

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: P643715

Luminaire Tested: GWS-SA6F-740-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643715
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37280.7 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G5

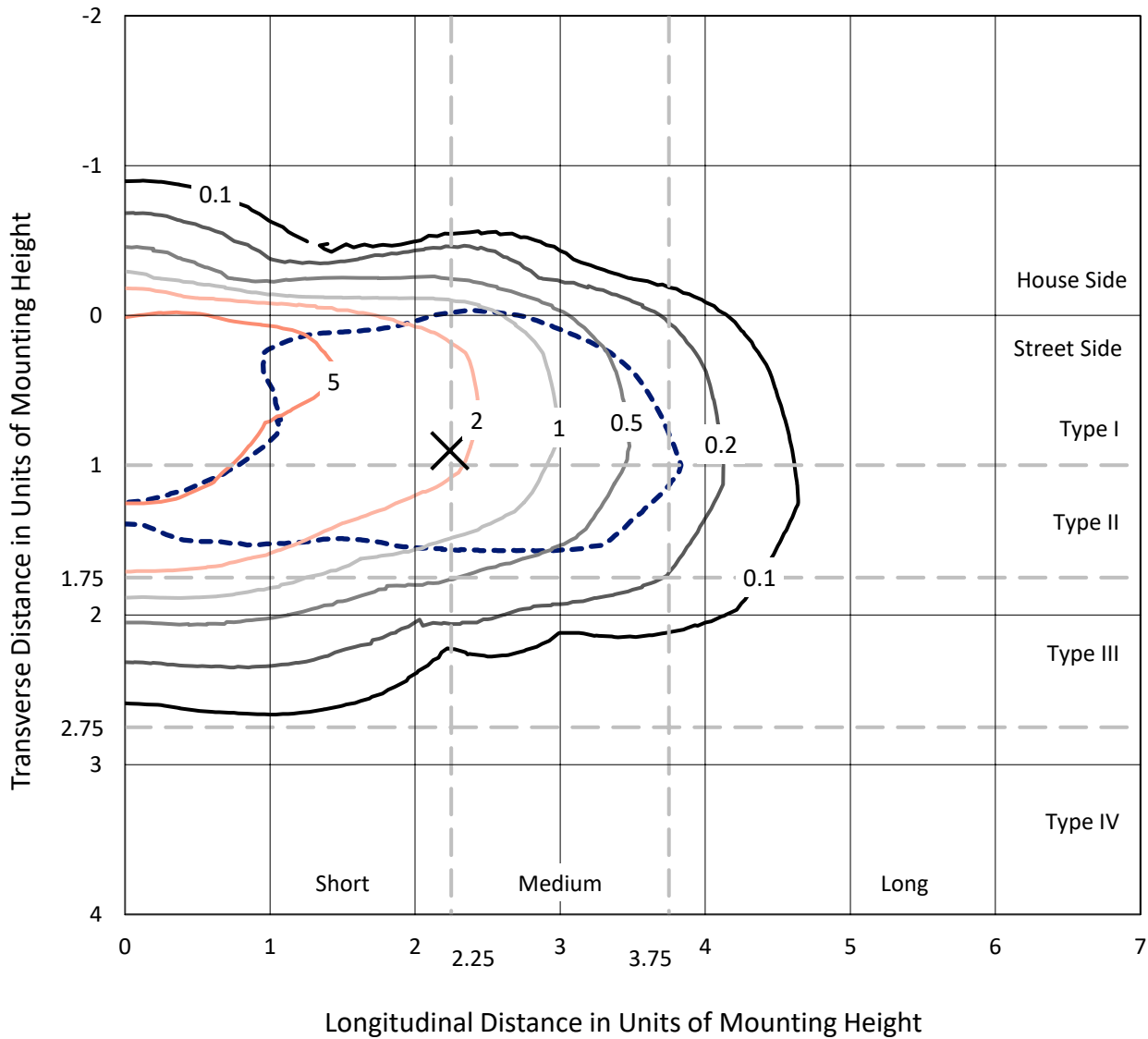
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P643715
 CATALOG NUMBER: GWS-SA6F-740-U-T2-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

