

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: P641358

Luminaire Tested: GWS-SA5F-760-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-760-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30914.7 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

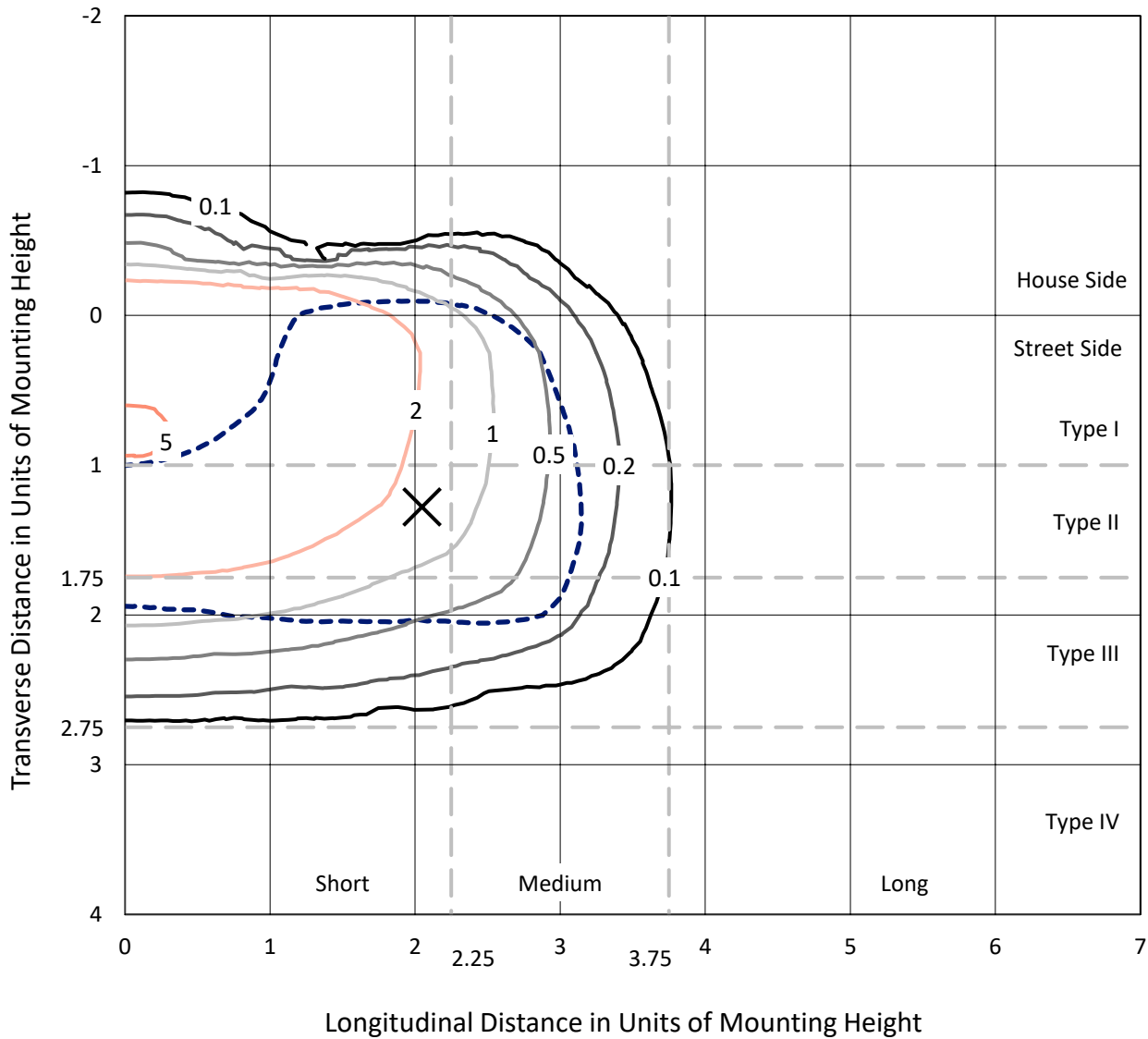
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

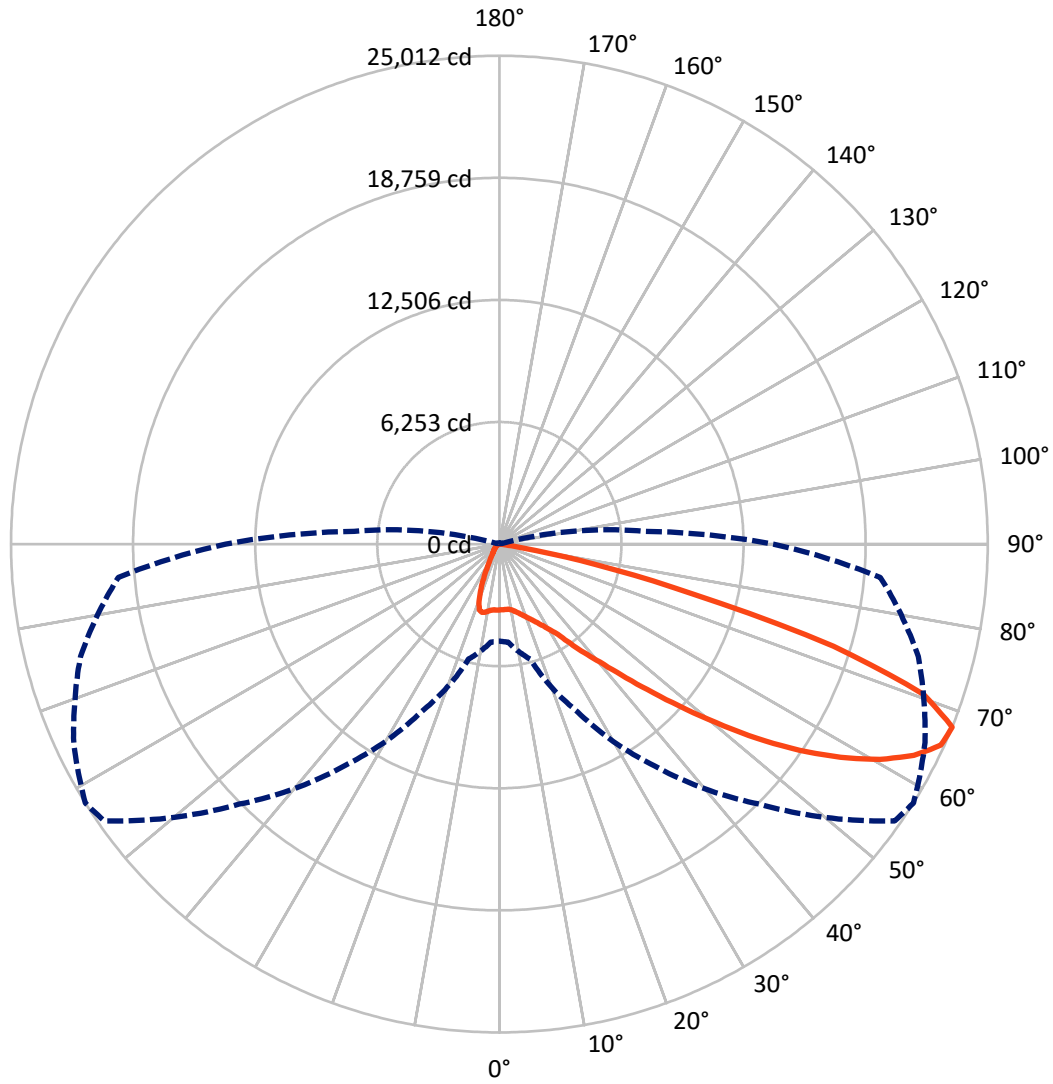
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 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	3372.7	0.0	3372.7
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	27542.0	0.0	27542.0
	% Fixture	89.1	0.0	89.1
Total	Lumens	30914.7	0.0	30914.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.5	1.0
10°-20°	888.5	2.9
20°-30°	1550.9	5.0
30°-40°	2769.8	9.0
40°-50°	5062.6	16.4
50°-60°	8419.7	27.2
60°-70°	9145.2	29.6
70°-80°	2685.1	8.7
80°-90°	76.5	0.2
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°	30914.7	100.0
0°-180°	30914.7	100.0

Coefficient of Utilization



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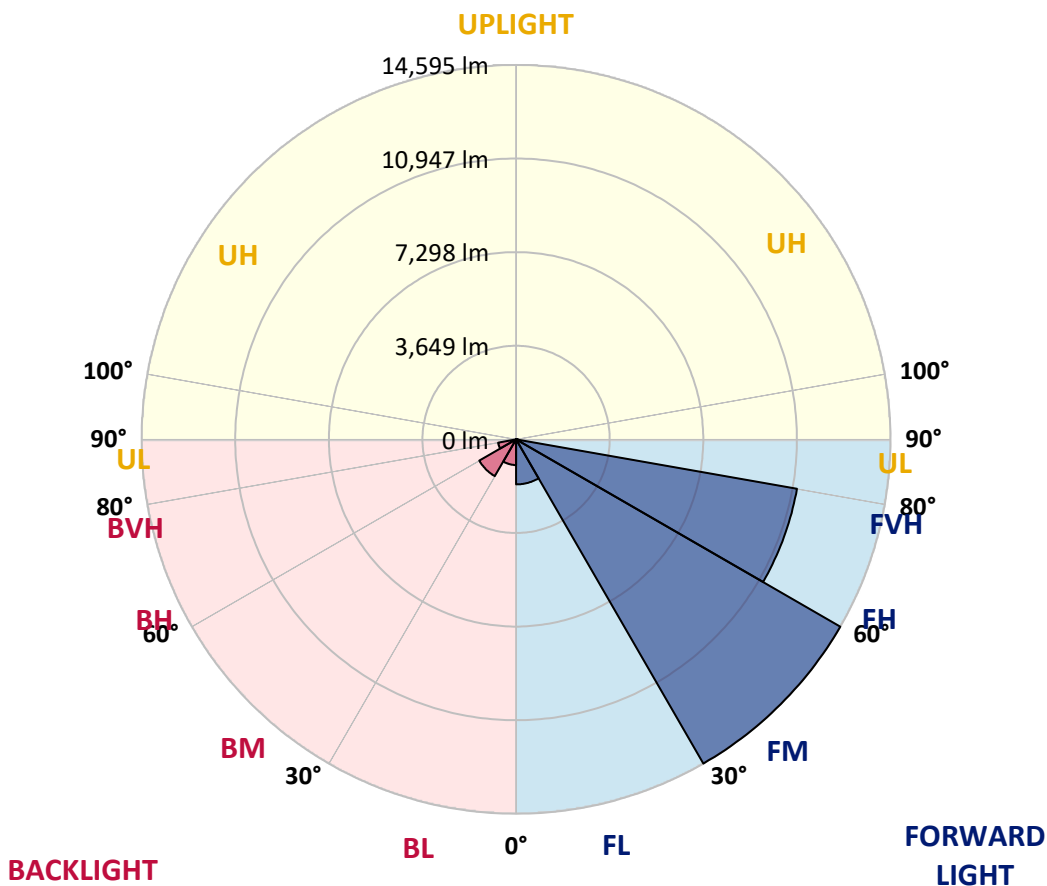
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1755.5	5.7			
FM (30°-60°)	14595.5	47.2			
FH (60°-80°)	11118.3	36.0			G4/12000
FVH (80°-90°)	72.7	0.2			G1/100
BL (0°-30°)	1000.4	3.2	B3/2500		
BM (30°-60°)	1656.6	5.4	B2/2500		
BH (60°-80°)	712.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3368.8	3368.8	3368.8	3368.8	3368.8	3368.8	3368.8	3368.8	3368.8	3368.8	3368.8
