

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: P643495

Luminaire Tested: GWS-SA6F-722-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643495  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6F-722-U-T2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

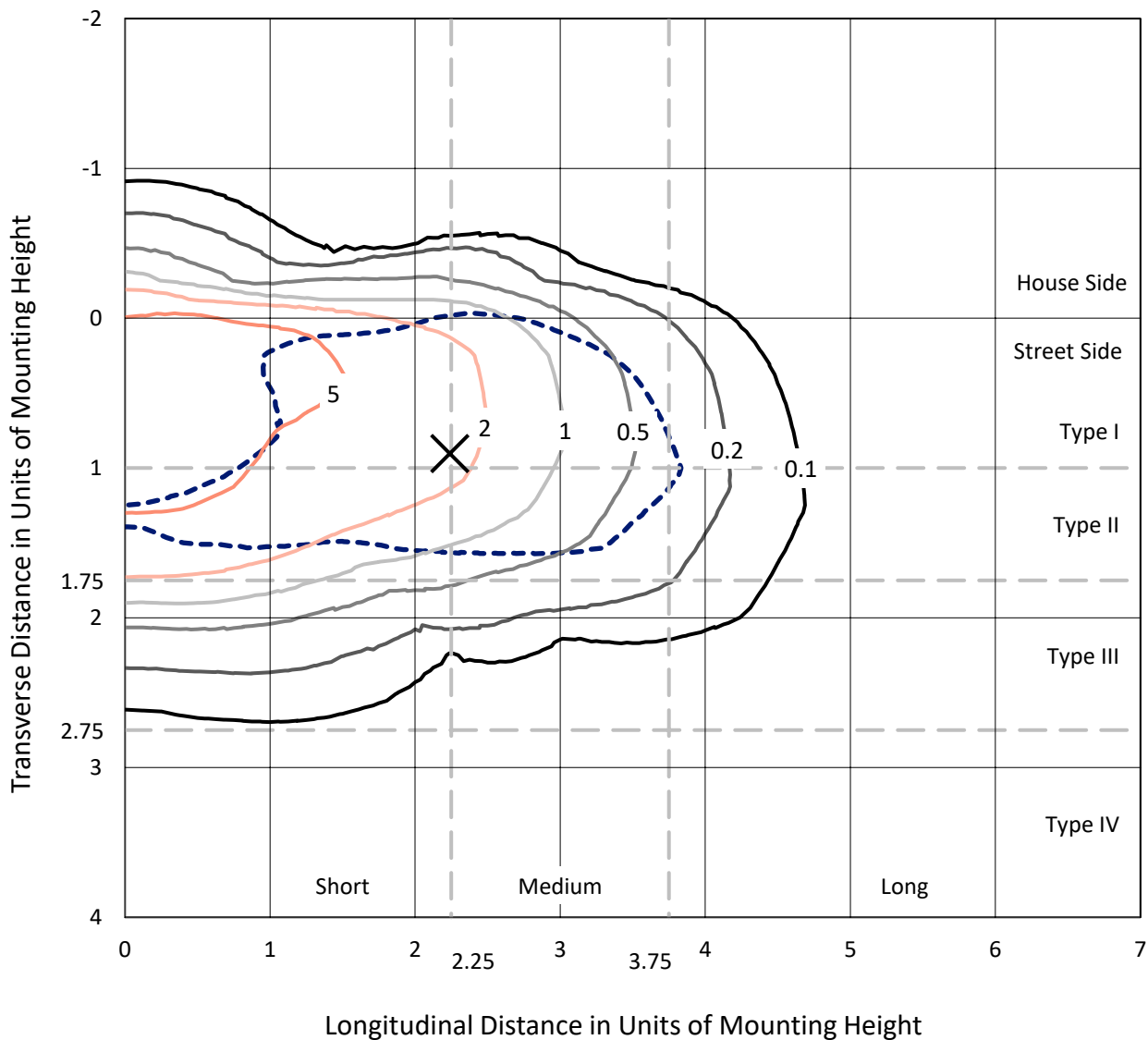
Lumens per Lamp: N/A  
Luminaire Lumens: 27460.8 lumens  
Efficiency: N/A  
Efficacy: 73.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

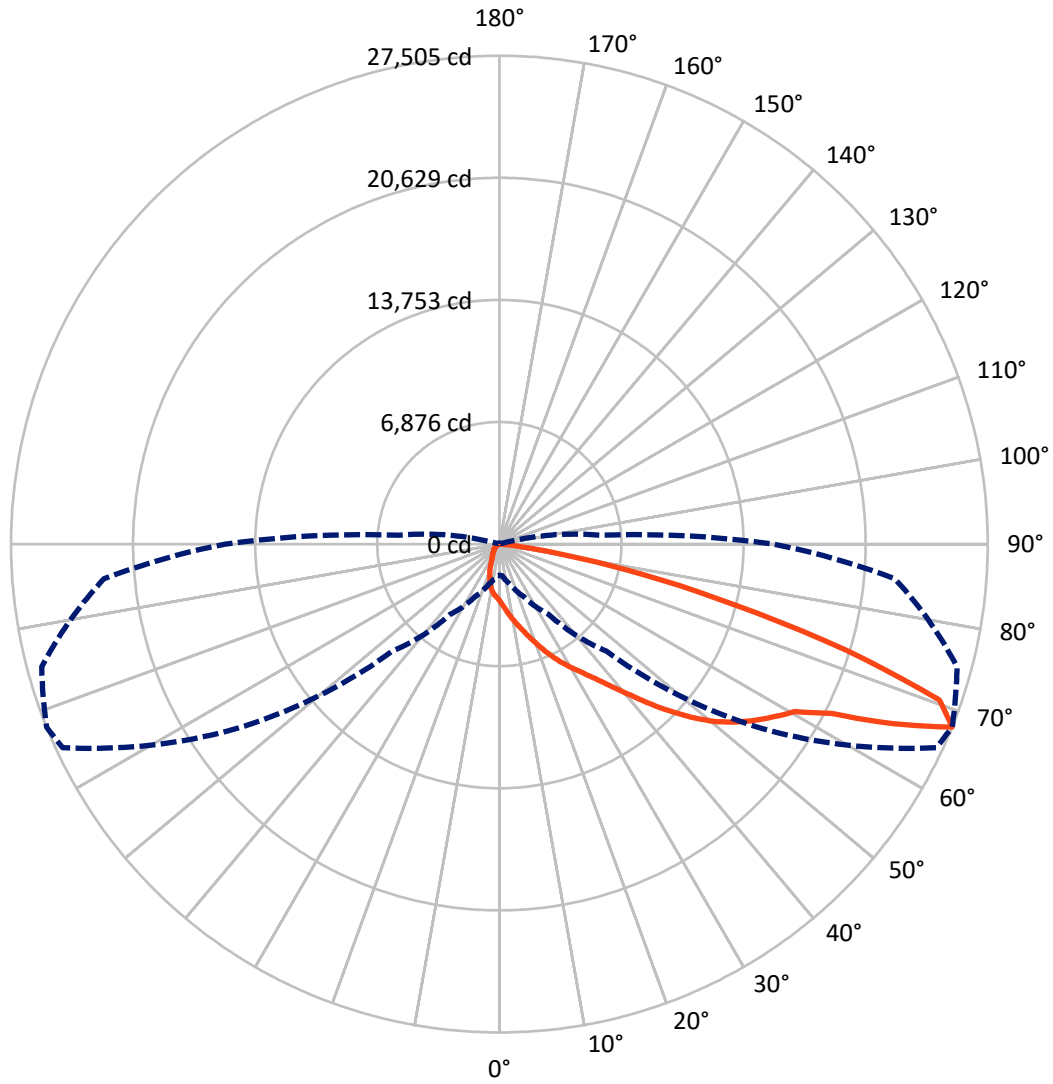
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1983.0	0.0	1983.0
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	25477.8	0.0	25477.8
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	27460.8	0.0	27460.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	311.7	1.1
10°-20°	895.1	3.3
20°-30°	1538.1	5.6
30°-40°	2674.3	9.7
40°-50°	4666.3	17.0
50°-60°	7038.0	25.6
60°-70°	7057.3	25.7
70°-80°	3113.7	11.3
80°-90°	166.3	0.6
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°	27460.8	100.0
0°-180°	27460.8	100.0

**Coefficient of Utilization**



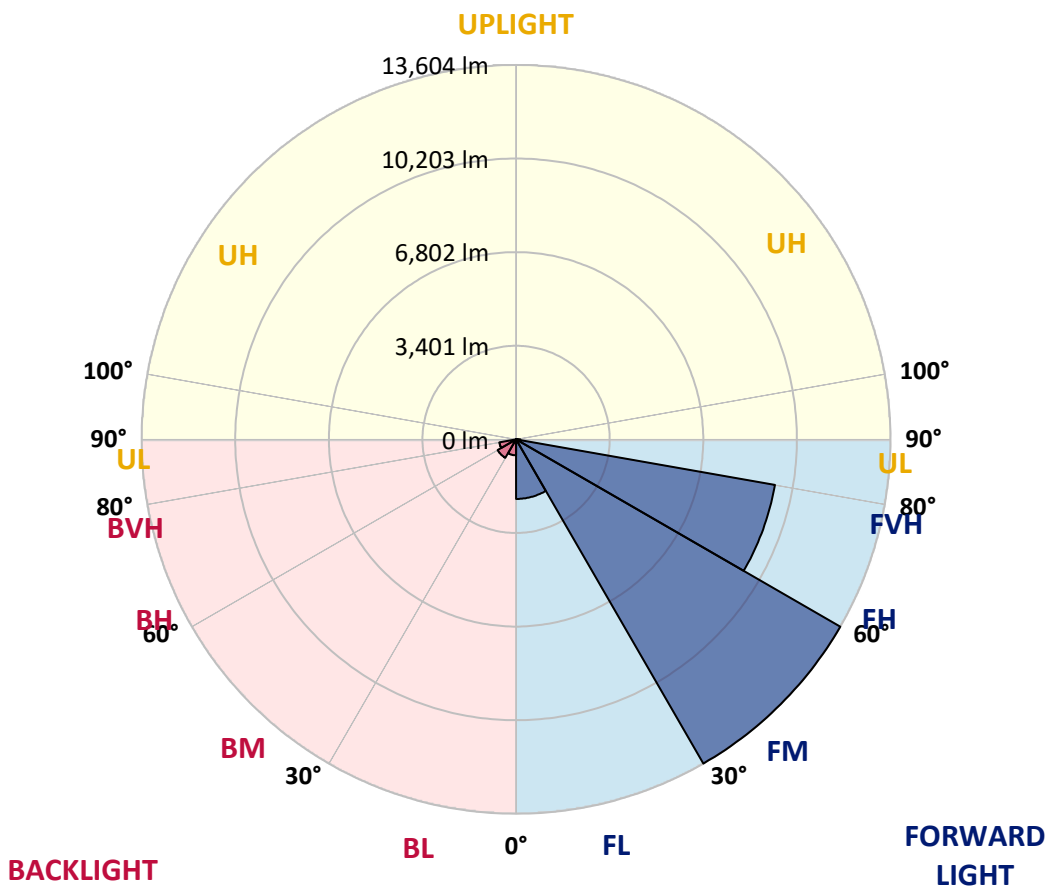
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2164.7	7.9			
FM (30°-60°)	13604.0	49.5			
FH (60°-80°)	9552.1	34.8			G4/12000
FVH (80°-90°)	156.9	0.6			G2/225
BL (0°-30°)	580.1	2.1	B2/1000		
BM (30°-60°)	774.6	2.8	B1/1000		
