

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: P642447

Luminaire Tested: GWS-SA6C-830-U-T1-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642447  
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-SA6C-830-U-T1-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

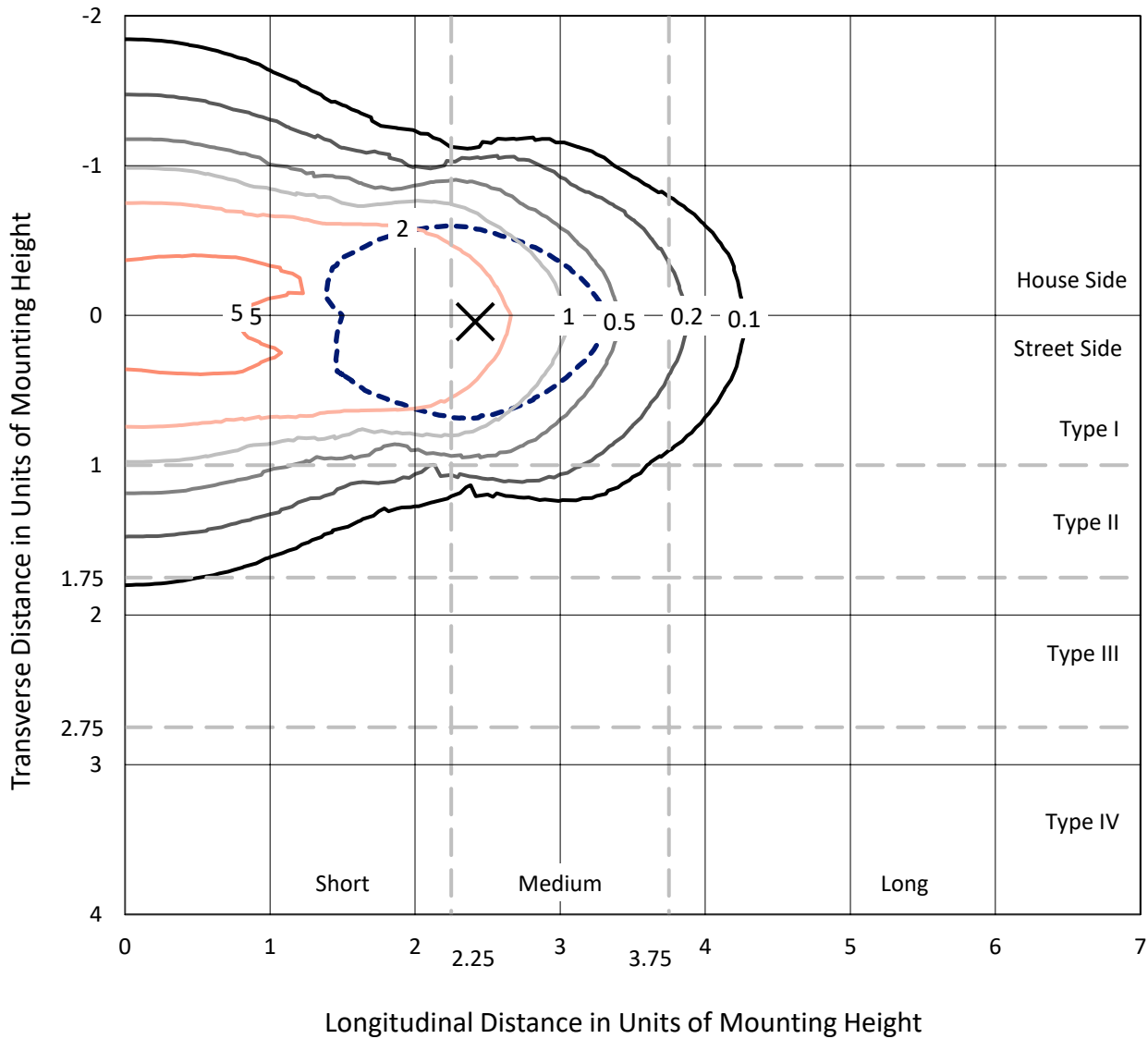
Lumens per Lamp: N/A  
Luminaire Lumens: 22515.2 lumens  
Efficiency: N/A  
Efficacy: 119.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

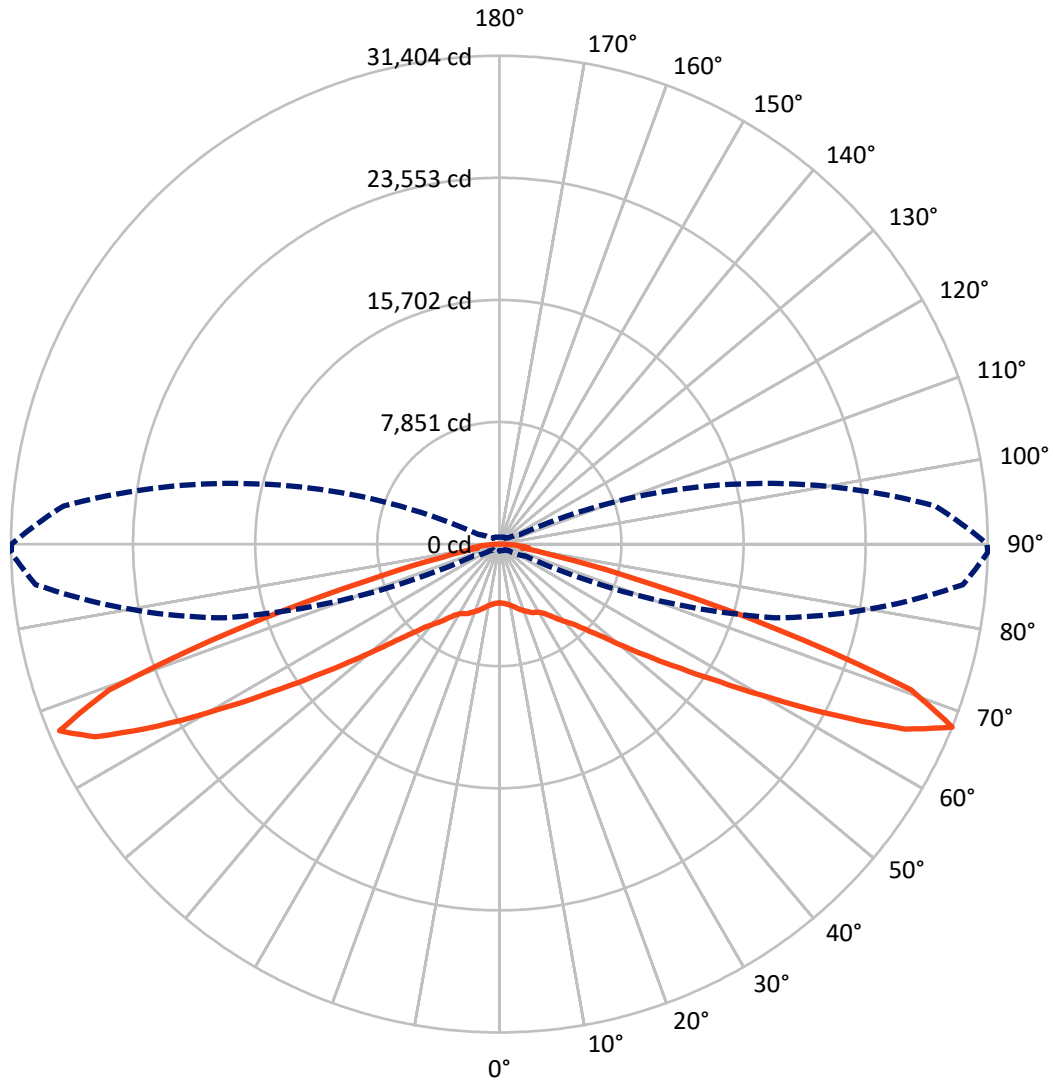
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	11158.9	0.0	11158.9
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	11356.3	0.0	11356.3
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	22515.2	0.0	22515.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.1	1.7
10°-20°	1234.3	5.5
20°-30°	2086.5	9.3
30°-40°	2863.5	12.7
40°-50°	3651.5	16.2
50°-60°	4581.4	20.3
60°-70°	5525.6	24.5
70°-80°	1999.0	8.9
80°-90°	194.4	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°	22515.2	100.0
0°-180°	22515.2	100.0

**Coefficient of Utilization**



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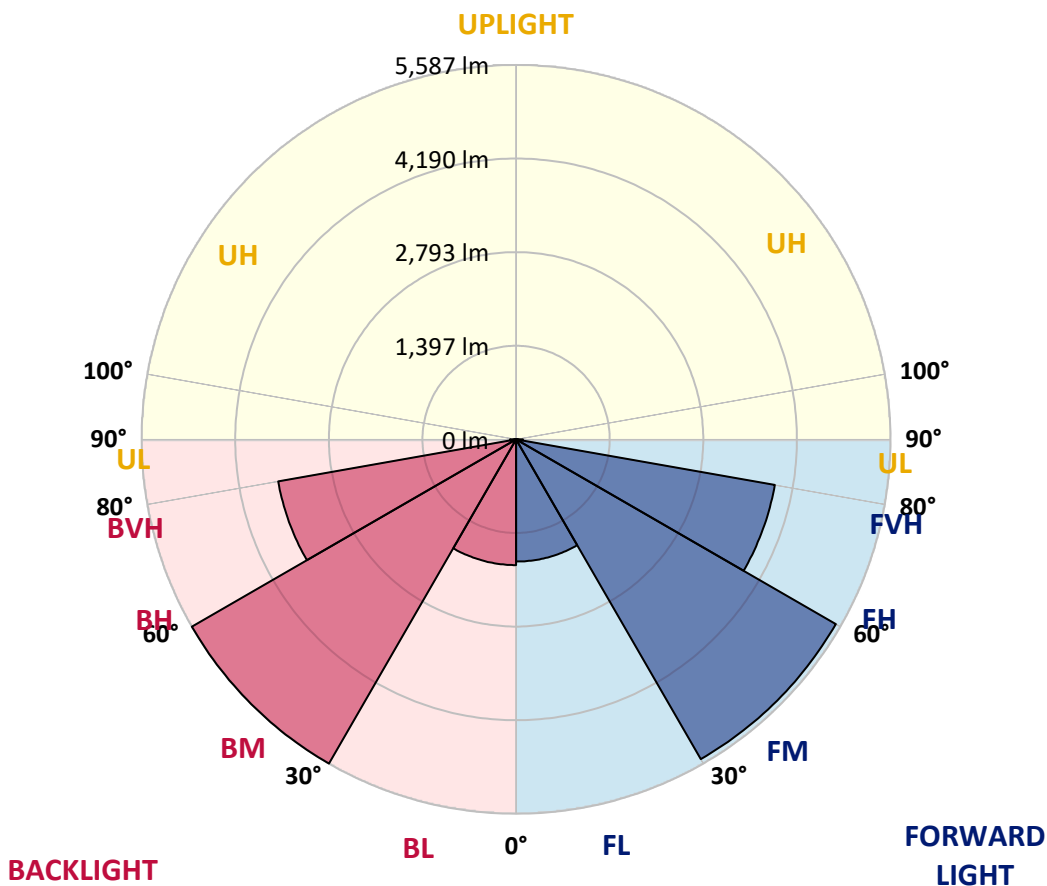
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1823.6	8.1			
FM (30°-60°)	5509.9	24.5			
FH (60°-80°)	3920.2	17.4			G2/5000
FVH (80°-90°)	102.6	0.5			G2/225
BL (0°-30°)	1876.3	8.3	B3/2500		
BM (30°-60°)	5586.5	24.8	B4/8500		
BH (60°-80°)	3604.3	16.0	B4/5000		G4/5000
