

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: P640017

Luminaire Tested: GWS-SA5D-722-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-722-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17435 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

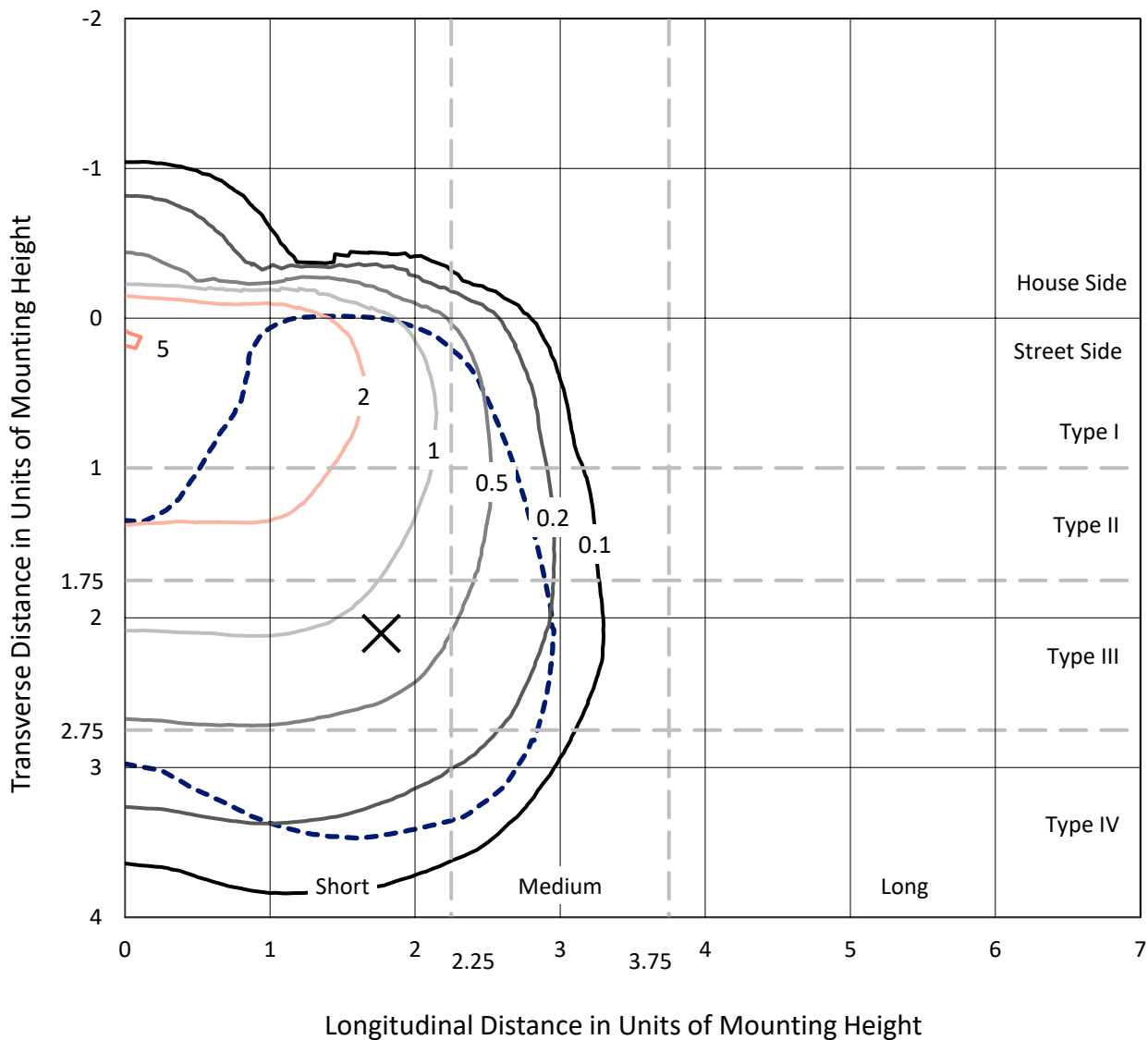
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

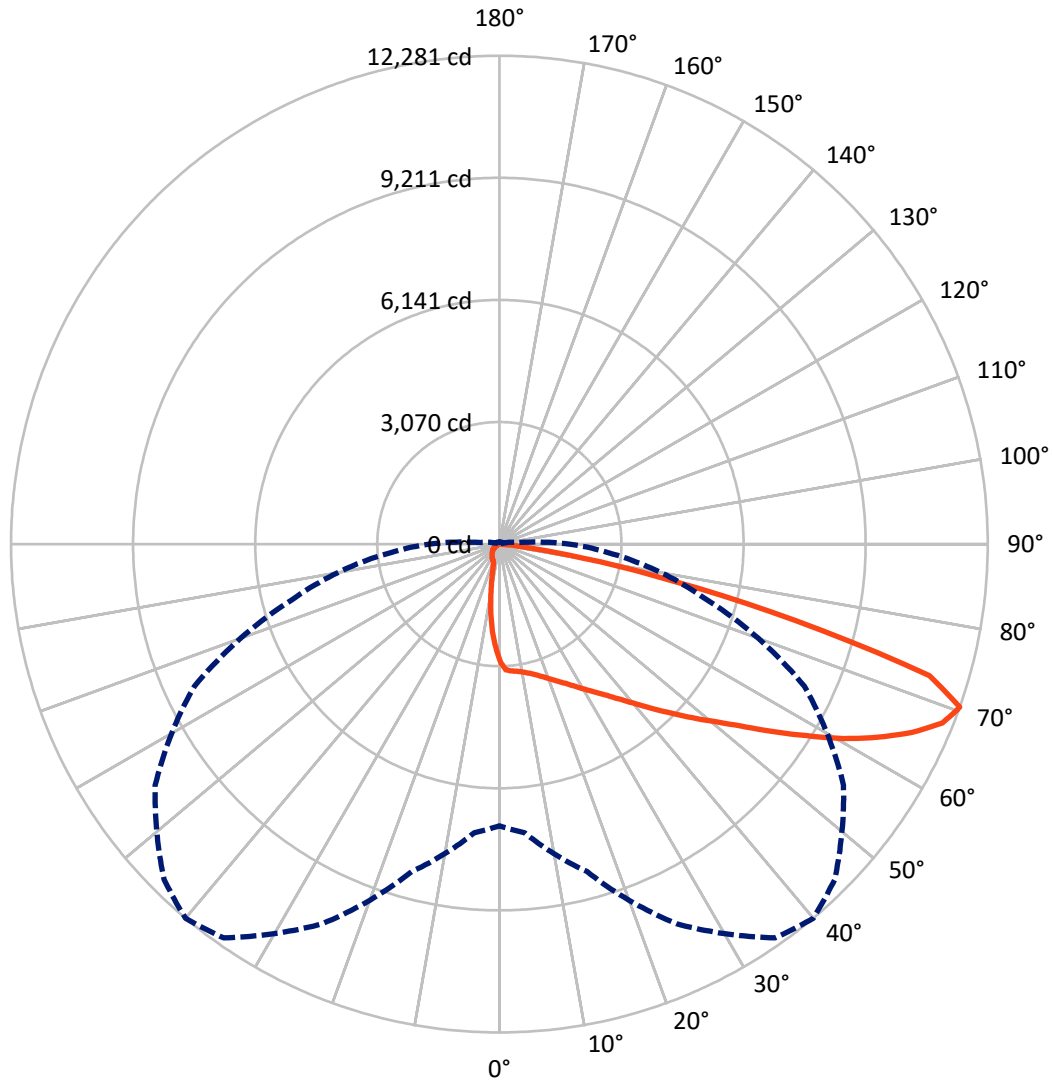
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1425.7	0.0	1425.7
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	16009.3	0.0	16009.3
	% Fixture	91.8	0.0	91.8
Total	Lumens	17435.0	0.0	17435.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.1	1.4
10°-20°	634.2	3.6
20°-30°	1061.4	6.1
30°-40°	1667.1	9.6
40°-50°	2637.0	15.1
50°-60°	3846.7	22.1
60°-70°	4768.5	27.4
70°-80°	2412.6	13.8
80°-90°	157.5	0.9
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°	17435.0	100.0
0°-180°	17435.0	100.0

Coefficient of Utilization



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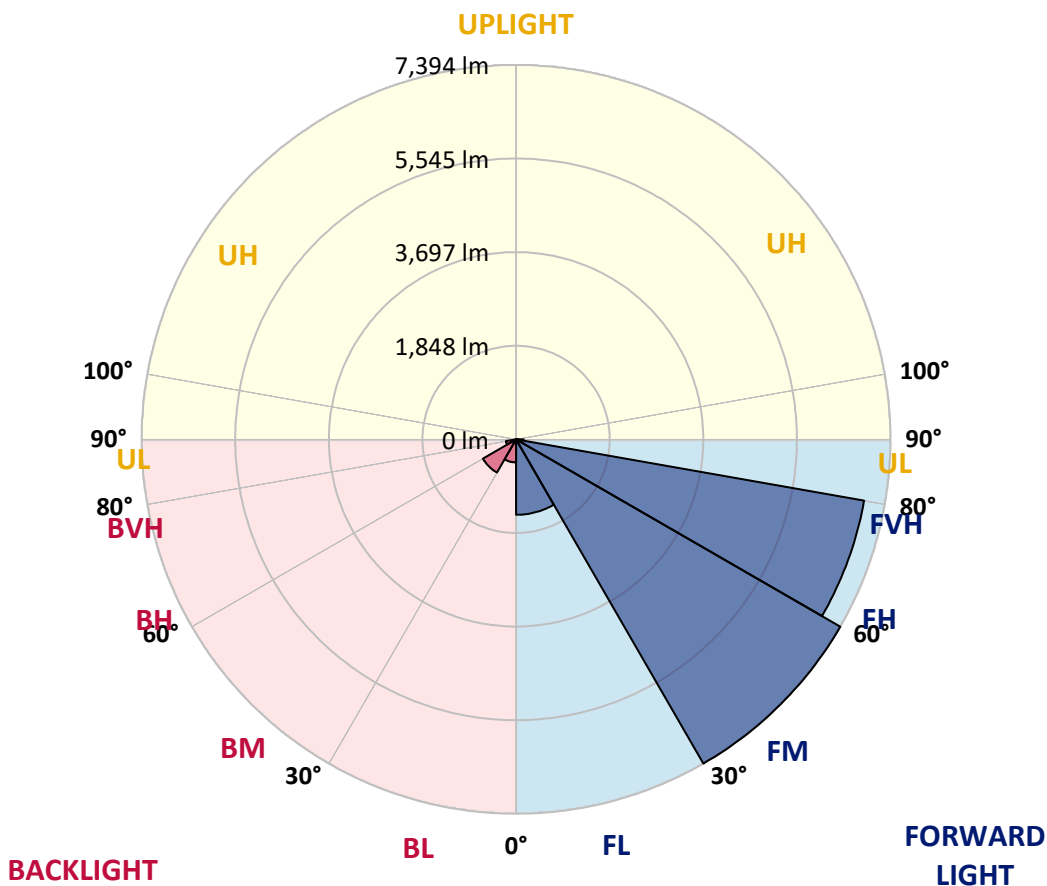
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1490.4	8.5			
FM (30°-60°)	7394.0	42.4			
FH (60°-80°)	6977.8	40.0			G3/7500
FVH (80°-90°)	147.1	0.8			G2/225
BL (0°-30°)	455.3	2.6	B1/500		
BM (30°-60°)	756.8	4.3	B1/1000		
BH (60°-80°)	203.3	1.2	B1/500		G1/500
BVH (80°-90°)	10.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5