BH (60°-80°)	618.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	9.4	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	3195.7	3195.7	3195.7	3195.7	3195.7	3195.7	3195.7	3195.7	3195.7	3195.7	3195.7
2.5°	3721.4	3745.0	3721.4	3726.6	3658.3	3626.7	3558.4	3463.8	3440.1	3379.7	3287.7
5°	4176.0	4197.0	4173.4	4168.1	4089.3	4031.5	3918.5	3755.5	3708.2	3590.0	3408.6
7.5°	4423.0	4436.2	4444.1	4457.2	4428.3	4381.0	4278.5	4076.1	4026.2	3834.4	3579.4
10°	4449.3	4459.8	4499.3	4578.1	4635.9	4664.8	4607.0	4420.4	4341.6	4155.0	3789.7
12.5°	4375.7	4391.5	4454.6	4586.0	4746.3	4893.5	4930.3	4767.3	4696.4	4457.2	4036.7
15°	4278.5	4291.6	4378.4	4557.1	4798.9	5069.6	5222.0	5151.0	5072.2	4822.5	4310.0
17.5°	4128.7	4147.1	4268.0	4509.8	4822.5	5208.8	5537.4	5561.0	5505.8	5235.1	4612.3
20°	4044.6	4057.7	4165.5	4415.2	4806.7	5311.3	5831.7	6055.1	5994.6	5710.8	4959.2
22.5°	4115.6	4126.1	4197.0	4391.5	4754.2	5369.2	6105.0	6549.2	6515.0	6220.7	5324.5
25°	4488.8	4522.9	4480.9	4515.0	4777.8	5400.7	6325.8	7043.2	7051.1	6754.2	5702.9
27.5°	5245.6	5201.0	5101.1	4930.3	4961.8	5484.8	6515.0	7508.4	7576.7	7274.5	6039.3
30°	6015.7	5989.4	5928.9	5663.5	5442.7	5671.4	6675.3	7984.1	8091.8	7787.0	6338.9
32.5°	6880.3	6906.6	6798.8	6480.8	6105.0	6049.8	6840.9	8436.1	8638.5	8367.8	6691.1
35°	7913.1	7921.0	7708.1	7356.0	6930.2	6675.3	7137.9	8935.5	9308.6	9108.9	7161.5
37.5°	8919.7	8967.0	8851.4	8296.8	7918.4	7453.2	7629.3	9576.7	10102.3	10023.5	7752.8
40°	9810.6	9884.2	9847.4	9311.3	8814.6	8423.0	8391.4	10328.3	11061.6	11150.9	8533.4
