

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: P641170

Luminaire Tested: GWS-SA5F-735-U-SL3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641170
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-SA5F-735-U-SL3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33341.5 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

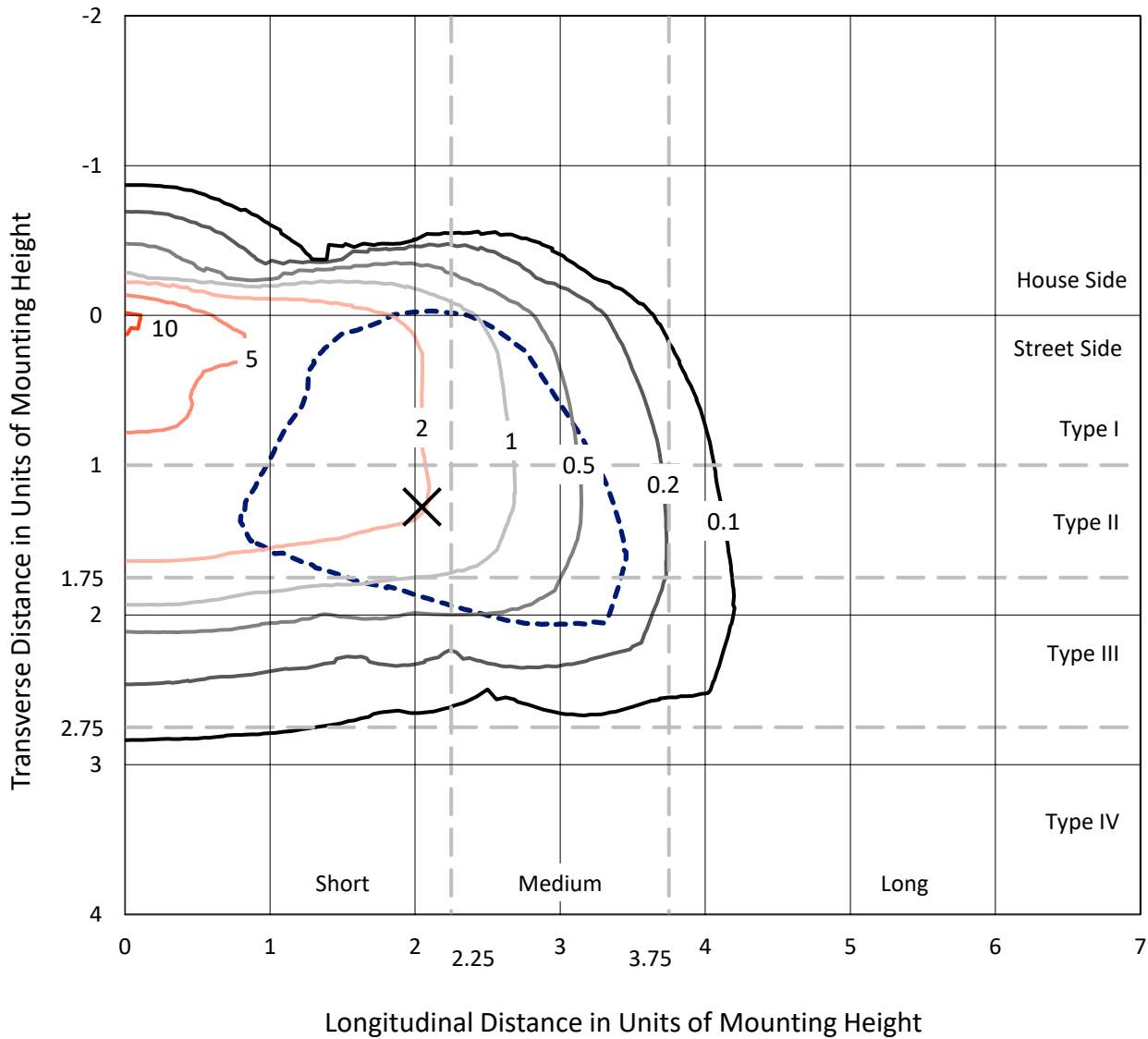
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

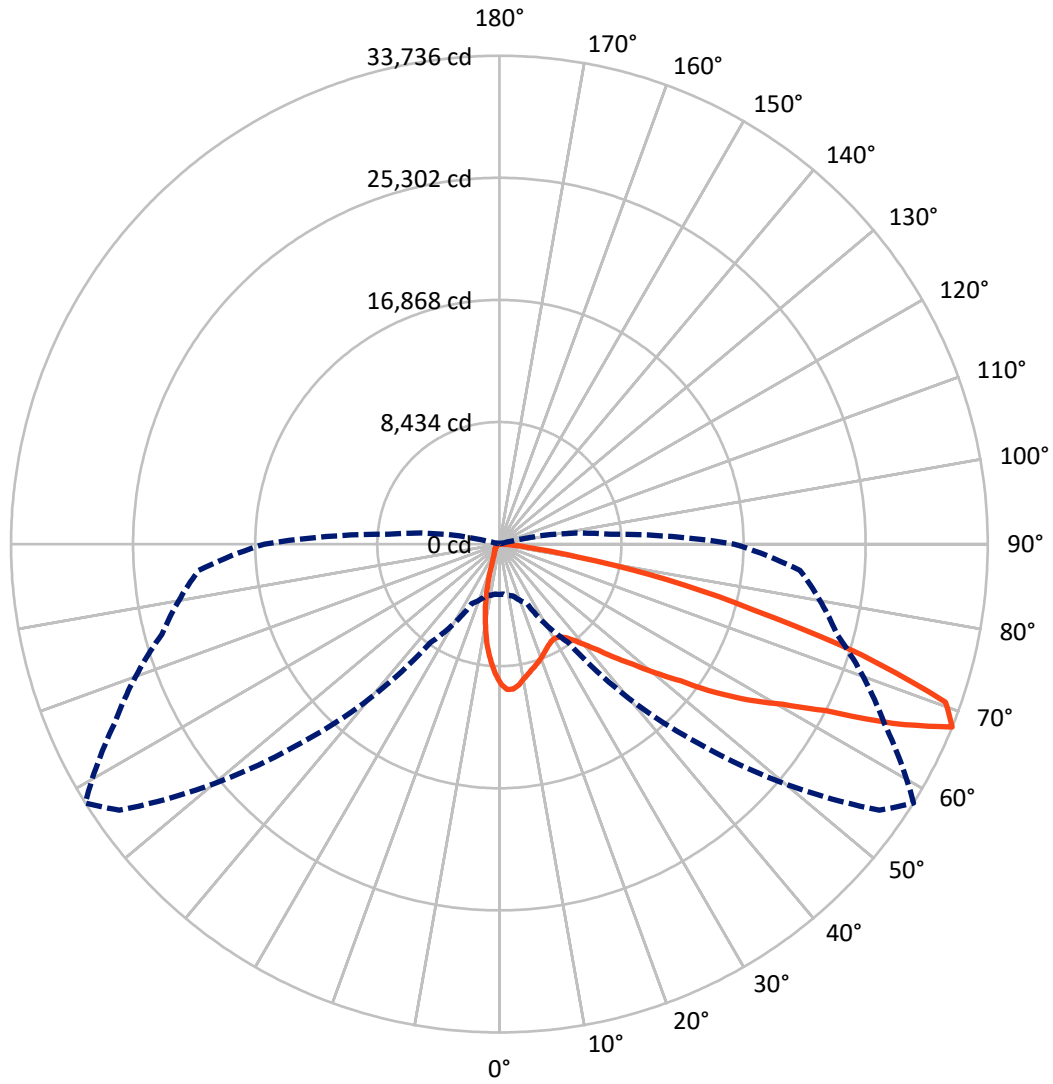
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.7 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	3257.3	0.0	3257.3
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	30084.3	0.0	30084.3
	% Fixture	90.2	0.0	90.2
Total	Lumens	33341.5	0.0	33341.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	781.5	2.3
10°-20°	1626.8	4.9
20°-30°	2193.8	6.6
30°-40°	3082.8	9.2
40°-50°	4761.1	14.3
50°-60°	7613.6	22.8
60°-70°	9015.1	27.0
70°-80°	3988.0	12.0
80°-90°	278.8	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°	33341.5	100.0
0°-180°	33341.5	100.0

Coefficient of Utilization



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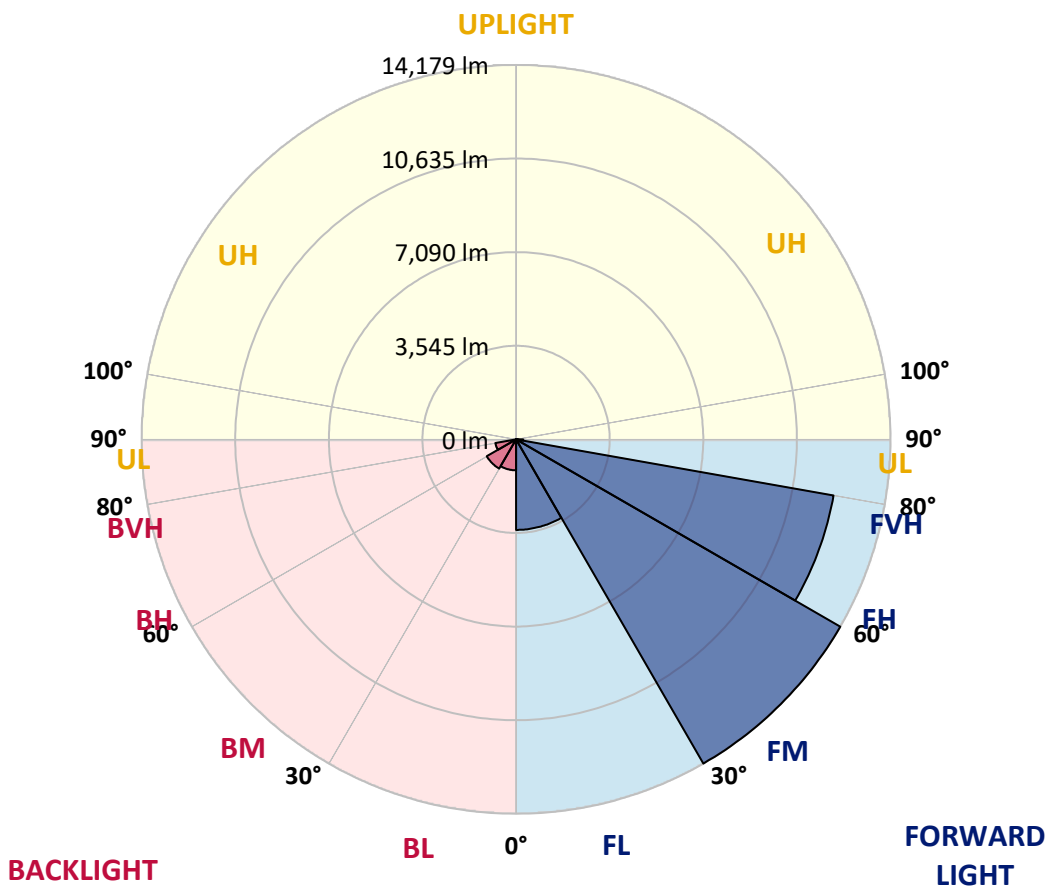
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3430.0	10.3			
FM (30°-60°)	14179.4	42.5			
FH (60°-80°)	12207.9	36.6			G5
FVH (80°-90°)	266.9	0.8			G3/500
BL (0°-30°)	1172.1	3.5	B3/2500		
BM (30°-60°)	1278.0	3.8	B2/2500		
BH (60°-80°)	795.2	2.4	B2/1000		G2/1000
