

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: P641221

Luminaire Tested: GWS-SA5F-740-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641221
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-SA5F-740-U-SL2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33086.7 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

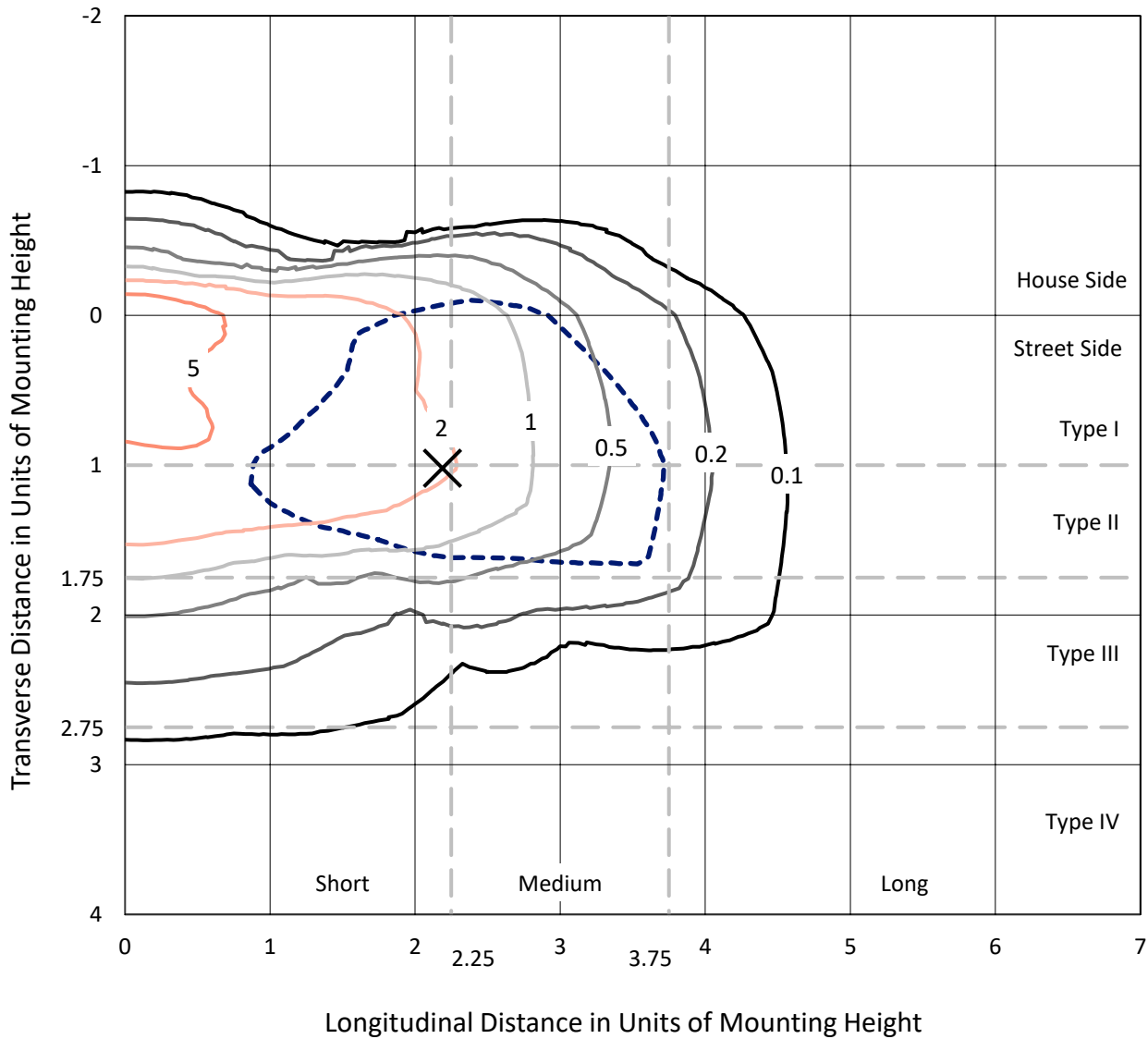
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

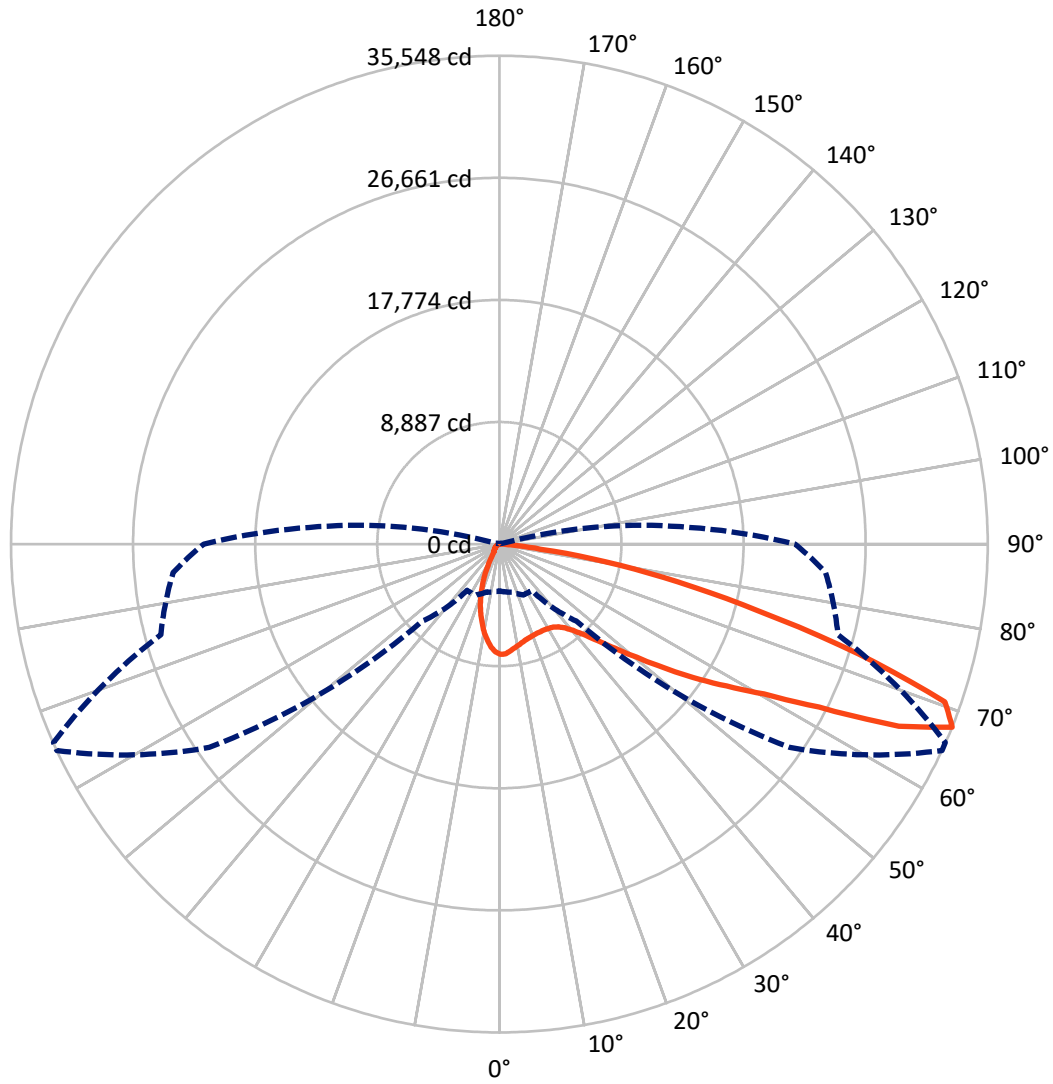
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.9 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	4131.5	0.0	4131.5
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	28955.2	0.0	28955.2
	% Fixture	87.5	0.0	87.5
Total	Lumens	33086.7	0.0	33086.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	666.5	2.0
10°-20°	1498.2	4.5
20°-30°	2140.9	6.5
30°-40°	3114.7	9.4
40°-50°	4878.1	14.7
50°-60°	7610.0	23.0
60°-70°	8359.2	25.3
70°-80°	4448.7	13.4
80°-90°	370.4	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°	33086.7	100.0
0°-180°	33086.7	100.0

Coefficient of Utilization



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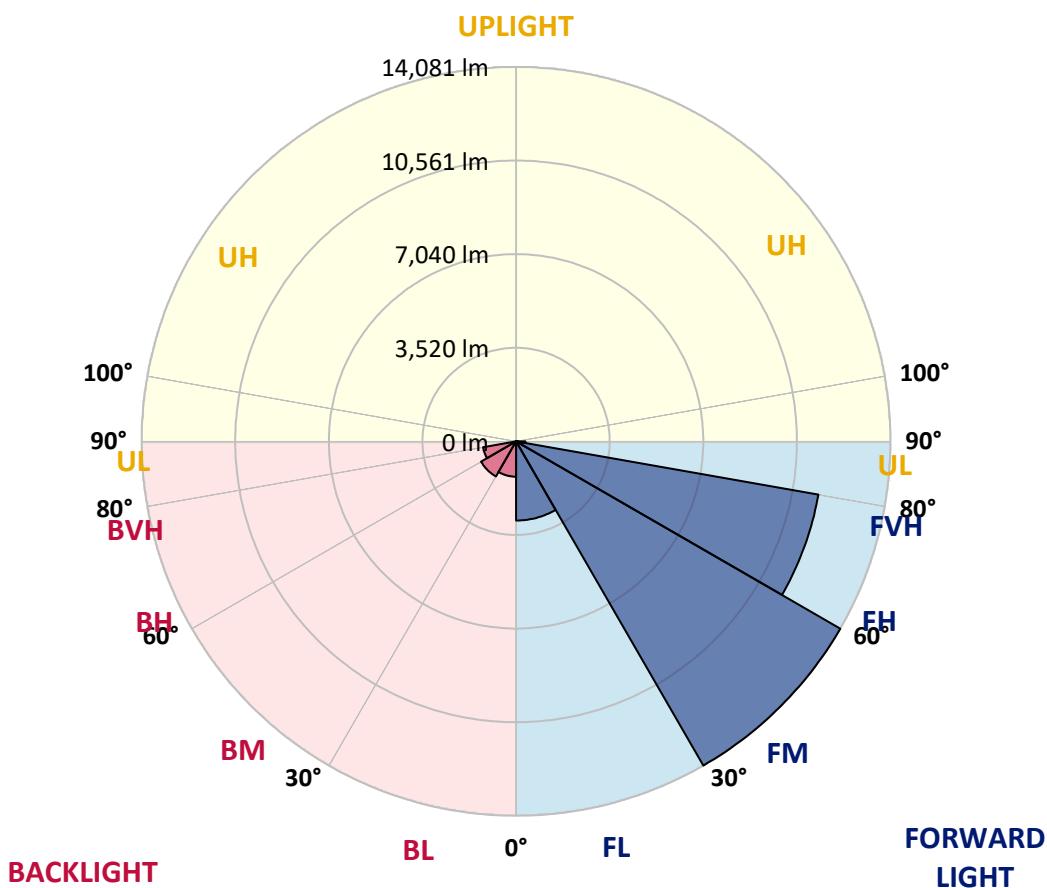
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2977.6	9.0			
FM (30°-60°)	14081.0	42.6			
FH (60°-80°)	11546.0	34.9			G4/12000
FVH (80°-90°)	350.6	1.1			G3/500
BL (0°-30°)	1328.0	4.0	B3/2500		
BM (30°-60°)	1521.8	4.6	B2/2500		
BH (60°-80°)	1261.9	3.8	B3/2500		G3/2500
