

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: P643810

Luminaire Tested: GWS-SA6F-760-U-SL3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643810  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGF-760-U-SL3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

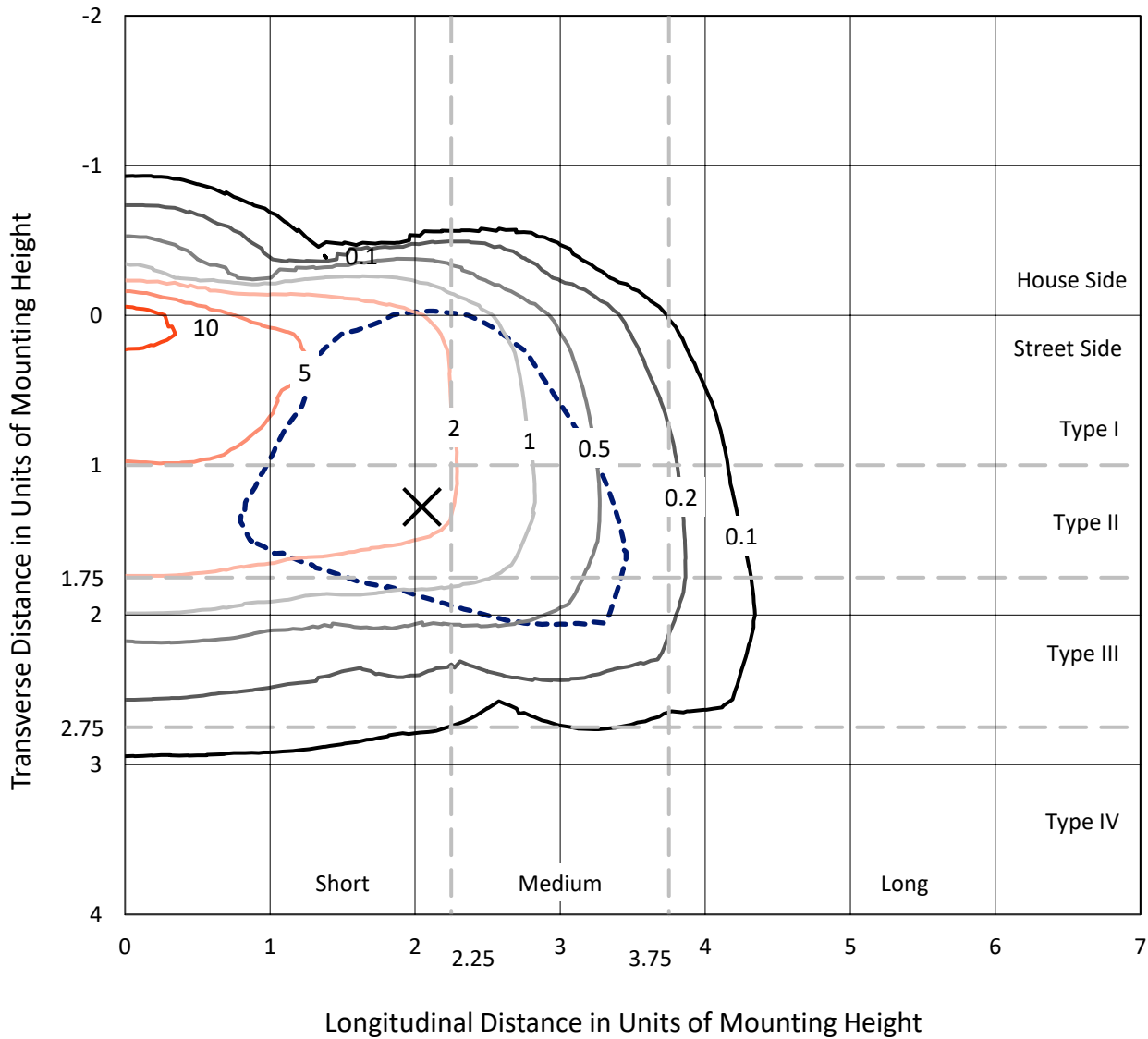
Lumens per Lamp: N/A  
Luminaire Lumens: 40668.4 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): 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

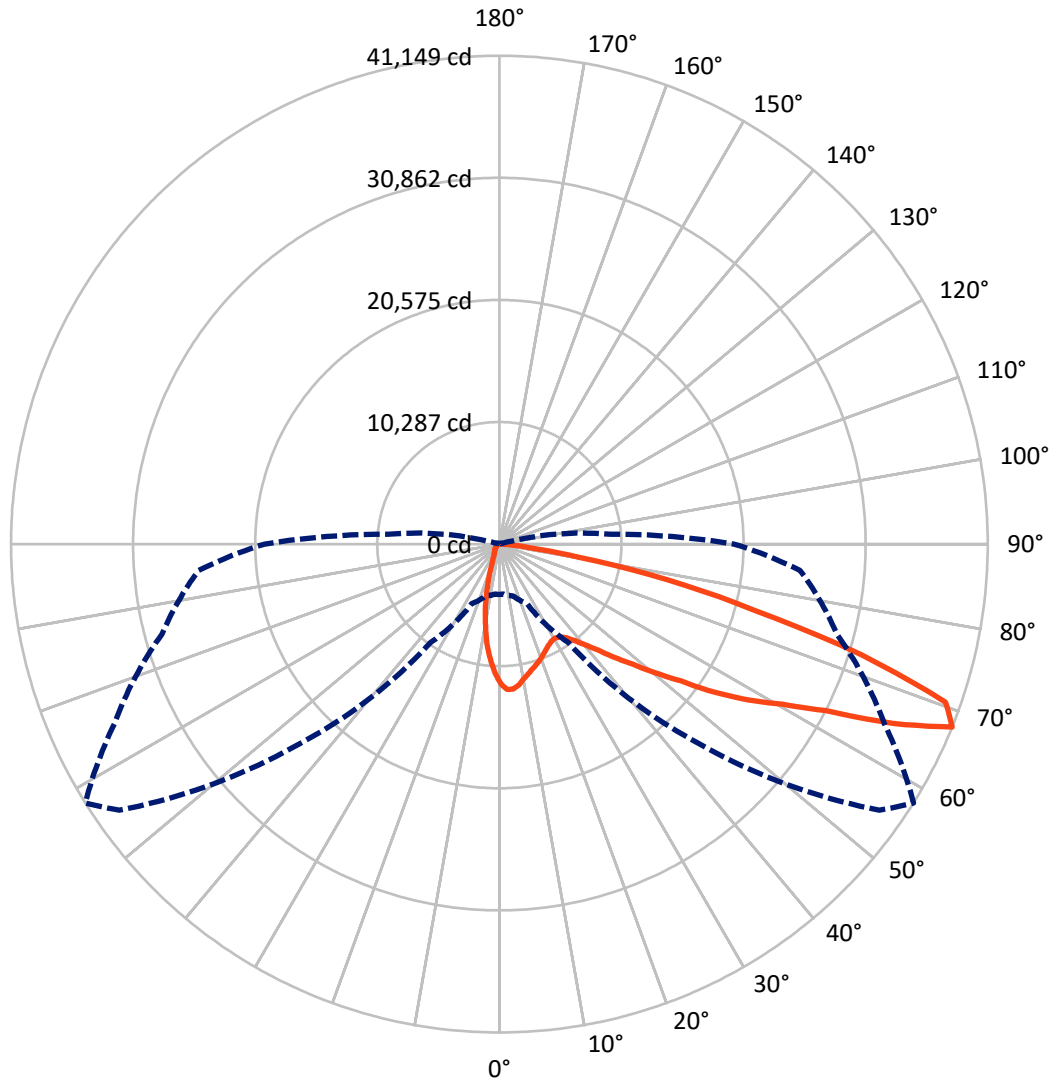
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13 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	3973.1	0.0	3973.1
	% Fixture	9.8	0.0	9.8
<b>Street Side</b>	Lumens	36695.4	0.0	36695.4
	% Fixture	90.2	0.0	90.2
<b>Total</b>	Lumens	40668.4	0.0	40668.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	953.2	2.3
10°-20°	1984.3	4.9
20°-30°	2675.9	6.6
30°-40°	3760.2	9.2
40°-50°	5807.3	14.3
50°-60°	9286.7	22.8
60°-70°	10996.2	27.0
70°-80°	4864.4	12.0
80°-90°	340.1	0.8
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°	40668.4	100.0
0°-180°	40668.4	100.0

**Coefficient of Utilization**

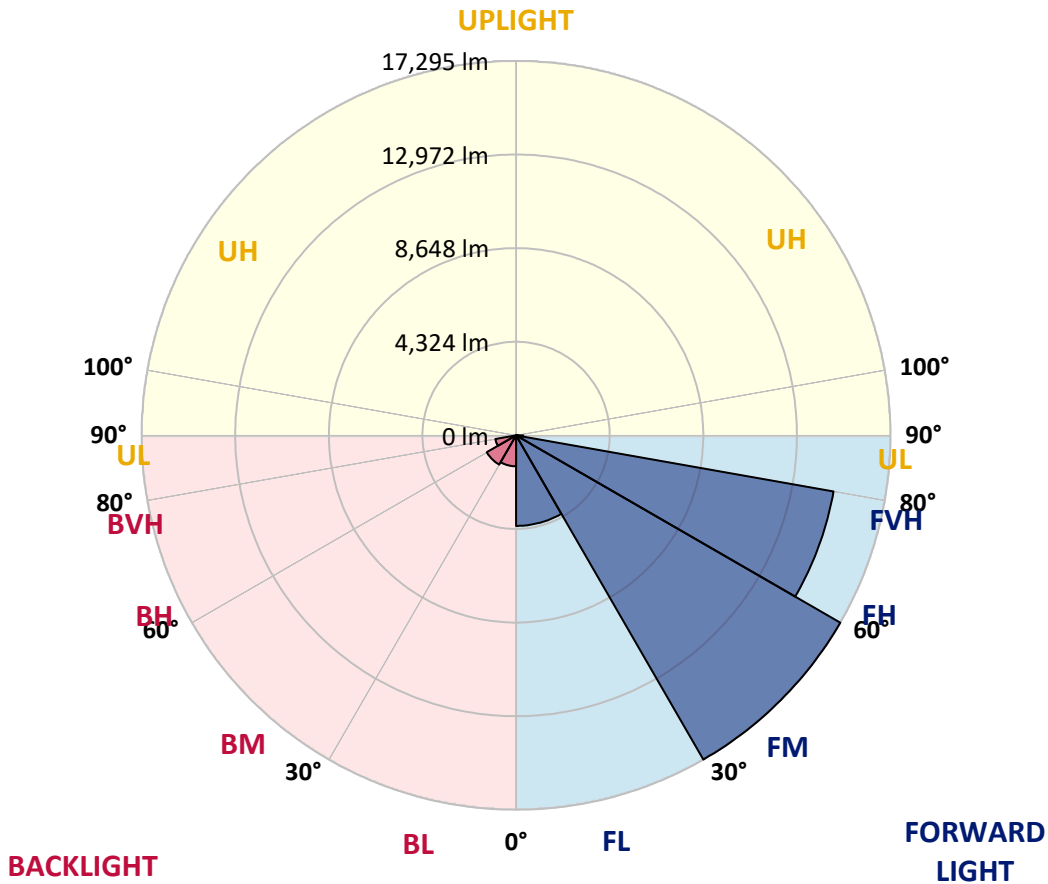


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4183.7	10.3			
FM (30°-60°)	17295.4	42.5			
FH (60°-80°)	14890.6	36.6			G5
FVH (80°-90°)	325.6	0.8			G3/500
BL (0°-30°)	1429.7	3.5	B3/2500		
BM (30°-60°)	1558.9	3.8	B2/2500		
BH (60°-80°)	970.0	2.4	B2/1000		G2/1000