BVH (80°-90°)	11.9	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°	9617.3	9617.3	9617.3	9617.3	9617.3	9617.3	9617.3	9617.3	9617.3	9617.3	9617.3
2.5°	10116.0	10133.7	10157.3	10186.8	10180.9	10154.3	10121.9	10048.1	10000.9	9853.3	9673.3
5°	9791.4	9788.4	9847.4	9903.5	10003.8	10056.9	10130.7	10062.9	10039.2	9862.2	9570.0
7.5°	9156.9	9189.4	9257.2	9345.8	9490.4	9646.8	9823.8	9803.2	9874.0	9755.9	9393.0
10°	8534.2	8516.5	8622.8	8755.6	8976.9	9177.6	9434.3	9431.3	9617.3	9605.4	9192.3
12.5°	7988.3	7985.4	8068.0	8218.5	8478.2	8758.5	9106.7	9115.6	9345.8	9440.2	9021.2
15°	7528.0	7533.9	7613.5	7769.9	8038.5	8380.8	8785.1	8858.9	9118.5	9310.4	8852.9
17.5°	7200.4	7203.3	7250.6	7386.3	7648.9	8014.9	8501.8	8602.1	8935.6	9213.0	8717.2
20°	7049.9	7038.1	7046.9	7114.8	7318.4	7651.9	8212.6	8342.4	8767.4	9145.1	8593.3
22.5°	7070.6	7052.8	7011.5	7002.7	7094.2	7347.9	7905.7	8065.0	8584.4	9103.8	8481.1
25°	7253.5	7215.2	7156.1	7067.6	7032.2	7159.1	7637.1	7802.4	8413.3	9106.7	8395.5
27.5°	7533.9	7492.5	7418.8	7300.7	7162.0	7108.9	7454.2	7610.6	8292.3	9174.6	8354.2
30°	7890.9	7858.5	7787.6	7646.0	7460.1	7241.7	7415.8	7545.7	8233.2	9313.3	8371.9
32.5°	8312.9	8289.3	8230.3	8100.4	7888.0	7554.5	7545.7	7646.0	8280.5	9514.0	8439.8
35°	8720.2	8729.0	8732.0	8661.1	8433.9	8029.6	7902.7	7938.1	8475.2	9815.0	8593.3
37.5°	9159.9	9139.2	9245.4	9295.6	9077.2	8646.4	8454.6	8457.5	8847.0	10260.6	8882.5
40°	9493.3	9499.2	9729.4	9936.0	9844.5	9428.4	9153.9	9151.0	9419.5	10871.4	9348.7
