

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: P641362

Luminaire Tested: GWS-SA5F-760-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-760-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32964.5 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

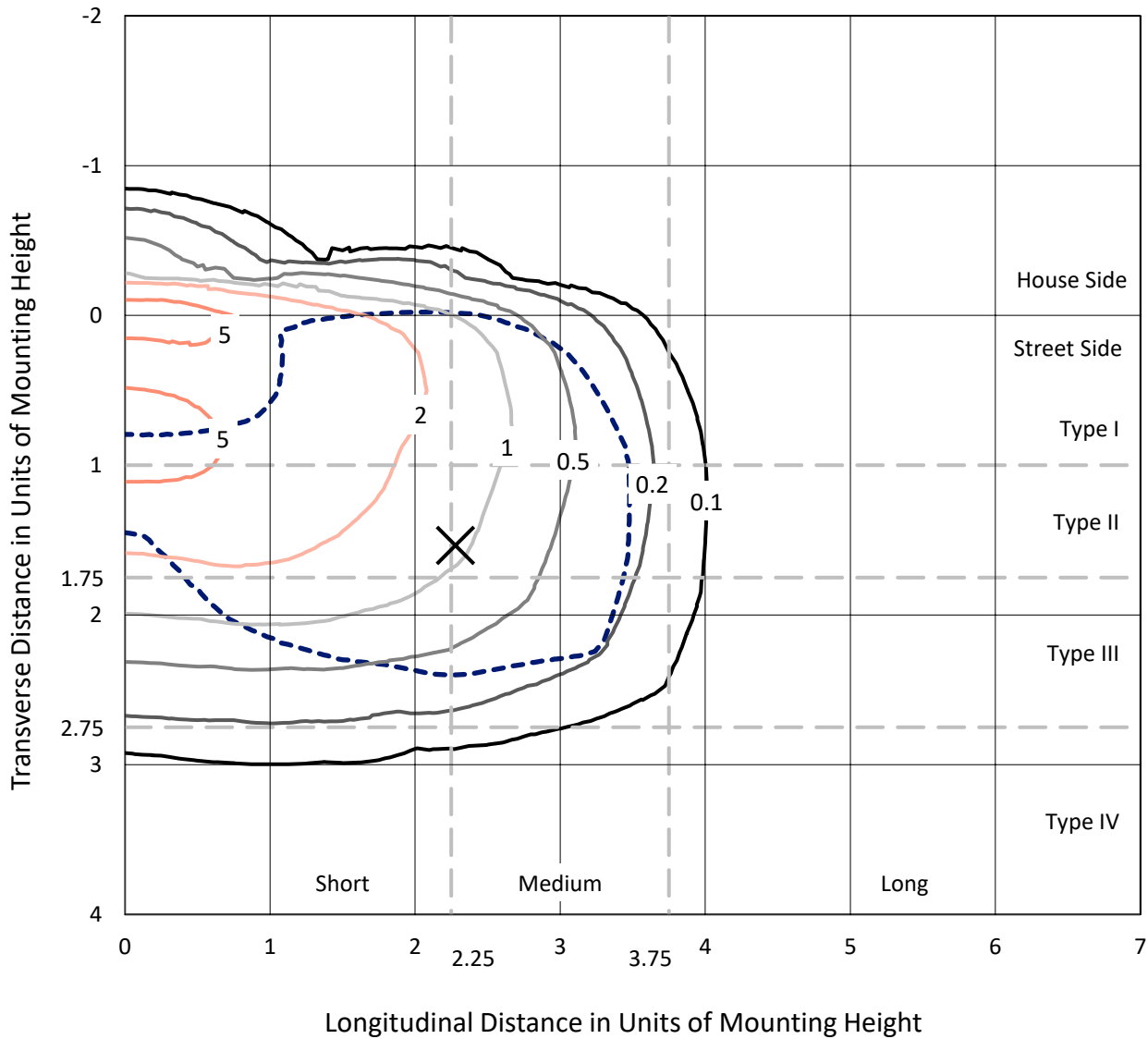
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

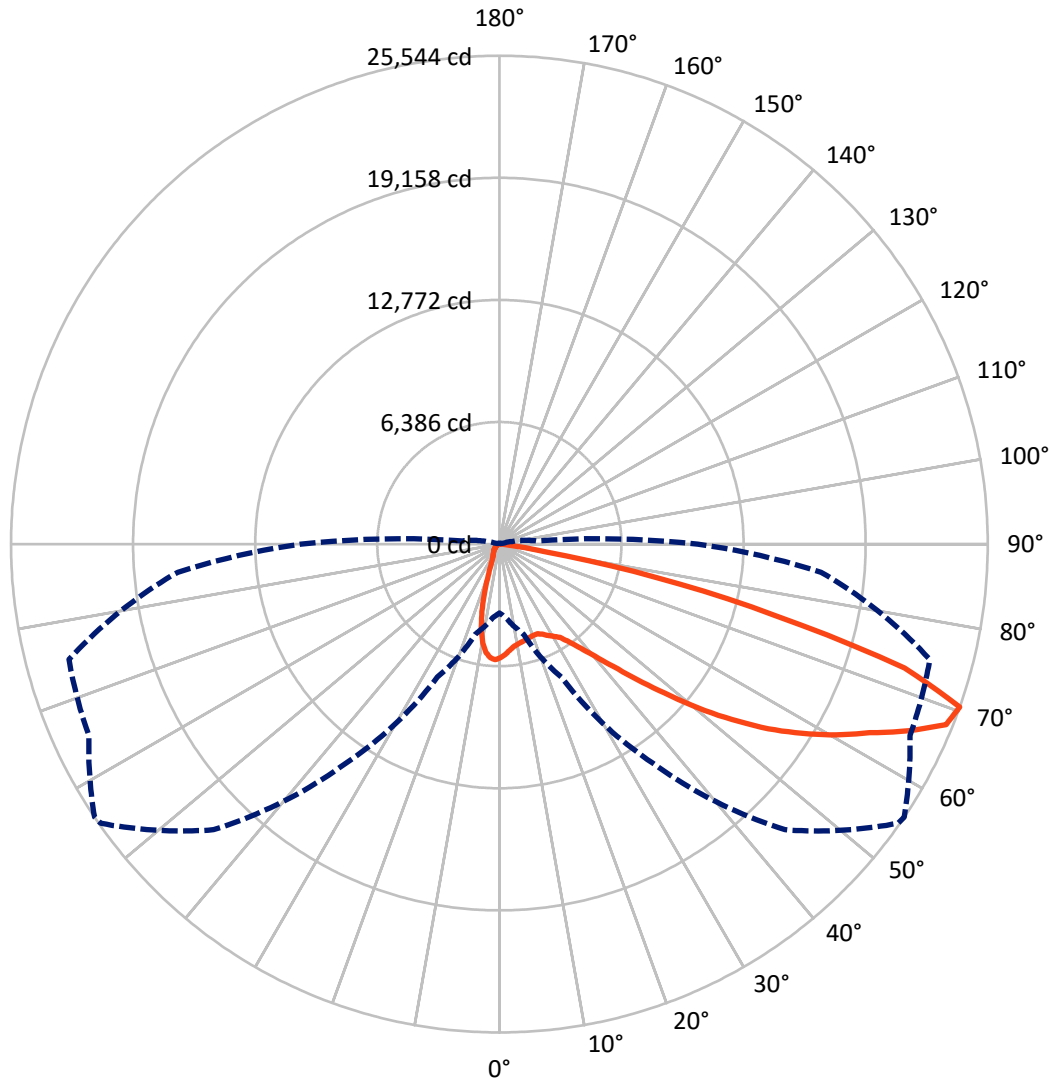
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2960.8	0.0	2960.8
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	30003.7	0.0	30003.7
	% Fixture	91.0	0.0	91.0
Total	Lumens	32964.5	0.0	32964.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.3	1.5
10°-20°	1147.8	3.5
20°-30°	1818.1	5.5
30°-40°	3135.3	9.5
40°-50°	5294.5	16.1
50°-60°	7779.3	23.6
60°-70°	9222.8	28.0
70°-80°	3933.0	11.9
80°-90°	123.5	0.4
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°	32964.5	100.0
0°-180°	32964.5	100.0

Coefficient of Utilization



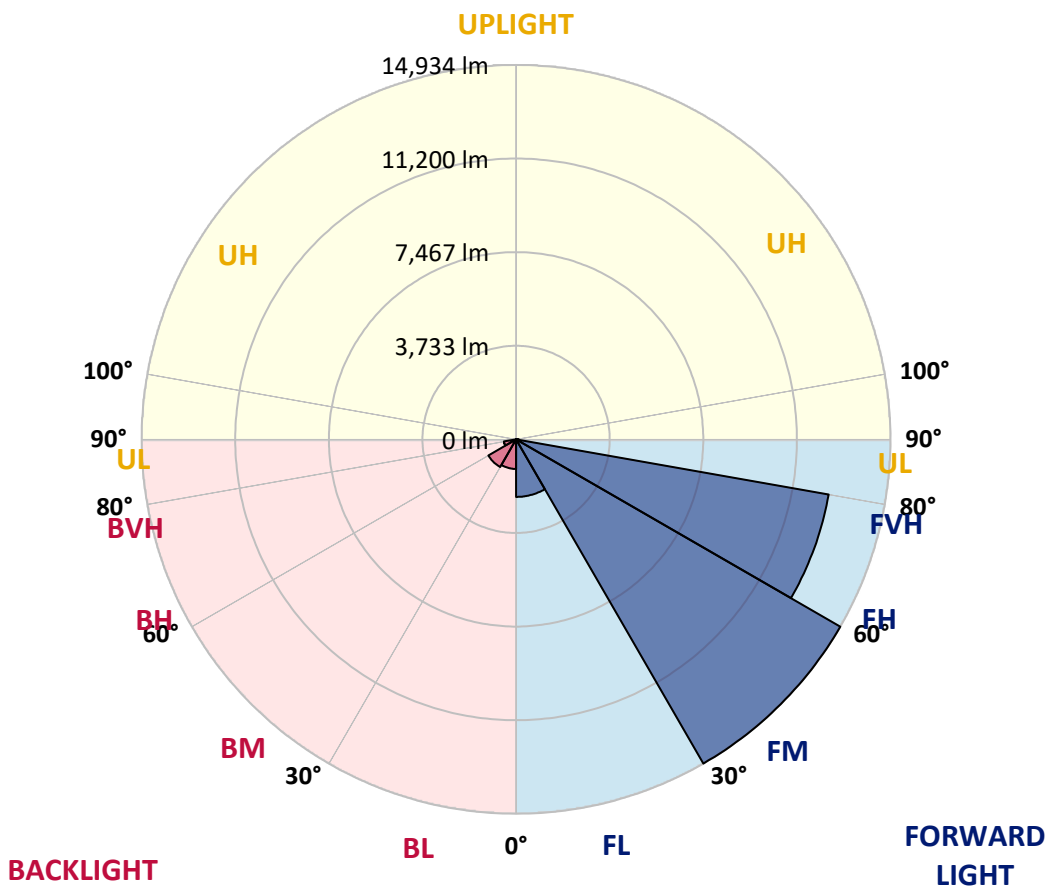
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2297.0	7.0			
FM (30°-60°)	14933.8	45.3			
FH (60°-80°)	12661.9	38.4			G5
FVH (80°-90°)	111.0	0.3			G2/225
BL (0°-30°)	1179.2	3.6	B3/2500		
BM (30°-60°)	1275.3	3.9	B2/2500		
BH (60°-80°)	493.8	1.5	B1/500		G1/500
BVH (80°-90°)	12.5	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5943.8	5943.8	5943.8	5943.8	5943.8	5943.8	5943.8	5943.8	5943.8	5943.8	5943.8
