

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: P638691

Luminaire Tested: GWS-SA4F-735-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638691
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-SA4F-735-U-SL2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26602.2 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

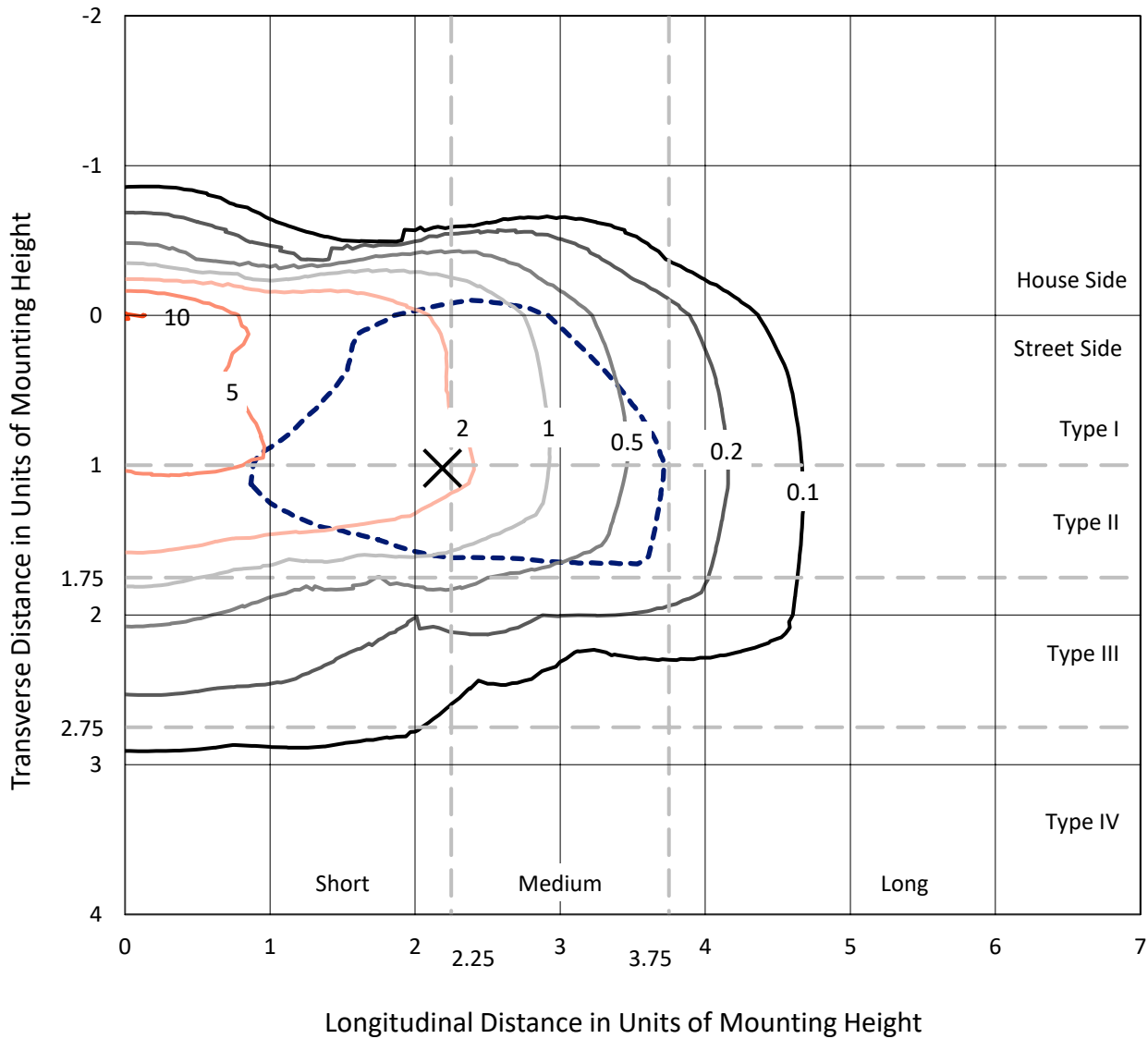
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

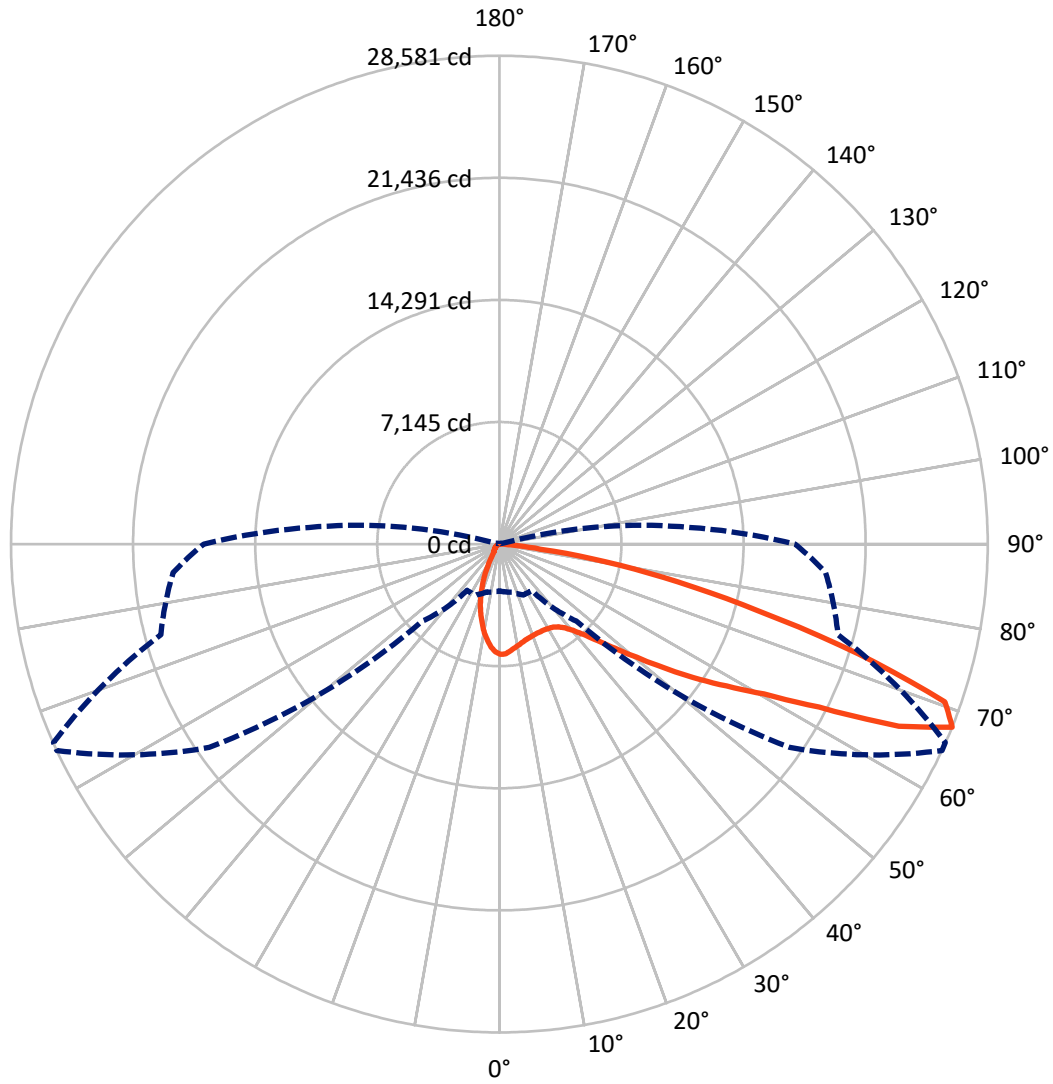
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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	3321.8	0.0	3321.8
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	23280.4	0.0	23280.4
	% Fixture	87.5	0.0	87.5
Total	Lumens	26602.2	0.0	26602.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.9	2.0
10°-20°	1204.6	4.5
20°-30°	1721.3	6.5
30°-40°	2504.2	9.4
40°-50°	3922.1	14.7
50°-60°	6118.6	23.0
60°-70°	6720.9	25.3
70°-80°	3576.8	13.4
80°-90°	297.8	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°	26602.2	100.0
0°-180°	26602.2	100.0

Coefficient of Utilization



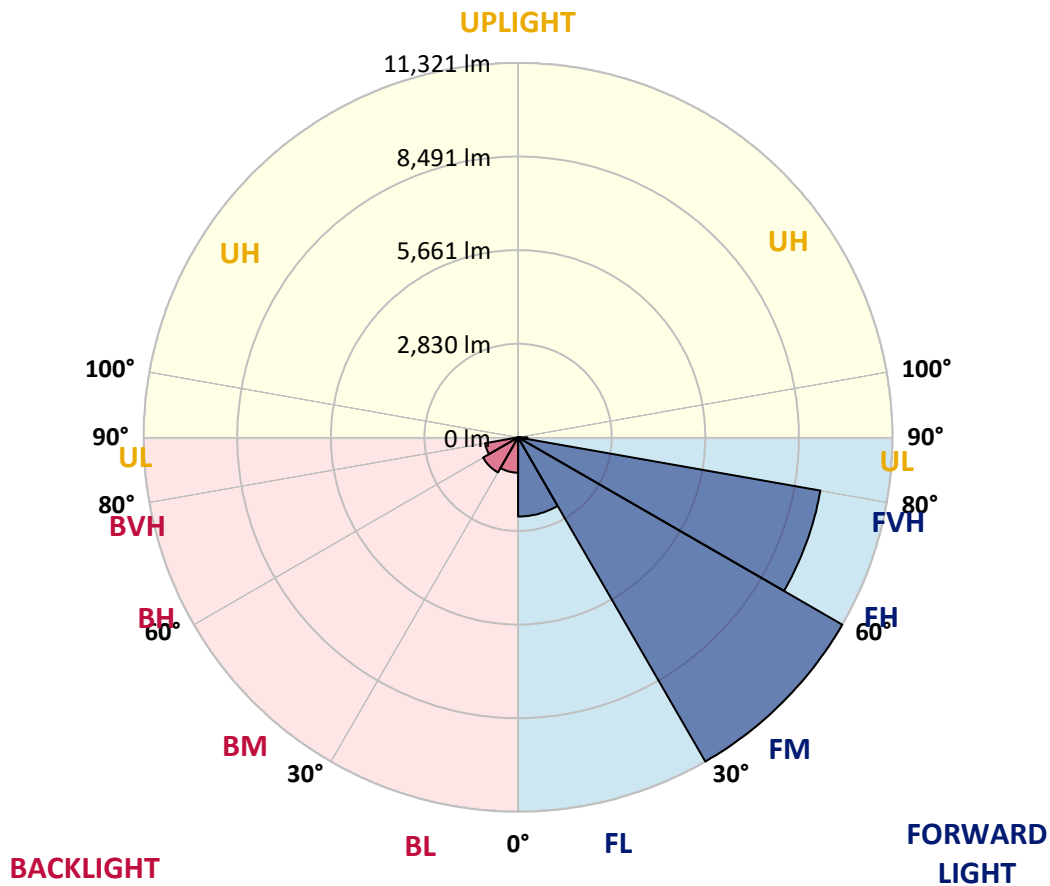
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2394.0	9.0			
FM (30°-60°)	11321.3	42.6			
FH (60°-80°)	9283.2	34.9			G4/12000
FVH (80°-90°)	281.9	1.1			G3/500
BL (0°-30°)	1067.7	4.0	B3/2500		
BM (30°-60°)	1223.6	4.6	B2/2500		
BH (60°-80°)	1014.6	3.8	B3/2500		G3/2500