BVH (80°-90°)	91.8	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°	3779.0	3779.0	3779.0	3779.0	3779.0	3779.0	3779.0	3779.0	3779.0	3779.0	3779.0
2.5°	3790.3	3787.1	3779.0	3803.3	3798.4	3800.0	3809.7	3803.3	3791.9	3772.5	3800.0
5°	3897.0	3895.4	3877.6	3892.2	3876.0	3864.7	3863.1	3846.9	3834.0	3813.0	3842.1
7.5°	4000.5	3998.9	3984.4	4010.2	3997.3	3984.4	3969.8	3937.5	3906.7	3876.0	3908.4
10°	4079.8	4078.1	4074.9	4112.1	4115.3	4120.2	4113.7	4058.7	4005.4	3968.2	4000.5
12.5°	4125.0	4129.9	4138.0	4205.9	4239.8	4272.2	4280.3	4235.0	4146.1	4092.7	4131.5
15°	4094.3	4104.0	4144.4	4267.3	4361.1	4433.9	4464.6	4427.4	4312.6	4223.7	4267.3
17.5°	3947.2	3955.3	4034.5	4222.1	4429.0	4597.2	4647.3	4624.7	4497.0	4388.6	4430.7
20°	3743.4	3761.2	3846.9	4108.9	4417.7	4710.4	4844.6	4836.5	4697.5	4530.9	4581.0
22.5°	3559.1	3580.1	3670.7	3960.1	4341.7	4739.5	5043.5	5064.5	4880.2	4673.2	4713.6
25°	3352.1	3371.5	3487.9	3783.8	4210.7	4716.9	5213.3	5308.7	5087.2	4836.5	4873.7
27.5°	3140.3	3154.8	3269.6	3585.0	4039.3	4674.8	5347.5	5577.1	5290.9	4949.7	4975.6
30°	2954.3	2973.7	3078.8	3386.1	3851.8	4590.7	5457.5	5863.3	5525.4	5077.5	5098.5
32.5°	2774.8	2791.0	2905.8	3190.4	3652.9	4461.4	5556.1	6199.7	5873.0	5315.2	5315.2
35°	2548.4	2577.5	2706.9	3002.8	3465.3	4290.0	5627.3	6591.0	6348.5	5666.1	5667.7
37.5°	2339.8	2356.0	2491.8	2791.0	3268.0	4095.9	5633.7	6996.9	6950.0	6112.4	6115.6
40°	2102.1	2123.2	2268.7	2564.6	3041.6	3892.2	5572.3	7375.3	7580.6	6571.6	6553.8