42.5°	10520.2	10567.5	10596.4	10215.3	9776.4	9555.7	9332.3	11200.9	12194.3	12559.6	9490.0
45°	11269.2	11285.0	11345.4	11087.8	10704.1	10722.5	10444.0	12260.0	13387.4	14120.6	10588.5
47.5°	12223.2	12275.7	12246.8	11976.1	11629.2	11836.8	11592.4	13350.6	14564.8	15786.8	11713.3
50°	13384.8	13440.0	13413.7	13098.3	12712.0	12798.7	12646.3	14409.7	15700.1	17358.4	12648.9
52.5°	13984.0	14028.7	14354.5	14496.5	14294.1	13742.2	13545.1	15574.0	16659.4	18651.4	13508.3
55°	13694.9	13726.4	14436.0	15035.2	15776.3	15224.4	14449.2	16472.8	17505.6	19660.6	14146.9
57.5°	12496.5	12667.3	13631.8	14646.3	16204.7	16688.3	15915.6	17450.4	18320.3	20362.3	14775.0
60°	10039.2	10031.4	11413.7	13235.0	15369.0	17090.4	17986.5	18772.3	19137.6	20901.1	15616.0
62.5°	5547.9	5597.8	7437.5	9836.9	13045.8	16049.7	19539.7	21056.1	21000.9	21841.9	16932.7
65°	2762.1	2862.0	3860.6	5634.6	8680.5	13263.9	19807.8	24541.0	24383.3	24057.4	19652.7
67.5°	1752.9	1792.3	2344.2	3274.6	4825.1	8525.5	18139.0	27140.1	27505.4	26685.5	22351.8
70°	1135.3	1201.0	1629.4	2239.1	2911.9	4394.1	13287.5	25455.5	26293.9	26396.4	20669.8
72.5°	617.6	664.9	1040.7	1597.9	2102.5	2197.1	7463.7	19103.5	20451.7	22391.2	16170.5
75°	352.2	386.3	570.3	1085.4	1542.7	1337.7	3308.7	12788.2	13647.6	16002.3	11587.2
77.5°	212.9	241.8	320.6	528.2	967.1	893.5	1251.0	7784.4	8331.0	9547.8	6081.4
80°	97.2	115.6	202.4	291.7	528.2	423.1	478.3	3629.4	3747.6	3918.5	2013.1
