

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: P639192

Luminaire Tested: GWS-SA5B-735-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639192  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-735-U-SL4-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

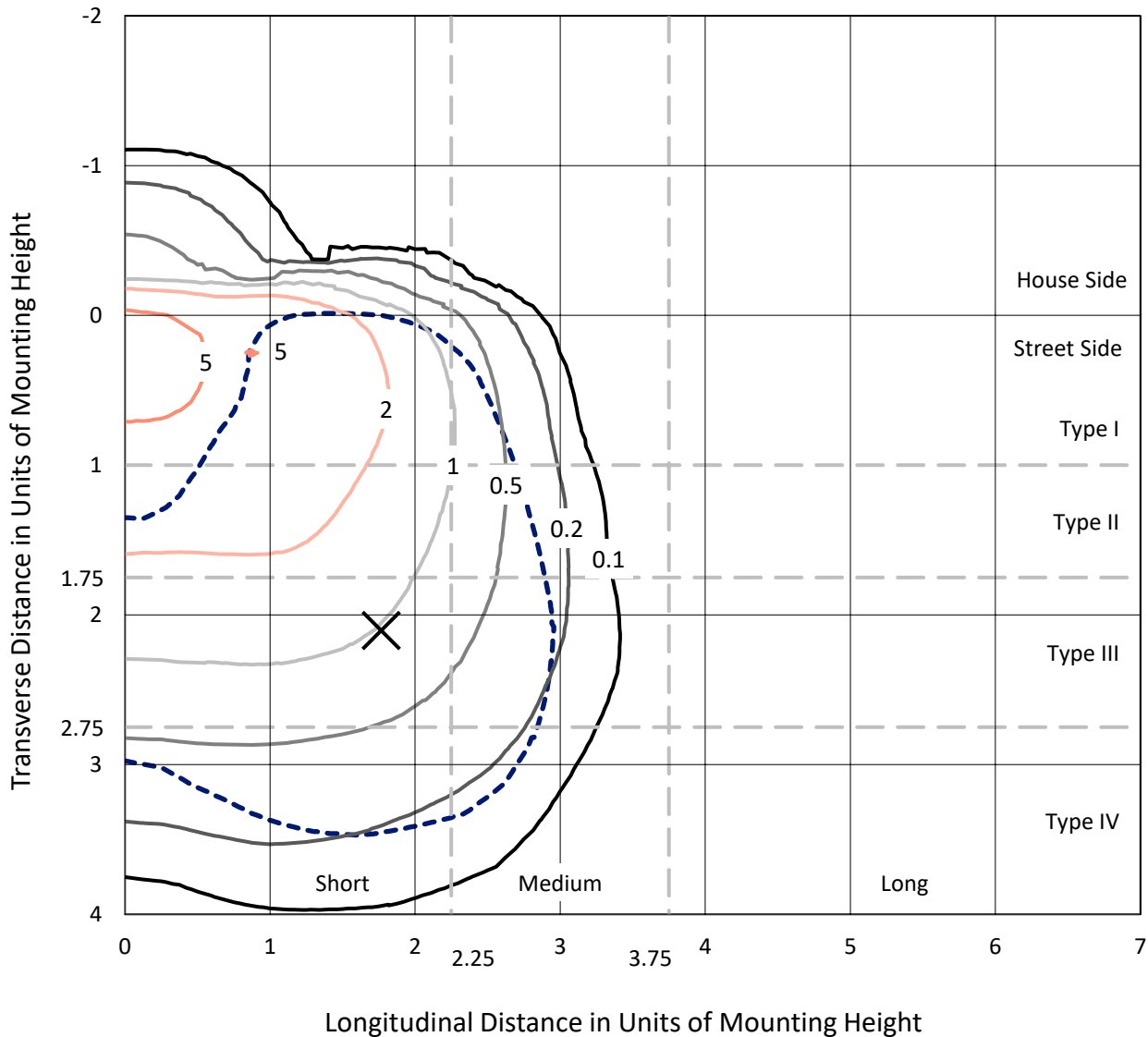
Lumens per Lamp: N/A  
Luminaire Lumens: 13798.3 lumens  
Efficiency: N/A  
Efficacy: 119.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

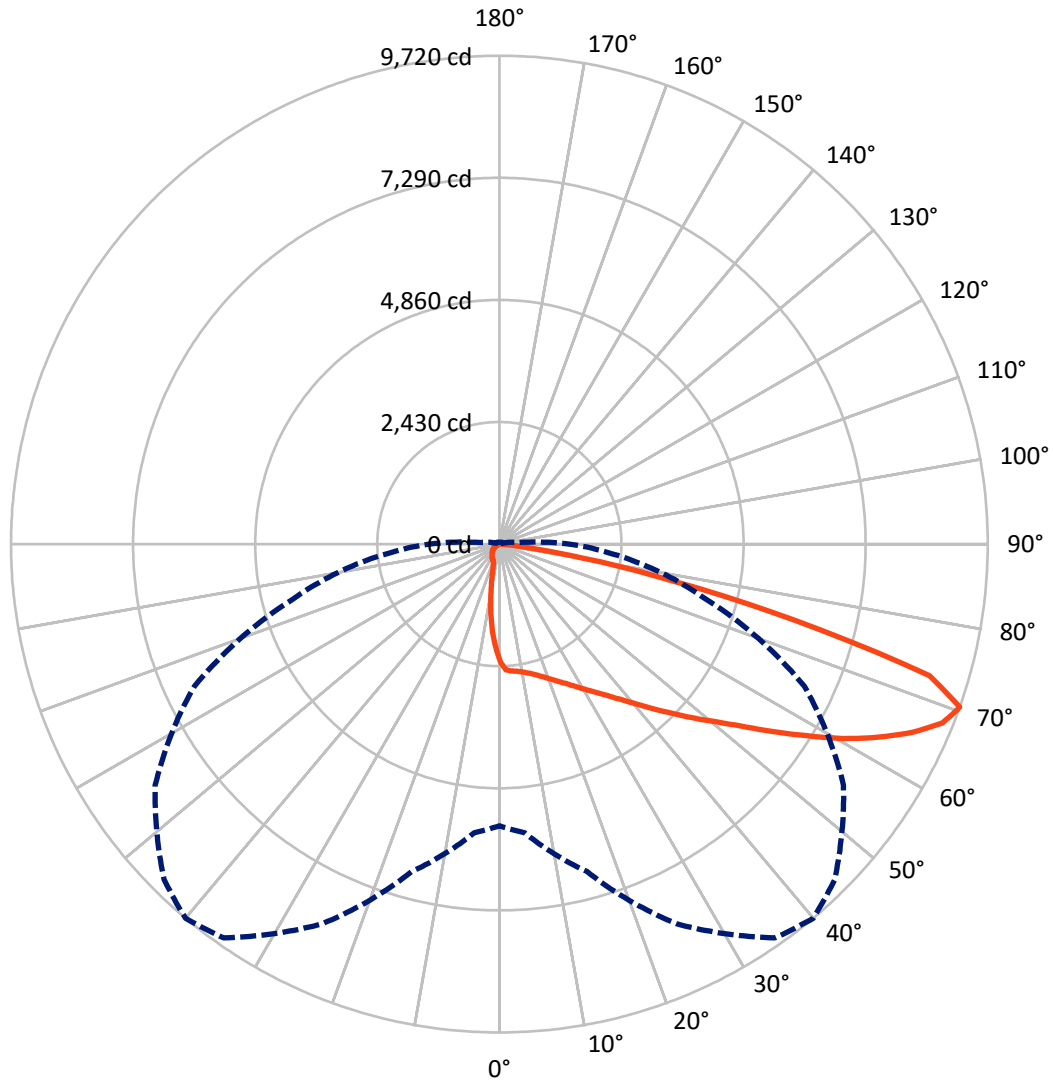
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1128.4	0.0	1128.4
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	12669.9	0.0	12669.9
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	13798.3	0.0	13798.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.9	1.4
10°-20°	501.9	3.6
20°-30°	840.0	6.1
30°-40°	1319.4	9.6
40°-50°	2086.9	15.1
50°-60°	3044.3	22.1
60°-70°	3773.9	27.4
70°-80°	1909.4	13.8
80°-90°	124.6	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°	13798.3	100.0
0°-180°	13798.3	100.0

**Coefficient of Utilization**



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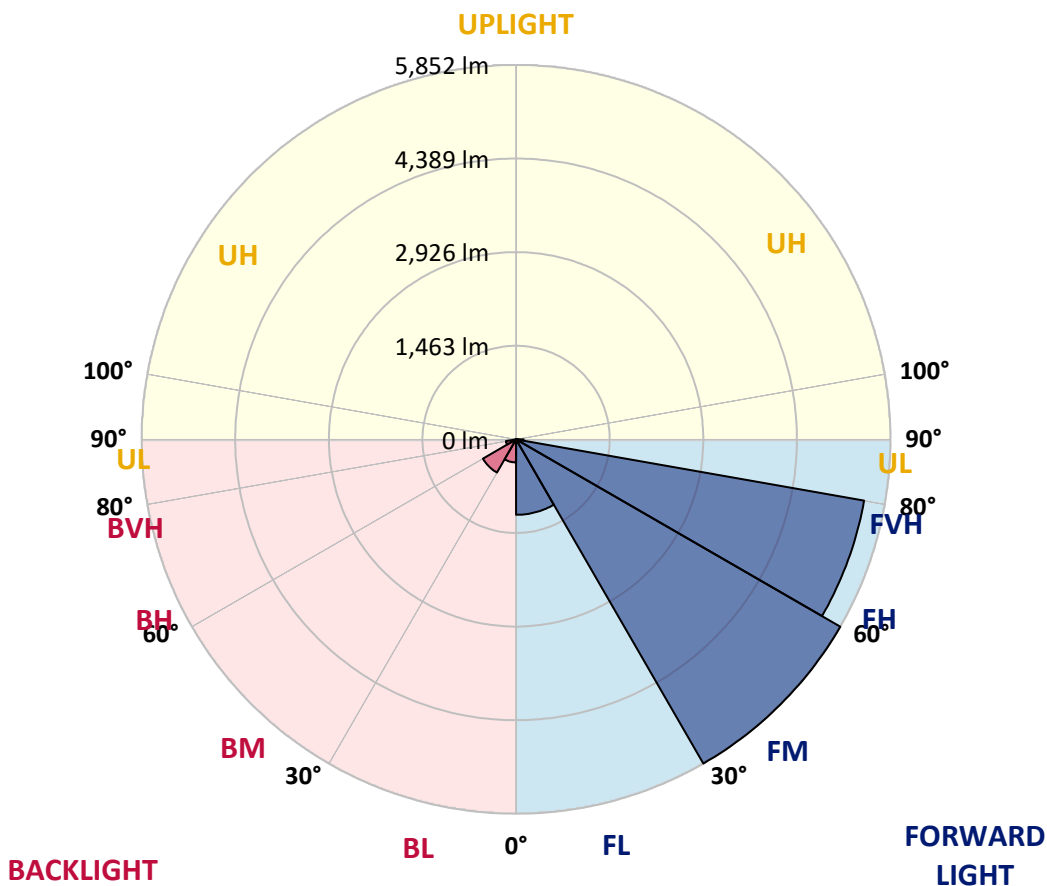
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1179.5	8.5			
FM (30°-60°)	5851.7	42.4			
FH (60°-80°)	5522.3	40.0			G3/7500
FVH (80°-90°)	116.4	0.8			G2/225
BL (0°-30°)	360.3	2.6	B1/500		
BM (30°-60°)	598.9	4.3	B1/1000		
BH (60°-80°)	160.9	1.2	B1/500		G1/500