BVH (80°-90°)	19.8	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°	8024.6	8024.6	8024.6	8024.6	8024.6	8024.6	8024.6	8024.6	8024.6	8024.6	8024.6
2.5°	7746.3	7770.2	7737.3	7818.1	7833.1	7922.8	7973.7	8009.6	8006.6	8051.5	8051.5
5°	7291.5	7315.5	7297.5	7384.3	7453.1	7593.7	7710.4	7845.0	7851.0	7988.7	8039.5
7.5°	6905.6	6908.5	6908.5	7016.3	7106.0	7279.6	7453.1	7659.5	7683.5	7895.9	8030.6
10°	6588.4	6597.4	6600.4	6723.0	6821.8	7031.2	7252.6	7501.0	7527.9	7815.1	8024.6
12.5°	6370.0	6373.0	6384.9	6513.6	6621.3	6839.7	7064.1	7348.4	7384.3	7722.4	7997.6
15°	6265.3	6259.3	6265.3	6373.0	6480.7	6690.1	6920.5	7225.7	7264.6	7644.6	8000.6
17.5°	6259.3	6250.3	6244.3	6325.1	6393.9	6579.4	6812.8	7144.9	7186.8	7608.7	8033.5
20°	6346.1	6340.1	6310.1	6346.1	6361.0	6513.6	6744.0	7082.1	7124.0	7602.7	8105.4
22.5°	6573.4	6558.5	6513.6	6480.7	6399.9	6489.7	6696.1	7037.2	7085.1	7617.7	8198.1
25°	6911.5	6905.6	6848.7	6767.9	6561.5	6525.6	6699.1	7037.2	7082.1	7635.6	8296.8
27.5°	7420.2	7384.3	7312.5	7171.8	6875.6	6666.2	6758.9	7055.2	7100.0	7659.5	8377.6
30°	7937.8	7934.8	7910.9	7767.3	7327.4	6935.5	6884.6	7103.0	7144.9	7680.5	8452.4
32.5°	8473.4	8482.3	8542.2	8431.5	7949.8	7336.4	7112.0	7201.8	7231.7	7722.4	8518.2
35°	8982.0	9000.0	9158.5	9197.4	8706.7	7943.8	7483.0	7399.2	7402.2	7815.1	8605.0
37.5°	9469.7	9529.5	9783.9	9972.4	9649.2	8679.8	8018.6	7734.3	7710.4	8000.6	8736.7
40°	10023.2	10136.9	10457.1	10777.2	10675.5	9652.2	8748.6	8249.0	8198.1	8341.7	8973.0
