

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: P643503

Luminaire Tested: GWS-SA6F-722-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643503  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6F-722-U-T3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

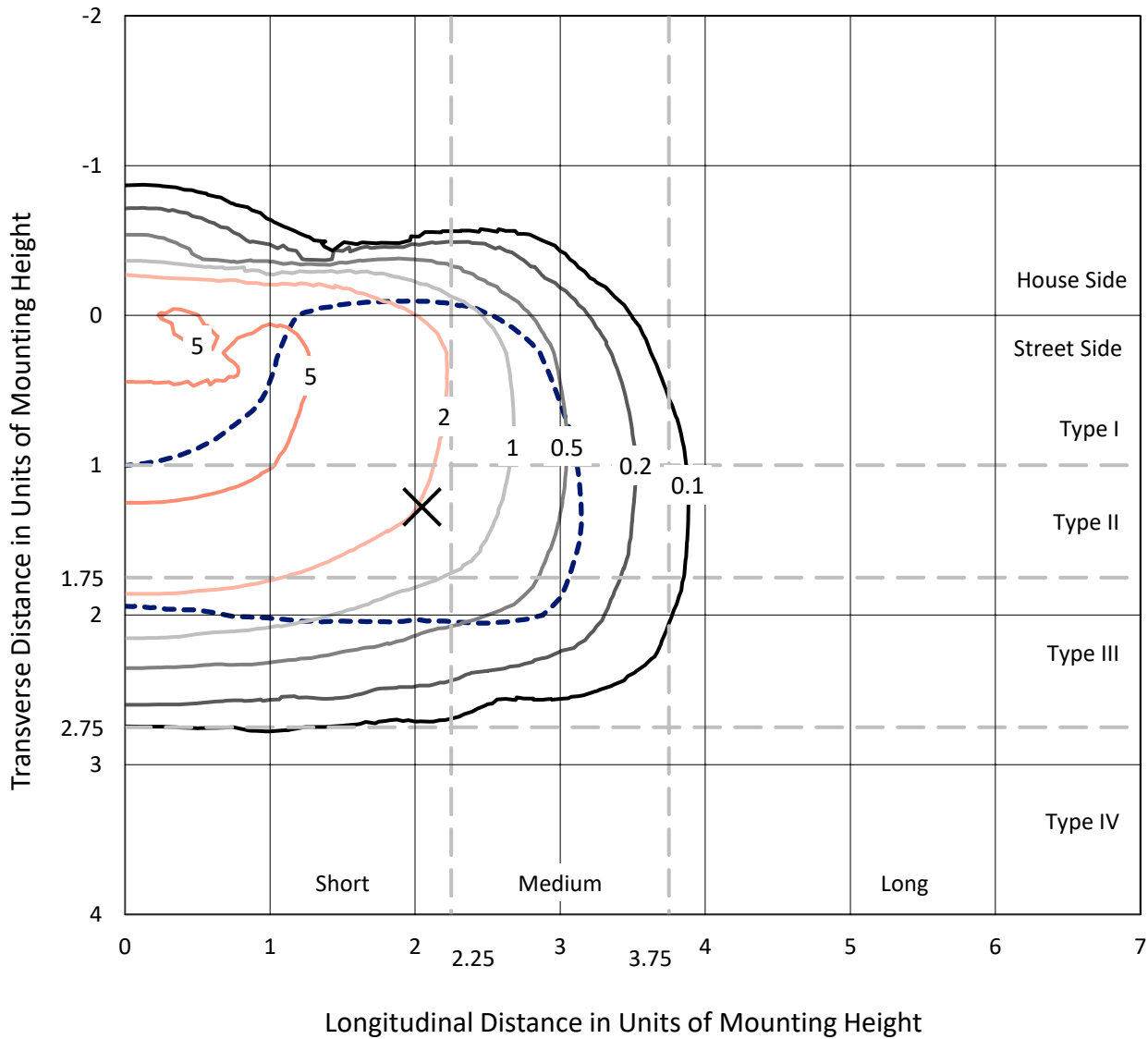
Lumens per Lamp: N/A  
Luminaire Lumens: 26914.2 lumens  
Efficiency: N/A  
Efficacy: 72.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

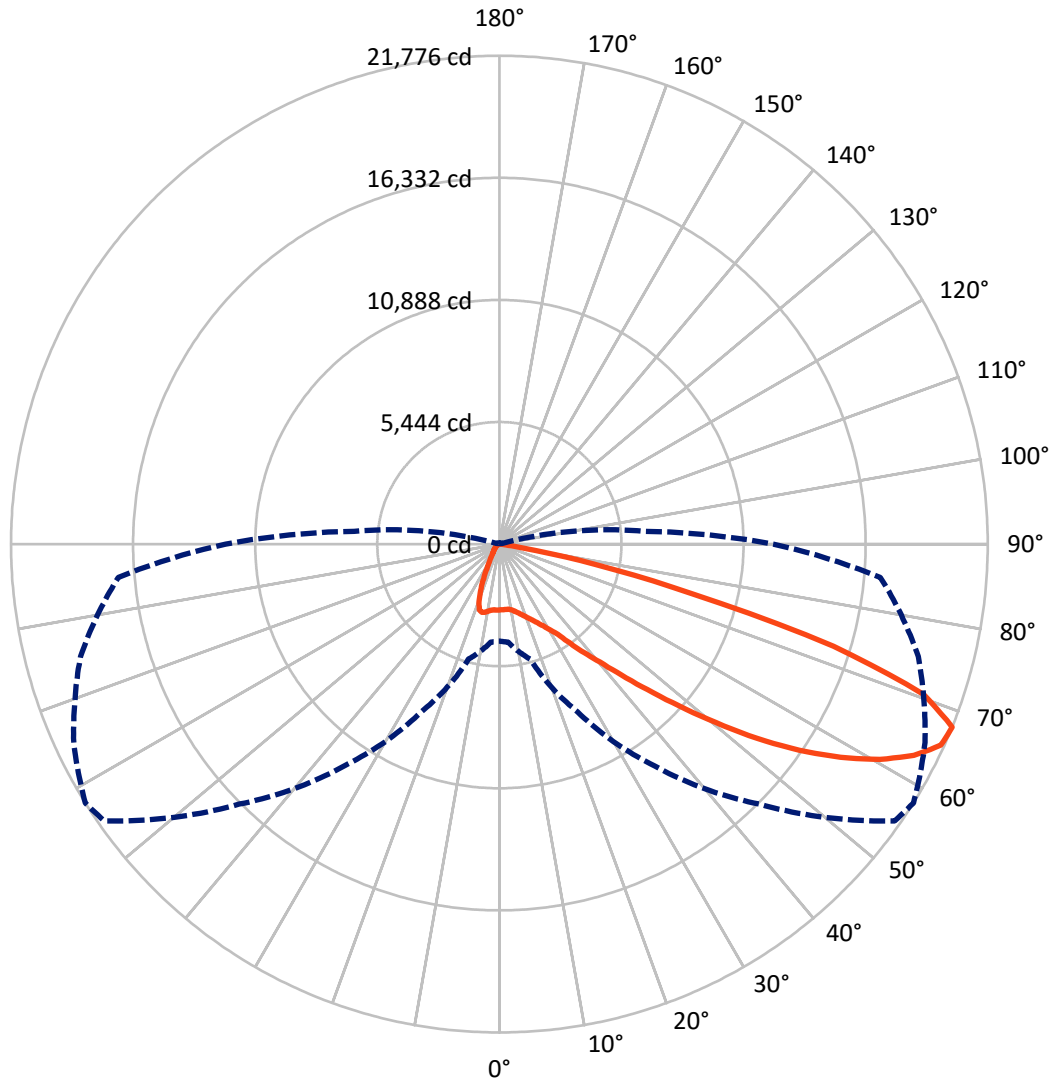
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2936.3	0.0	2936.3
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	23977.9	0.0	23977.9
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	26914.2	0.0	26914.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.5	1.0
10°-20°	773.5	2.9
20°-30°	1350.2	5.0
30°-40°	2411.3	9.0
40°-50°	4407.5	16.4
50°-60°	7330.1	27.2
60°-70°	7961.8	29.6
70°-80°	2337.6	8.7
80°-90°	66.6	0.2
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°	26914.2	100.0
0°-180°	26914.2	100.0

**Coefficient of Utilization**



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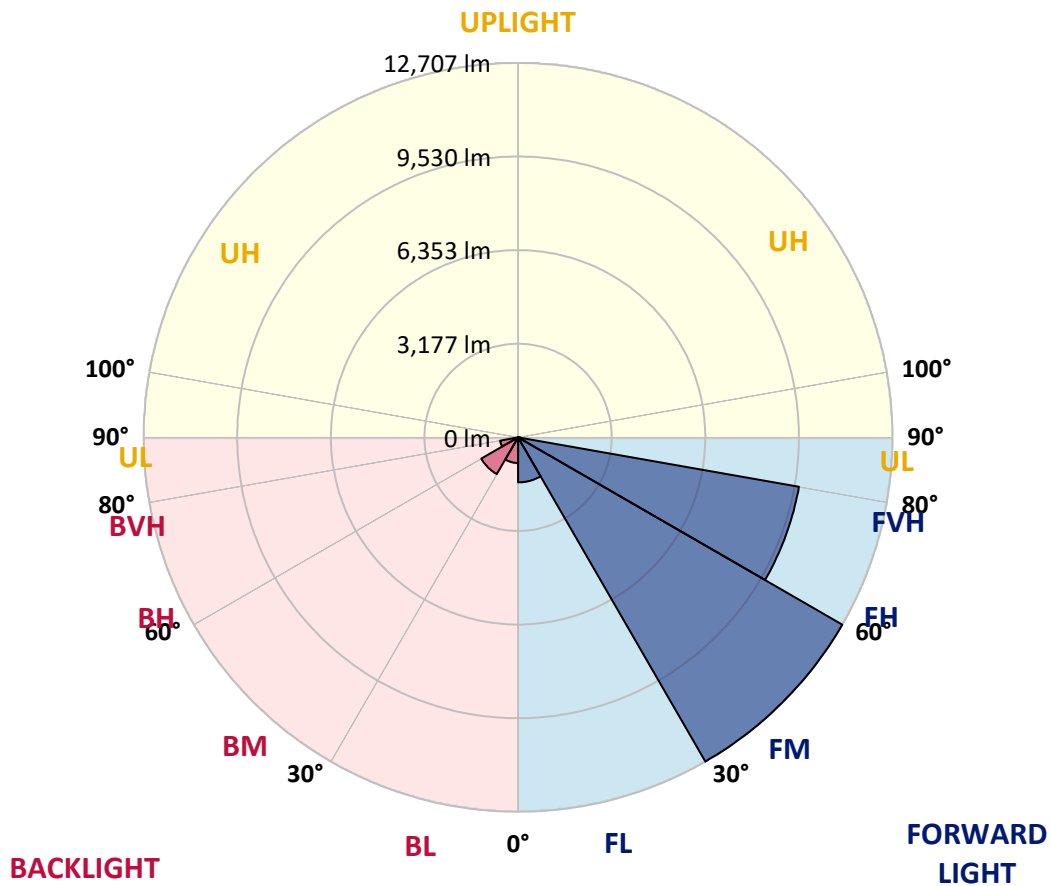
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1528.3	5.7			
FM (30°-60°)	12706.7	47.2			
FH (60°-80°)	9679.6	36.0			G4/12000
FVH (80°-90°)	63.3	0.2			G1/100
BL (0°-30°)	871.0	3.2	B2/1000		
BM (30°-60°)	1442.2	5.4	B2/2500		