BVH (80°-90°)	8.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2341.4	2341.4	2341.4	2341.4	2341.4	2341.4	2341.4	2341.4	2341.4	2341.4	2341.4
2.5°	2517.2	2526.0	2524.7	2528.5	2519.7	2505.9	2503.4	2484.5	2450.6	2407.9	2360.2
5°	2568.6	2578.7	2571.2	2567.4	2551.1	2536.0	2532.2	2512.1	2473.2	2415.5	2332.6
7.5°	2612.6	2615.1	2610.1	2601.3	2577.4	2557.3	2543.5	2515.9	2469.5	2411.7	2316.3
10°	2620.1	2618.9	2621.4	2622.6	2607.6	2590.0	2578.7	2541.0	2482.0	2420.5	2317.6
12.5°	2611.3	2611.3	2627.6	2646.5	2646.5	2637.7	2626.4	2592.5	2523.4	2450.6	2342.7
15°	2622.6	2626.4	2657.8	2692.9	2704.2	2695.4	2690.4	2655.3	2583.7	2503.4	2387.9
17.5°	2662.8	2666.6	2716.8	2769.5	2783.3	2773.3	2763.2	2728.1	2651.5	2563.6	2439.3
20°	2721.8	2731.8	2795.9	2863.7	2876.2	2863.7	2843.6	2794.6	2718.0	2628.9	2488.3
22.5°	2829.8	2836.1	2905.1	2976.7	2982.9	2962.9	2932.7	2864.9	2784.6	2698.0	2543.5
25°	2972.9	2981.7	3050.7	3119.8	3103.5	3073.3	3031.9	2955.3	2863.7	2779.6	2613.8
27.5°	3143.6	3153.7	3221.5	3281.7	3239.0	3203.9	3157.4	3062.0	2969.1	2892.5	2704.2
30°	3328.2	3337.0	3397.2	3451.2	3394.7	3353.3	3298.1	3200.1	3106.0	3048.2	2832.3
32.5°	3506.5	3505.2	3563.0	3606.9	3549.1	3516.5	3466.3	3367.1	3291.8	3266.7	3023.1
35°	3672.2	3672.2	3719.9	3763.8	3722.4	3704.8	3658.4	3579.3	3536.6	3566.7	3278.0
37.5°	3839.2	3830.4	3875.6	3924.5	3920.8	3922.0	3895.6	3858.0	3860.5	3967.2	3628.2
