

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: P642780

Luminaire Tested: GWS-SA6D-750-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642780  
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-SA6D-750-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) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

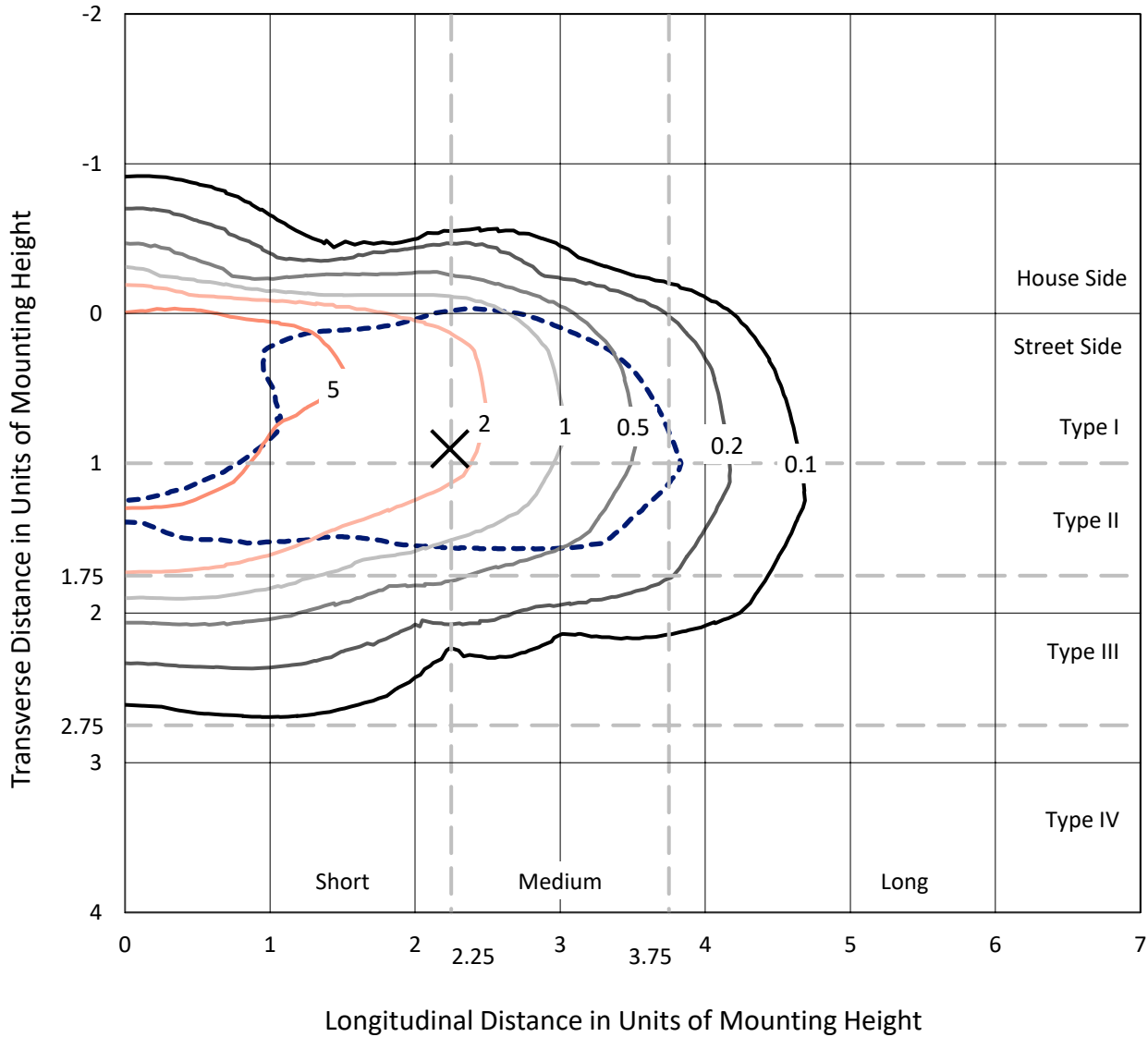
Lumens per Lamp: N/A  
Luminaire Lumens: 27447.4 lumens  
Efficiency: N/A  
Efficacy: 111.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

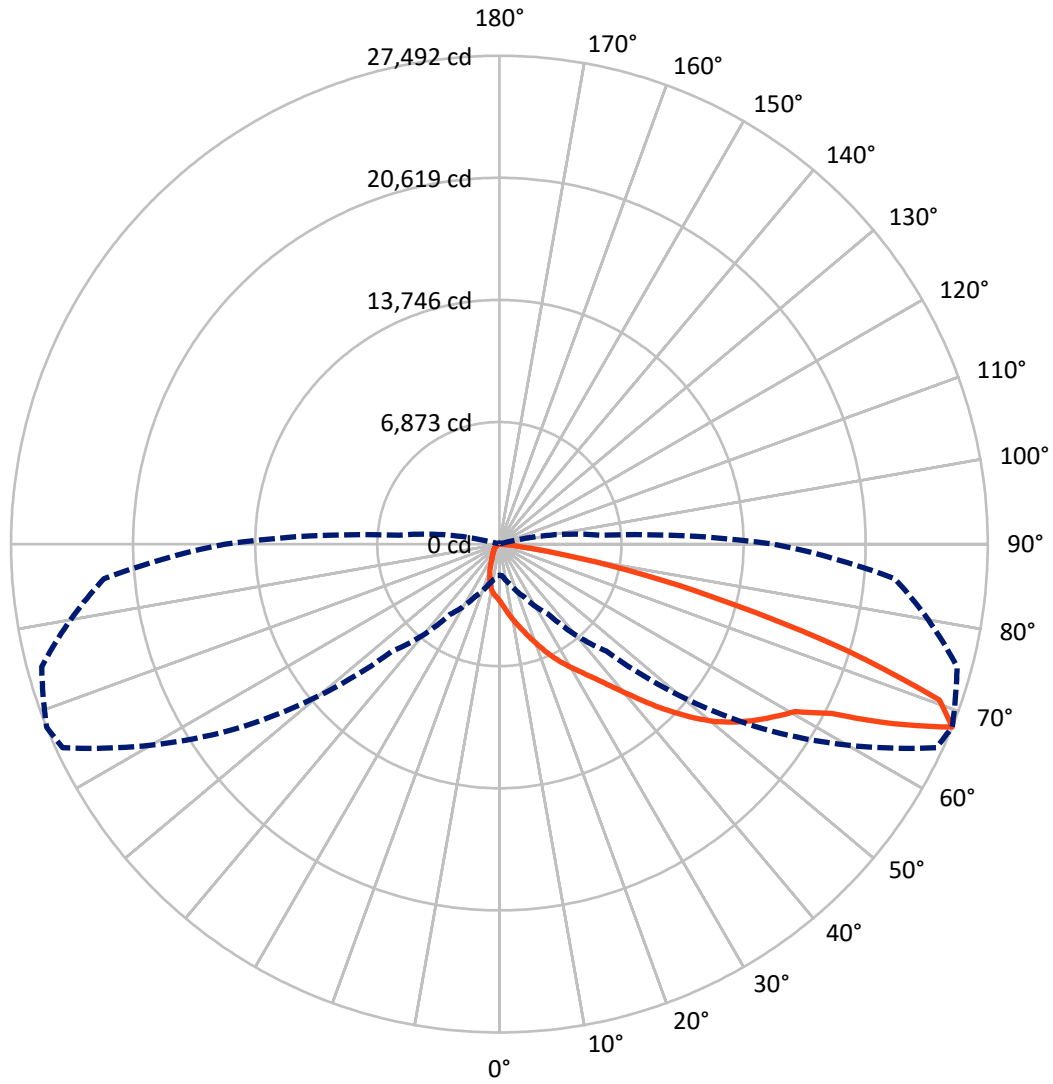
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	1982.0	0.0	1982.0
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	25465.4	0.0	25465.4
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	27447.4	0.0	27447.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	311.5	1.1
10°-20°	894.6	3.3
20°-30°	1537.4	5.6
30°-40°	2673.0	9.7
40°-50°	4664.1	17.0
50°-60°	7034.6	25.6
60°-70°	7053.9	25.7
70°-80°	3112.2	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°	27447.4	100.0
0°-180°	27447.4	100.0

**Coefficient of Utilization**



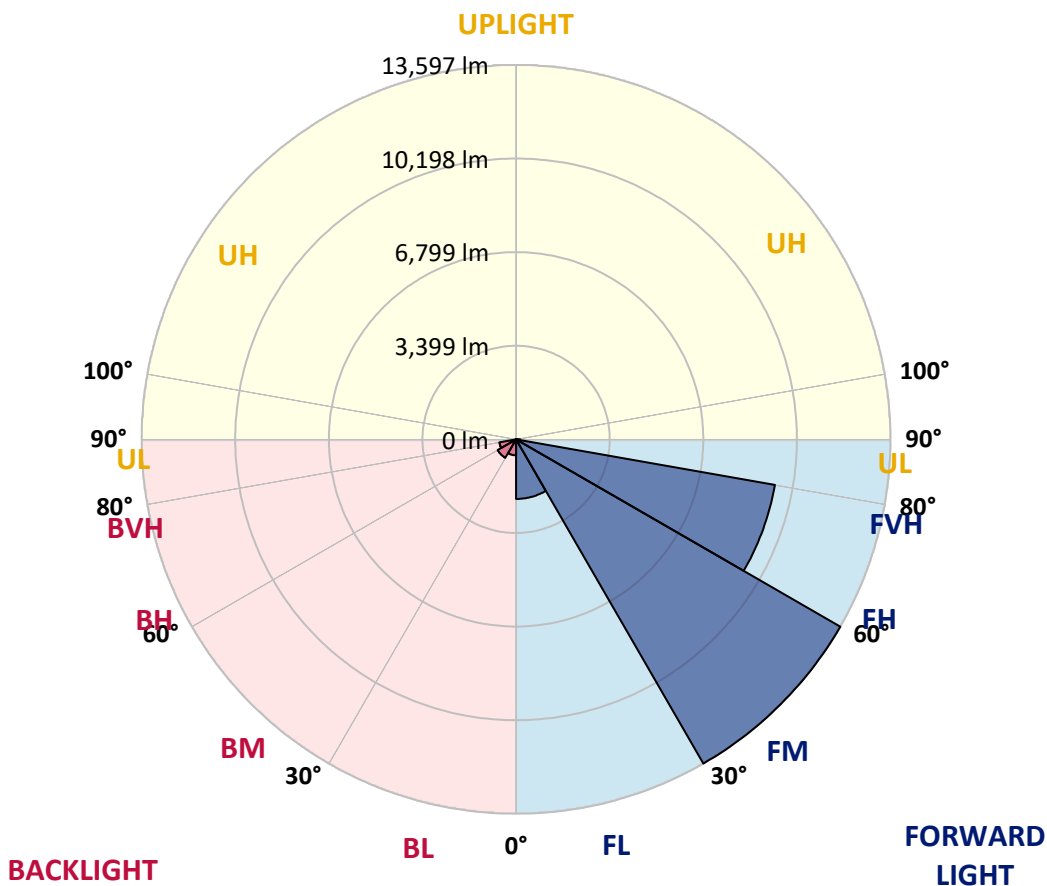
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2163.7	7.9			
FM (30°-60°)	13597.4	49.5			
FH (60°-80°)	9547.5	34.8			G4/12000
FVH (80°-90°)	156.9	0.6			G2/225
BL (0°-30°)	579.9	2.1	B2/1000		
BM (30°-60°)	774.2	2.8	B1/1000		