BVH (80°-90°)	14.5	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	11730.7	11730.7	11730.7	11730.7	11730.7	11730.7	11730.7	11730.7	11730.7	11730.7	11730.7
2.5°	12339.0	12360.6	12389.4	12425.4	12418.2	12385.8	12346.2	12256.2	12198.6	12018.6	11799.1
5°	11943.0	11939.4	12011.4	12079.8	12202.2	12267.0	12357.0	12274.2	12245.4	12029.4	11673.1
7.5°	11169.2	11208.8	11291.5	11399.5	11575.9	11766.7	11982.6	11957.4	12043.8	11899.9	11457.1
10°	10409.7	10388.1	10517.7	10679.6	10949.6	11194.4	11507.5	11503.9	11730.7	11716.3	11212.4
12.5°	9743.8	9740.2	9841.0	10024.5	10341.3	10683.2	11108.0	11118.8	11399.5	11514.7	11003.6
15°	9182.2	9189.4	9286.6	9477.4	9805.0	10222.5	10715.6	10805.6	11122.4	11356.3	10798.4
17.5°	8782.7	8786.3	8843.9	9009.5	9329.8	9776.2	10370.1	10492.5	10899.2	11237.5	10632.8
20°	8599.1	8584.7	8595.5	8678.3	8926.7	9333.4	10017.3	10175.7	10694.0	11154.8	10481.7
22.5°	8624.3	8602.7	8552.3	8541.5	8653.1	8962.7	9643.0	9837.4	10470.9	11104.4	10344.9
25°	8847.5	8800.7	8728.7	8620.7	8577.5	8732.3	9315.4	9517.0	10262.1	11108.0	10240.5
27.5°	9189.4	9139.1	9049.1	8905.1	8735.9	8671.1	9092.3	9283.0	10114.5	11190.8	10190.1
30°	9625.0	9585.4	9499.0	9326.2	9099.5	8833.1	9045.5	9203.8	10042.5	11359.9	10211.7
32.5°	10139.7	10110.9	10038.9	9880.5	9621.4	9214.6	9203.8	9326.2	10100.1	11604.7	10294.5
35°	10636.4	10647.2	10650.8	10564.4	10287.3	9794.2	9639.4	9682.6	10337.7	11971.8	10481.7
37.5°	11172.8	11147.6	11277.1	11338.3	11072.0	10546.4	10312.5	10316.1	10791.2	12515.4	10834.4
