

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: P641295

Luminaire Tested: GWS-SA5F-750-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641295
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-SA5F-750-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31980.9 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

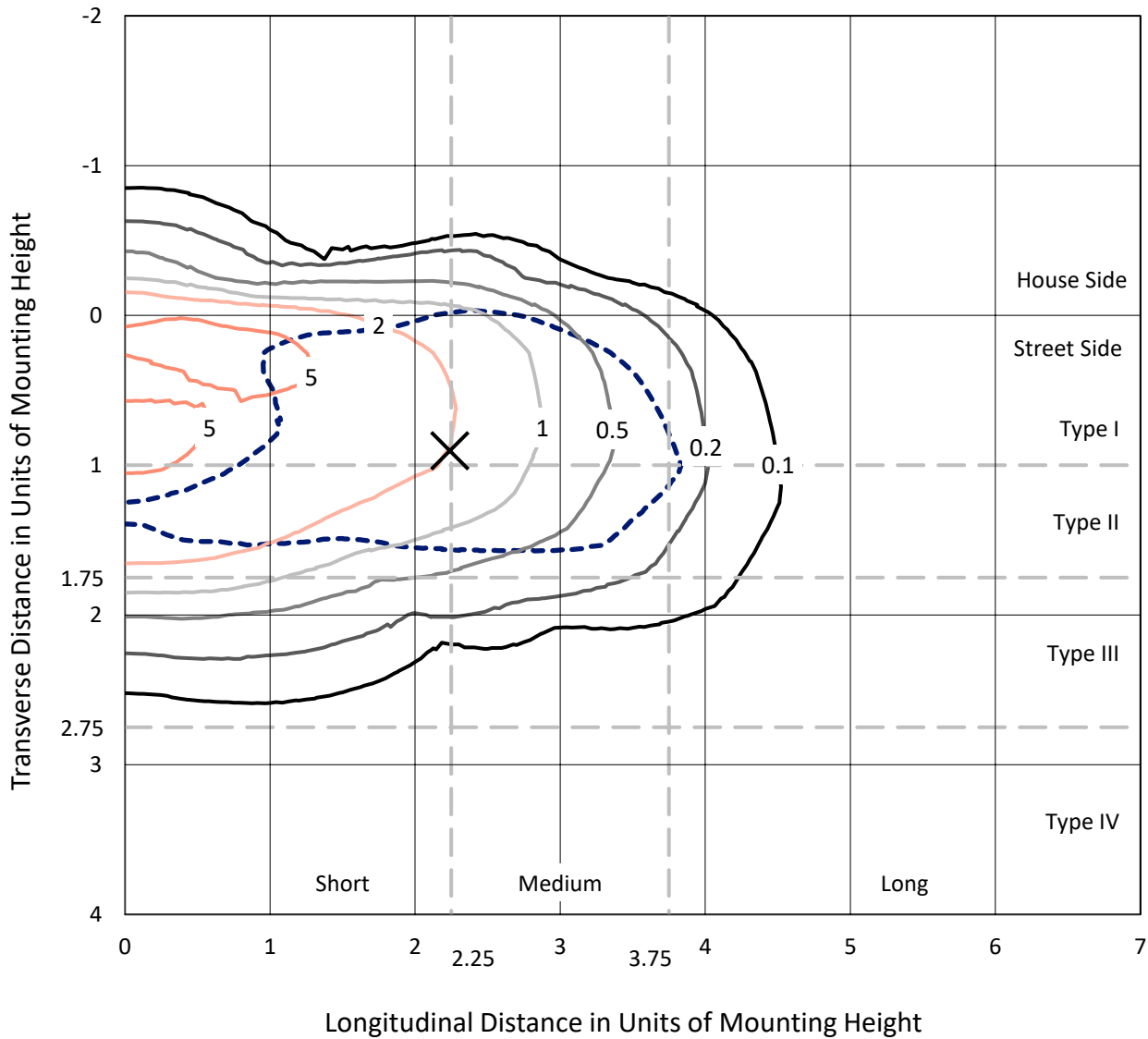
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

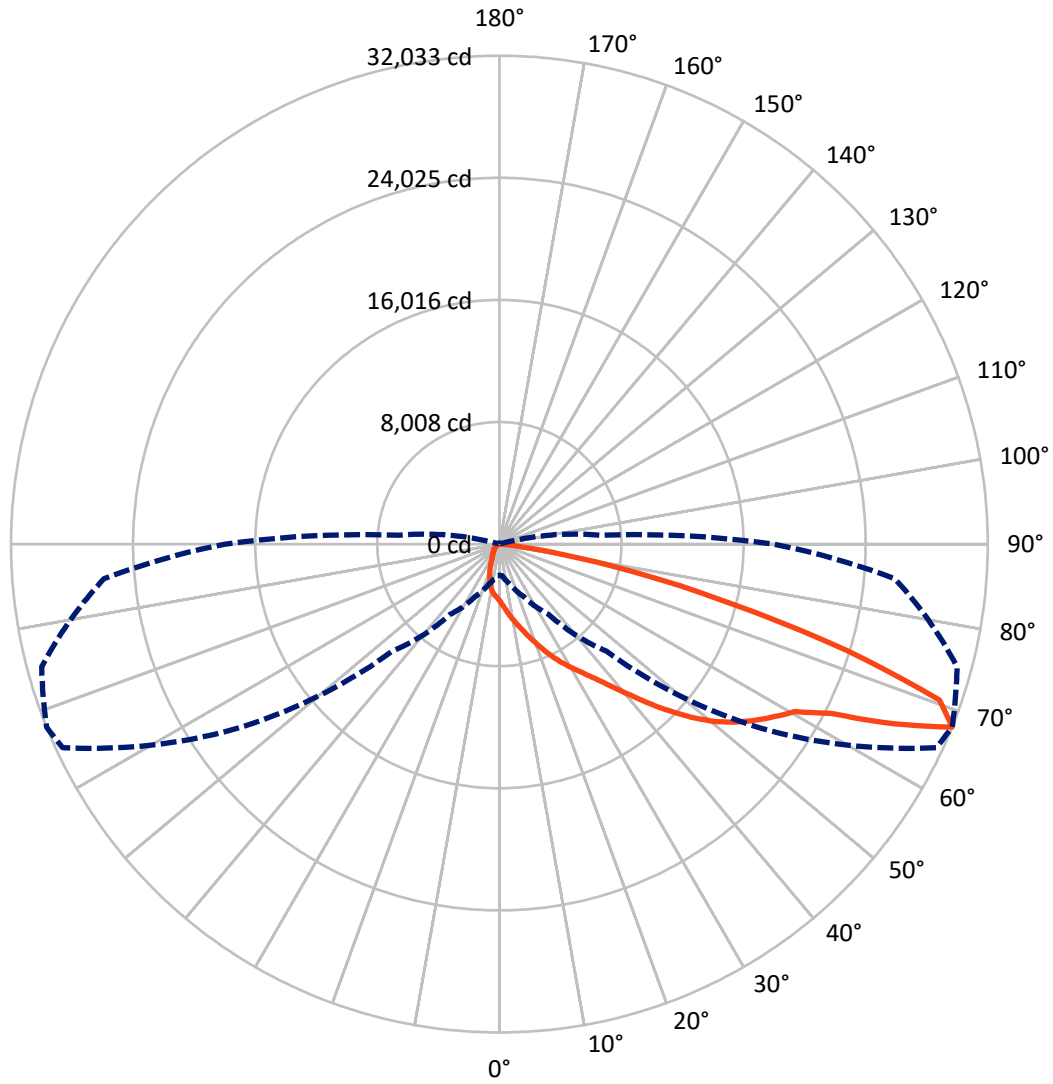
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2309.4	0.0	2309.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	29671.5	0.0	29671.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	31980.9	0.0	31980.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.0	1.1
10°-20°	1042.4	3.3
20°-30°	1791.3	5.6
30°-40°	3114.5	9.7
40°-50°	5434.4	17.0
50°-60°	8196.5	25.6
60°-70°	8219.0	25.7
70°-80°	3626.2	11.3
80°-90°	193.7	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°	31980.9	100.0
0°-180°	31980.9	100.0

Coefficient of Utilization



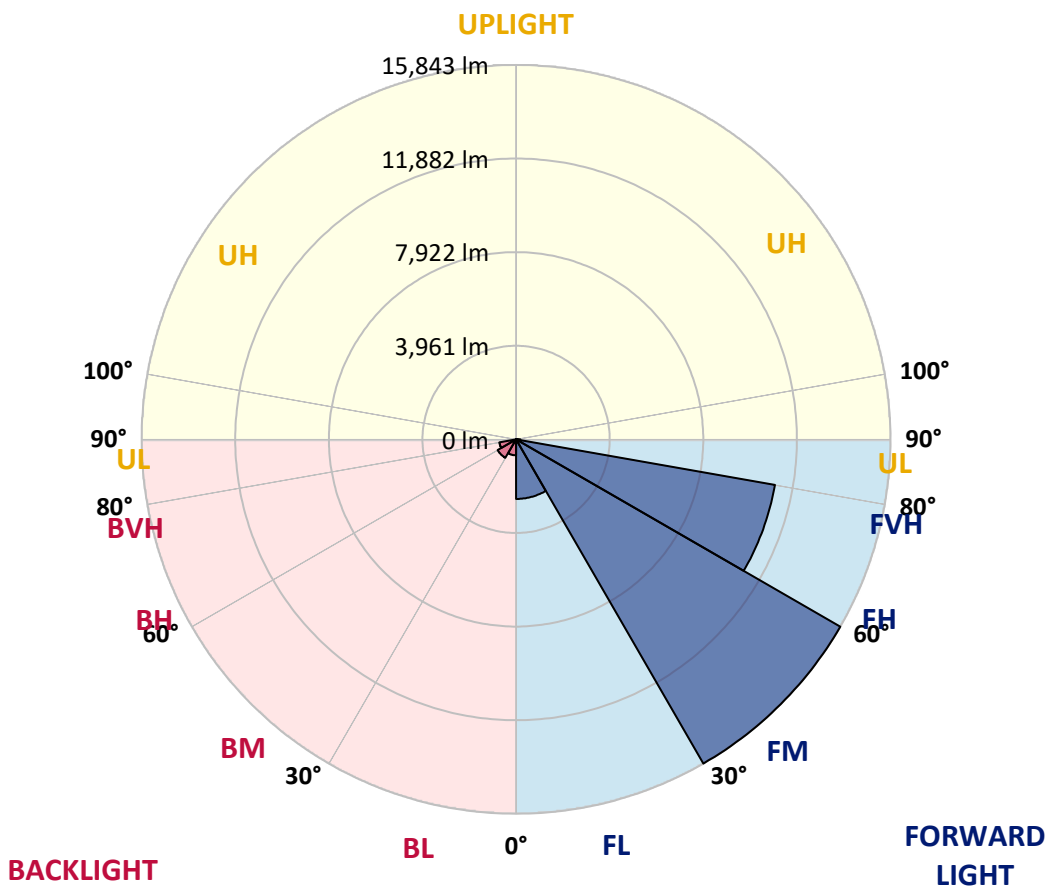
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2521.1	7.9			
FM (30°-60°)	15843.3	49.5			
FH (60°-80°)	11124.4	34.8			G4/12000
FVH (80°-90°)	182.8	0.6			G2/225
BL (0°-30°)	675.6	2.1	B2/1000		
BM (30°-60°)	902.1	2.8	B1/1000		
BH (60°-80°)	720.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	11.0	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-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8