BH (60°-80°)	618.6	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°	3194.2	3194.2	3194.2	3194.2	3194.2	3194.2	3194.2	3194.2	3194.2	3194.2	3194.2
2.5°	3719.5	3743.2	3719.5	3724.8	3656.5	3625.0	3556.7	3462.1	3438.5	3378.1	3286.1
5°	4174.0	4195.0	4171.3	4166.1	4087.3	4029.5	3916.5	3753.7	3706.4	3588.2	3406.9
7.5°	4420.9	4434.0	4441.9	4455.0	4426.1	4378.9	4276.4	4074.2	4024.2	3832.5	3577.7
10°	4447.2	4457.7	4497.1	4575.9	4633.7	4662.6	4604.8	4418.3	4339.5	4153.0	3787.8
12.5°	4373.6	4389.4	4452.4	4583.8	4744.0	4891.1	4927.9	4765.0	4694.1	4455.0	4034.8
15°	4276.4	4289.6	4376.2	4554.9	4796.5	5067.1	5219.4	5148.5	5069.7	4820.2	4307.9
17.5°	4126.7	4145.1	4265.9	4507.6	4820.2	5206.3	5534.7	5558.3	5503.1	5232.6	4610.0
20°	4042.6	4055.8	4163.5	4413.0	4804.4	5308.7	5828.9	6052.1	5991.7	5708.0	4956.8
22.5°	4113.6	4124.1	4195.0	4389.4	4751.9	5366.5	6102.0	6546.0	6511.8	6217.6	5321.9
25°	4486.6	4520.7	4478.7	4512.8	4775.5	5398.1	6322.7	7039.8	7047.7	6750.9	5700.1
27.5°	5243.1	5198.4	5098.6	4927.9	4959.4	5482.1	6511.8	7504.7	7573.0	7271.0	6036.4
30°	6012.7	5986.5	5926.0	5660.7	5440.1	5668.6	6672.1	7980.2	8087.9	7783.2	6335.8
32.5°	6876.9	6903.2	6795.5	6477.7	6102.0	6046.9	6837.5	8432.0	8634.3	8363.7	6687.8
35°	7909.3	7917.2	7704.4	7352.4	6926.9	6672.1	7134.4	8931.1	9304.1	9104.5	7158.0
37.5°	8915.3	8962.6	8847.0	8292.8	7914.5	7449.6	7625.6	9572.0	10097.4	10018.6	7749.0