2.5°	5533.3	5524.2	5530.3	5575.5	5660.1	5699.3	5765.7	5777.8	5832.1	5901.6	5928.7
5°	5174.1	5143.9	5159.0	5222.4	5319.0	5427.6	5551.4	5584.6	5720.4	5874.4	5989.1
7.5°	4845.0	4811.8	4848.0	4947.7	5083.5	5201.2	5385.4	5406.5	5623.8	5895.5	6103.8
10°	4328.8	4337.9	4410.3	4585.4	4793.7	5038.2	5285.8	5315.9	5584.6	5965.0	6288.0
12.5°	3933.4	3912.2	3990.7	4190.0	4482.8	4839.0	5210.3	5249.5	5587.6	6070.6	6523.4
15°	3749.2	3743.2	3776.4	3921.3	4205.1	4624.7	5140.9	5192.2	5626.9	6167.2	6746.8
17.5°	3755.3	3746.2	3743.2	3827.7	4039.0	4464.7	5065.4	5131.8	5660.1	6272.9	6982.3
20°	4017.9	3975.6	3900.2	3860.9	3987.7	4362.0	5014.1	5089.5	5708.4	6384.6	7232.8
22.5°	4567.3	4582.4	4380.1	4168.8	4108.5	4374.1	5008.0	5095.6	5814.0	6559.6	7540.7
25°	5666.1	5642.0	5267.6	4793.7	4464.7	4513.0	5113.7	5219.3	6022.3	6810.2	7830.5
27.5°	7042.6	7063.8	6550.6	5795.9	5107.6	4799.7	5306.9	5412.5	6263.8	6967.2	8023.7
30°	8542.9	8521.8	7972.4	7136.2	6019.3	5276.7	5500.1	5593.7	6384.6	7051.7	8223.0
32.5°	9961.7	9913.4	9370.1	8494.6	7181.5	6028.4	5765.7	5820.1	6544.6	7235.8	8491.6
35°	11172.2	11169.2	10695.3	9762.5	8376.9	6970.2	6221.6	6266.8	6843.4	7528.7	8887.1
37.5°	12422.0	12379.7	11848.4	10997.1	9605.5	8002.6	6918.9	6900.8	7314.3	7960.3	9373.1
40°	13448.3	13421.2	13013.6	12195.6	10882.4	9143.7	7764.1	7709.8	7872.8	8558.0	10049.3
42.5°	14209.0	14212.1	14085.3	13587.2	12234.8	10462.8	8826.7	8742.2	8739.2	9460.6	10942.8
