

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: P640537

Luminaire Tested: GWS-SA5E-722-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640537
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-SA5E-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21646.8 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

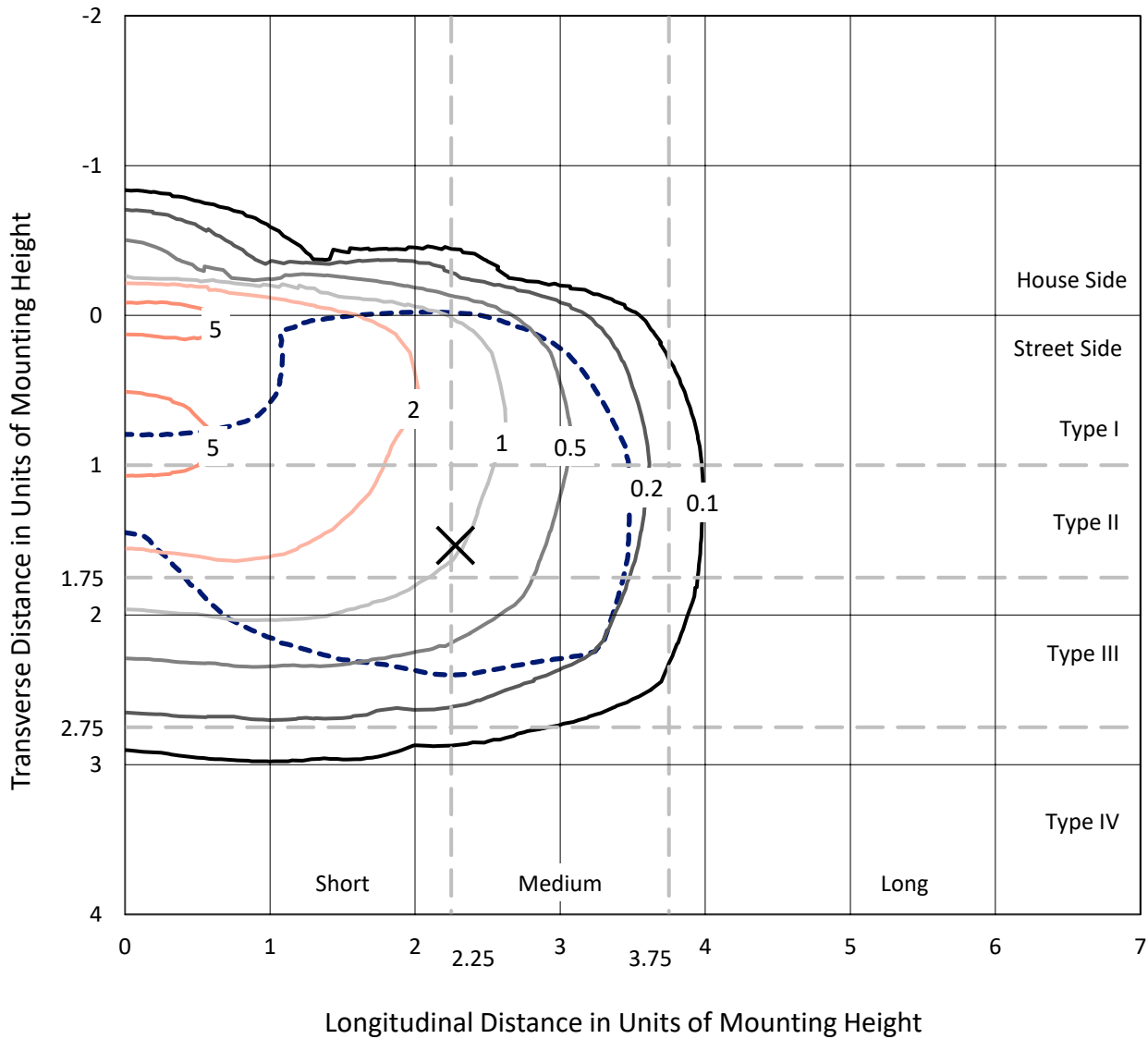
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

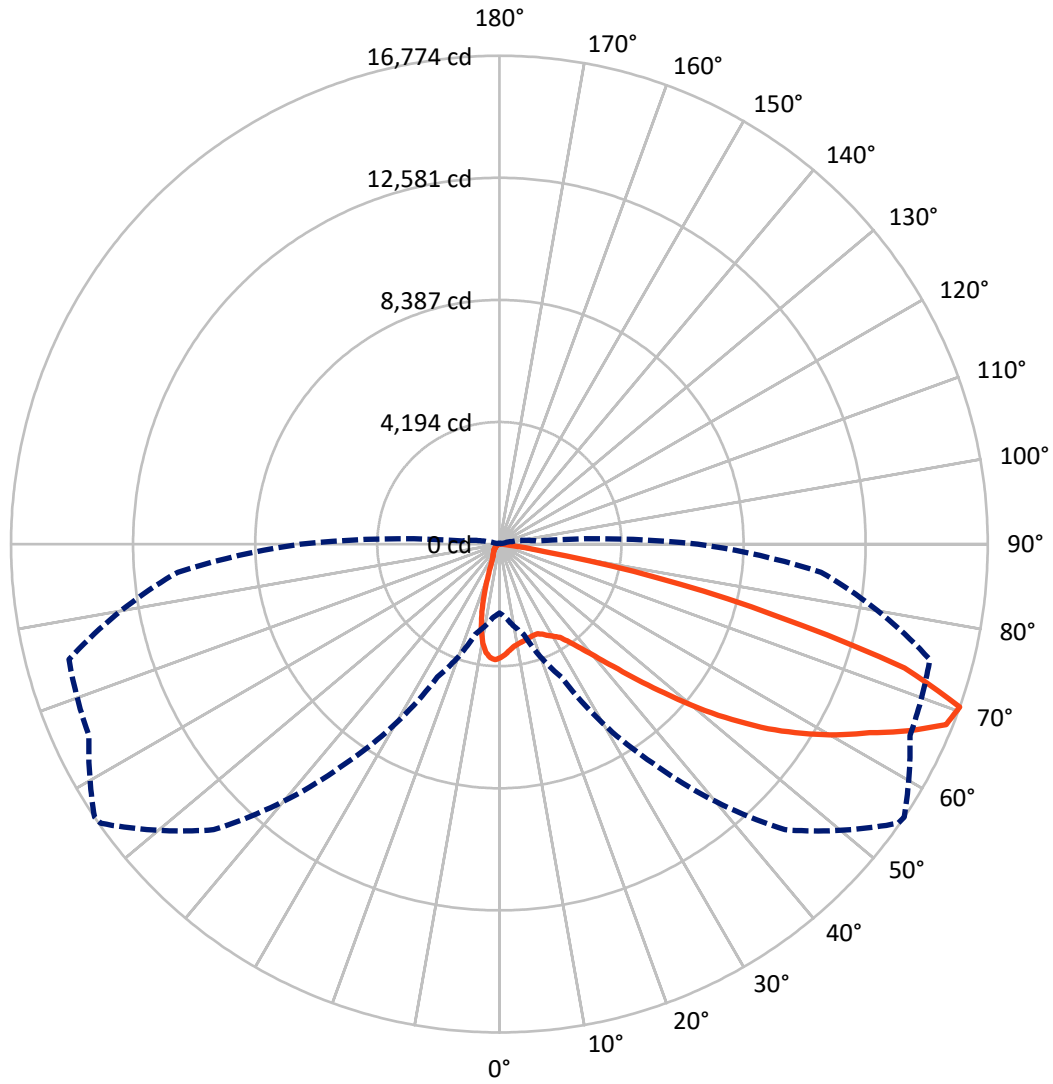
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - 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	1944.3	0.0	1944.3
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	19702.5	0.0	19702.5
	% Fixture	91.0	0.0	91.0
Total	Lumens	21646.8	0.0	21646.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.1	1.5
10°-20°	753.7	3.5
20°-30°	1193.9	5.5
30°-40°	2058.9	9.5
40°-50°	3476.7	16.1
50°-60°	5108.4	23.6
60°-70°	6056.3	28.0