BVH (80°-90°)	15.9	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-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6451.9	6451.9	6451.9	6451.9	6451.9	6451.9	6451.9	6451.9	6451.9	6451.9	6451.9
2.5°	6228.1	6247.4	6220.9	6285.9	6297.9	6370.1	6411.0	6439.8	6437.4	6473.5	6473.5
5°	5862.5	5881.7	5867.3	5937.1	5992.4	6105.5	6199.3	6307.5	6312.3	6423.0	6463.9
7.5°	5552.2	5554.6	5554.6	5641.2	5713.3	5852.9	5992.4	6158.4	6177.6	6348.4	6456.7
10°	5297.2	5304.4	5306.8	5405.4	5484.8	5653.2	5831.2	6030.9	6052.5	6283.5	6451.9
12.5°	5121.6	5124.0	5133.6	5237.0	5323.6	5499.2	5679.7	5908.2	5937.1	6208.9	6430.2
15°	5037.4	5032.6	5037.4	5124.0	5210.6	5379.0	5564.2	5809.6	5840.8	6146.4	6432.6
17.5°	5032.6	5025.3	5020.5	5085.5	5140.8	5290.0	5477.6	5744.6	5778.3	6117.5	6459.1
20°	5102.3	5097.5	5073.5	5102.3	5114.3	5237.0	5422.3	5694.1	5727.8	6112.7	6516.8
22.5°	5285.1	5273.1	5237.0	5210.6	5145.6	5217.8	5383.8	5658.0	5696.5	6124.7	6591.4
25°	5557.0	5552.2	5506.5	5441.5	5275.5	5246.7	5386.2	5658.0	5694.1	6139.1	6670.8
27.5°	5965.9	5937.1	5879.3	5766.3	5528.1	5359.7	5434.3	5672.5	5708.5	6158.4	6735.7
30°	6382.1	6379.7	6360.5	6245.0	5891.4	5576.2	5535.3	5710.9	5744.6	6175.2	6795.9
32.5°	6812.7	6819.9	6868.0	6779.0	6391.7	5898.6	5718.2	5790.3	5814.4	6208.9	6848.8
35°	7221.7	7236.1	7363.6	7394.9	7000.4	6386.9	6016.5	5949.1	5951.5	6283.5	6918.6
37.5°	7613.8	7661.9	7866.4	8017.9	7758.1	6978.7	6447.1	6218.5	6199.3	6432.6	7024.4
40°	8058.8	8150.2	8407.6	8665.0	8583.3	7760.5	7034.0	6632.3	6591.4	6706.9	7214.5
