

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: P643700

Luminaire Tested: GWS-SA6F-740-U-SL3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643700
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40309.8 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

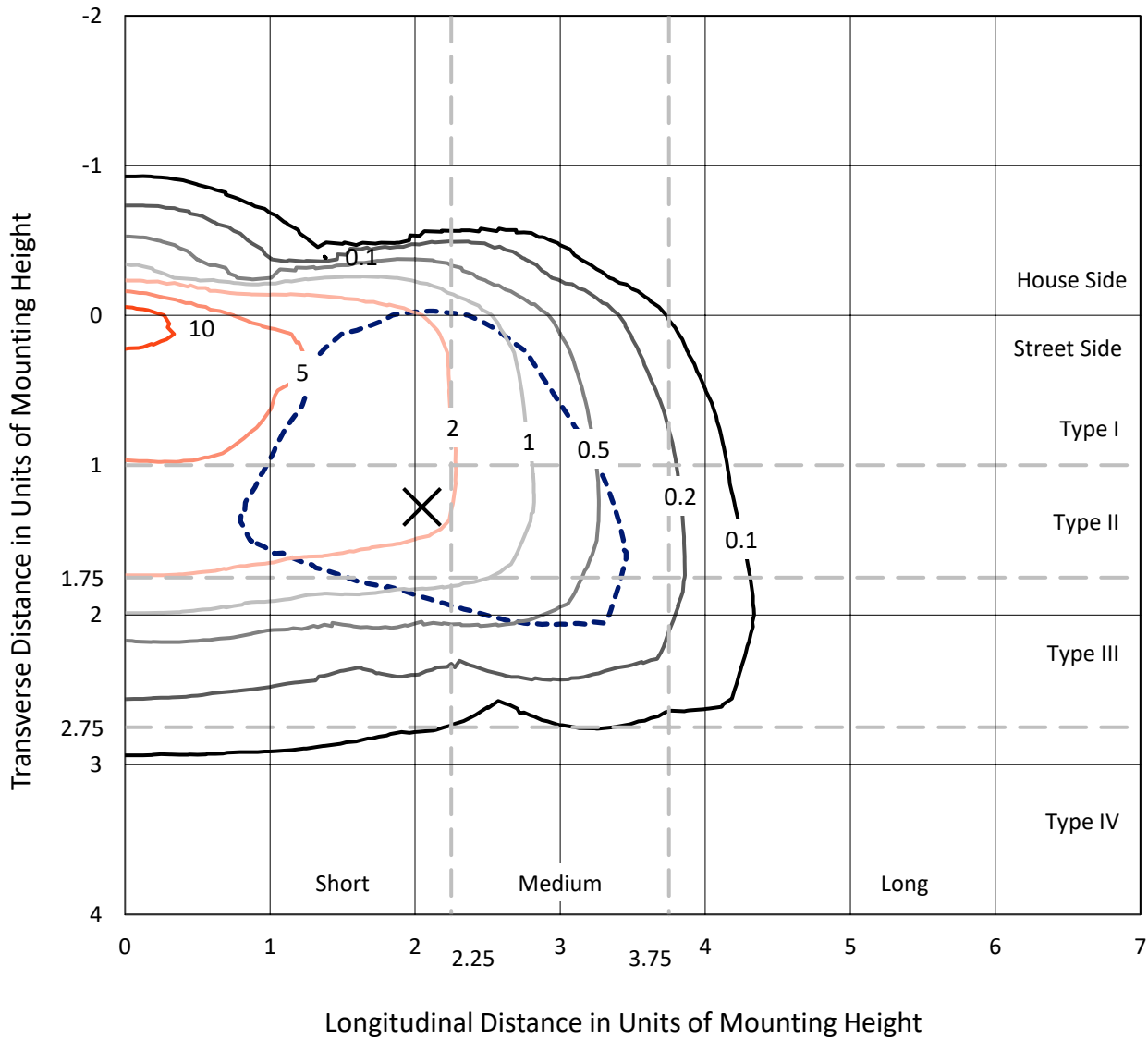
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

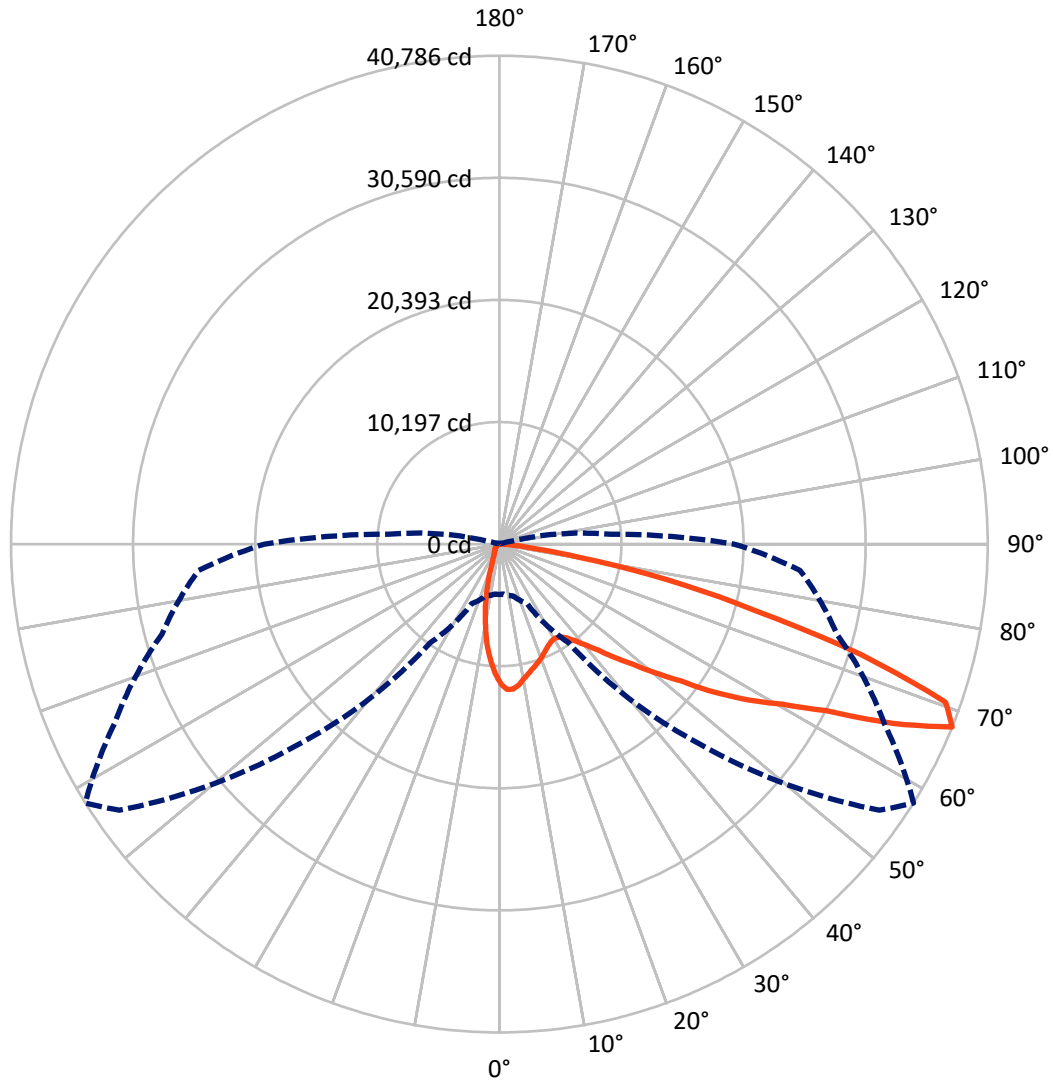
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.9 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
House Side	Lumens	3938.0	0.0	3938.0
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	36371.8	0.0	36371.8
	% Fixture	90.2	0.0	90.2
Total	Lumens	40309.8	0.0	40309.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	944.8	2.3
10°-20°	1966.8	4.9
20°-30°	2652.3	6.6
30°-40°	3727.1	9.2
40°-50°	5756.1	14.3
50°-60°	9204.8	22.8
60°-70°	10899.2	27.0
70°-80°	4821.5	12.0
80°-90°	337.1	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°	40309.8	100.0
0°-180°	40309.8	100.0

Coefficient of Utilization

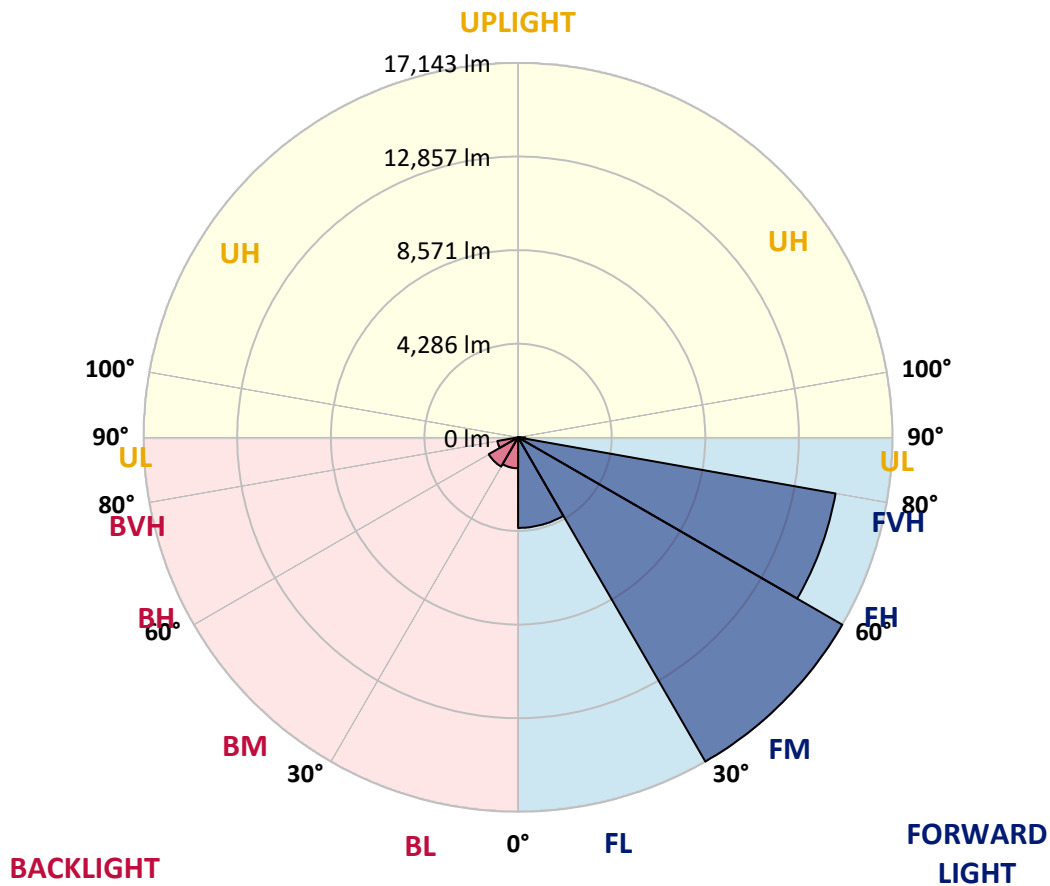


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4146.9	10.3			
FM (30°-60°)	17142.9	42.5			
FH (60°-80°)	14759.3	36.6			G5
FVH (80°-90°)	322.7	0.8			G3/500
BL (0°-30°)	1417.1	3.5	B3/2500		
BM (30°-60°)	1545.1	3.8	B2/2500		
BH (60°-80°)	961.4	2.4	B2/1000		G2/1000
BVH (80°-90°)	14.4	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°	11627.2	11627.2	11627.2	11627.2	11627.2	11627.2	11627.2	11627.2	11627.2	11627.2	11627.2