70°-80°	2582.7	11.9
80°-90°	81.1	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°	21646.8	100.0
0°-180°	21646.8	100.0

Coefficient of Utilization



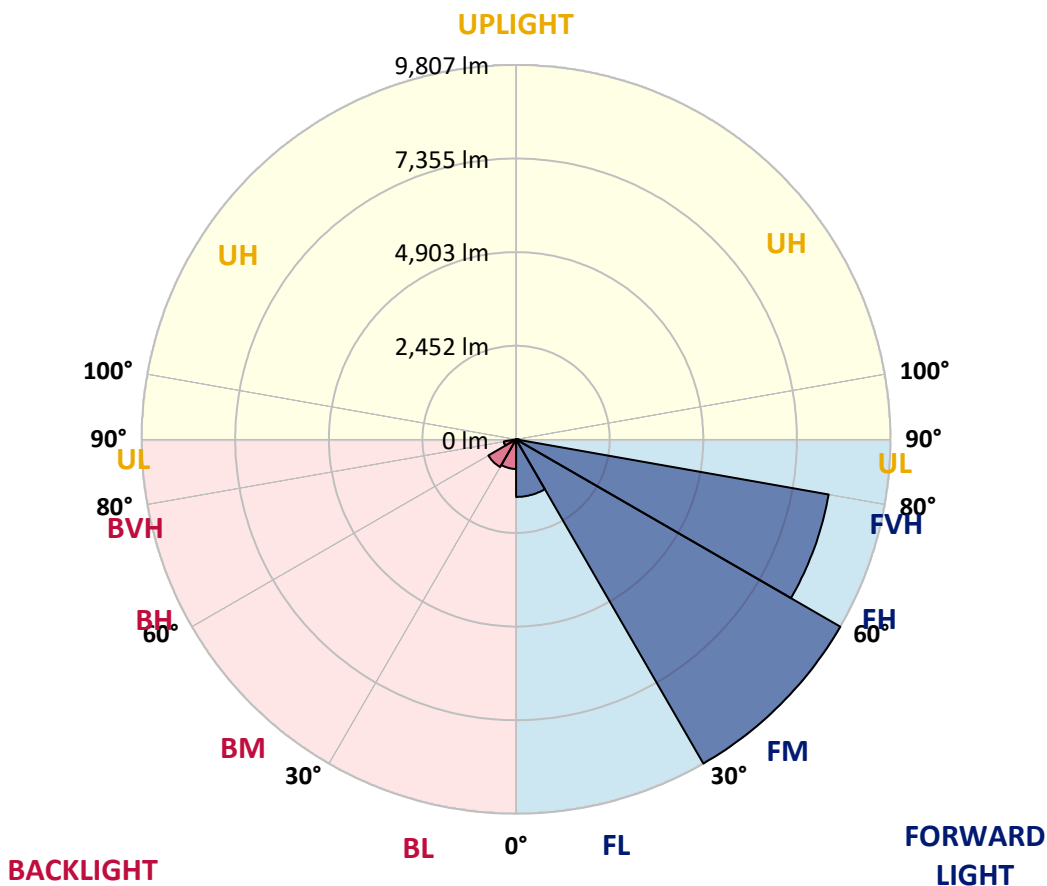
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1508.4	7.0			
FM (30°-60°)	9806.6	45.3			
FH (60°-80°)	8314.7	38.4			G4/12000
FVH (80°-90°)	72.9	0.3			G1/100
BL (0°-30°)	774.3	3.6	B2/1000		
BM (30°-60°)	837.4	3.9	B1/1000		
BH (60°-80°)	324.3	1.5	B1/500		G1/500
BVH (80°-90°)	8.2	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3903.1	3903.1	3903.1	3903.1	3903.1	3903.1	3903.1	3903.1	3903.1	3903.1	3903.1
2.5°	3633.5	3627.6	3631.6	3661.3	3716.8	3742.6	3786.2	3794.1	3829.8	3875.4	3893.2
5°	3397.7	3377.8	3387.7	3429.4	3492.8	3564.2	3645.4	3667.2	3756.4	3857.5	3932.9
7.5°	3181.6	3159.8	3183.6	3249.0	3338.2	3415.5	3536.4	3550.3	3693.0	3871.4	4008.2