45°	14785.6	14824.9	15015.0	14939.6	13831.7	11999.4	10188.1	10100.6	9952.7	10631.9	11966.1
47.5°	15054.3	15105.6	15679.2	15981.0	15229.4	13523.8	11809.2	11625.0	11335.2	12189.5	13110.2
50°	15027.1	15117.7	15917.6	16835.3	16497.2	15069.4	13575.1	13487.6	13013.6	13837.7	14242.3
52.5°	14411.3	14604.5	15932.7	17354.5	17472.3	16494.2	15401.4	15238.4	15009.0	15558.4	15304.8
55°	12738.9	12974.4	15295.8	17520.6	18233.0	17737.9	17188.5	17055.7	16675.3	17182.5	16231.6
57.5°	11830.3	12032.6	13955.5	17439.1	18879.0	18888.0	18779.4	18670.7	18356.7	18788.4	17318.3
60°	11283.9	11486.2	13240.0	17140.2	19464.6	20101.6	20273.6	20261.6	19808.7	20614.7	18592.2
62.5°	10484.0	10761.7	12494.4	16364.4	19881.2	21297.0	21816.2	21734.7	21230.6	22516.5	19854.0
65°	8869.0	9110.5	10967.0	15084.5	19636.7	22287.1	23488.5	23530.8	22948.2	24306.6	20850.2
67.5°	6218.5	6396.6	8241.1	12397.8	17976.4	22613.1	25200.2	25197.1	24204.0	25224.3	20409.5
70°	3604.3	3848.8	4869.2	7664.5	13985.7	21130.9	25456.7	25544.3	23693.8	23307.4	16889.7
72.5°	1394.6	1596.9	2759.1	4072.2	7293.2	16186.3	21897.7	22154.3	19829.9	17979.4	11754.8
75°	416.6	464.9	1298.0	2167.4	2928.1	7818.4	14824.9	14897.3	13602.3	11214.5	6025.3
77.5°	310.9	344.1	567.5	1095.8	1026.4	2369.7	7670.5	8376.9	7220.7	4005.8	1660.3
80°	211.3	250.6	404.5	534.3	380.4	630.9	2155.4	2366.7	2203.7	899.6	416.6
82.5°	93.6	120.7	286.8	268.7	138.9	181.1	664.1	706.4	455.8	271.7	144.9