42.5°	10636.6	10759.3	11184.1	11632.9	11680.8	10828.1	9661.2	9000.0	8913.2	8916.2	9415.9
45°	11294.8	11459.4	11953.1	12599.3	12889.6	12138.6	10786.2	10014.3	9927.5	9798.8	10127.9
47.5°	12159.5	12303.1	12778.9	13523.9	14080.4	13544.8	12261.3	11318.8	11160.2	10971.7	11235.0
50°	12904.5	13030.2	13440.1	14373.6	15531.5	15358.0	13933.8	12949.4	12796.8	12476.7	12695.1
52.5°	13069.1	13167.8	13544.8	14595.0	16641.6	17646.9	15983.3	14921.1	14813.4	14221.0	14304.8
55°	12330.1	12479.7	12817.8	13984.6	16931.8	19884.9	18643.2	17144.2	16919.8	15974.3	16123.9
57.5°	10463.1	10729.3	11046.5	12563.4	16144.9	21075.7	22359.3	19498.9	19295.5	17661.8	17664.8
60°	7668.5	7883.9	8096.4	9484.7	14277.9	20994.9	25731.3	22143.9	21772.8	19041.1	18990.3
62.5°	5577.1	5687.8	5684.8	6178.5	9804.8	19612.6	27502.5	26129.2	25264.5	20516.2	20226.0
65°	4386.3	4383.3	4511.9	4673.5	5475.4	15139.6	27721.0	31948.7	31015.2	22493.9	21889.5
67.5°	3413.9	3479.7	3608.4	4084.1	4114.0	7922.8	25800.1	35548.1	35530.1	25512.9	23837.3
70°	2633.0	2722.7	2905.2	3599.4	3799.9	4434.2	19304.4	34408.1	34698.3	26862.3	22458.0
72.5°	1690.5	1684.5	1953.8	2908.2	3650.3	3695.1	10675.5	27332.0	27661.1	24331.0	18158.5
75°	945.5	951.5	1104.1	1780.2	3401.9	3476.7	5286.9	19489.9	19750.2	18969.3	13951.7
77.5°	371.0	383.0	517.6	936.5	2244.0	3105.7	3141.6	13290.5	13329.4	11755.6	8557.1
80°	149.6	158.6	263.3	580.4	1367.3	2091.4	2244.0	7830.1	7671.5	4550.8	2489.4