10°	2842.6	2848.6	2896.1	3011.1	3147.9	3308.4	3471.0	3490.8	3667.2	3917.0	4129.1
12.5°	2582.9	2569.1	2620.6	2751.4	2943.7	3177.6	3421.4	3447.2	3669.2	3986.4	4283.7
15°	2462.0	2458.0	2479.8	2575.0	2761.3	3036.9	3375.8	3409.5	3695.0	4049.8	4430.4
17.5°	2466.0	2460.0	2458.0	2513.5	2652.3	2931.8	3326.3	3369.9	3716.8	4119.2	4585.0
20°	2638.4	2610.7	2561.1	2535.4	2618.6	2864.4	3292.6	3342.1	3748.5	4192.6	4749.6
22.5°	2999.2	3009.1	2876.3	2737.5	2697.9	2872.3	3288.6	3346.1	3817.9	4307.5	4951.8
25°	3720.8	3704.9	3459.1	3147.9	2931.8	2963.5	3358.0	3427.4	3954.7	4472.1	5142.1
27.5°	4624.7	4638.6	4301.6	3806.0	3354.0	3151.8	3484.9	3554.3	4113.3	4575.1	5268.9
30°	5609.9	5596.0	5235.2	4686.1	3952.7	3465.0	3611.7	3673.2	4192.6	4630.6	5399.8
32.5°	6541.6	6509.9	6153.0	5578.2	4715.9	3958.6	3786.2	3821.9	4297.6	4751.6	5576.2
35°	7336.5	7334.5	7023.3	6410.7	5500.9	4577.1	4085.5	4115.2	4493.9	4943.8	5835.9