BH (60°-80°)	619.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2932.8	2932.8	2932.8	2932.8	2932.8	2932.8	2932.8	2932.8	2932.8	2932.8	2932.8
2.5°	2877.7	2872.4	2872.4	2893.4	2896.1	2906.6	2930.2	2932.8	2946.0	2940.7	2922.3
5°	2727.9	2730.5	2746.3	2783.0	2814.6	2854.0	2911.8	2925.0	2953.9	2969.6	2959.1
7.5°	2588.6	2591.2	2614.9	2672.7	2733.1	2812.0	2906.6	2932.8	2990.7	3032.7	3035.3
10°	2536.0	2533.4	2557.0	2622.7	2701.6	2812.0	2948.6	2982.8	3069.5	3143.1	3156.2
12.5°	2551.8	2549.2	2572.8	2633.3	2720.0	2859.3	3022.2	3069.5	3179.9	3292.9	3316.5
15°	2614.9	2612.2	2628.0	2677.9	2772.5	2917.1	3116.8	3187.8	3327.0	3463.7	3500.5
17.5°	2804.1	2790.9	2775.2	2780.4	2835.6	2985.4	3237.7	3324.4	3497.9	3660.8	3692.3
20°	3140.5	3106.3	3064.2	3009.1	2982.8	3085.3	3377.0	3476.8	3687.1	3873.7	3878.9
22.5°	3647.7	3634.5	3537.3	3377.0	3264.0	3266.6	3539.9	3655.5	3913.1	4118.1	4089.2
25°	4354.6	4346.7	4196.9	3934.1	3639.8	3539.9	3747.5	3865.8	4181.1	4399.3	4307.3
27.5°	5232.3	5177.2	5001.1	4646.3	4207.4	3894.7	4010.3	4115.4	4465.0	4669.9	4496.5
30°	5997.1	5999.7	5834.2	5463.6	4969.5	4428.2	4330.9	4422.9	4725.1	4940.6	4730.4
32.5°	6732.9	6756.6	6575.2	6241.5	5700.1	5124.6	4790.8	4806.6	5058.9	5292.8	5037.9
35°	7416.2	7434.6	7308.5	7024.6	6520.1	5852.5	5432.1	5424.2	5560.8	5800.0	5466.2
37.5°	8181.0	8199.3	8075.8	7820.9	7347.9	6685.6	6160.0	6149.5	6204.7	6399.2	6018.1
40°	8995.6	9029.8	8893.1	8677.6	8225.6	7665.9	7006.2	6911.6	6856.4	7085.1	6732.9