2.5°	3180.6	3191.7	3190.1	3194.9	3183.8	3166.3	3163.1	3139.4	3096.5	3042.6	2982.3
5°	3245.6	3258.3	3248.8	3244.1	3223.4	3204.4	3199.6	3174.3	3125.1	3052.1	2947.4
7.5°	3301.2	3304.3	3298.0	3286.9	3256.7	3231.4	3213.9	3179.0	3120.3	3047.3	2926.8
10°	3310.7	3309.1	3312.3	3313.8	3294.8	3272.6	3258.3	3210.7	3136.2	3058.4	2928.4
12.5°	3299.6	3299.6	3320.2	3344.0	3344.0	3332.9	3318.6	3275.8	3188.5	3096.5	2960.1
15°	3313.8	3318.6	3358.3	3402.7	3417.0	3405.9	3399.5	3355.1	3264.7	3163.1	3017.2
17.5°	3364.6	3369.4	3432.8	3499.4	3516.9	3504.2	3491.5	3447.1	3350.3	3239.3	3082.2
20°	3439.2	3451.9	3532.8	3618.4	3634.3	3618.4	3593.0	3531.2	3434.4	3321.8	3144.1
22.5°	3575.6	3583.5	3670.8	3761.2	3769.1	3743.7	3705.7	3620.0	3518.5	3409.0	3213.9
25°	3756.4	3767.5	3854.8	3942.0	3921.4	3883.3	3831.0	3734.2	3618.4	3512.1	3302.7
27.5°	3972.2	3984.9	4070.5	4146.7	4092.7	4048.3	3989.6	3869.1	3751.7	3654.9	3417.0
30°	4205.4	4216.5	4292.6	4360.8	4289.4	4237.1	4167.3	4043.6	3924.6	3851.6	3578.8
32.5°	4430.6	4429.0	4502.0	4557.5	4484.6	4443.3	4379.9	4254.5	4159.4	4127.6	3819.9
35°	4640.0	4640.0	4700.3	4755.8	4703.5	4681.3	4622.6	4522.6	4468.7	4506.8	4141.9
37.5°	4851.0	4839.9	4897.0	4958.9	4954.1	4955.7	4922.4	4874.8	4878.0	5012.8	4584.5
40°	5025.5	5020.7	5087.4	5168.3	5231.7	5282.5	5261.9	5279.3	5379.3	5631.5	5150.8
42.5°	5165.1	5176.2	5261.9	5390.4	5550.6	5653.7	5668.0	5739.4	5996.3	6386.6	5790.1