40°	9805.8	9879.4	9842.6	9306.7	8810.3	8418.9	8387.3	10323.3	11056.2	11145.5	8529.2
42.5°	10515.0	10562.3	10591.2	10210.3	9771.7	9551.0	9327.7	11195.4	12188.3	12553.4	9485.3
45°	11263.7	11279.4	11339.9	11082.4	10698.9	10717.3	10438.9	12254.0	13380.9	14113.8	10583.3
47.5°	12217.2	12269.7	12240.9	11970.3	11623.6	11831.1	11586.8	13344.1	14557.7	15779.1	11707.6
50°	13378.3	13433.4	13407.1	13091.9	12705.8	12792.5	12640.1	14402.7	15692.5	17350.0	12642.8
52.5°	13977.2	14021.8	14347.5	14489.4	14287.1	13735.5	13538.5	15566.4	16651.2	18642.3	13501.7
55°	13688.2	13719.7	14429.0	15027.9	15768.6	15217.0	14442.1	16464.7	17497.1	19651.0	14140.0
57.5°	12490.4	12661.1	13625.2	14639.1	16196.8	16680.1	15907.9	17441.9	18311.4	20352.4	14767.8
60°	10034.3	10026.5	11408.2	13228.5	15361.5	17082.0	17977.8	18763.2	19128.3	20890.9	15608.4
62.5°	5545.2	5595.1	7433.8	9832.1	13039.4	16041.8	19530.2	21045.9	20990.7	21831.3	16924.4
65°	2760.8	2860.6	3858.8	5631.8	8676.3	13257.4	19798.1	24529.0	24371.4	24045.7	19643.2
67.5°	1752.1	1791.5	2343.1	3273.0	4822.8	8521.3	18130.1	27126.9	27492.0	26672.4	22340.9
70°	1134.8	1200.4	1628.6	2238.0	2910.5	4392.0	13281.1	25443.1	26281.1	26383.5	20659.7
72.5°	617.3	664.6	1040.2	1597.1	2101.4	2196.0	7460.1	19094.2	20441.7	22380.3	16162.7
75°	352.0	386.1	570.0	1084.9	1541.9	1337.0	3307.1	12782.0	13640.9	15994.5	11581.5
77.5°	212.8	241.7	320.5	528.0	966.7	893.1	1250.4	7780.6	8326.9	9543.1	6078.4