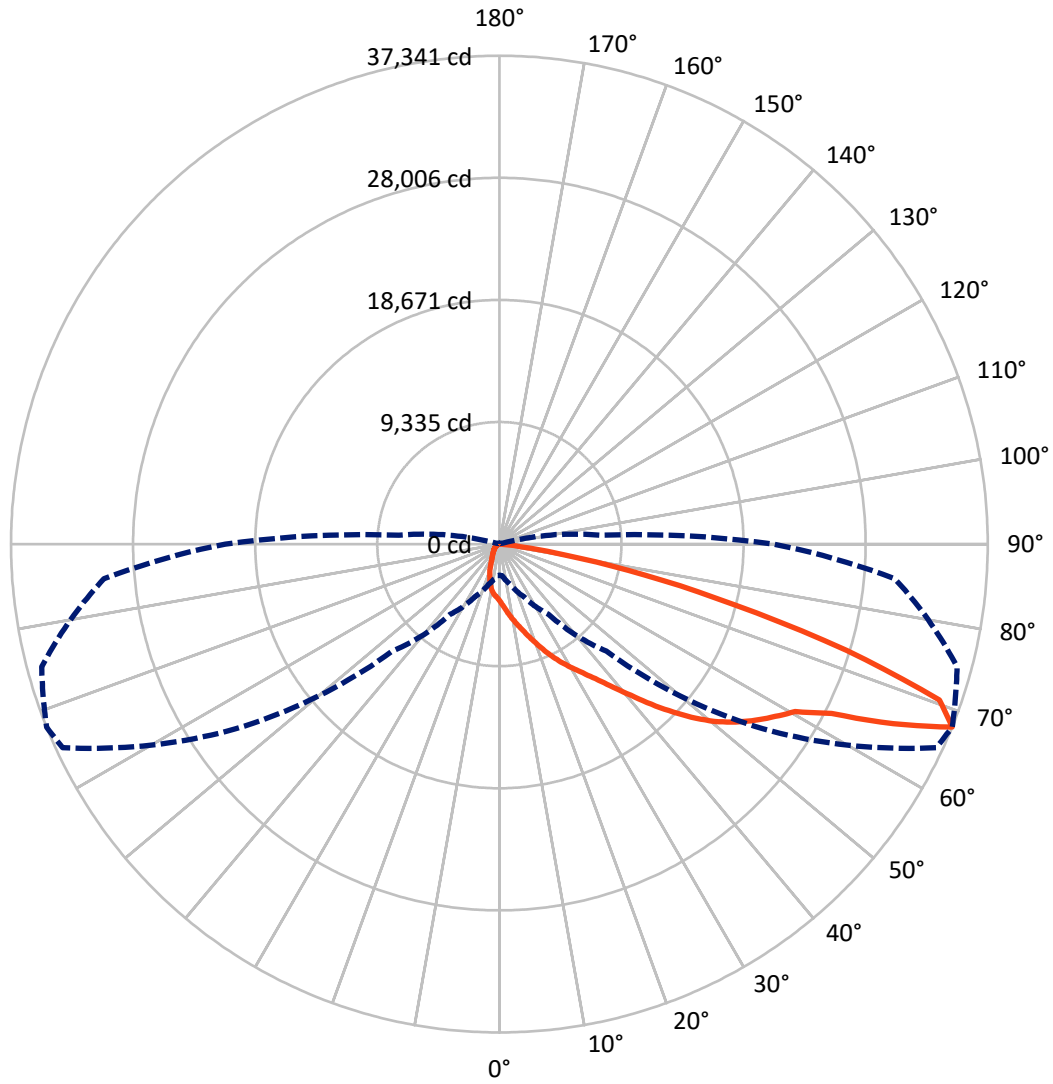
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

REPORT NUMBER: P643715
CATALOG NUMBER: GWS-SA6F-740-U-T2-W-HSS

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GWS-SA6F-740-U-T2-W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2692.1	0.0	2692.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	34588.6	0.0	34588.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	37280.7	0.0	37280.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.1	1.1
10°-20°	1215.1	3.3
20°-30°	2088.2	5.6
30°-40°	3630.6	9.7
40°-50°	6335.0	17.0
50°-60°	9554.8	25.6
60°-70°	9581.0	25.7
70°-80°	4227.1	11.3
80°-90°	225.8	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°	37280.7	100.0
0°-180°	37280.7	100.0