2.5°	12230.2	12251.6	12280.1	12315.8	12308.7	12276.6	12237.3	12148.1	12091.0	11912.7	11695.0
5°	11837.7	11834.2	11905.5	11973.3	12094.6	12158.8	12248.0	12166.0	12137.4	11923.4	11570.2
7.5°	11070.7	11109.9	11192.0	11299.0	11473.8	11662.9	11877.0	11852.0	11937.6	11794.9	11356.1
10°	10317.9	10296.5	10424.9	10585.5	10853.0	11095.6	11406.0	11402.5	11627.2	11613.0	11113.5
12.5°	9657.9	9654.3	9754.2	9936.1	10250.1	10589.0	11010.0	11020.7	11299.0	11413.2	10906.6
15°	9101.3	9108.4	9204.7	9393.8	9718.5	10132.4	10621.1	10710.3	11024.3	11256.2	10703.2
17.5°	8705.3	8708.8	8765.9	8930.0	9247.6	9690.0	10278.6	10399.9	10803.1	11138.5	10539.1
20°	8523.3	8509.0	8519.7	8601.8	8848.0	9251.1	9929.0	10086.0	10599.7	11056.4	10389.2
22.5°	8548.3	8526.9	8476.9	8466.2	8576.8	8883.7	9558.0	9750.6	10378.5	11006.5	10253.7
25°	8769.5	8723.1	8651.7	8544.7	8501.9	8655.3	9233.3	9433.1	10171.6	11010.0	10150.2
27.5°	9108.4	9058.5	8969.3	8826.6	8658.9	8594.7	9012.1	9201.2	10025.3	11092.1	10100.2
30°	9540.1	9500.9	9415.2	9244.0	9019.2	8755.2	8965.7	9122.7	9954.0	11259.8	10121.7
32.5°	10050.3	10021.8	9950.4	9793.4	9536.5	9133.4	9122.7	9244.0	10011.1	11502.4	10203.7
35°	10542.6	10553.4	10556.9	10471.3	10196.6	9707.8	9554.4	9597.2	10246.5	11866.3	10389.2
37.5°	11074.2	11049.3	11177.7	11238.4	10974.3	10453.5	10221.6	10225.1	10696.1	12405.0	10738.9
40°	11477.4	11484.5	11762.8	12012.6	11902.0	11398.9	11067.1	11063.5	11388.2	13143.5	11302.6