42.5°	8552.0	8650.6	8992.2	9353.0	9391.5	8705.9	7767.7	7236.1	7166.3	7168.7	7570.5
45°	9081.2	9213.5	9610.4	10130.1	10363.4	9759.6	8672.3	8051.6	7981.8	7878.4	8143.0
47.5°	9776.4	9891.9	10274.4	10873.4	11320.8	10890.2	9858.2	9100.5	8973.0	8821.4	9033.1
50°	10375.4	10476.5	10806.0	11556.6	12487.6	12348.0	11203.0	10411.5	10288.8	10031.4	10207.0
52.5°	10507.7	10587.1	10890.2	11734.6	13380.1	14188.3	12850.8	11996.8	11910.2	11433.9	11501.3
55°	9913.6	10033.8	10305.7	11243.9	13613.4	15987.7	14989.4	13784.2	13603.8	12843.6	12963.9
57.5°	8412.5	8626.6	8881.5	10101.2	12980.7	16945.2	17977.2	15677.4	15513.8	14200.4	14202.8
60°	6165.6	6338.8	6509.6	7625.8	11479.6	16880.2	20688.3	17804.0	17505.7	15309.4	15268.5
62.5°	4484.1	4573.1	4570.7	4967.6	7883.2	15768.8	22112.5	21008.3	20313.1	16495.3	16262.0
65°	3526.6	3524.2	3627.7	3757.6	4402.3	12172.4	22288.1	25687.2	24936.7	18085.4	17599.5
67.5°	2744.8	2797.7	2901.2	3283.7	3307.7	6370.1	20743.7	28581.2	28566.7	20512.7	19165.6
70°	2116.9	2189.1	2335.9	2894.0	3055.1	3565.1	15521.1	27664.6	27898.0	21597.7	18056.6
72.5°	1359.2	1354.4	1570.9	2338.3	2934.9	2970.9	8583.3	21975.3	22240.0	19562.5	14599.7
75°	760.2	765.0	887.7	1431.3	2735.2	2795.3	4250.7	15670.2	15879.5	15251.6	11217.4
77.5°	298.3	307.9	416.2	753.0	1804.2	2497.0	2525.9	10685.8	10717.0	9451.7	6880.1
80°	120.3	127.5	211.7	466.7	1099.4	1681.5	1804.2	6295.5	6168.0	3658.9	2001.5