42.5°	9820.8	9873.4	9826.1	9610.6	9224.3	8761.7	8104.7	7957.6	7839.3	8125.8	7752.6
45°	10845.7	10908.8	10887.8	10722.2	10422.6	10046.8	9426.6	9255.8	9200.6	9466.0	9021.9
47.5°	11831.2	11899.6	11975.8	11939.0	11726.1	11552.7	10864.1	10766.9	10751.1	11035.0	10346.4
50°	12564.4	12627.5	12919.2	13129.5	13274.0	13237.2	12640.7	12496.1	12472.5	12653.8	11744.5
52.5°	13090.0	13150.5	13552.6	14209.6	14740.4	15029.5	14427.7	14396.2	14267.4	14204.3	13053.3
55°	13497.4	13581.5	14004.6	14998.0	16067.6	16708.8	16333.0	16220.0	15888.9	15526.2	14267.4
57.5°	13578.9	13613.0	14209.6	15549.9	17097.7	18135.8	18135.8	17938.7	17300.1	16798.2	15670.7
60°	12848.3	12953.4	13760.2	15505.2	17539.2	19068.7	19631.1	19494.5	18632.5	18014.9	17021.5
62.5°	11226.8	11345.1	12327.9	14435.6	17097.7	19260.6	20763.8	20742.8	19770.4	19021.4	18141.1
65°	8609.3	8696.0	9552.8	12075.6	15231.9	18522.1	21573.2	21631.0	20669.2	19686.3	18527.4
67.5°	4325.7	4386.1	5311.2	8249.3	12073.0	16396.1	21518.0	21775.6	20942.5	19334.2	17053.1
70°	1511.1	1571.5	2007.8	3539.9	7347.9	12519.8	19657.4	20077.9	19336.8	16503.8	12580.2
72.5°	517.7	546.6	833.1	1314.0	2859.3	7421.5	14948.0	15581.4	14254.3	11079.6	7229.6
75°	294.3	312.7	446.8	712.2	1198.4	2441.4	8480.5	8869.5	8309.7	6039.1	2974.9
77.5°	199.7	215.5	278.6	404.7	662.3	785.8	3458.4	4354.6	3797.5	1971.0	759.5
80°	118.3	128.8	170.8	239.1	339.0	304.8	741.1	985.5	1269.3	588.7	228.6