42.5°	11855.6	11902.0	12312.2	12740.4	12893.8	12447.8	12208.8	12119.6	12358.6	14142.5	12148.1
45°	12258.7	12326.5	12900.9	13511.0	13914.2	13650.1	13461.1	13496.7	13525.3	15305.6	13286.2
47.5°	12729.7	12772.5	13482.5	14342.3	15095.1	15027.3	15038.0	14995.2	14980.9	16771.9	14791.8
50°	13300.5	13400.4	14217.4	15244.9	16272.4	16722.0	16871.8	16889.6	16657.7	18370.3	16350.9
52.5°	14513.5	14634.8	15334.1	16233.2	17556.8	18502.3	19112.3	18991.0	18634.3	19918.6	18059.9
55°	15944.2	16037.0	16711.3	17642.4	19126.6	20453.8	21902.3	21852.4	20978.3	21549.1	19465.5
57.5°	16079.8	16183.2	17228.6	18655.7	21142.4	22865.6	24389.0	24549.6	23268.7	22705.0	20721.4
60°	14556.3	14766.8	16193.9	18113.4	21913.0	26108.7	27114.8	27146.9	24949.1	23878.8	22255.5
62.5°	11666.5	11766.4	13204.2	15708.7	20725.0	27999.6	31278.3	30600.4	27107.6	25694.8	24685.1
65°	6115.1	6521.8	7774.1	10546.2	16807.6	27339.5	36287.4	36101.9	30989.3	28295.7	26576.0
67.5°	4195.7	4192.1	4488.2	5497.9	10021.8	23539.9	38745.6	40786.3	35477.5	29187.6	25206.0
70°	3193.1	3203.8	3467.8	4124.3	5191.0	15669.5	36048.4	39537.6	36312.4	26501.1	20386.0
72.5°	2119.2	2140.6	2579.5	3332.3	4145.7	7681.3	28013.8	31635.1	30554.1	21285.1	14349.4
75°	1266.5	1284.4	1598.3	2422.5	3685.5	4299.1	17799.4	21870.2	21031.8	14670.5	7692.0
77.5°	520.9	535.2	820.6	1509.2	2697.2	3339.4	9843.4	14310.2	12597.7	5833.2	2101.4
80°	217.6	224.8	396.0	1056.0	1944.4	2094.3	4559.6	6725.2	5162.5	1255.8	642.2
