

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: P640698

Luminaire Tested: GWS-SA5E-735-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640698
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-SA5E-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27182.7 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

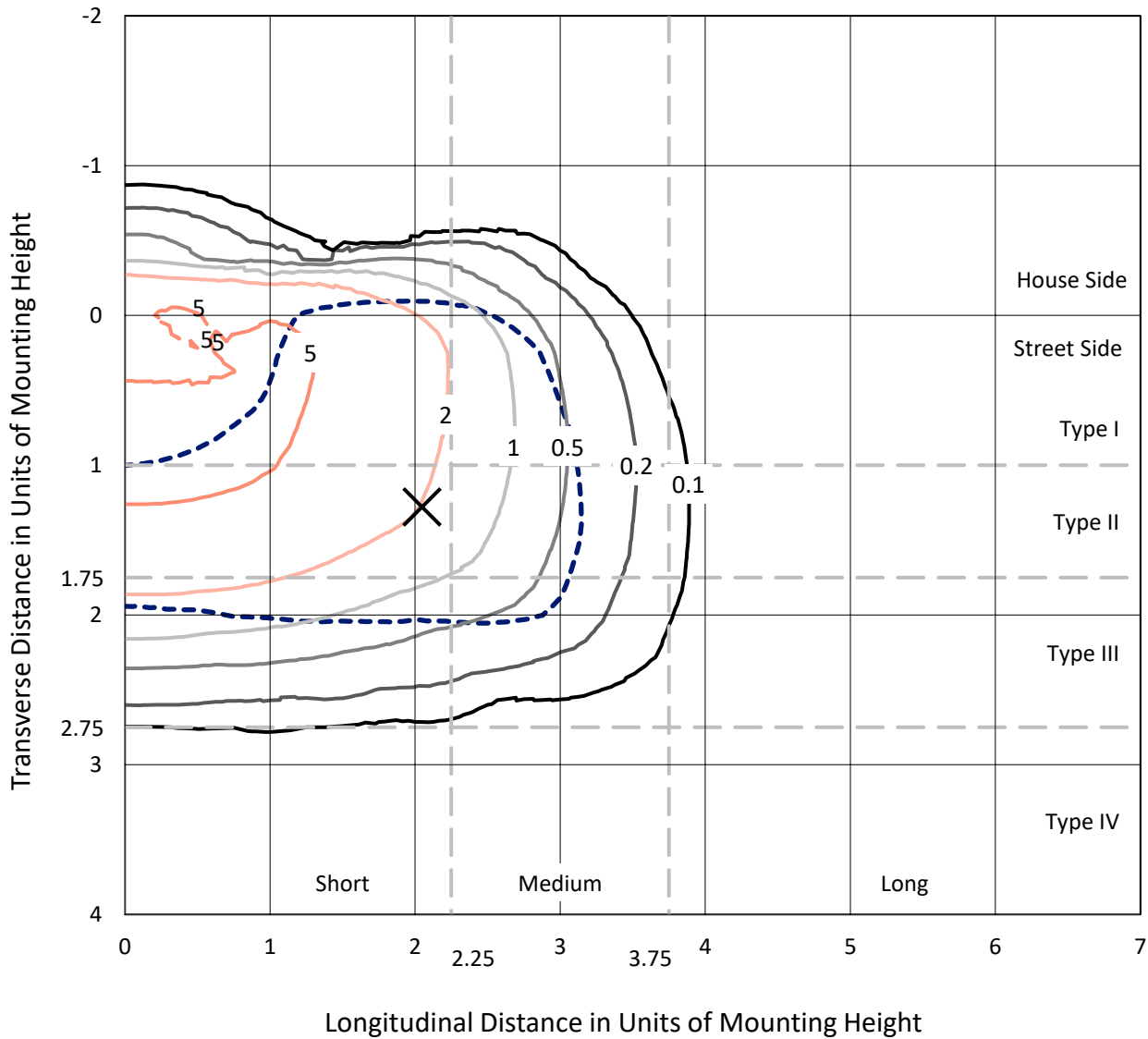
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

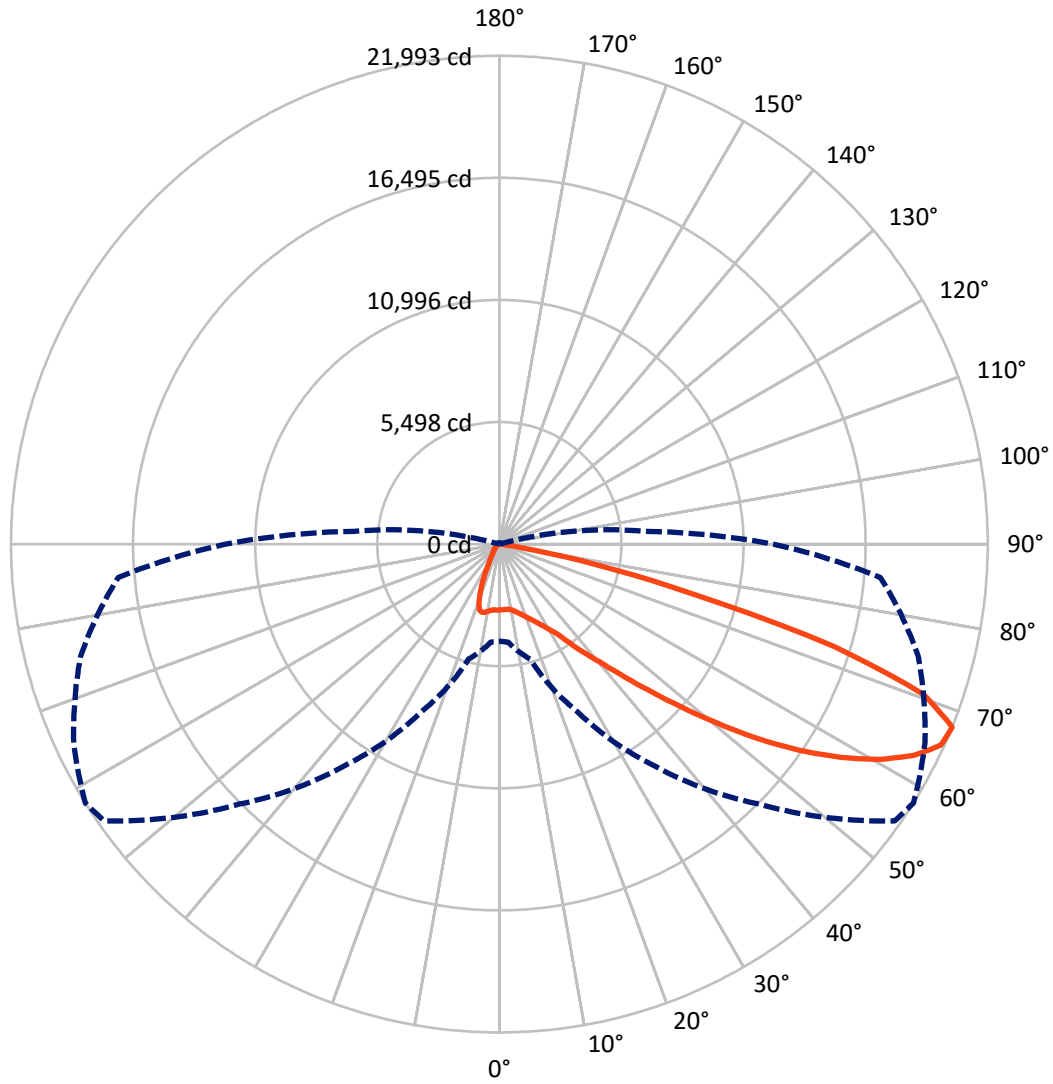
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	2965.6	0.0	2965.6
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	24217.1	0.0	24217.1
	% Fixture	89.1	0.0	89.1
Total	Lumens	27182.7	0.0	27182.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.3	1.0
10°-20°	781.3	2.9
20°-30°	1363.7	5.0
30°-40°	2435.4	9.0
40°-50°	4451.5	16.4
50°-60°	7403.2	27.2
60°-70°	8041.2	29.6
70°-80°	2361.0	8.7
80°-90°	67.2	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°	27182.7	100.0
0°-180°	27182.7	100.0

Coefficient of Utilization



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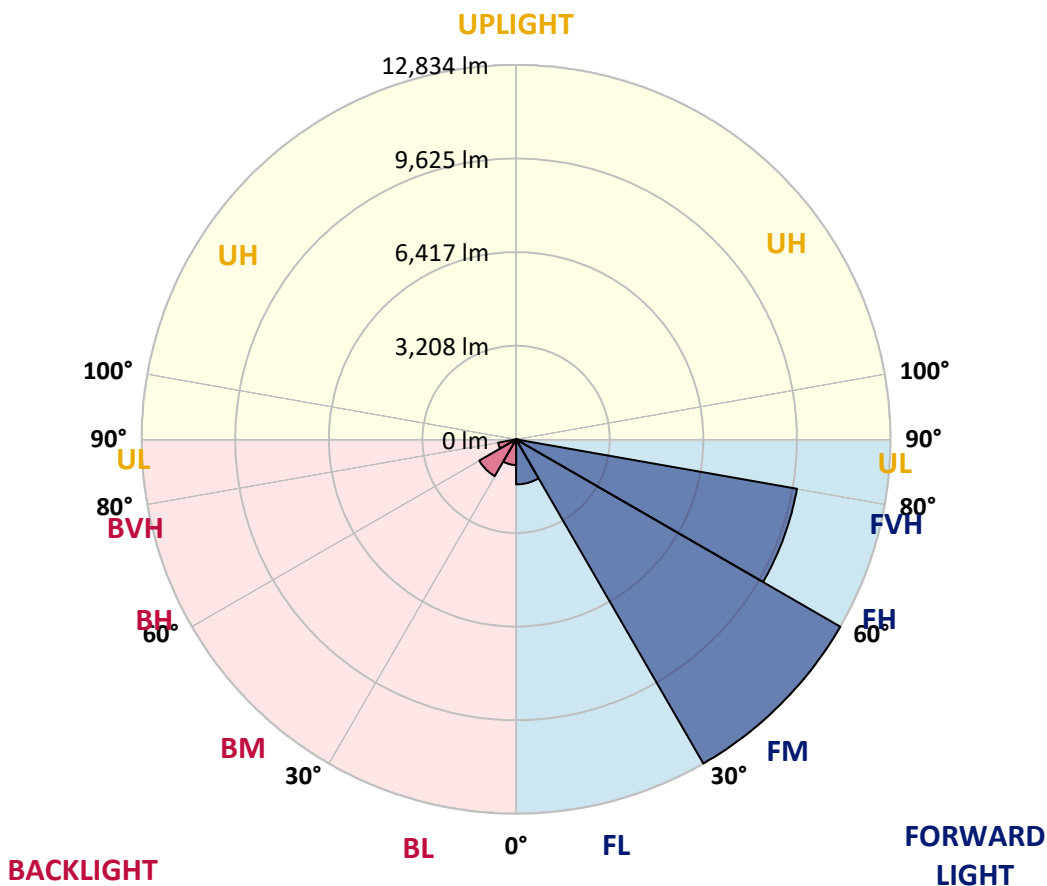
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1543.6	5.7			
FM (30°-60°)	12833.5	47.2			
FH (60°-80°)	9776.1	36.0			G4/12000
FVH (80°-90°)	63.9	0.2			G1/100
BL (0°-30°)	879.7	3.2	B2/1000		
BM (30°-60°)	1456.6	5.4	B2/2500		