2.5°	3305.4	3299.4	3299.4	3323.5	3326.5	3338.6	3365.8	3368.8	3383.9	3377.8	3356.7
5°	3133.3	3136.3	3154.5	3196.7	3232.9	3278.2	3344.6	3359.7	3392.9	3411.0	3399.0
7.5°	2973.3	2976.4	3003.5	3069.9	3139.4	3229.9	3338.6	3368.8	3435.2	3483.5	3486.5
10°	2913.0	2909.9	2937.1	3012.6	3103.1	3229.9	3386.9	3426.1	3525.7	3610.3	3625.4
12.5°	2931.1	2928.1	2955.2	3024.7	3124.3	3284.3	3471.4	3525.7	3652.5	3782.3	3809.5
15°	3003.5	3000.5	3018.6	3076.0	3184.6	3350.7	3580.1	3661.6	3821.6	3978.5	4020.8
17.5°	3220.9	3205.8	3187.7	3193.7	3257.1	3429.2	3718.9	3818.6	4017.8	4204.9	4241.2
20°	3607.2	3568.0	3519.7	3456.3	3426.1	3543.9	3878.9	3993.6	4235.1	4449.4	4455.5
22.5°	4189.8	4174.7	4063.1	3878.9	3749.1	3752.1	4066.1	4198.9	4494.7	4730.2	4697.0
25°	5001.9	4992.8	4820.7	4518.9	4180.8	4066.1	4304.6	4440.4	4802.6	5053.2	4947.5
27.5°	6010.1	5946.7	5744.4	5336.9	4832.8	4473.6	4606.4	4727.2	5128.6	5364.1	5164.9
30°	6888.5	6891.5	6701.3	6275.7	5708.2	5086.4	4974.7	5080.3	5427.5	5675.0	5433.5
32.5°	7733.7	7760.9	7552.6	7169.2	6547.4	5886.3	5502.9	5521.1	5810.8	6079.5	5786.7
35°	8518.5	8539.7	8394.8	8068.8	7489.2	6722.5	6239.5	6230.4	6387.4	6662.1	6278.7
37.5°	9397.0	9418.1	9276.2	8983.4	8440.1	7679.4	7075.6	7063.6	7127.0	7350.3	6912.6
40°	10332.7	10372.0	10215.0	9967.5	9448.3	8805.3	8047.6	7939.0	7875.6	8138.2	7733.7