42.5°	9806.1	9844.5	10183.8	10538.0	10664.9	10296.0	10098.3	10024.5	10222.2	11697.7	10048.1
45°	10139.6	10195.6	10670.8	11175.4	11508.8	11290.5	11134.1	11163.6	11187.2	12659.7	10989.5
47.5°	10529.1	10564.5	11151.8	11863.0	12485.6	12429.5	12438.4	12403.0	12391.2	13872.6	12234.8
50°	11001.3	11083.9	11759.7	12609.6	13459.4	13831.3	13955.2	13970.0	13778.1	15194.6	13524.4
52.5°	12004.6	12104.9	12683.3	13427.0	14521.8	15303.8	15808.4	15708.1	15413.0	16475.3	14937.9
55°	13187.9	13264.7	13822.4	14592.6	15820.2	16918.0	18116.1	18074.8	17351.8	17823.9	16100.6
57.5°	13300.1	13385.7	14250.3	15430.7	17487.5	18912.8	20172.9	20305.7	19246.3	18780.1	17139.3
60°	12040.0	12214.1	13394.5	14982.1	18124.9	21595.3	22427.5	22454.0	20636.2	19750.9	18408.2
62.5°	9649.7	9732.3	10921.6	12993.2	17142.3	23159.3	25871.3	25310.6	22421.6	21253.0	20417.9
65°	5058.0	5394.4	6430.2	8723.1	13902.1	22613.4	30014.4	29861.0	25632.2	23404.2	21981.9
67.5°	3470.4	3467.4	3712.3	4547.5	8289.3	19470.6	32047.7	33735.6	29344.6	24142.0	20848.7
70°	2641.1	2650.0	2868.4	3411.3	4293.7	12960.7	29816.7	32702.8	30035.1	21919.9	16861.9
72.5°	1752.9	1770.6	2133.6	2756.2	3429.0	6353.5	23171.1	26166.4	25272.2	17605.6	11868.9
75°	1047.6	1062.4	1322.0	2003.7	3048.4	3555.9	14722.5	18089.5	17396.0	12134.4	6362.3
77.5°	430.8	442.6	678.7	1248.3	2230.9	2762.1	8141.8	11836.4	10419.9	4824.9	1738.1
80°	180.0	185.9	327.6	873.5	1608.3	1732.2	3771.4	5562.6	4270.1	1038.7	531.2