Coefficient of Utilization



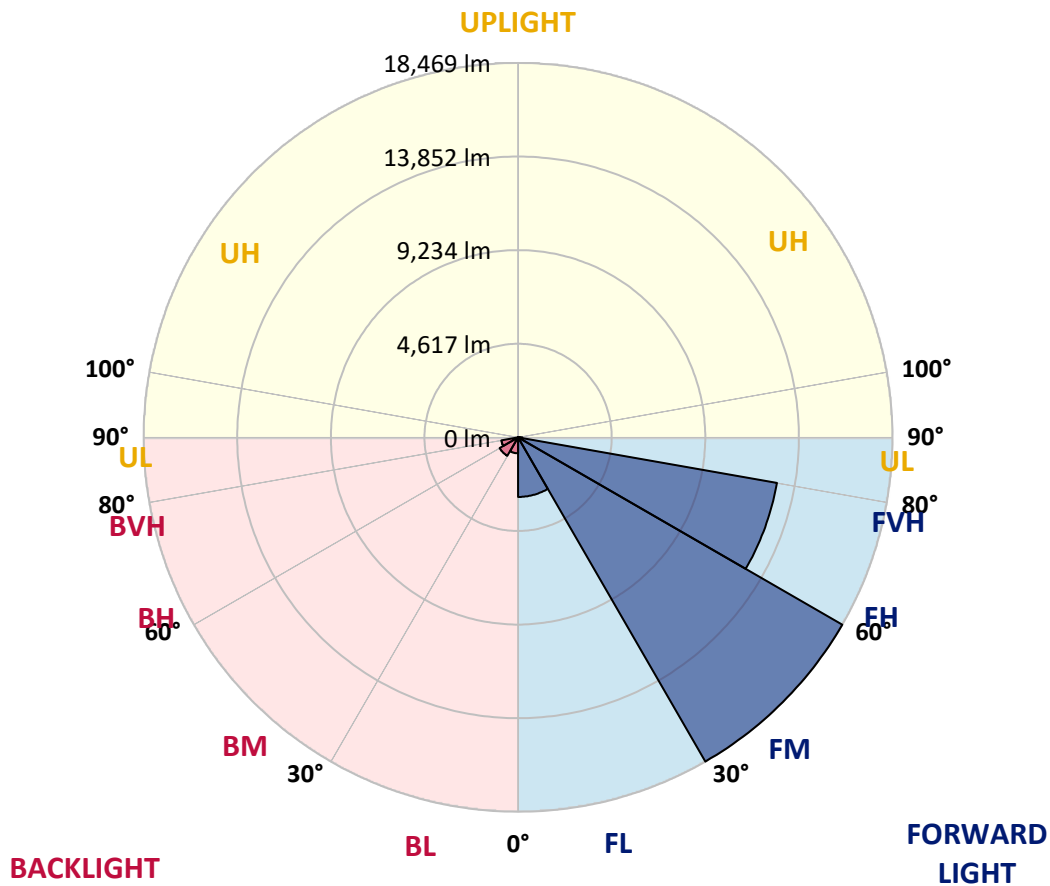
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2938.8	7.9			
FM (30°-60°)	18468.8	49.5			
FH (60°-80°)	12967.9	34.8			G5
FVH (80°-90°)	213.1	0.6			G2/225
BL (0°-30°)	787.6	2.1	B2/1000		
BM (30°-60°)	1051.6	2.8	B2/2500		
BH (60°-80°)	840.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	12.8	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type II Short