82.5°	36.1	38.5	84.2	264.6	574.9	1195.6	1217.2	2415.2	2280.5	786.6	510.0
85°	2.4	2.4	19.2	81.8	204.5	300.7	810.7	786.6	697.6	197.3	226.1
87.5°	0.0	0.0	2.4	2.4	4.8	9.6	86.6	144.3	146.7	36.1	101.0
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°	6451.9	6451.9	6451.9	6451.9	6451.9	6451.9	6451.9	6451.9	6451.9	6451.9	6451.9
2.5°	6473.5	6386.9	6379.7	6312.3	6245.0	6160.8	6062.2	5990.0	5939.5	5850.5	5833.6
5°	6463.9	6348.4	6240.2	6047.7	5833.6	5602.7	5400.6	5213.0	5095.1	5015.7	4982.0
7.5°	6444.7	6297.9	6047.7	5684.5	5326.0	4921.9	4606.8	4318.1	4120.8	4005.4	3954.8
10°	6430.2	6233.0	5826.4	5275.5	4719.8	4161.7	3683.0	3254.8	3016.6	2829.0	2797.7
12.5°	6401.4	6139.1	5542.5	4796.8	4079.9	3339.0	2728.0	2203.5	1840.3	1676.7	1619.0
15°	6372.5	6040.5	5258.7	4291.6	3382.3	2468.2	1727.2	1222.1	971.9	894.9	890.1
17.5°	6367.7	5951.5	4950.8	3812.9	2651.0	1616.6	983.9	791.4	738.5	719.3	719.3
20°	6382.1	5876.9	4647.7	3262.0	1931.7	983.9	733.7	685.6	654.3	637.5	637.5
22.5°	6396.5	5799.9	4356.6	2706.3	1282.2	719.3	647.1	606.2	570.1	550.9	541.3
25°	6406.2	5715.8	4034.2	2148.2	837.2	625.5	567.7	514.8	471.5	447.4	447.4
27.5°	6403.8	5614.7	3709.5	1602.1	649.5	555.7	485.9	430.6	387.3	360.8	363.2
30°	6384.5	5504.1	3372.7	1118.6	567.7	485.9	416.2	358.4	315.1	293.5	291.1
32.5°	6370.1	5386.2	2983.0	786.6	510.0	425.8	353.6	298.3	262.2	245.4	243.0
35°	6353.2	5270.7	2612.5	599.0	459.5	368.1	298.3	252.6	223.7	209.3	209.3