82.5°	55.2	63.1	110.4	157.7	170.8	128.8	218.1	265.4	357.4	289.1	94.6
85°	0.0	0.0	36.8	65.7	63.1	36.8	60.4	65.7	97.2	144.5	36.8
87.5°	0.0	0.0	0.0	0.0	0.0	2.6	5.3	7.9	15.8	28.9	15.8
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°	2932.8	2932.8	2932.8	2932.8	2932.8	2932.8	2932.8	2932.8	2932.8	2932.8	2932.8
2.5°	2943.4	2925.0	2946.0	2935.5	2946.0	2943.4	2922.3	2909.2	2909.2	2885.5	2877.7
5°	2980.1	2961.8	2967.0	2943.4	2938.1	2925.0	2898.7	2888.2	2888.2	2864.5	2856.6
7.5°	3061.6	3032.7	3027.5	2980.1	2959.1	2922.3	2875.0	2856.6	2854.0	2830.4	2822.5
10°	3190.4	3156.2	3132.6	3072.1	3011.7	2938.1	2838.2	2754.1	2706.8	2643.8	2638.5
12.5°	3348.1	3306.0	3269.2	3177.2	3077.4	2911.8	2617.5	2310.0	2120.8	1971.0	1981.5
15°	3524.1	3484.7	3426.9	3287.6	3082.6	2651.6	2036.7	1563.7	1332.4	1208.9	1203.6
17.5°	3716.0	3658.2	3563.6	3374.3	2917.1	2026.2	1324.5	935.6	814.7	772.6	762.1
20°	3894.7	3823.7	3705.5	3392.7	2438.8	1371.8	827.8	725.3	704.3	691.2	691.2
22.5°	4083.9	3994.6	3818.5	3250.8	1813.3	877.8	704.3	680.7	664.9	646.5	643.9
25°	4275.7	4160.1	3921.0	2880.3	1187.9	691.2	659.6	633.3	604.4	575.5	567.6
27.5°	4438.7	4288.9	3999.8	2328.4	762.1	622.8	601.8	557.1	517.7	486.2	480.9
30°	4633.2	4441.3	4034.0	1702.9	599.2	549.3	517.7	470.4	423.1	391.6	381.1
32.5°	4893.3	4683.1	3981.4	1109.0	530.9	483.6	433.6	378.4	331.1	297.0	291.7
35°	5298.0	5048.4	3739.6	706.9	480.9	417.9	357.4	299.6	260.2	233.9	228.6