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CATALOG NUMBER: GWS-SA6F-740-U-T2-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	4338.5	4338.5	4338.5	4338.5	4338.5	4338.5	4338.5	4338.5	4338.5	4338.5	4338.5
2.5°	5052.1	5084.2	5052.1	5059.2	4966.5	4923.7	4830.9	4702.4	4670.3	4588.3	4463.4
5°	5669.3	5697.9	5665.8	5658.6	5551.6	5473.1	5319.7	5098.5	5034.3	4873.7	4627.5
7.5°	6004.7	6022.6	6033.3	6051.1	6011.9	5947.6	5808.5	5533.8	5466.0	5205.5	4859.4
10°	6040.4	6054.7	6108.2	6215.2	6293.7	6333.0	6254.5	6001.2	5894.1	5640.8	5144.9
12.5°	5940.5	5961.9	6047.5	6225.9	6443.6	6643.4	6693.3	6472.1	6375.8	6051.1	5480.2
15°	5808.5	5826.3	5944.1	6186.7	6514.9	6882.4	7089.4	6993.0	6886.0	6547.0	5851.3
17.5°	5605.1	5630.1	5794.2	6122.5	6547.0	7071.5	7517.5	7549.6	7474.7	7107.2	6261.6
20°	5490.9	5508.8	5655.1	5994.0	6525.6	7210.7	7917.1	8220.4	8138.3	7753.0	6732.6
22.5°	5587.3	5601.6	5697.9	5961.9	6454.3	7289.2	8288.2	8891.1	8844.7	8445.1	7228.5
25°	6093.9	6140.3	6083.2	6129.6	6486.4	7332.0	8587.9	9561.9	9572.6	9169.4	7742.3
27.5°	7121.5	7060.8	6925.2	6693.3	6736.1	7446.1	8844.7	10193.4	10286.2	9875.9	8199.0
30°	8166.8	8131.2	8049.1	7688.8	7389.1	7699.5	9062.4	10839.2	10985.5	10571.6	8605.7
32.5°	9340.7	9376.4	9230.1	8798.4	8288.2	8213.2	9287.2	11452.9	11727.6	11360.1	9083.8
35°	10742.8	10753.5	10464.6	9986.5	9408.5	9062.4	9690.3	12130.7	12637.4	12366.2	9722.4
37.5°	12109.3	12173.6	12016.6	11263.8	10750.0	10118.5	10357.5	13001.3	13714.9	13607.8	10525.2
40°	13318.8	13418.7	13368.8	12641.0	11966.6	11435.0	11392.2	14021.7	15017.1	15138.5	11584.9
42.5°	14282.2	14346.4	14385.6	13868.3	13272.5	12972.8	12669.5	15206.2	16554.9	17050.8	12883.6
45°	15299.0	15320.4	15402.5	15052.8	14531.9	14556.9	14178.7	16644.1	18174.7	19170.1	14374.9
47.5°	16594.1	16665.5	16626.3	16258.8	15787.8	16069.7	15737.9	18124.8	19773.1	21432.2	15902.0
50°	18171.1	18246.1	18210.4	17782.2	17257.8	17375.5	17168.6	19562.6	21314.4	23565.8	17172.1
52.5°	18984.6	19045.3	19487.7	19680.4	19405.6	18656.4	18388.8	21143.2	22616.7	25321.1	18338.8
55°	18592.2	18635.0	19598.3	20411.8	21417.9	20668.7	19616.1	22363.4	23765.6	26691.2	19205.8
57.5°	16965.2	17197.1	18506.5	19883.7	21999.5	22656.0	21607.0	23690.6	24871.6	27643.8	20058.5
60°	13629.2	13618.5	15495.2	17967.8	20864.9	23201.8	24418.5	25485.3	25981.2	28375.2	21200.3
62.5°	7531.8	7599.6	10097.1	13354.5	17710.9	21789.0	26527.1	28585.7	28510.8	29652.5	22987.8
65°	3749.8	3885.4	5241.2	7649.5	11784.7	18007.0	26891.0	33316.7	33102.7	32660.2	26680.5
67.5°	2379.8	2433.3	3182.5	4445.6	6550.6	11574.2	24625.4	36845.4	37341.3	36228.1	30344.7
70°	1541.3	1630.5	2212.1	3039.8	3953.2	5965.5	18039.1	34558.4	35696.5	35835.7	28061.3
72.5°	838.4	902.7	1412.9	2169.3	2854.3	2982.7	10132.7	25934.8	27765.1	30398.2	21953.1
75°	478.1	524.5	774.2	1473.5	2094.3	1816.0	4491.9	17361.2	18527.9	21724.7	15730.7
77.5°	289.0	328.2	435.3	717.1	1313.0	1213.1	1698.3	10568.0	11310.1	12962.1	8256.0