80°	97.2	115.6	202.3	291.6	528.0	422.9	478.1	3627.6	3745.8	3916.5	2012.1
82.5°	44.7	52.5	91.9	173.4	299.5	244.3	183.9	837.9	1179.4	1116.4	512.2
85°	5.3	5.3	34.1	70.9	84.1	63.0	76.2	189.1	239.0	336.2	147.1
87.5°	0.0	0.0	2.6	2.6	5.3	7.9	15.8	23.6	34.1	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°	3194.2	3194.2	3194.2	3194.2	3194.2	3194.2	3194.2	3194.2	3194.2	3194.2	3194.2
2.5°	3244.1	3170.5	3104.9	3007.7	2942.0	2868.5	2818.5	2758.1	2734.5	2716.1	2689.8
5°	3317.6	3199.4	3039.2	2860.6	2713.5	2574.3	2445.5	2361.5	2287.9	2277.4	2240.7
7.5°	3438.5	3262.5	2991.9	2700.3	2450.8	2219.6	2038.4	1891.3	1817.7	1794.1	1752.1
10°	3598.7	3357.0	2921.0	2474.4	2114.6	1838.8	1633.9	1468.4	1352.8	1310.8	1279.2
12.5°	3777.3	3443.7	2808.0	2196.0	1786.2	1471.0	1211.0	1035.0	961.4	935.1	911.5
15°	3982.2	3525.2	2629.4	1917.6	1465.8	1082.2	898.4	822.2	790.7	782.8	774.9
17.5°	4179.2	3577.7	2416.6	1628.6	1126.9	840.6	753.9	725.0	717.1	709.2	704.0
20°	4402.5	3614.5	2167.1	1355.4	874.7	711.9	669.8	648.8	633.1	617.3	614.7
22.5°	4631.0	3614.5	1896.5	1087.5	732.9	638.3	591.0	551.6	522.7	507.0	501.7
25°	4849.1	3564.6	1628.6	869.5	646.2	567.4	507.0	462.3	422.9	404.5	399.3
27.5°	5004.0	3435.8	1394.8	735.5	585.8	504.3	430.8	380.9	349.4	331.0	328.3
30°	5101.2	3244.1	1179.4	656.7	533.2	438.7	365.1	323.1	299.5	286.3	281.1
32.5°	5174.8	3007.7	987.7	601.5	483.3	380.9	317.8	283.7	262.7	252.2	249.5
