

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: P643696

Luminaire Tested: GWS-SA6F-740-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-740-U-SL2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39453.5 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

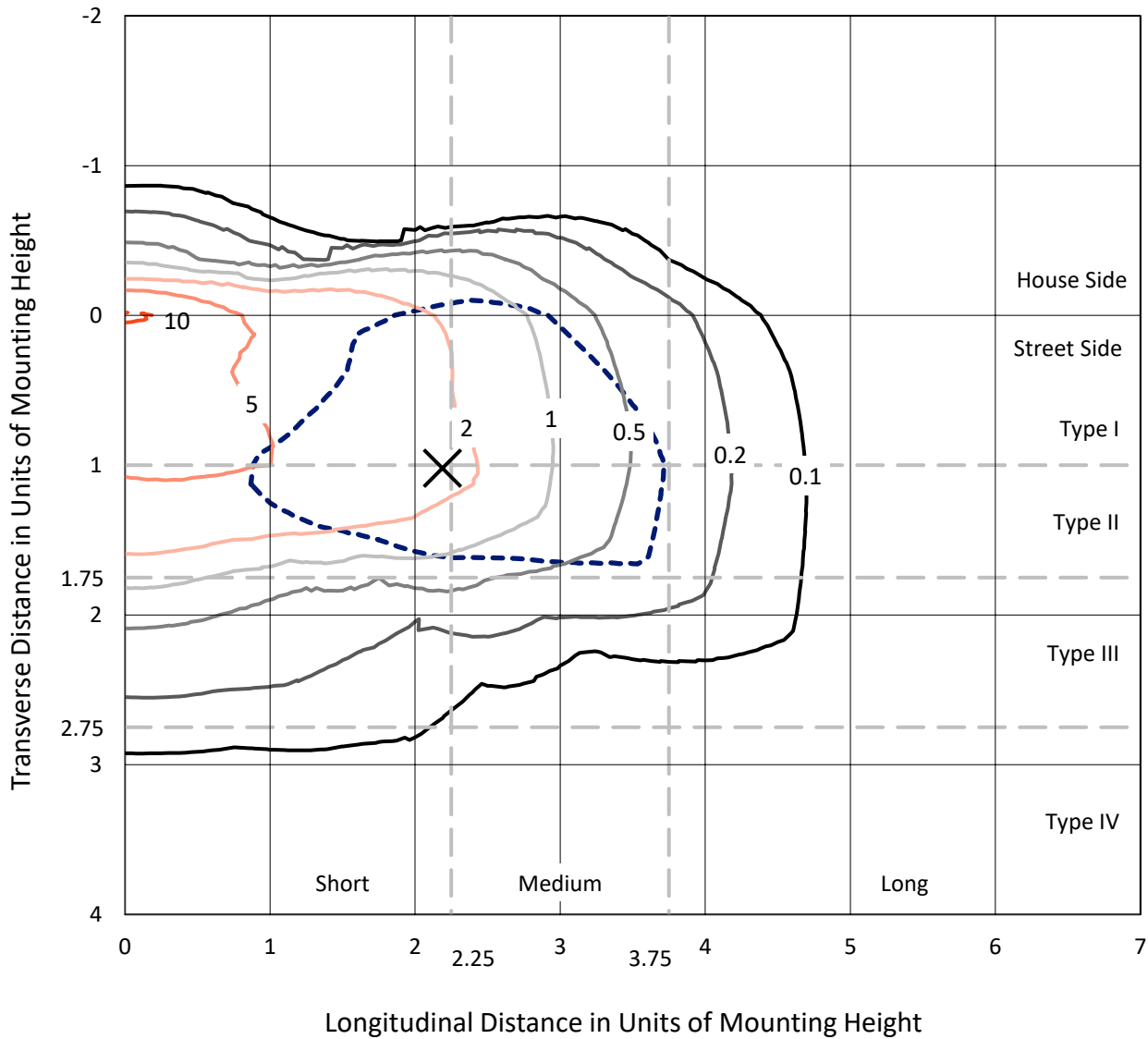
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

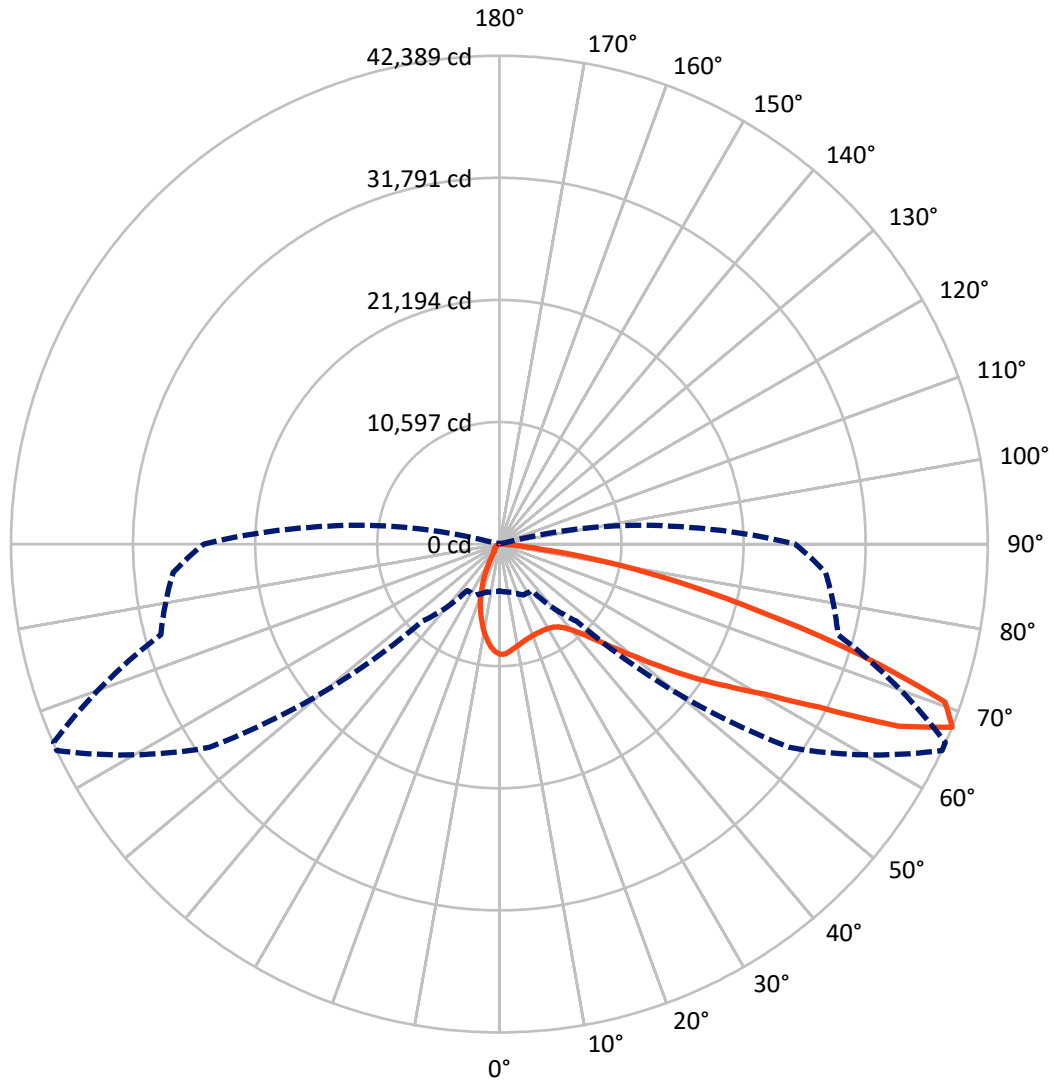
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4926.6	0.0	4926.6
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	34526.9	0.0	34526.9
	% Fixture	87.5	0.0	87.5
Total	Lumens	39453.5	0.0	39453.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	794.7	2.0
10°-20°	1786.5	4.5
20°-30°	2552.8	6.5
30°-40°	3714.0	9.4
40°-50°	5816.8	14.7
50°-60°	9074.4	23.0
60°-70°	9967.7	25.3
70°-80°	5304.8	13.4
80°-90°	441.7	1.1
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°	39453.5	100.0
0°-180°	39453.5	100.0

Coefficient of Utilization



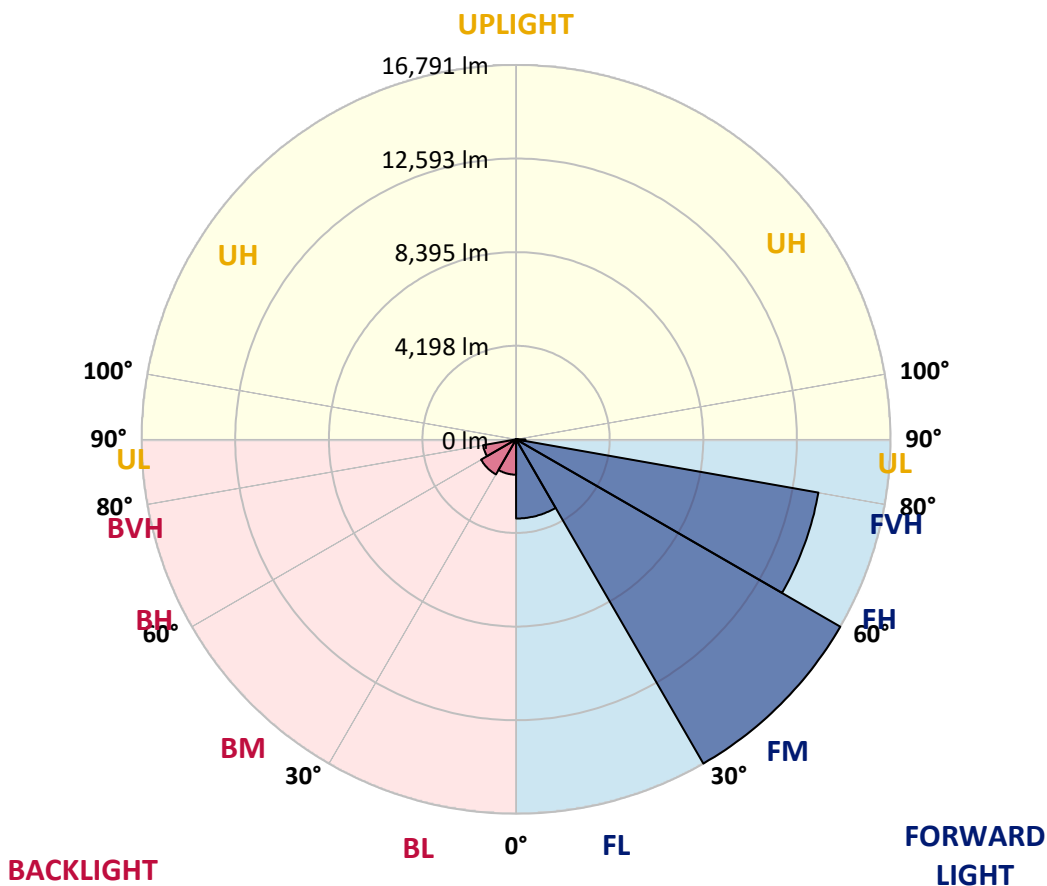
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3550.6	9.0			
FM (30°-60°)	16790.6	42.6			
FH (60°-80°)	13767.8	34.9			G5
FVH (80°-90°)	418.0	1.1			G3/500
BL (0°-30°)	1583.5	4.0	B3/2500		
BM (30°-60°)	1814.7	4.6	B2/2500		
BH (60°-80°)	1504.8	3.8	B3/2500		G3/2500
BVH (80°-90°)	23.6	0.1			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9568.7	9568.7	9568.7	9568.7	9568.7	9568.7	9568.7	9568.7	9568.7	9568.7	9568.7