82.5°	64.9	67.9	121.0	481.0	1000.4	1304.3	1903.4	2198.5	1204.0	339.4	286.2
85°	3.0	3.0	29.5	162.3	380.7	368.9	1088.9	1053.5	398.4	141.6	171.2
87.5°	0.0	0.0	3.0	3.0	5.9	14.8	103.3	183.0	85.6	35.4	73.8
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°	9617.3	9617.3	9617.3	9617.3	9617.3	9617.3	9617.3	9617.3	9617.3	9617.3	9617.3
2.5°	9555.3	9398.9	9227.7	9068.4	8814.6	8664.1	8478.2	8395.5	8277.5	8248.0	8265.7
5°	9360.5	9092.0	8681.8	8310.0	7829.0	7442.4	7052.8	6887.6	6675.1	6533.5	6474.5
7.5°	9086.1	8734.9	8094.5	7418.8	6757.8	6052.5	5515.4	5161.3	4839.6	4662.6	4627.1
10°	8808.7	8351.3	7433.5	6465.6	5441.6	4597.6	3871.7	3334.6	2897.9	2700.1	2546.7
12.5°	8522.4	7952.9	6760.7	5497.7	4308.4	3157.6	2260.5	1738.1	1425.3	1301.4	1322.0
15°	8259.8	7569.3	6093.8	4529.8	3033.6	1906.3	1248.3	1053.5	979.7	956.1	953.2
17.5°	8009.0	7206.3	5429.8	3588.4	2000.8	1168.6	956.1	908.9	888.2	876.4	876.4
20°	7781.7	6858.1	4780.6	2703.1	1292.5	926.6	864.6	841.0	823.3	814.5	814.5
22.5°	7569.3	6521.7	4146.1	1912.2	953.2	832.2	793.8	770.2	749.5	737.7	737.7
25°	7377.5	6217.7	3541.2	1316.1	820.4	761.4	720.0	693.5	658.1	637.4	637.4
27.5°	7238.8	5946.2	2959.8	959.1	740.7	684.6	637.4	602.0	563.6	540.0	534.1
30°	7156.1	5716.1	2372.6	787.9	666.9	610.9	557.7	513.5	469.2	445.6	442.6
32.5°	7108.9	5503.6	1835.5	687.6	605.0	540.0	481.0	433.8	389.5	363.0	360.0
35°	7126.6	5338.3	1375.2	619.7	545.9	478.1	413.1	365.9	327.6	304.0	298.0