42.5°	11280.6	11341.0	11286.6	11039.1	10595.4	10064.1	9309.4	9140.4	9004.5	9333.6	8904.9
45°	12457.8	12530.3	12506.1	12316.0	11971.8	11540.2	10827.8	10631.6	10568.2	10873.1	10362.9
47.5°	13589.8	13668.3	13755.8	13713.6	13469.1	13269.8	12479.0	12367.3	12349.2	12675.2	11884.3
50°	14432.0	14504.5	14839.5	15081.0	15247.0	15204.8	14519.6	14353.5	14326.4	14534.6	13490.2
52.5°	15035.7	15105.2	15567.0	16321.7	16931.4	17263.5	16572.2	16536.0	16388.1	16315.6	14993.5
55°	15503.6	15600.2	16086.2	17227.3	18455.8	19192.4	18760.7	18630.9	18250.6	17834.0	16388.1
57.5°	15597.2	15636.4	16321.7	17861.2	19639.1	20831.5	20831.5	20605.1	19871.6	19295.0	18000.0
60°	14758.0	14878.8	15805.5	17809.9	20146.3	21903.1	22549.1	22392.1	21402.0	20692.6	19551.6
62.5°	12895.5	13031.4	14160.3	16581.3	19639.1	22123.5	23850.1	23826.0	22709.1	21848.8	20837.5
65°	9889.0	9988.6	10972.7	13870.6	17495.9	21275.2	24779.8	24846.3	23741.4	22612.5	21281.3
67.5°	4968.6	5038.1	6100.6	9475.4	13867.5	18833.2	24716.5	25012.3	24055.4	22208.0	19587.8
70°	1735.7	1805.1	2306.2	4066.1	8440.1	14380.7	22579.3	23062.2	22211.0	18956.9	14450.1
72.5°	594.7	627.9	956.9	1509.3	3284.3	8524.6	17169.9	17897.4	16373.0	12726.5	8304.2
75°	338.1	359.2	513.2	818.0	1376.5	2804.3	9741.1	10187.8	9544.9	6936.8	3417.1
77.5°	229.4	247.5	320.0	464.9	760.7	902.6	3972.5	5001.9	4361.9	2264.0	872.4
80°	135.8	147.9	196.2	274.7	389.4	350.2	851.3	1132.0	1458.0	676.2	262.6