2.5°	9236.9	9265.5	9226.2	9322.5	9340.4	9447.4	9508.1	9550.9	9547.3	9600.8	9600.8
5°	8694.6	8723.2	8701.8	8805.2	8887.3	9055.0	9194.1	9354.7	9361.8	9525.9	9586.6
7.5°	8234.4	8237.9	8237.9	8366.4	8473.4	8680.3	8887.3	9133.5	9162.0	9415.3	9575.9
10°	7856.2	7866.9	7870.5	8016.7	8134.5	8384.2	8648.2	8944.4	8976.5	9319.0	9568.7
12.5°	7595.7	7599.3	7613.6	7767.0	7895.4	8155.9	8423.5	8762.4	8805.2	9208.4	9536.6
15°	7470.9	7463.7	7470.9	7599.3	7727.8	7977.5	8252.2	8616.1	8662.5	9115.6	9540.2
17.5°	7463.7	7453.0	7445.9	7542.2	7624.3	7845.5	8123.8	8519.8	8569.7	9072.8	9579.4
20°	7567.2	7560.1	7524.4	7567.2	7585.0	7767.0	8041.7	8444.9	8494.8	9065.7	9665.0
22.5°	7838.4	7820.5	7767.0	7727.8	7631.4	7738.5	7984.6	8391.4	8448.4	9083.5	9775.6
25°	8241.5	8234.4	8166.6	8070.3	7824.1	7781.3	7988.2	8391.4	8444.9	9104.9	9893.4
27.5°	8848.0	8805.2	8719.6	8551.9	8198.7	7949.0	8059.6	8412.8	8466.3	9133.5	9989.7
30°	9465.3	9461.7	9433.1	9261.9	8737.4	8270.1	8209.4	8469.8	8519.8	9158.4	10078.9
32.5°	10103.9	10114.6	10185.9	10053.9	9479.5	8748.1	8480.6	8587.6	8623.3	9208.4	10157.4
35°	10710.4	10731.8	10920.9	10967.3	10382.2	9472.4	8923.0	8823.1	8826.6	9319.0	10260.9
37.5°	11291.9	11363.3	11666.6	11891.3	11506.0	10350.1	9561.6	9222.6	9194.1	9540.2	10417.8
40°	11952.0	12087.6	12469.3	12851.1	12729.7	11509.6	10432.1	9836.3	9775.6	9946.9	10699.7
42.5°	12683.4	12829.6	13336.3	13871.4	13928.5	12911.7	11520.3	10731.8	10628.3	10631.9	11227.7