82.5°	44.7	52.6	92.0	173.5	299.6	244.4	184.0	838.4	1180.0	1116.9	512.5
85°	5.3	5.3	34.2	71.0	84.1	63.1	76.2	189.2	239.2	336.4	147.2
87.5°	0.0	0.0	2.6	2.6	5.3	7.9	15.8	23.7	34.2	55.2	36.8
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°	3195.7	3195.7	3195.7	3195.7	3195.7	3195.7	3195.7	3195.7	3195.7	3195.7	3195.7
2.5°	3245.7	3172.1	3106.4	3009.1	2943.4	2869.9	2819.9	2759.5	2735.8	2717.4	2691.1
5°	3319.3	3201.0	3040.7	2862.0	2714.8	2575.5	2446.7	2362.6	2289.1	2278.5	2241.7
7.5°	3440.1	3264.1	2993.4	2701.7	2452.0	2220.7	2039.4	1892.2	1818.6	1795.0	1752.9
10°	3600.5	3358.7	2922.4	2475.6	2115.6	1839.7	1634.7	1469.1	1353.5	1311.4	1279.9
12.5°	3779.2	3445.4	2809.4	2197.1	1787.1	1471.7	1211.5	1035.5	961.9	935.6	911.9
15°	3984.2	3526.9	2630.7	1918.5	1466.5	1082.8	898.8	822.6	791.1	783.2	775.3
17.5°	4181.3	3579.4	2417.8	1629.4	1127.4	841.0	754.3	725.3	717.5	709.6	704.3
20°	4404.7	3616.2	2168.2	1356.1	875.1	712.2	670.2	649.1	633.4	617.6	615.0
22.5°	4633.3	3616.2	1897.5	1088.0	733.2	638.6	591.3	551.9	523.0	507.2	502.0
25°	4851.4	3566.3	1629.4	869.9	646.5	567.7	507.2	462.5	423.1	404.7	399.5
27.5°	5006.5	3437.5	1395.5	735.9	586.1	504.6	431.0	381.1	349.5	331.1	328.5
30°	5103.7	3245.7	1180.0	657.0	533.5	438.9	365.3	323.3	299.6	286.5	281.2
32.5°	5177.3	3009.1	988.2	601.8	483.6	381.1	318.0	283.8	262.8	252.3	249.7
35°	5324.5	2785.8	846.2	551.9	431.0	333.8	278.6	252.3	236.5	223.4	220.8