45°	5325.3	5326.9	5445.9	5642.6	5898.0	6061.4	6118.5	6302.5	6667.4	7170.2	6491.3
47.5°	5522.0	5503.0	5636.2	5912.3	6281.9	6523.0	6624.5	6854.5	7419.3	7934.8	7062.4
50°	5739.4	5704.5	5855.2	6231.1	6711.8	7013.2	7219.4	7555.7	8164.9	8563.0	7487.5
52.5°	5991.6	5958.3	6129.6	6597.6	7227.3	7593.8	7858.7	8198.2	8804.1	9042.1	7741.3
55°	6312.0	6278.7	6459.5	7037.0	7836.5	8312.4	8590.0	8875.5	9399.0	9395.8	7925.3
57.5°	6667.4	6621.4	6872.0	7592.2	8596.3	9091.3	9373.6	9513.2	9851.1	9670.3	8049.1
60°	7075.0	7033.8	7381.2	8253.7	9473.6	9932.0	10109.7	10052.6	10222.3	9832.1	8006.2
62.5°	7443.1	7424.0	7855.5	8954.8	10309.6	10696.6	10745.8	10496.8	10495.2	9835.3	7717.5
65°	7825.4	7861.9	8502.7	9762.3	11150.3	11410.5	11326.4	10937.8	10604.6	9446.6	6864.1
67.5°	7968.1	8074.4	8929.5	10492.0	11813.4	12016.5	11868.9	11158.3	10149.4	8139.5	5227.0
70°	7086.1	7286.0	8526.5	10533.2	12087.9	12281.4	11927.6	10565.0	8461.5	5391.9	2863.3
72.5°	5388.8	5622.0	7105.2	8624.9	10871.1	11312.1	10707.7	8607.4	5453.8	2362.0	961.3
75°	3015.6	3267.8	5292.0	6494.4	7298.7	7701.6	7479.6	5522.0	2416.0	617.1	287.1
77.5°	1020.0	1104.1	2462.0	4018.2	4817.7	4456.0	3772.3	2742.8	888.3	234.8	152.3
80°	604.4	636.1	916.9	2000.4	2535.0	2101.9	1659.3	1013.7	452.1	125.3	106.3
82.5°	180.8	214.2	506.0	742.4	993.0	618.7	523.5	579.0	234.8	68.2	88.8