40°	3977.3	3973.5	4026.2	4090.2	4140.5	4180.6	4164.3	4178.1	4257.2	4456.8	4076.4
42.5°	4087.7	4096.5	4164.3	4266.0	4392.8	4474.4	4485.7	4542.2	4745.6	5054.4	4582.4
45°	4214.5	4215.8	4309.9	4465.6	4667.7	4797.1	4842.3	4987.9	5276.6	5674.6	5137.3
47.5°	4370.2	4355.1	4460.6	4679.0	4971.6	5162.4	5242.7	5424.8	5871.7	6279.7	5589.2
50°	4542.2	4514.6	4633.8	4931.4	5311.8	5550.3	5713.5	5979.7	6461.8	6776.9	5925.7
52.5°	4741.8	4715.5	4851.0	5221.4	5719.8	6009.8	6219.5	6488.1	6967.7	7156.0	6126.6
55°	4995.4	4969.1	5112.2	5569.2	6201.9	6578.5	6798.2	7024.2	7438.5	7436.0	6272.2
57.5°	5276.6	5240.2	5438.6	6008.6	6803.3	7195.0	7418.4	7528.9	7796.3	7653.2	6370.1
60°	5599.3	5566.6	5841.6	6532.1	7497.5	7860.3	8001.0	7955.8	8090.1	7781.3	6336.2
62.5°	5890.6	5875.5	6217.0	7087.0	8159.1	8465.5	8504.4	8307.3	8306.0	7783.8	6107.7
65°	6193.1	6222.0	6729.2	7726.0	8824.5	9030.4	8963.9	8656.3	8392.7	7476.2	5432.3
67.5°	6306.1	6390.2	7066.9	8303.5	9349.3	9510.0	9393.2	8830.8	8032.3	6441.7	4136.7
70°	5608.1	5766.3	6748.0	8336.2	9566.5	9719.7	9439.7	8361.3	6696.5	4267.3	2266.1
72.5°	4264.7	4449.3	5623.1	6825.9	8603.6	8952.6	8474.3	6812.0	4316.2	1869.4	760.8
75°	2386.6	2586.2	4188.2	5139.8	5776.3	6095.2	5919.4	4370.2	1912.0	488.4	227.2
77.5°	807.3	873.8	1948.5	3180.0	3812.8	3526.5	2985.4	2170.7	703.0	185.8	120.5
80°	478.3	503.4	725.6	1583.1	2006.2	1663.5	1313.2	802.2	357.8	99.2	84.1
82.5°	143.1	169.5	400.5	587.5	785.9	489.6	414.3	458.2	185.8	54.0	70.3