BH (60°-80°)	626.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2962.1	2962.1	2962.1	2962.1	2962.1	2962.1	2962.1	2962.1	2962.1	2962.1	2962.1
2.5°	2906.4	2901.1	2901.1	2922.3	2924.9	2935.6	2959.4	2962.1	2975.4	2970.1	2951.5
5°	2755.1	2757.7	2773.7	2810.8	2842.7	2882.5	2940.9	2954.1	2983.3	2999.3	2988.6
7.5°	2614.4	2617.1	2640.9	2699.3	2760.4	2840.0	2935.6	2962.1	3020.5	3063.0	3065.6
10°	2561.3	2558.7	2582.5	2648.9	2728.5	2840.0	2978.0	3012.5	3100.1	3174.4	3187.7
12.5°	2577.2	2574.6	2598.5	2659.5	2747.1	2887.8	3052.3	3100.1	3211.6	3325.7	3349.6
15°	2640.9	2638.3	2654.2	2704.6	2800.2	2946.2	3147.9	3219.6	3360.2	3498.3	3535.4
17.5°	2832.0	2818.8	2802.8	2808.2	2863.9	3015.2	3270.0	3357.6	3532.8	3697.3	3729.2
20°	3171.8	3137.3	3094.8	3039.1	3012.5	3116.0	3410.7	3511.5	3723.9	3912.3	3917.6
22.5°	3684.0	3670.8	3572.6	3410.7	3296.5	3299.2	3575.2	3692.0	3952.1	4159.2	4130.0
25°	4398.0	4390.1	4238.8	3973.4	3676.1	3575.2	3784.9	3904.3	4222.9	4443.2	4350.3
27.5°	5284.5	5228.8	5051.0	4692.6	4249.4	3933.5	4050.3	4156.5	4509.5	4716.5	4541.4
30°	6056.9	6059.6	5892.4	5518.1	5019.1	4472.3	4374.1	4467.0	4772.3	4989.9	4777.6
32.5°	6800.1	6824.0	6640.8	6303.8	5757.0	5175.7	4838.6	4854.6	5109.4	5345.6	5088.1
35°	7490.2	7508.8	7381.4	7094.7	6585.1	5910.9	5486.3	5478.3	5616.3	5857.8	5520.8
37.5°	8262.6	8281.1	8156.4	7898.9	7421.2	6752.3	6221.5	6210.9	6266.6	6463.0	6078.1
40°	9085.4	9119.9	8981.9	8764.2	8307.7	7742.3	7076.1	6980.6	6924.8	7155.8	6800.1