82.5°	63.4	72.4	126.8	181.1	196.2	147.9	250.5	304.9	410.5	332.0	108.7
85°	0.0	0.0	42.3	75.5	72.4	42.3	69.4	75.5	111.7	166.0	42.3
87.5°	0.0	0.0	0.0	0.0	0.0	3.0	6.0	9.1	18.1	33.2	18.1
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°	3368.8	3368.8	3368.8	3368.8	3368.8	3368.8	3368.8	3368.8	3368.8	3368.8	3368.8
2.5°	3380.9	3359.7	3383.9	3371.8	3383.9	3380.9	3356.7	3341.6	3341.6	3314.4	3305.4
5°	3423.1	3402.0	3408.0	3380.9	3374.8	3359.7	3329.5	3317.5	3317.5	3290.3	3281.2
7.5°	3516.7	3483.5	3477.4	3423.1	3399.0	3356.7	3302.4	3281.2	3278.2	3251.1	3242.0
10°	3664.6	3625.4	3598.2	3528.8	3459.3	3374.8	3260.1	3163.5	3109.2	3036.7	3030.7
12.5°	3845.7	3797.4	3755.2	3649.5	3534.8	3344.6	3006.5	2653.4	2436.0	2264.0	2276.0
15°	4048.0	4002.7	3936.3	3776.3	3540.8	3045.8	2339.4	1796.1	1530.4	1388.6	1382.5
17.5°	4268.3	4201.9	4093.2	3875.9	3350.7	2327.4	1521.4	1074.6	935.8	887.5	875.4
20°	4473.6	4392.1	4256.3	3897.0	2801.3	1575.7	950.9	833.1	809.0	793.9	793.9
22.5°	4690.9	4588.3	4386.1	3734.0	2082.8	1008.2	809.0	781.8	763.7	742.6	739.6
25°	4911.3	4778.5	4503.8	3308.4	1364.4	793.9	757.7	727.5	694.3	661.1	652.0
27.5°	5098.4	4926.4	4594.3	2674.5	875.4	715.4	691.3	639.9	594.7	558.4	552.4
30°	5321.8	5101.5	4633.6	1956.1	688.2	630.9	594.7	540.3	486.0	449.8	437.7
32.5°	5620.7	5379.2	4573.2	1273.9	609.8	555.4	498.1	434.7	380.3	341.1	335.1
35°	6085.5	5798.8	4295.5	812.0	552.4	480.0	410.5	344.1	298.8	268.7	262.6