40°	11579.5	11586.7	11867.5	12119.4	12007.8	11500.3	11165.6	11162.0	11489.5	13260.5	11403.1
42.5°	11961.0	12007.8	12421.8	12853.7	13008.5	12558.6	12317.4	12227.4	12468.6	14268.3	12256.2
45°	12367.8	12436.2	13015.7	13631.2	14037.9	13771.6	13580.8	13616.8	13645.6	15441.7	13404.4
47.5°	12842.9	12886.1	13602.4	14469.9	15229.4	15161.0	15171.8	15128.6	15114.2	16921.1	14923.4
50°	13418.8	13519.6	14343.9	15380.5	16417.2	16870.7	17021.9	17039.9	16805.9	18533.7	16496.4
52.5°	14642.6	14765.0	15470.5	16377.6	17713.0	18666.9	19282.4	19160.0	18800.0	20095.8	18220.5
55°	16086.0	16179.6	16859.9	17799.4	19296.8	20635.8	22097.2	22046.8	21164.9	21740.8	19638.7
57.5°	16222.8	16327.2	17381.8	18821.6	21330.5	23069.0	24606.0	24768.0	23475.7	22907.0	20905.7
60°	14685.8	14898.2	16338.0	18274.5	22107.9	26340.9	27356.0	27388.4	25171.1	24091.3	22453.5
62.5°	11770.3	11871.1	13321.6	15848.5	20909.3	28248.6	31556.6	30872.7	27348.8	25923.4	24904.7
65°	6169.5	6579.8	7843.2	10640.0	16957.1	27582.7	36610.2	36423.0	31265.0	28547.4	26812.5
67.5°	4233.0	4229.4	4528.1	5546.8	10110.9	23749.3	39090.3	41149.1	35793.1	29447.3	25430.3
70°	3221.5	3232.3	3498.7	4161.0	5237.2	15808.9	36369.1	39889.3	36635.4	26736.9	20567.4
72.5°	2138.1	2159.7	2602.4	3361.9	4182.6	7749.7	28263.0	31916.5	30825.9	21474.4	14477.1
75°	1277.8	1295.8	1612.6	2444.0	3718.3	4337.4	17957.8	22064.8	21218.9	14801.0	7760.5
77.5°	525.5	539.9	827.9	1522.6	2721.2	3369.1	9930.9	14437.5	12709.7	5885.1	2120.1
80°	219.6	226.8	399.5	1065.4	1961.7	2112.9	4600.1	6785.0	5208.4	1267.0	647.9