2.5°	4333.9	4361.4	4333.9	4340.0	4260.4	4223.7	4144.1	4034.0	4006.4	3936.0	3828.9
5°	4863.4	4887.9	4860.3	4854.2	4762.4	4695.1	4563.4	4373.7	4318.6	4180.9	3969.7
7.5°	5151.1	5166.4	5175.6	5190.9	5157.2	5102.1	4982.8	4747.1	4688.9	4465.5	4168.6
10°	5181.7	5193.9	5239.9	5331.7	5399.0	5432.7	5365.3	5148.0	5056.2	4838.9	4413.5
12.5°	5096.0	5114.4	5187.8	5340.9	5527.6	5699.0	5741.8	5552.0	5469.4	5190.9	4701.2
15°	4982.8	4998.1	5099.1	5307.2	5588.8	5904.0	6081.5	5998.9	5907.1	5616.3	5019.5
17.5°	4808.3	4829.7	4970.5	5252.1	5616.3	6066.2	6448.8	6476.4	6412.1	6096.8	5371.5
20°	4710.4	4725.7	4851.1	5141.9	5597.9	6185.6	6791.6	7051.8	6981.4	6650.8	5775.5
22.5°	4793.0	4805.2	4887.9	5114.4	5536.7	6252.9	7109.9	7627.2	7587.4	7244.6	6200.9
25°	5227.6	5267.4	5218.4	5258.2	5564.3	6289.7	7367.0	8202.6	8211.8	7865.9	6641.6
27.5°	6109.1	6057.0	5940.7	5741.8	5778.5	6387.6	7587.4	8744.3	8823.9	8471.9	7033.4
30°	7005.9	6975.2	6904.9	6595.7	6338.6	6604.9	7774.1	9298.3	9423.8	9068.7	7382.3
32.5°	8012.8	8043.4	7917.9	7547.6	7109.9	7045.6	7966.9	9824.7	10060.4	9745.1	7792.4
35°	9215.6	9224.8	8976.9	8566.8	8071.0	7774.1	8312.8	10406.2	10840.9	10608.3	8340.3
37.5°	10387.9	10443.0	10308.3	9662.5	9221.8	8680.0	8885.1	11153.0	11765.2	11673.4	9028.9
40°	11425.4	11511.1	11468.3	10843.9	10265.5	9809.4	9772.7	12028.4	12882.3	12986.4	9938.0