37.5°	6358.1	5150.4	2210.8	514.8	409.0	319.9	255.0	216.5	192.4	178.0	175.6
40°	6432.6	5078.3	1816.2	466.7	363.2	276.6	221.3	187.6	163.6	149.1	146.7
42.5°	6617.9	5080.7	1438.6	430.6	322.4	235.8	192.4	161.2	139.5	122.7	120.3
45°	6988.3	5181.7	1104.2	392.1	279.1	204.5	166.0	137.1	115.5	101.0	98.6
47.5°	7594.5	5482.4	837.2	358.4	243.0	178.0	141.9	115.5	96.2	84.2	81.8
50°	8559.2	6026.1	659.1	317.5	204.5	154.0	120.3	96.2	79.4	67.4	65.0
52.5°	9718.7	6841.6	565.3	281.5	175.6	134.7	103.4	79.4	65.0	55.3	52.9
55°	11051.4	7815.9	522.0	245.4	149.1	115.5	84.2	65.0	52.9	45.7	40.9
57.5°	12273.5	8693.9	519.6	209.3	127.5	98.6	69.8	55.3	45.7	36.1	33.7
60°	13464.3	9427.6	488.3	173.2	110.7	81.8	60.1	45.7	38.5	31.3	28.9
62.5°	14544.4	10024.2	409.0	139.5	93.8	67.4	50.5	40.9	33.7	26.5	26.5
65°	15901.1	10784.4	312.7	113.1	77.0	55.3	43.3	36.1	31.3	24.1	24.1
67.5°	17303.6	11186.1	223.7	93.8	62.5	48.1	38.5	33.7	26.5	21.7	21.7
70°	15672.6	9451.7	161.2	77.0	52.9	40.9	33.7	31.3	26.5	21.7	19.2
72.5°	12239.8	6815.1	120.3	60.1	45.7	38.5	31.3	28.9	24.1	19.2	19.2
75°	9076.4	3974.1	91.4	48.1	36.1	31.3	31.3	28.9	24.1	19.2	16.8
77.5°	4933.9	1385.6	69.8	38.5	28.9	24.1	26.5	26.5	21.7	16.8	14.4
80°	1306.3	380.1	48.1	28.9	24.1	19.2	19.2	24.1	19.2	14.4	14.4
82.5°	380.1	110.7	33.7	24.1	19.2	16.8	16.8	16.8	14.4	12.0	9.6
85°	185.2	40.9	24.1	19.2	16.8	14.4	12.0	12.0	9.6	7.2	7.2
87.5°	81.8	16.8	19.2	16.8	16.8	12.0	9.6	7.2	7.2	4.8	2.4
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)