37.5°	7280.1	5264.6	1032.8	566.6	495.8	424.9	357.1	312.8	277.4	259.7	256.7
40°	7578.1	5279.3	811.5	525.3	454.5	371.8	306.9	265.6	239.0	224.3	221.3
42.5°	8041.4	5403.2	669.9	489.9	410.2	324.6	265.6	233.1	206.6	191.8	188.9
45°	8732.0	5660.0	584.3	448.5	363.0	280.3	230.2	200.7	177.1	159.4	156.4
47.5°	9732.3	6105.6	528.2	410.2	321.7	242.0	197.7	168.2	147.5	132.8	129.8
50°	10797.6	6639.7	481.0	371.8	286.2	209.5	168.2	138.7	121.0	106.2	103.3
52.5°	11933.8	7215.2	445.6	336.4	253.8	180.0	141.6	115.1	97.4	82.6	79.7
55°	13025.6	7793.5	404.3	312.8	215.4	153.5	118.0	94.4	76.7	64.9	64.9
57.5°	14088.0	8324.7	360.0	274.4	177.1	129.8	97.4	76.7	62.0	53.1	50.2
60°	15356.9	9059.5	309.9	233.1	147.5	109.2	79.7	62.0	50.2	41.3	41.3
62.5°	17242.6	9823.8	265.6	194.8	123.9	91.5	64.9	50.2	41.3	35.4	32.5
65°	17859.3	9410.7	224.3	159.4	100.3	73.8	53.1	44.3	35.4	32.5	29.5
67.5°	16212.7	7713.9	185.9	129.8	82.6	62.0	47.2	38.4	32.5	29.5	26.6
70°	12650.9	5474.1	144.6	97.4	67.9	50.2	41.3	35.4	29.5	26.6	26.6
72.5°	8605.1	3237.2	115.1	73.8	56.1	44.3	35.4	32.5	29.5	26.6	23.6
75°	4237.6	1150.9	88.5	56.1	44.3	38.4	32.5	29.5	26.6	23.6	23.6
77.5°	1142.0	318.7	67.9	44.3	35.4	29.5	29.5	29.5	26.6	20.7	20.7
80°	386.6	132.8	50.2	32.5	29.5	23.6	20.7	26.6	23.6	20.7	17.7
82.5°	212.5	64.9	35.4	26.6	20.7	17.7	17.7	17.7	17.7	14.8	14.8
85°	135.7	35.4	23.6	20.7	20.7	14.8	11.8	11.8	8.9	8.9	8.9
87.5°	62.0	20.7	20.7	17.7	17.7	14.8	8.9	5.9	3.0	3.0	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)