42.5°	12251.8	12306.9	12340.6	11896.8	11385.7	11128.6	10868.4	13044.5	14201.5	14626.9	11052.0
45°	13124.1	13142.5	13212.9	12912.9	12466.1	12487.5	12163.1	14278.0	15591.0	16444.9	12331.4
47.5°	14235.1	14296.3	14262.7	13947.4	13543.4	13785.2	13500.6	15548.2	16962.2	18385.4	13641.4
50°	15587.9	15652.2	15621.6	15254.3	14804.4	14905.4	14727.9	16781.6	18284.4	20215.7	14731.0
52.5°	16285.8	16337.8	16717.3	16882.6	16646.9	16004.2	15774.6	18137.5	19401.5	21721.5	15731.8
55°	15949.1	15985.8	16812.2	17510.0	18373.1	17730.4	16827.5	19184.2	20387.1	22896.8	16475.5
57.5°	14553.4	14752.4	15875.6	17057.1	18872.0	19435.2	18535.4	20322.8	21335.9	23714.0	17207.0
60°	11691.7	11682.5	13292.5	15413.5	17898.7	19903.5	20947.2	21862.3	22287.7	24341.4	18186.4
62.5°	6461.1	6519.2	8661.7	11456.1	15193.1	18691.5	22756.0	24522.0	24457.7	25437.2	19719.8
65°	3216.8	3333.1	4496.1	6562.1	10109.4	15447.2	23068.2	28580.5	28396.8	28017.3	22887.6
67.5°	2041.5	2087.4	2730.1	3813.6	5619.4	9928.8	21124.7	31607.4	32032.9	31078.0	26030.9
70°	1322.2	1398.7	1897.6	2607.7	3391.2	5117.4	15474.7	29645.6	30621.9	30741.3	24072.1
72.5°	719.3	774.3	1212.0	1860.9	2448.5	2558.7	8692.3	22247.9	23818.1	26076.8	18832.2
75°	410.1	449.9	664.2	1264.1	1796.6	1557.9	3853.4	14893.2	15894.0	18636.4	13494.5
77.5°	247.9	281.6	373.4	615.2	1126.3	1040.6	1456.9	9065.7	9702.3	11119.4	7082.4
80°	113.2	134.7	235.7	339.7	615.2	492.8	557.0	4226.8	4364.5	4563.4	2344.5