85°	0.0	0.0	85.4	182.0	205.9	80.3	80.3	259.9	33.9	22.6	51.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	6.3	3.8	5.0	11.3
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°	2341.4	2341.4	2341.4	2341.4	2341.4	2341.4	2341.4	2341.4	2341.4	2341.4	2341.4
2.5°	2326.3	2282.4	2230.9	2182.0	2135.5	2075.3	2046.4	2011.2	1981.1	1964.8	1973.6
5°	2279.9	2210.8	2105.4	1998.7	1890.7	1789.0	1697.4	1635.8	1580.6	1551.7	1558.0
7.5°	2239.7	2146.8	1982.3	1807.8	1634.6	1460.1	1318.2	1207.7	1122.4	1087.2	1080.9
10°	2222.1	2105.4	1873.1	1622.0	1355.9	1121.1	920.2	798.5	711.8	669.2	676.7
12.5°	2230.9	2084.0	1780.2	1440.0	1094.7	821.1	629.0	514.7	453.2	428.1	421.8
15°	2256.0	2079.0	1697.4	1254.2	844.9	573.7	434.4	387.9	375.4	372.9	372.9
17.5°	2284.9	2080.3	1612.0	1065.9	641.5	425.6	371.6	362.8	359.1	356.5	357.8
20°	2313.8	2080.3	1514.1	875.0	482.1	367.8	354.0	347.8	344.0	342.7	342.7
22.5°	2348.9	2080.3	1404.8	698.0	386.7	349.0	337.7	333.9	330.2	328.9	327.7
25°	2391.6	2081.5	1284.3	546.1	351.5	332.7	323.9	320.1	316.4	313.9	313.9
27.5°	2453.1	2091.6	1151.2	425.6	331.4	317.6	310.1	306.3	302.6	298.8	298.8
30°	2542.3	2116.7	1001.8	351.5	312.6	301.3	293.8	291.3	287.5	283.7	282.5
32.5°	2675.4	2160.6	847.4	315.1	295.0	283.7	274.9	272.4	268.7	264.9	263.6
35°	2861.2	2241.0	696.8	292.5	272.4	261.1	256.1	254.9	249.8	246.1	246.1
37.5°	3133.6	2371.5	552.4	269.9	253.6	244.8	238.5	236.0	231.0	227.2	226.0