82.5°	78.5	82.1	146.3	581.5	1209.5	1576.9	2301.2	2658.0	1455.6	410.3	346.1
85°	3.6	3.6	35.7	196.2	460.2	446.0	1316.5	1273.7	481.6	171.3	206.9
87.5°	0.0	0.0	3.6	3.6	7.1	17.8	124.9	221.2	103.5	42.8	89.2
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°	11627.2	11627.2	11627.2	11627.2	11627.2	11627.2	11627.2	11627.2	11627.2	11627.2	11627.2
2.5°	11552.3	11363.2	11156.3	10963.6	10656.8	10474.9	10250.1	10150.2	10007.5	9971.8	9993.2
5°	11316.8	10992.2	10496.3	10046.7	9465.2	8997.8	8526.9	8327.1	8070.2	7899.0	7827.6
7.5°	10985.0	10560.5	9786.3	8969.3	8170.1	7317.4	6668.1	6240.0	5851.1	5637.0	5594.2
10°	10649.7	10096.7	8987.1	7816.9	6578.9	5558.5	4680.9	4031.5	3503.5	3264.5	3079.0
12.5°	10303.6	9615.0	8173.7	6646.7	5208.9	3817.5	2732.9	2101.4	1723.2	1573.4	1598.3
15°	9986.1	9151.2	7367.4	5476.5	3667.6	2304.8	1509.2	1273.7	1184.5	1155.9	1152.4
17.5°	9682.8	8712.4	6564.6	4338.4	2418.9	1412.8	1155.9	1098.9	1073.9	1059.6	1059.6
20°	9408.1	8291.4	5779.7	3268.0	1562.7	1120.3	1045.3	1016.8	995.4	984.7	984.7
22.5°	9151.2	7884.7	5012.7	2311.9	1152.4	1006.1	959.7	931.2	906.2	891.9	891.9
25°	8919.3	7517.2	4281.3	1591.2	991.8	920.5	870.5	838.4	795.6	770.6	770.6
27.5°	8751.6	7189.0	3578.4	1159.5	895.5	827.7	770.6	727.8	681.4	652.9	645.8
30°	8651.7	6910.7	2868.5	952.6	806.3	738.5	674.3	620.8	567.3	538.7	535.2
32.5°	8594.7	6653.8	2219.1	831.3	731.4	652.9	581.5	524.5	470.9	438.8	435.3
35°	8616.1	6454.0	1662.6	749.2	660.0	578.0	499.5	442.4	396.0	367.5	360.3