45°	13468.3	13664.5	14253.2	15023.8	15369.9	14474.4	12861.8	11941.3	11837.8	11684.4	12076.8
47.5°	14499.4	14670.6	15237.9	16126.2	16789.9	16151.2	14620.7	13496.8	13307.7	13083.0	13396.9
50°	15387.7	15537.6	16026.4	17139.5	18520.2	18313.3	16615.0	15441.2	15259.3	14877.5	15138.0
52.5°	15584.0	15701.7	16151.2	17403.5	19843.8	21042.6	19058.9	17792.4	17664.0	16957.5	17057.4
55°	14702.7	14881.1	15284.3	16675.7	20189.9	23711.3	22230.7	20443.2	20175.6	19048.2	19226.6
57.5°	12476.4	12794.0	13172.1	14981.0	19251.6	25131.3	26661.8	23251.1	23008.4	21060.5	21064.0
60°	9144.2	9401.0	9654.3	11309.8	17025.3	25034.9	30682.7	26404.9	25962.5	22705.2	22644.5
62.5°	6650.3	6782.3	6778.7	7367.4	11691.5	23386.6	32794.8	31157.2	30126.1	24464.1	24118.0
65°	5230.3	5226.8	5380.2	5572.8	6529.0	18052.8	33055.2	38096.5	36983.3	26822.4	26101.7
67.5°	4070.8	4149.3	4302.7	4870.0	4905.7	9447.4	30764.7	42388.5	42367.1	30422.2	28424.3
70°	3139.6	3246.7	3464.3	4292.0	4531.0	5287.4	23019.1	41029.2	41375.2	32031.3	26779.6
72.5°	2015.8	2008.6	2329.7	3467.9	4352.7	4406.2	12729.7	32591.4	32983.9	29013.0	21652.7
75°	1127.4	1134.5	1316.5	2122.8	4056.5	4145.7	6304.2	23240.4	23550.7	22619.6	16636.4
77.5°	442.4	456.7	617.2	1116.7	2675.8	3703.3	3746.1	15848.0	15894.3	14017.7	10203.8
80°	178.4	189.1	314.0	692.1	1630.5	2493.9	2675.8	9336.8	9147.7	5426.6	2968.4
82.5°	53.5	57.1	124.9	392.5	852.7	1773.2	1805.3	3582.0	3382.2	1166.7	756.4