37.5°	5792.1	5560.8	3342.8	530.9	431.0	362.7	291.7	236.5	207.6	189.2	184.0
40°	6525.3	6202.1	2851.4	465.2	381.1	307.5	239.1	194.5	173.4	157.7	152.4
42.5°	7476.6	6958.9	2286.4	423.1	333.8	257.5	194.5	160.3	141.9	131.4	128.8
45°	8588.3	7697.4	1689.8	381.1	289.1	212.9	160.3	131.4	118.3	110.4	107.7
47.5°	9726.2	8343.9	1166.8	336.4	247.0	176.1	134.0	113.0	102.5	92.0	89.4
50°	10940.3	8890.5	796.3	291.7	210.2	144.5	115.6	102.5	89.4	81.5	78.8
52.5°	11831.2	9092.9	554.5	252.3	178.7	123.5	102.5	92.0	81.5	71.0	68.3
55°	12653.8	9087.6	420.5	212.9	152.4	107.7	92.0	81.5	71.0	63.1	60.4
57.5°	13473.7	9016.7	331.1	181.3	131.4	97.2	81.5	71.0	65.7	55.2	52.6
60°	14004.6	8748.6	257.5	152.4	113.0	84.1	71.0	63.1	55.2	47.3	44.7
62.5°	14285.8	8375.4	197.1	120.9	92.0	73.6	63.1	55.2	47.3	39.4	36.8
65°	13904.7	7713.2	155.1	94.6	71.0	63.1	52.6	44.7	36.8	28.9	26.3
67.5°	12214.9	6504.3	120.9	76.2	55.2	47.3	44.7	36.8	26.3	21.0	18.4
70°	8633.0	4454.5	94.6	57.8	42.0	36.8	34.2	28.9	21.0	15.8	13.1
72.5°	4738.3	2246.9	68.3	42.0	31.5	28.9	26.3	23.7	18.4	13.1	13.1
75°	1823.8	617.6	49.9	28.9	21.0	21.0	18.4	18.4	15.8	10.5	10.5
77.5°	475.7	184.0	31.5	18.4	13.1	13.1	13.1	10.5	10.5	7.9	7.9
80°	152.4	60.4	18.4	13.1	10.5	7.9	7.9	5.3	7.9	5.3	5.3
82.5°	49.9	21.0	10.5	10.5	7.9	5.3	5.3	2.6	2.6	0.0	0.0
85°	18.4	10.5	7.9	5.3	5.3	5.3	2.6	0.0	0.0	0.0	0.0
87.5°	10.5	5.3	5.3	5.3	5.3	2.6	0.0	0.0	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)