42.5°	9918.8	9971.9	9924.1	9706.5	9316.3	8849.1	8185.6	8037.0	7917.5	8206.8	7829.9
45°	10953.9	11017.6	10996.4	10829.2	10526.6	10147.1	9520.7	9348.1	9292.4	9560.5	9111.9
47.5°	11949.3	12018.3	12095.3	12058.1	11843.1	11667.9	10972.5	10874.3	10858.4	11145.0	10449.6
50°	12689.8	12753.5	13048.1	13260.5	13406.4	13369.3	12766.8	12620.8	12596.9	12780.0	11861.7
52.5°	13220.6	13281.7	13687.8	14351.3	14887.5	15179.4	14571.6	14539.8	14409.7	14346.0	13183.5
55°	13632.0	13717.0	14144.3	15147.6	16227.9	16875.5	16495.9	16381.8	16047.4	15681.1	14409.7
57.5°	13714.3	13748.8	14351.3	15705.0	17268.3	18316.7	18316.7	18117.7	17472.7	16965.7	15827.1
60°	12976.4	13082.6	13897.5	15659.9	17714.2	19259.0	19827.0	19689.0	18818.4	18194.6	17191.3
62.5°	11338.8	11458.2	12450.9	14579.6	17268.3	19452.7	20970.9	20949.7	19967.6	19211.2	18322.0
65°	8695.2	8782.8	9648.1	12196.1	15383.8	18706.9	21788.4	21846.8	20875.4	19882.7	18712.2
67.5°	4368.8	4429.9	5364.2	8331.6	12193.5	16559.6	21732.7	21992.8	21151.4	19527.0	17223.2
70°	1526.2	1587.2	2027.8	3575.2	7421.2	12644.7	19853.5	20278.2	19529.7	16668.5	12705.7
72.5°	522.9	552.1	841.4	1327.1	2887.8	7495.5	15097.2	15736.8	14396.5	11190.2	7301.7
75°	297.3	315.9	451.2	719.3	1210.3	2465.8	8565.1	8958.0	8392.6	6099.4	3004.6
77.5°	201.7	217.6	281.3	408.7	668.9	793.6	3492.9	4398.0	3835.3	1990.7	767.1
80°	119.4	130.1	172.5	241.5	342.4	307.9	748.5	995.3	1282.0	594.5	230.9