85°	3.6	3.6	28.5	121.3	303.3	446.0	1202.3	1166.7	1034.6	292.6	335.4
87.5°	0.0	0.0	3.6	3.6	7.1	14.3	128.4	214.1	217.6	53.5	149.8
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°	9568.7	9568.7	9568.7	9568.7	9568.7	9568.7	9568.7	9568.7	9568.7	9568.7	9568.7
2.5°	9600.8	9472.4	9461.7	9361.8	9261.9	9137.0	8990.7	8883.7	8808.8	8676.8	8651.8
5°	9586.6	9415.3	9254.8	8969.3	8651.8	8309.3	8009.6	7731.3	7556.5	7438.8	7388.8
7.5°	9558.0	9340.4	8969.3	8430.6	7899.0	7299.6	6832.2	6404.1	6111.6	5940.3	5865.4
10°	9536.6	9244.1	8641.1	7824.1	6999.9	6172.2	5462.2	4827.2	4474.0	4195.7	4149.3
12.5°	9493.8	9104.9	8220.1	7114.1	6050.9	4952.0	4045.8	3268.1	2729.3	2486.7	2401.1
15°	9451.0	8958.6	7799.1	6364.9	5016.3	3660.5	2561.6	1812.4	1441.4	1327.2	1320.1
17.5°	9443.8	8826.6	7342.4	5654.9	3931.7	2397.5	1459.2	1173.8	1095.3	1066.8	1066.8
20°	9465.3	8716.0	6892.9	4837.9	2864.9	1459.2	1088.2	1016.8	970.4	945.5	945.5
22.5°	9486.7	8601.9	6461.2	4013.7	1901.6	1066.8	959.7	899.1	845.6	817.0	802.7
25°	9500.9	8477.0	5983.1	3186.0	1241.6	927.6	842.0	763.5	699.3	663.6	663.6
27.5°	9497.4	8327.1	5501.5	2376.1	963.3	824.2	720.7	638.6	574.4	535.2	538.7
30°	9468.8	8163.0	5002.0	1659.0	842.0	720.7	617.2	531.6	467.4	435.3	431.7
32.5°	9447.4	7988.2	4424.0	1166.7	756.4	631.5	524.5	442.4	388.9	363.9	360.3
35°	9422.4	7816.9	3874.6	888.4	681.4	545.9	442.4	374.6	331.8	310.4	310.4
37.5°	9429.6	7638.6	3278.8	763.5	606.5	474.5	378.2	321.1	285.4	264.0	260.4