35°	5321.9	2784.4	845.8	551.6	430.8	333.6	278.4	252.2	236.4	223.3	220.7
37.5°	5526.8	2597.9	732.9	507.0	380.9	296.8	252.2	228.5	215.4	202.3	199.6
40°	5828.9	2479.7	648.8	462.3	336.2	267.9	231.2	210.1	191.8	178.6	176.0
42.5°	6293.8	2424.5	593.7	417.7	296.8	241.7	212.8	186.5	168.1	155.0	152.4
45°	6848.0	2453.4	546.4	373.0	270.6	223.3	189.1	162.9	144.5	131.3	128.7
47.5°	7441.7	2555.9	507.0	331.0	244.3	204.9	168.1	139.2	123.5	110.3	107.7
50°	8061.6	2724.0	472.8	291.6	223.3	183.9	144.5	120.8	105.1	94.6	91.9
52.5°	8600.1	2952.5	438.7	262.7	204.9	162.9	126.1	105.1	89.3	78.8	76.2
55°	9115.0	3167.9	412.4	236.4	183.9	141.8	110.3	89.3	76.2	65.7	63.0
57.5°	9674.5	3396.4	380.9	212.8	165.5	126.1	97.2	76.2	65.7	55.2	52.5
60°	10488.8	3735.3	333.6	194.4	144.5	110.3	84.1	68.3	57.8	44.7	42.0
62.5°	11663.0	4352.6	281.1	168.1	123.5	94.6	70.9	57.8	47.3	36.8	31.5
65°	13859.0	5403.3	231.2	139.2	99.8	78.8	60.4	47.3	36.8	26.3	23.6
67.5°	15440.3	5676.5	186.5	113.0	81.4	60.4	49.9	36.8	26.3	18.4	15.8
70°	13499.1	4076.8	144.5	91.9	68.3	47.3	39.4	28.9	18.4	13.1	10.5
72.5°	10170.9	2663.6	107.7	70.9	52.5	39.4	28.9	23.6	15.8	10.5	7.9
75°	7168.5	1539.3	78.8	52.5	36.8	28.9	23.6	18.4	13.1	7.9	7.9
77.5°	3674.9	635.7	55.2	36.8	26.3	18.4	15.8	10.5	10.5	7.9	5.3
80°	1116.4	210.1	31.5	23.6	18.4	13.1	7.9	7.9	7.9	5.3	2.6
82.5°	254.8	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°	23.6	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)