82.5°	44.9	47.9	104.7	329.1	715.1	1487.0	1514.0	3004.0	2836.4	978.4	634.3
85°	3.0	3.0	23.9	101.7	254.3	374.0	1008.3	978.4	867.7	245.3	281.2
87.5°	0.0	0.0	3.0	3.0	6.0	12.0	107.7	179.5	182.5	44.9	125.7
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°	8024.6	8024.6	8024.6	8024.6	8024.6	8024.6	8024.6	8024.6	8024.6	8024.6	8024.6
2.5°	8051.5	7943.8	7934.8	7851.0	7767.3	7662.5	7539.9	7450.1	7387.3	7276.6	7255.6
5°	8039.5	7895.9	7761.3	7521.9	7255.6	6968.4	6717.1	6483.7	6337.1	6238.3	6196.4
7.5°	8015.6	7833.1	7521.9	7070.1	6624.3	6121.6	5729.7	5370.7	5125.3	4981.7	4918.9
10°	7997.6	7752.3	7246.6	6561.5	5870.3	5176.2	4580.8	4048.2	3752.0	3518.6	3479.7
12.5°	7961.7	7635.6	6893.6	5966.1	5074.4	4152.9	3392.9	2740.7	2288.9	2085.4	2013.6
15°	7925.8	7512.9	6540.5	5337.7	4206.8	3069.8	2148.3	1519.9	1208.8	1113.0	1107.0
17.5°	7919.8	7402.2	6157.6	4742.3	3297.2	2010.6	1223.7	984.4	918.5	894.6	894.6
20°	7937.8	7309.5	5780.6	4057.2	2402.6	1223.7	912.6	852.7	813.8	792.9	792.9
22.5°	7955.8	7213.7	5418.5	3366.0	1594.7	894.6	804.9	754.0	709.1	685.2	673.2
25°	7967.7	7109.0	5017.6	2671.9	1041.2	777.9	706.1	640.3	586.4	556.5	556.5
27.5°	7964.7	6983.3	4613.7	1992.7	807.8	691.2	604.4	535.6	481.7	448.8	451.8
30°	7940.8	6845.7	4194.8	1391.3	706.1	604.4	517.6	445.8	392.0	365.0	362.0
32.5°	7922.8	6699.1	3710.1	978.4	634.3	529.6	439.8	371.0	326.1	305.2	302.2
35°	7901.9	6555.5	3249.3	745.0	571.5	457.8	371.0	314.2	278.3	260.3	260.3
37.5°	7907.9	6405.9	2749.7	640.3	508.6	397.9	317.2	269.3	239.4	221.4	218.4