82.5°	52.0	61.2	107.1	202.0	348.9	284.6	214.2	976.4	1374.2	1300.8	596.8
85°	6.1	6.1	39.8	82.6	97.9	73.5	88.8	220.4	278.5	391.8	171.4
87.5°	0.0	0.0	3.1	3.1	6.1	9.2	18.4	27.5	39.8	64.3	42.8
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°	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8	3721.8
2.5°	3779.9	3694.2	3617.7	3504.5	3427.9	3342.2	3284.1	3213.7	3186.1	3164.7	3134.1
5°	3865.6	3727.9	3541.2	3333.1	3161.7	2999.4	2849.5	2751.5	2665.8	2653.6	2610.7
7.5°	4006.4	3801.3	3486.1	3146.4	2855.6	2586.3	2375.1	2203.7	2118.0	2090.4	2041.5
10°	4193.1	3911.5	3403.5	2883.1	2463.8	2142.5	1903.7	1710.9	1576.2	1527.3	1490.5
12.5°	4401.2	4012.5	3271.8	2558.7	2081.2	1714.0	1411.0	1205.9	1120.2	1089.6	1062.0
15°	4640.0	4107.4	3063.7	2234.3	1707.8	1261.0	1046.7	958.0	921.3	912.1	902.9
17.5°	4869.5	4168.6	2815.8	1897.6	1313.0	979.4	878.4	844.7	835.6	826.4	820.3
20°	5129.7	4211.5	2525.0	1579.3	1019.2	829.4	780.5	756.0	737.6	719.3	716.2
22.5°	5395.9	4211.5	2209.8	1267.1	853.9	743.7	688.6	642.7	609.1	590.7	584.6
25°	5650.0	4153.3	1897.6	1013.1	752.9	661.1	590.7	538.7	492.8	471.3	465.2
27.5°	5830.6	4003.3	1625.2	857.0	682.5	587.6	501.9	443.8	407.1	385.6	382.6
30°	5943.8	3779.9	1374.2	765.2	621.3	511.1	425.4	376.5	348.9	333.6	327.5
32.5°	6029.5	3504.5	1150.8	700.9	563.2	443.8	370.3	330.6	306.1	293.8	290.8
35°	6200.9	3244.3	985.5	642.7	501.9	388.7	324.4	293.8	275.5	260.2	257.1