85°	9.1	12.1	108.7	117.7	51.3	42.3	138.9	138.9	99.6	93.6	60.4
87.5°	0.0	0.0	3.0	6.0	6.0	9.1	12.1	15.1	18.1	24.1	30.2
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°	5943.8	5943.8	5943.8	5943.8	5943.8	5943.8	5943.8	5943.8	5943.8	5943.8	5943.8
2.5°	5998.2	5961.9	6007.2	6043.4	6052.5	5986.1	5946.8	5889.5	5877.4	5880.4	5865.3
5°	6079.7	6061.6	6094.8	6055.5	5952.9	5759.7	5593.7	5409.5	5309.9	5252.5	5246.5
7.5°	6230.6	6221.6	6185.3	6007.2	5687.2	5258.6	4845.0	4440.5	4190.0	4099.4	4084.3
10°	6454.0	6435.9	6288.0	5865.3	5183.1	4359.0	3664.7	3085.1	2731.9	2629.3	2502.5
12.5°	6710.6	6674.4	6351.4	5560.5	4422.4	3281.3	2415.0	1765.9	1461.1	1370.5	1370.5
15°	6958.1	6879.6	6315.1	5056.3	3486.6	2134.2	1349.4	1020.3	926.7	902.6	902.6
17.5°	7211.7	7060.8	6173.3	4368.1	2408.9	1261.8	899.6	836.2	824.1	827.1	830.1
20°	7450.2	7214.7	5922.7	3540.9	1536.5	881.5	806.0	790.9	784.9	790.9	787.9
22.5°	7709.8	7356.6	5542.3	2638.3	999.2	793.9	766.8	754.7	748.6	757.7	757.7
25°	7966.4	7459.2	5038.2	1775.0	793.9	739.6	724.5	712.4	706.4	709.4	709.4
27.5°	8099.2	7420.0	4377.1	1132.0	712.4	685.2	670.2	655.1	646.0	643.0	646.0
30°	8189.7	7299.2	3568.1	806.0	646.0	612.8	597.7	585.6	561.5	546.4	552.4
32.5°	8331.6	7178.5	2689.7	676.2	591.7	540.3	516.2	486.0	452.8	437.7	437.7
35°	8500.7	7012.5	1886.7	609.8	534.3	480.0	434.7	383.4	344.1	332.1	332.1
37.5°	8724.1	6855.5	1255.8	564.5	486.0	428.7	365.3	304.9	262.6	256.6	253.6