82.5°	79.2	82.8	147.6	586.7	1220.2	1591.0	2321.7	2681.6	1468.6	413.9	349.1
85°	3.6	3.6	36.0	198.0	464.3	449.9	1328.2	1285.0	485.9	172.8	208.8
87.5°	0.0	0.0	3.6	3.6	7.2	18.0	126.0	223.2	104.4	43.2	90.0
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°	11730.7	11730.7	11730.7	11730.7	11730.7	11730.7	11730.7	11730.7	11730.7	11730.7	11730.7
2.5°	11655.1	11464.3	11255.5	11061.2	10751.6	10568.0	10341.3	10240.5	10096.5	10060.5	10082.1
5°	11417.5	11090.0	10589.6	10136.1	9549.4	9077.9	8602.7	8401.2	8142.0	7969.2	7897.2
7.5°	11082.8	10654.4	9873.3	9049.1	8242.8	7382.5	6727.4	6295.5	5903.1	5687.2	5644.0
10°	10744.4	10186.5	9067.1	7886.4	6637.4	5608.0	4722.5	4067.4	3534.7	3293.5	3106.3
12.5°	10395.3	9700.6	8246.4	6705.8	5255.2	3851.4	2757.2	2120.1	1738.5	1587.4	1612.6
15°	10074.9	9232.6	7432.9	5525.2	3700.3	2325.3	1522.6	1285.0	1195.0	1166.2	1162.6
17.5°	9769.0	8789.9	6623.0	4377.0	2440.4	1425.4	1166.2	1108.6	1083.4	1069.0	1069.0
20°	9491.8	8365.2	5831.1	3297.1	1576.6	1130.2	1054.6	1025.8	1004.3	993.5	993.5
22.5°	9232.6	7954.8	5057.3	2332.5	1162.6	1015.1	968.3	939.5	914.3	899.9	899.9
25°	8998.7	7584.1	4319.4	1605.4	1000.7	928.7	878.3	845.9	802.7	777.5	777.5
27.5°	8829.5	7252.9	3610.3	1169.8	903.5	835.1	777.5	734.3	687.5	658.7	651.5
30°	8728.7	6972.2	2894.0	961.1	813.5	745.1	680.3	626.3	572.3	543.5	539.9
32.5°	8671.1	6713.0	2238.9	838.7	737.9	658.7	586.7	529.1	475.1	442.7	439.1
35°	8692.7	6511.4	1677.4	755.9	665.9	583.1	503.9	446.3	399.5	370.7	363.5