37.5°	6439.6	3027.0	853.9	590.7	443.8	345.9	293.8	266.3	251.0	235.7	232.6
40°	6791.6	2889.3	756.0	538.7	391.8	312.2	269.3	244.9	223.4	208.1	205.1
42.5°	7333.3	2825.0	691.7	486.6	345.9	281.6	247.9	217.3	195.9	180.6	177.5
45°	7979.1	2858.7	636.6	434.6	315.2	260.2	220.4	189.8	168.3	153.0	150.0
47.5°	8670.9	2978.0	590.7	385.6	284.6	238.7	195.9	162.2	143.9	128.5	125.5
50°	9393.2	3173.9	550.9	339.7	260.2	214.2	168.3	140.8	122.4	110.2	107.1
52.5°	10020.6	3440.2	511.1	306.1	238.7	189.8	146.9	122.4	104.1	91.8	88.8
55°	10620.5	3691.2	480.5	275.5	214.2	165.3	128.5	104.1	88.8	76.5	73.5
57.5°	11272.4	3957.4	443.8	247.9	192.8	146.9	113.2	88.8	76.5	64.3	61.2
60°	12221.2	4352.3	388.7	226.5	168.3	128.5	97.9	79.6	67.3	52.0	49.0
62.5°	13589.3	5071.5	327.5	195.9	143.9	110.2	82.6	67.3	55.1	42.8	36.7
65°	16148.0	6295.8	269.3	162.2	116.3	91.8	70.4	55.1	42.8	30.6	27.5
67.5°	17990.6	6614.1	217.3	131.6	94.9	70.4	58.2	42.8	30.6	21.4	18.4
70°	15728.7	4750.1	168.3	107.1	79.6	55.1	45.9	33.7	21.4	15.3	12.2
72.5°	11850.9	3103.5	125.5	82.6	61.2	45.9	33.7	27.5	18.4	12.2	9.2
75°	8352.5	1793.5	91.8	61.2	42.8	33.7	27.5	21.4	15.3	9.2	9.2
77.5°	4281.9	740.7	64.3	42.8	30.6	21.4	18.4	12.2	12.2	9.2	6.1
80°	1300.8	244.9	36.7	27.5	21.4	15.3	9.2	9.2	9.2	6.1	3.1
82.5°	296.9	79.6	21.4	21.4	15.3	12.2	9.2	3.1	3.1	0.0	0.0
85°	76.5	24.5	18.4	15.3	15.3	12.2	6.1	3.1	0.0	0.0	0.0
87.5°	27.5	15.3	15.3	15.3	12.2	9.2	6.1	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)