40°	9059.1	6722.7	884.5	531.3	443.7	374.3	298.9	235.5	205.3	196.2	196.2
42.5°	9493.8	6586.8	700.3	498.1	407.5	323.0	238.5	187.2	163.0	157.0	154.0
45°	10031.2	6426.8	609.8	467.9	371.3	268.7	190.2	157.0	138.9	132.8	132.8
47.5°	10613.8	6209.5	567.5	428.7	329.0	217.3	160.0	135.8	126.8	123.8	120.7
50°	11187.3	5916.7	531.3	392.4	280.7	178.1	138.9	123.8	117.7	114.7	114.7
52.5°	11688.4	5575.5	486.0	350.2	229.4	154.0	123.8	114.7	108.7	102.6	99.6
55°	12117.1	5204.2	428.7	301.9	187.2	135.8	114.7	105.7	99.6	93.6	90.6
57.5°	12669.5	4992.9	344.1	244.5	154.0	120.7	105.7	96.6	90.6	81.5	81.5
60°	13282.3	4839.0	256.6	193.2	132.8	111.7	96.6	87.5	81.5	72.4	72.4
62.5°	13774.4	4609.6	202.3	157.0	114.7	99.6	87.5	78.5	72.4	63.4	63.4
65°	13961.5	4135.6	166.0	123.8	93.6	87.5	78.5	72.4	63.4	54.3	54.3
67.5°	13116.3	3187.8	138.9	99.6	78.5	75.5	69.4	66.4	54.3	48.3	45.3
70°	10387.4	1944.0	114.7	81.5	66.4	63.4	63.4	57.4	48.3	45.3	42.3
72.5°	7118.1	1002.2	93.6	66.4	57.4	57.4	54.3	51.3	45.3	42.3	42.3
75°	3697.9	335.1	72.4	51.3	45.3	48.3	48.3	45.3	42.3	42.3	39.2
77.5°	1059.6	150.9	54.3	39.2	36.2	36.2	39.2	39.2	39.2	36.2	36.2
80°	274.7	87.5	39.2	30.2	30.2	30.2	30.2	33.2	36.2	33.2	33.2
82.5°	111.7	48.3	27.2	24.1	24.1	24.1	24.1	27.2	30.2	30.2	30.2
85°	69.4	24.1	21.1	21.1	21.1	18.1	18.1	21.1	21.1	24.1	24.1
87.5°	42.3	18.1	18.1	18.1	18.1	15.1	15.1	15.1	15.1	15.1	15.1
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)