8	403.0	403.0
67.5°	24357.9	21840.7	11379.2	1137.4	542.3	434.4	404.2	387.9	356.5	349.0	349.0
70°	21574.6	17697.8	7458.5	832.4	439.4	380.4	351.5	328.9	316.4	308.8	307.6
72.5°	14269.2	11516.1	3965.9	577.5	366.6	323.9	297.5	288.7	273.7	266.2	264.9
75°	7102.0	6048.7	2032.5	416.8	305.1	259.9	248.6	244.8	232.3	222.2	219.7
77.5°	2960.3	2692.9	947.9	302.6	232.3	209.7	199.6	199.6	185.8	174.5	169.5
80°	1116.1	994.3	448.2	207.1	172.0	155.7	149.4	144.4	133.1	119.3	111.7
82.5°	1492.7	975.5	219.7	129.3	113.0	100.4	91.6	87.9	81.6	75.3	70.3
85°	966.7	693.0	99.2	66.5	56.5	42.7	37.7	35.2	31.4	27.6	25.1
87.5°	197.1	232.3	30.1	12.6	7.5	3.8	3.8	1.3	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)