85°	0.0	0.0	107.9	230.0	260.2	101.5	101.5	328.4	42.8	28.6	65.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	7.9	4.8	6.3	14.3
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°	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5
2.5°	2939.5	2884.0	2818.9	2757.0	2698.4	2622.2	2585.7	2541.3	2503.2	2482.6	2493.7
5°	2880.8	2793.5	2660.3	2525.4	2389.0	2260.5	2144.7	2067.0	1997.2	1960.7	1968.6
7.5°	2830.0	2712.6	2504.8	2284.3	2065.4	1844.9	1665.6	1526.1	1418.2	1373.8	1365.8
10°	2807.8	2660.3	2366.8	2049.5	1713.2	1416.6	1162.8	1008.9	899.5	845.5	855.0
12.5°	2818.9	2633.3	2249.4	1819.5	1383.3	1037.5	794.8	650.4	572.7	540.9	533.0
15°	2850.6	2627.0	2144.7	1584.7	1067.6	725.0	548.9	490.2	474.3	471.1	471.1
17.5°	2887.1	2628.6	2036.9	1346.8	810.6	537.8	469.6	458.5	453.7	450.5	452.1
20°	2923.6	2628.6	1913.1	1105.7	609.2	464.8	447.3	439.4	434.7	433.1	433.1
22.5°	2968.0	2628.6	1775.1	882.0	488.6	441.0	426.7	422.0	417.2	415.6	414.0
25°	3022.0	2630.1	1622.8	690.1	444.2	420.4	409.3	404.5	399.8	396.6	396.6
27.5°	3099.7	2642.8	1454.7	537.8	418.8	401.3	391.8	387.1	382.3	377.5	377.5
30°	3212.3	2674.6	1265.9	444.2	395.0	380.7	371.2	368.0	363.3	358.5	356.9
32.5°	3380.5	2730.1	1070.8	398.2	372.8	358.5	347.4	344.2	339.5	334.7	333.1
35°	3615.3	2831.6	880.4	369.6	344.2	330.0	323.6	322.0	315.7	310.9	310.9
37.5°	3959.5	2996.6	698.0	341.1	320.4	309.3	301.4	298.2	291.9	287.1	285.5