37.5°	6653.0	6387.4	3839.7	609.8	495.1	416.6	335.1	271.7	238.5	217.3	211.3
40°	7495.2	7123.9	3275.2	534.3	437.7	353.2	274.7	223.4	199.2	181.1	175.1
42.5°	8588.0	7993.3	2626.2	486.0	383.4	295.8	223.4	184.1	163.0	150.9	147.9
45°	9864.8	8841.5	1941.0	437.7	332.0	244.5	184.1	150.9	135.8	126.8	123.8
47.5°	11171.9	9584.1	1340.3	386.4	283.8	202.2	153.9	129.8	117.7	105.7	102.6
50°	12566.5	10212.0	914.6	335.1	241.5	166.0	132.8	117.7	102.6	93.6	90.6
52.5°	13589.8	10444.4	636.9	289.8	205.3	141.9	117.7	105.7	93.6	81.5	78.5
55°	14534.6	10438.4	483.0	244.5	175.1	123.8	105.7	93.6	81.5	72.4	69.4
57.5°	15476.5	10356.9	380.3	208.3	150.9	111.7	93.6	81.5	75.5	63.4	60.4
60°	16086.2	10049.0	295.8	175.1	129.8	96.6	81.5	72.4	63.4	54.3	51.3
62.5°	16409.2	9620.3	226.4	138.9	105.7	84.5	72.4	63.4	54.3	45.3	42.3
65°	15971.5	8859.6	178.1	108.7	81.5	72.4	60.4	51.3	42.3	33.2	30.2
67.5°	14030.5	7471.1	138.9	87.5	63.4	54.3	51.3	42.3	30.2	24.1	21.1
70°	9916.2	5116.6	108.7	66.4	48.3	42.3	39.2	33.2	24.1	18.1	15.1
72.5°	5442.6	2580.9	78.5	48.3	36.2	33.2	30.2	27.2	21.1	15.1	15.1
75°	2094.9	709.4	57.4	33.2	24.1	24.1	21.1	21.1	18.1	12.1	12.1
77.5°	546.4	211.3	36.2	21.1	15.1	15.1	15.1	12.1	12.1	9.1	9.1
80°	175.1	69.4	21.1	15.1	12.1	9.1	9.1	6.0	9.1	6.0	6.0
82.5°	57.4	24.1	12.1	12.1	9.1	6.0	6.0	3.0	3.0	0.0	0.0
85°	21.1	12.1	9.1	6.0	6.0	6.0	3.0	0.0	0.0	0.0	0.0
87.5°	12.1	6.0	6.0	6.0	6.0	3.0	0.0	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)