82.5°	55.7	63.7	111.5	159.3	172.5	130.1	220.3	268.1	361.0	292.0	95.6
85°	0.0	0.0	37.2	66.4	63.7	37.2	61.0	66.4	98.2	146.0	37.2
87.5°	0.0	0.0	0.0	0.0	0.0	2.7	5.3	8.0	15.9	29.2	15.9
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°	2962.1	2962.1	2962.1	2962.1	2962.1	2962.1	2962.1	2962.1	2962.1	2962.1	2962.1
2.5°	2972.7	2954.1	2975.4	2964.8	2975.4	2972.7	2951.5	2938.2	2938.2	2914.3	2906.4
5°	3009.9	2991.3	2996.6	2972.7	2967.4	2954.1	2927.6	2917.0	2917.0	2893.1	2885.1
7.5°	3092.2	3063.0	3057.7	3009.9	2988.6	2951.5	2903.7	2885.1	2882.5	2858.6	2850.6
10°	3222.2	3187.7	3163.8	3102.8	3041.7	2967.4	2866.6	2781.6	2733.8	2670.1	2664.8
12.5°	3381.5	3339.0	3301.8	3208.9	3108.1	2940.9	2643.6	2333.1	2142.0	1990.7	2001.3
15°	3559.3	3519.5	3461.1	3320.4	3113.4	2678.1	2057.0	1579.3	1345.7	1220.9	1215.6
17.5°	3753.1	3694.7	3599.1	3408.0	2946.2	2046.4	1337.7	944.9	822.8	780.3	769.7
20°	3933.5	3861.9	3742.4	3426.6	2463.1	1385.5	836.1	732.6	711.3	698.1	698.1
22.5°	4124.6	4034.4	3856.6	3283.3	1831.4	886.5	711.3	687.4	671.5	652.9	650.3
25°	4318.4	4201.6	3960.1	2909.0	1199.7	698.1	666.2	639.7	610.5	581.3	573.3
27.5°	4483.0	4331.7	4039.7	2351.6	769.7	629.0	607.8	562.7	522.9	491.0	485.7
30°	4679.4	4485.6	4074.2	1719.9	605.2	554.7	522.9	475.1	427.3	395.5	384.9
32.5°	4942.1	4729.8	4021.1	1120.1	536.2	488.4	437.9	382.2	334.4	299.9	294.6
35°	5350.9	5098.7	3776.9	714.0	485.7	422.0	361.0	302.6	262.8	236.2	230.9