37.5°	5529.5	2599.2	733.2	507.2	381.1	297.0	252.3	228.6	215.5	202.4	199.7
40°	5831.7	2480.9	649.1	462.5	336.4	268.1	231.3	210.2	191.8	178.7	176.1
42.5°	6296.9	2425.7	593.9	417.9	297.0	241.8	212.9	186.6	168.2	155.1	152.4
45°	6851.4	2454.6	546.6	373.2	270.7	223.4	189.2	162.9	144.5	131.4	128.8
47.5°	7445.3	2557.1	507.2	331.1	244.4	205.0	168.2	139.3	123.5	110.4	107.8
50°	8065.6	2725.3	473.1	291.7	223.4	184.0	144.5	120.9	105.1	94.6	92.0
52.5°	8604.3	2954.0	438.9	262.8	205.0	162.9	126.1	105.1	89.4	78.8	76.2
55°	9119.4	3169.5	412.6	236.5	184.0	141.9	110.4	89.4	76.2	65.7	63.1
57.5°	9679.2	3398.1	381.1	212.9	165.6	126.1	97.2	76.2	65.7	55.2	52.6
60°	10493.9	3737.1	333.8	194.5	144.5	110.4	84.1	68.3	57.8	44.7	42.0
62.5°	11668.7	4354.7	281.2	168.2	123.5	94.6	71.0	57.8	47.3	36.8	31.5
65°	13865.7	5405.9	231.3	139.3	99.9	78.8	60.4	47.3	36.8	26.3	23.7
67.5°	15447.8	5679.3	186.6	113.0	81.5	60.4	49.9	36.8	26.3	18.4	15.8
70°	13505.7	4078.8	144.5	92.0	68.3	47.3	39.4	28.9	18.4	13.1	10.5
72.5°	10175.9	2664.9	107.8	71.0	52.6	39.4	28.9	23.7	15.8	10.5	7.9
75°	7172.0	1540.1	78.8	52.6	36.8	28.9	23.7	18.4	13.1	7.9	7.9
77.5°	3676.7	636.0	55.2	36.8	26.3	18.4	15.8	10.5	10.5	7.9	5.3
80°	1116.9	210.2	31.5	23.7	18.4	13.1	7.9	7.9	7.9	5.3	2.6
82.5°	254.9	68.3	18.4	18.4	13.1	10.5	7.9	2.6	2.6	0.0	0.0
85°	65.7	21.0	15.8	13.1	13.1	10.5	5.3	2.6	0.0	0.0	0.0
87.5°	23.7	13.1	13.1	13.1	10.5	7.9	5.3	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)