42.5°	1861.2	1891.9	2031.0	2320.4	2797.5	3643.2	5409.0	7735.9	8381.1	7103.6	7059.9
45°	1628.3	1647.8	1786.8	2060.1	2517.7	3345.6	5147.0	8081.9	9331.9	7912.1	7849.1
47.5°	1366.4	1374.5	1518.4	1780.3	2228.3	3014.1	4771.9	8390.8	10376.5	8982.6	8874.3
50°	1133.5	1144.9	1258.0	1482.8	1874.1	2621.2	4304.5	8571.9	11707.3	10442.8	10255.2
52.5°	916.9	928.2	1018.7	1198.2	1549.1	2173.3	3725.6	8529.8	13057.5	12255.5	11982.2
55°	740.6	748.7	810.1	950.8	1219.2	1728.6	3041.6	8153.1	14556.5	14622.8	14034.2
57.5°	625.8	629.0	671.1	756.8	952.4	1332.4	2347.9	7263.7	16128.2	17643.4	16676.4
60°	559.5	561.1	580.5	633.9	751.9	1017.1	1720.5	5847.2	17756.6	21422.4	20096.4
62.5°	517.4	517.4	533.6	564.3	624.2	782.6	1264.5	4199.4	18925.7	25534.5	24216.6
65°	477.0	477.0	488.3	514.2	546.6	638.7	949.2	2708.5	19499.7	28972.3	28679.6
67.5°	425.3	426.9	435.0	462.5	491.6	533.6	719.6	1832.1	18308.0	29923.1	31404.3
70°	376.8	378.4	389.7	407.5	431.7	460.9	562.7	1262.9	13325.9	24921.6	28079.7
72.5°	323.4	329.9	338.0	357.4	371.9	392.9	459.2	818.2	7753.7	16031.2	18561.9
75°	265.2	273.3	283.0	302.4	312.1	320.2	378.4	583.7	3730.5	8123.9	9251.0
77.5°	205.4	213.4	224.8	242.6	249.0	258.7	289.4	422.0	1786.8	3601.1	3882.5
80°	137.4	140.7	150.4	171.4	182.7	189.2	213.4	287.8	776.2	1445.6	1432.7
82.5°	84.1	85.7	88.9	101.9	106.7	113.2	139.1	176.3	370.3	1642.9	1883.8
85°	30.7	29.1	27.5	35.6	42.0	48.5	64.7	88.9	161.7	1128.7	1262.9
87.5°	0.0	0.0	0.0	1.6	3.2	3.2	6.5	12.9	38.8	422.0	289.4