40°	9540.2	7531.5	2693.7	692.1	538.7	410.3	328.2	278.3	242.6	221.2	217.6
42.5°	9814.9	7535.1	2133.5	638.6	478.1	349.6	285.4	239.0	206.9	182.0	178.4
45°	10364.3	7684.9	1637.6	581.5	413.9	303.3	246.2	203.4	171.3	149.8	146.3
47.5°	11263.4	8130.9	1241.6	531.6	360.3	264.0	210.5	171.3	142.7	124.9	121.3
50°	12694.1	8937.2	977.6	470.9	303.3	228.3	178.4	142.7	117.7	99.9	96.3
52.5°	14413.7	10146.7	838.4	417.4	260.4	199.8	153.4	117.7	96.3	82.1	78.5
55°	16390.3	11591.6	774.2	363.9	221.2	171.3	124.9	96.3	78.5	67.8	60.7
57.5°	18202.7	12893.9	770.6	310.4	189.1	146.3	103.5	82.1	67.8	53.5	49.9
60°	19968.7	13982.0	724.3	256.9	164.1	121.3	89.2	67.8	57.1	46.4	42.8
62.5°	21570.6	14866.8	606.5	206.9	139.1	99.9	74.9	60.7	49.9	39.2	39.2
65°	23582.9	15994.2	463.8	167.7	114.2	82.1	64.2	53.5	46.4	35.7	35.7
67.5°	25662.9	16590.1	331.8	139.1	92.8	71.4	57.1	49.9	39.2	32.1	32.1
70°	23243.9	14017.7	239.0	114.2	78.5	60.7	49.9	46.4	39.2	32.1	28.5
72.5°	18152.7	10107.4	178.4	89.2	67.8	57.1	46.4	42.8	35.7	28.5	28.5
75°	13461.1	5893.9	135.6	71.4	53.5	46.4	46.4	42.8	35.7	28.5	25.0
77.5°	7317.5	2055.0	103.5	57.1	42.8	35.7	39.2	39.2	32.1	25.0	21.4
80°	1937.3	563.7	71.4	42.8	35.7	28.5	28.5	35.7	28.5	21.4	21.4
82.5°	563.7	164.1	49.9	35.7	28.5	25.0	25.0	25.0	21.4	17.8	14.3
85°	274.7	60.7	35.7	28.5	25.0	21.4	17.8	17.8	14.3	10.7	10.7
87.5°	121.3	25.0	28.5	25.0	25.0	17.8	14.3	10.7	10.7	7.1	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)