40°	8000.6	6316.1	2259.0	580.4	451.8	344.1	275.3	233.4	203.5	185.5	182.5
42.5°	8231.0	6319.1	1789.2	535.6	400.9	293.2	239.4	200.5	173.5	152.6	149.6
45°	8691.8	6444.8	1373.3	487.7	347.1	254.3	206.4	170.5	143.6	125.7	122.7
47.5°	9445.8	6818.8	1041.2	445.8	302.2	221.4	176.5	143.6	119.7	104.7	101.7
50°	10645.6	7495.0	819.8	394.9	254.3	191.5	149.6	119.7	98.7	83.8	80.8
52.5°	12087.7	8509.3	703.1	350.1	218.4	167.6	128.7	98.7	80.8	68.8	65.8
55°	13745.3	9721.0	649.3	305.2	185.5	143.6	104.7	80.8	65.8	56.8	50.9
57.5°	15265.2	10813.1	646.3	260.3	158.6	122.7	86.8	68.8	56.8	44.9	41.9
60°	16746.3	11725.7	607.4	215.4	137.6	101.7	74.8	56.8	47.9	38.9	35.9
62.5°	18089.7	12467.7	508.6	173.5	116.7	83.8	62.8	50.9	41.9	32.9	32.9
65°	19777.2	13413.2	389.0	140.6	95.7	68.8	53.9	44.9	38.9	29.9	29.9
67.5°	21521.5	13912.8	278.3	116.7	77.8	59.8	47.9	41.9	32.9	26.9	26.9
70°	19492.9	11755.6	200.5	95.7	65.8	50.9	41.9	38.9	32.9	26.9	23.9
72.5°	15223.3	8476.4	149.6	74.8	56.8	47.9	38.9	35.9	29.9	23.9	23.9
75°	11288.8	4942.8	113.7	59.8	44.9	38.9	38.9	35.9	29.9	23.9	20.9
77.5°	6136.6	1723.4	86.8	47.9	35.9	29.9	32.9	32.9	26.9	20.9	18.0
80°	1624.7	472.7	59.8	35.9	29.9	23.9	23.9	29.9	23.9	18.0	18.0
82.5°	472.7	137.6	41.9	29.9	23.9	20.9	20.9	20.9	18.0	15.0	12.0
85°	230.4	50.9	29.9	23.9	20.9	18.0	15.0	15.0	12.0	9.0	9.0
87.5°	101.7	20.9	23.9	20.9	20.9	15.0	12.0	9.0	9.0	6.0	3.0
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)