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°	3779.0	3779.0	3779.0	3779.0	3779.0	3779.0	3779.0	3779.0	3779.0	3779.0	3779.0
2.5°	3791.9	3774.1	3796.8	3813.0	3848.5	3861.5	3864.7	3853.4	3853.4	3834.0	3837.2
5°	3835.6	3824.3	3861.5	3889.0	3940.7	3960.1	3973.0	3965.0	3969.8	3956.9	3960.1
7.5°	3901.9	3892.2	3956.9	4010.2	4063.6	4086.2	4097.5	4091.1	4092.7	4076.5	4081.4
10°	3994.1	3997.3	4074.9	4144.4	4215.6	4238.2	4243.1	4223.7	4207.5	4178.4	4180.0
12.5°	4120.2	4136.4	4246.3	4323.9	4396.7	4429.0	4393.5	4322.3	4256.0	4205.9	4199.4
15°	4257.6	4286.7	4445.2	4543.8	4623.1	4606.9	4501.8	4341.7	4210.7	4136.4	4121.8
17.5°	4422.6	4466.2	4665.1	4783.2	4851.1	4747.6	4527.7	4288.4	4105.6	4005.4	3986.0
20°	4577.8	4647.3	4898.0	5051.6	5059.7	4826.8	4516.4	4180.0	3950.4	3827.5	3801.6
22.5°	4720.1	4809.0	5142.1	5337.8	5232.7	4862.4	4446.8	4026.4	3762.8	3618.9	3596.3
25°	4875.3	5001.5	5426.7	5609.5	5405.7	4847.9	4301.3	3835.6	3536.4	3389.3	3373.1
27.5°	4982.1	5140.5	5713.0	5887.6	5548.0	4765.4	4113.7	3627.0	3329.5	3190.4	3167.8
30°	5105.0	5307.1	6028.3	6190.0	5635.3	4644.1	3913.2	3433.0	3137.0	2986.7	2970.5
32.5°	5328.1	5582.0	6419.6	6510.2	5662.8	4493.7	3720.8	3245.4	2936.5	2786.1	2763.5
35°	5687.1	5984.6	6969.4	6867.5	5641.8	4328.8	3538.1	3025.5	2731.2	2590.5	2567.8
37.5°	6139.9	6510.2	7582.2	7189.3	5583.6	4147.7	3321.4	2841.1	2546.8	2404.5	2391.6
40°	6561.9	7017.9	8269.5	7467.4	5465.6	3924.5	3112.8	2648.7	2347.9	2197.5	2168.4