37.5°	8879.9	6421.5	1259.8	691.1	604.7	518.3	435.5	381.5	338.4	316.8	313.2
40°	9243.4	6439.5	989.9	640.7	554.3	453.5	374.3	324.0	291.6	273.6	270.0
42.5°	9808.6	6590.6	817.1	597.5	500.3	395.9	324.0	284.4	252.0	234.0	230.4
45°	10650.8	6903.8	712.7	547.1	442.7	341.9	280.8	244.8	216.0	194.4	190.8
47.5°	11871.1	7447.3	644.3	500.3	392.3	295.2	241.2	205.2	180.0	162.0	158.4
50°	13170.5	8098.8	586.7	453.5	349.1	255.6	205.2	169.2	147.6	129.6	126.0
52.5°	14556.3	8800.7	543.5	410.3	309.6	219.6	172.8	140.4	118.8	100.8	97.2
55°	15888.1	9506.2	493.1	381.5	262.8	187.2	144.0	115.2	93.6	79.2	79.2
57.5°	17183.9	10154.1	439.1	334.8	216.0	158.4	118.8	93.6	75.6	64.8	61.2
60°	18731.6	11050.4	377.9	284.4	180.0	133.2	97.2	75.6	61.2	50.4	50.4
62.5°	21031.7	11982.6	324.0	237.6	151.2	111.6	79.2	61.2	50.4	43.2	39.6
65°	21784.0	11478.7	273.6	194.4	122.4	90.0	64.8	54.0	43.2	39.6	36.0
67.5°	19775.5	9409.0	226.8	158.4	100.8	75.6	57.6	46.8	39.6	36.0	32.4
70°	15430.9	6677.0	176.4	118.8	82.8	61.2	50.4	43.2	36.0	32.4	32.4
72.5°	10496.1	3948.6	140.4	90.0	68.4	54.0	43.2	39.6	36.0	32.4	28.8
75°	5168.8	1403.8	108.0	68.4	54.0	46.8	39.6	36.0	32.4	28.8	28.8
77.5°	1393.0	388.7	82.8	54.0	43.2	36.0	36.0	36.0	32.4	25.2	25.2
80°	471.5	162.0	61.2	39.6	36.0	28.8	25.2	32.4	28.8	25.2	21.6
82.5°	259.2	79.2	43.2	32.4	25.2	21.6	21.6	21.6	21.6	18.0	18.0
85°	165.6	43.2	28.8	25.2	25.2	18.0	14.4	14.4	10.8	10.8	10.8
87.5°	75.6	25.2	25.2	21.6	21.6	18.0	10.8	7.2	3.6	3.6	3.6
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)