37.5°	5849.9	5616.3	3376.2	536.2	435.3	366.3	294.6	238.9	209.7	191.1	185.8
40°	6590.4	6263.9	2879.8	469.8	384.9	310.5	241.5	196.4	175.2	159.3	153.9
42.5°	7551.2	7028.4	2309.2	427.3	337.1	260.1	196.4	161.9	143.3	132.7	130.1
45°	8674.0	7774.2	1706.7	384.9	292.0	215.0	161.9	132.7	119.4	111.5	108.8
47.5°	9823.2	8427.1	1178.5	339.7	249.5	177.8	135.4	114.1	103.5	92.9	90.2
50°	11049.5	8979.2	804.2	294.6	212.3	146.0	116.8	103.5	90.2	82.3	79.6
52.5°	11949.3	9183.6	560.0	254.8	180.5	124.7	103.5	92.9	82.3	71.7	69.0
55°	12780.0	9178.3	424.7	215.0	153.9	108.8	92.9	82.3	71.7	63.7	61.0
57.5°	13608.2	9106.6	334.4	183.1	132.7	98.2	82.3	71.7	66.4	55.7	53.1
60°	14144.3	8835.9	260.1	153.9	114.1	84.9	71.7	63.7	55.7	47.8	45.1
62.5°	14428.3	8459.0	199.1	122.1	92.9	74.3	63.7	55.7	47.8	39.8	37.2
65°	14043.4	7790.1	156.6	95.6	71.7	63.7	53.1	45.1	37.2	29.2	26.5
67.5°	12336.8	6569.2	122.1	77.0	55.7	47.8	45.1	37.2	26.5	21.2	18.6
70°	8719.1	4498.9	95.6	58.4	42.5	37.2	34.5	29.2	21.2	15.9	13.3
72.5°	4785.5	2269.4	69.0	42.5	31.9	29.2	26.5	23.9	18.6	13.3	13.3
75°	1842.0	623.7	50.4	29.2	21.2	21.2	18.6	18.6	15.9	10.6	10.6
77.5°	480.4	185.8	31.9	18.6	13.3	13.3	13.3	10.6	10.6	8.0	8.0
80°	153.9	61.0	18.6	13.3	10.6	8.0	8.0	5.3	8.0	5.3	5.3
82.5°	50.4	21.2	10.6	10.6	8.0	5.3	5.3	2.7	2.7	0.0	0.0
85°	18.6	10.6	8.0	5.3	5.3	5.3	2.7	0.0	0.0	0.0	0.0
87.5°	10.6	5.3	5.3	5.3	5.3	2.7	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)