42.5°	7090.7	7697.1	9065.1	7708.4	5271.5	3657.7	2878.3	2411.0	2098.9	1963.1	1927.5
45°	7894.3	8647.9	9990.0	7939.6	4982.1	3329.5	2584.0	2121.5	1825.6	1686.6	1659.1
47.5°	8896.9	9836.4	10992.6	8077.1	4542.2	2983.4	2250.9	1815.9	1520.0	1363.2	1350.2
50°	10305.3	11565.0	12067.9	8052.8	4050.7	2572.7	1875.8	1452.1	1204.7	1091.5	1073.7
52.5°	12021.0	13735.0	13230.5	7761.7	3528.4	2105.4	1461.8	1140.0	955.7	874.8	860.3
55°	14173.3	16333.6	14454.6	7137.6	2868.6	1612.2	1148.1	899.1	772.9	724.4	718.0
57.5°	16838.1	19698.6	15633.4	6086.5	2157.1	1230.6	884.5	742.2	682.4	653.3	651.7
60°	20355.2	23270.7	16657.0	4729.8	1544.3	941.1	730.9	663.0	616.1	596.7	595.1
62.5°	24536.8	26514.4	17294.1	3221.1	1161.0	750.3	643.6	601.5	574.0	562.7	561.1
65°	28834.8	28564.8	16990.1	2110.2	881.3	637.1	577.3	554.6	530.4	519.1	519.1
67.5°	31373.6	28131.4	14656.7	1465.0	698.6	559.5	520.7	499.7	459.2	449.5	449.5
70°	27788.6	22795.2	9606.8	1072.1	566.0	490.0	452.8	423.7	407.5	397.8	396.2
72.5°	18379.1	14833.0	5108.2	743.8	472.2	417.2	383.2	371.9	352.5	342.8	341.2
75°	9147.5	7790.8	2618.0	536.9	392.9	334.7	320.2	315.3	299.2	286.2	283.0
77.5°	3813.0	3468.5	1220.9	389.7	299.2	270.0	257.1	257.1	239.3	224.8	218.3
80°	1437.5	1280.7	577.3	266.8	221.5	200.5	192.4	186.0	171.4	153.6	143.9
82.5°	1922.6	1256.4	283.0	166.6	145.5	129.4	118.0	113.2	105.1	97.0	90.6
85°	1245.1	892.6	127.7	85.7	72.8	55.0	48.5	45.3	40.4	35.6	32.3
87.5°	253.9	299.2	38.8	16.2	9.7	4.9	4.9	1.6	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)