80°	132.0	157.0	274.7	396.0	717.1	574.4	649.4	4927.2	5087.8	5319.7	2733.0
82.5°	60.7	71.4	124.9	235.5	406.7	331.8	249.8	1138.1	1602.0	1516.3	695.7
85°	7.1	7.1	46.4	96.3	114.2	85.6	103.5	256.9	324.7	456.7	199.8
87.5°	0.0	0.0	3.6	3.6	7.1	10.7	21.4	32.1	46.4	74.9	50.0
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°	4338.5	4338.5	4338.5	4338.5	4338.5	4338.5	4338.5	4338.5	4338.5	4338.5	4338.5
2.5°	4406.3	4306.4	4217.2	4085.2	3996.0	3896.1	3828.3	3746.3	3714.1	3689.2	3653.5
5°	4506.2	4345.7	4128.0	3885.4	3685.6	3496.5	3321.7	3207.5	3107.6	3093.3	3043.4
7.5°	4670.3	4431.3	4063.8	3667.8	3328.8	3014.8	2768.7	2568.9	2469.0	2436.9	2379.8
10°	4888.0	4559.7	3967.5	3360.9	2872.1	2497.5	2219.2	1994.4	1837.5	1780.4	1737.6
12.5°	5130.6	4677.5	3814.0	2982.7	2426.1	1998.0	1644.8	1405.7	1305.8	1270.2	1238.0
15°	5408.9	4788.1	3571.4	2604.5	1990.9	1470.0	1220.2	1116.7	1073.9	1063.2	1052.5
17.5°	5676.5	4859.4	3282.4	2212.1	1530.6	1141.7	1024.0	984.7	974.0	963.3	956.2
20°	5979.7	4909.4	2943.5	1841.0	1188.1	966.9	909.8	881.3	859.9	838.4	834.9
22.5°	6290.1	4909.4	2576.0	1477.1	995.4	867.0	802.8	749.3	710.0	688.6	681.5
25°	6586.3	4841.6	2212.1	1181.0	877.7	770.7	688.6	627.9	574.4	549.5	542.3
27.5°	6796.8	4666.8	1894.5	999.0	795.6	685.0	585.1	517.3	474.5	449.6	446.0
30°	6928.8	4406.3	1602.0	892.0	724.3	595.8	495.9	438.8	406.7	388.9	381.8
32.5°	7028.7	4085.2	1341.5	817.0	656.5	517.3	431.7	385.3	356.8	342.5	338.9
35°	7228.5	3781.9	1148.9	749.3	585.1	453.1	378.2	342.5	321.1	303.3	299.7
37.5°	7506.8	3528.6	995.4	688.6	517.3	403.2	342.5	310.4	292.6	274.7	271.2
40°	7917.1	3368.1	881.3	627.9	456.7	363.9	314.0	285.4	260.5	242.6	239.0
42.5°	8548.6	3293.1	806.3	567.3	403.2	328.2	289.0	253.3	228.3	210.5	206.9
45°	9301.4	3332.4	742.1	506.6	367.5	303.3	256.9	221.2	196.2	178.4	174.8
47.5°	10107.8	3471.5	688.6	449.6	331.8	278.3	228.3	189.1	167.7	149.9	146.3
50°	10949.8	3699.9	642.2	396.0	303.3	249.8	196.2	164.1	142.7	128.4	124.9
52.5°	11681.2	4010.3	595.8	356.8	278.3	221.2	171.3	142.7	121.3	107.0	103.5
55°	12380.5	4302.8	560.2	321.1	249.8	192.7	149.9	121.3	103.5	89.2	85.6
57.5°	13140.5	4613.3	517.3	289.0	224.8	171.3	132.0	103.5	89.2	74.9	71.4
60°	14246.5	5073.5	453.1	264.0	196.2	149.9	114.2	92.8	78.5	60.7	57.1
62.5°	15841.3	5912.0	381.8	228.3	167.7	128.4	96.3	78.5	64.2	50.0	42.8
65°	18824.1	7339.1	314.0	189.1	135.6	107.0	82.1	64.2	50.0	35.7	32.1
67.5°	20971.9	7710.2	253.3	153.4	110.6	82.1	67.8	50.0	35.7	25.0	21.4
70°	18335.3	5537.3	196.2	124.9	92.8	64.2	53.5	39.2	25.0	17.8	14.3
72.5°	13814.8	3617.8	146.3	96.3	71.4	53.5	39.2	32.1	21.4	14.3	10.7
75°	9736.7	2090.8	107.0	71.4	50.0	39.2	32.1	25.0	17.8	10.7	10.7
77.5°	4991.4	863.4	74.9	50.0	35.7	25.0	21.4	14.3	14.3	10.7	7.1
80°	1516.3	285.4	42.8	32.1	25.0	17.8	10.7	10.7	10.7	7.1	3.6
82.5°	346.1	92.8	25.0	25.0	17.8	14.3	10.7	3.6	3.6	0.0	0.0
85°	89.2	28.5	21.4	17.8	17.8	14.3	7.1	3.6	0.0	0.0	0.0
87.5°	32.1	17.8	17.8	17.8	14.3	10.7	7.1	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)