40°	4379.9	3210.7	542.5	318.9	298.2	287.1	279.2	274.4	266.5	260.2	257.0
42.5°	4916.0	3472.5	428.3	295.1	277.6	266.5	260.2	250.6	239.5	230.0	228.4
45°	5474.4	3742.2	353.8	272.8	258.6	249.1	241.1	228.4	212.6	201.5	198.3
47.5°	5902.7	3910.3	309.3	249.1	237.9	230.0	220.5	204.6	185.6	172.9	169.7
50°	6208.9	3935.7	276.0	226.8	220.5	212.6	198.3	179.3	158.6	145.9	142.8
52.5°	6359.6	3821.5	249.1	206.2	201.5	193.5	176.1	155.5	133.3	120.6	117.4
55°	6427.8	3605.7	223.7	188.8	182.4	172.9	153.9	131.7	109.5	98.4	95.2
57.5°	6400.9	3286.9	201.5	171.3	163.4	152.3	131.7	107.9	90.4	79.3	77.7
60°	6201.0	2839.5	179.3	153.9	144.4	131.7	111.0	88.8	73.0	65.0	63.5
62.5°	5769.5	2284.3	157.0	133.3	126.9	114.2	95.2	73.0	60.3	55.5	53.9
65°	4885.9	1614.9	134.8	112.6	109.5	96.8	79.3	60.3	52.3	49.2	47.6
67.5°	3512.1	981.9	114.2	96.8	93.6	82.5	66.6	52.3	47.6	46.0	46.0
70°	1765.6	464.8	90.4	79.3	79.3	68.2	57.1	47.6	46.0	44.4	44.4
72.5°	599.6	198.3	68.2	61.9	65.0	58.7	49.2	44.4	44.4	44.4	44.4
75°	204.6	104.7	47.6	44.4	47.6	47.6	42.8	42.8	44.4	44.4	44.4
77.5°	133.3	69.8	33.3	30.1	36.5	36.5	36.5	39.7	42.8	42.8	42.8
80°	109.5	38.1	22.2	20.6	27.0	27.0	30.1	36.5	39.7	39.7	39.7
82.5°	93.6	23.8	12.7	14.3	19.0	20.6	25.4	30.1	34.9	36.5	36.5
85°	63.5	12.7	9.5	11.1	12.7	15.9	20.6	25.4	28.6	31.7	31.7
87.5°	17.4	4.8	6.3	7.9	7.9	11.1	15.9	19.0	22.2	23.8	23.8
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)