37.5°	8801.6	6364.8	1248.7	685.0	599.4	513.8	431.7	378.2	335.4	314.0	310.4
40°	9161.9	6382.7	981.1	635.1	549.4	449.5	371.0	321.1	289.0	271.1	267.6
42.5°	9722.1	6532.5	809.9	592.2	495.9	392.5	321.1	281.9	249.7	231.9	228.3
45°	10556.9	6842.9	706.4	542.3	438.8	338.9	278.3	242.6	214.1	192.7	189.1
47.5°	11766.4	7381.6	638.6	495.9	388.9	292.6	239.0	203.4	178.4	160.5	157.0
50°	13054.3	8027.4	581.5	449.5	346.1	253.3	203.4	167.7	146.3	128.4	124.9
52.5°	14427.9	8723.1	538.7	406.7	306.8	217.6	171.3	139.1	117.7	99.9	96.3
55°	15748.0	9422.4	488.8	378.2	260.4	185.5	142.7	114.2	92.8	78.5	78.5
57.5°	17032.4	10064.6	435.3	331.8	214.1	157.0	117.7	92.8	74.9	64.2	60.7
60°	18566.5	10952.9	374.6	281.9	178.4	132.0	96.3	74.9	60.7	49.9	49.9
62.5°	20846.3	11877.0	321.1	235.5	149.8	110.6	78.5	60.7	49.9	42.8	39.2
65°	21591.9	11377.5	271.1	192.7	121.3	89.2	64.2	53.5	42.8	39.2	35.7
67.5°	19601.1	9326.1	224.8	157.0	99.9	74.9	57.1	46.4	39.2	35.7	32.1
70°	15294.9	6618.1	174.8	117.7	82.1	60.7	49.9	42.8	35.7	32.1	32.1
72.5°	10403.5	3913.8	139.1	89.2	67.8	53.5	42.8	39.2	35.7	32.1	28.5
75°	5123.3	1391.4	107.0	67.8	53.5	46.4	39.2	35.7	32.1	28.5	28.5
77.5°	1380.7	385.3	82.1	53.5	42.8	35.7	35.7	35.7	32.1	25.0	25.0
80°	467.4	160.5	60.7	39.2	35.7	28.5	25.0	32.1	28.5	25.0	21.4
82.5°	256.9	78.5	42.8	32.1	25.0	21.4	21.4	21.4	21.4	17.8	17.8
85°	164.1	42.8	28.5	25.0	25.0	17.8	14.3	14.3	10.7	10.7	10.7
87.5°	74.9	25.0	25.0	21.4	21.4	17.8	10.7	7.1	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)