40°	3466.3	2541.0	429.4	252.3	236.0	227.2	221.0	217.2	210.9	205.9	203.4
42.5°	3890.6	2748.2	339.0	233.5	219.7	210.9	205.9	198.4	189.6	182.0	180.8
45°	4332.5	2961.6	280.0	215.9	204.6	197.1	190.8	180.8	168.2	159.4	156.9
47.5°	4671.5	3094.7	244.8	197.1	188.3	182.0	174.5	162.0	146.9	136.8	134.3
50°	4913.8	3114.8	218.4	179.5	174.5	168.2	156.9	141.9	125.5	115.5	113.0
52.5°	5033.1	3024.4	197.1	163.2	159.4	153.2	139.4	123.0	105.5	95.4	92.9
55°	5087.1	2853.6	177.0	149.4	144.4	136.8	121.8	104.2	86.6	77.8	75.3
57.5°	5065.7	2601.3	159.4	135.6	129.3	120.5	104.2	85.4	71.6	62.8	61.5
60°	4907.5	2247.2	141.9	121.8	114.2	104.2	87.9	70.3	57.8	51.5	50.2
62.5°	4566.1	1807.8	124.3	105.5	100.4	90.4	75.3	57.8	47.7	43.9	42.7
65°	3866.8	1278.0	106.7	89.1	86.6	76.6	62.8	47.7	41.4	38.9	37.7
67.5°	2779.6	777.1	90.4	76.6	74.1	65.3	52.7	41.4	37.7	36.4	36.4
70°	1397.3	367.8	71.6	62.8	62.8	54.0	45.2	37.7	36.4	35.2	35.2
72.5°	474.6	156.9	54.0	49.0	51.5	46.5	38.9	35.2	35.2	35.2	35.2
75°	162.0	82.9	37.7	35.2	37.7	37.7	33.9	33.9	35.2	35.2	35.2
77.5°	105.5	55.2	26.4	23.9	28.9	28.9	28.9	31.4	33.9	33.9	33.9
80°	86.6	30.1	17.6	16.3	21.3	21.3	23.9	28.9	31.4	31.4	31.4
82.5°	74.1	18.8	10.0	11.3	15.1	16.3	20.1	23.9	27.6	28.9	28.9
85°	50.2	10.0	7.5	8.8	10.0	12.6	16.3	20.1	22.6	25.1	25.1
87.5°	13.8	3.8	5.0	6.3	6.3	8.8	12.6	15.1	17.6	18.8	18.8
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)