37.5°	8157.1	8129.4	7780.5	7221.5	6307.7	5255.1	4543.4	4531.5	4803.1	5227.3	6155.0
40°	8831.1	8813.3	8545.7	8008.5	7146.2	6004.4	5098.5	5062.8	5169.8	5619.8	6599.1
42.5°	9330.7	9332.6	9249.4	8922.3	8034.2	6870.6	5796.2	5740.7	5738.7	6212.5	7185.8
45°	9709.3	9735.0	9859.9	9810.4	9082.9	7879.6	6690.2	6632.8	6535.6	6981.6	7857.8
47.5°	9885.7	9919.4	10296.0	10494.3	10000.7	8880.7	7754.7	7633.8	7443.5	8004.5	8609.1
50°	9867.9	9927.3	10452.6	11055.3	10833.2	9895.6	8914.4	8856.9	8545.7	9086.8	9352.5
52.5°	9463.5	9590.3	10462.5	11396.2	11473.5	10831.3	10113.7	10006.6	9856.0	10216.7	10050.2
55°	8365.3	8519.9	10044.3	11505.2	11973.1	11648.0	11287.2	11200.0	10950.2	11283.2	10658.8
57.5°	7768.6	7901.4	9164.1	11451.7	12397.3	12403.2	12331.8	12260.5	12054.3	12337.8	11372.4
60°	7409.8	7542.6	8694.3	11255.5	12781.8	13200.1	13313.1	13305.2	13007.8	13537.1	12208.9
62.5°	6884.5	7066.9	8204.7	10746.0	13055.4	13985.1	14326.0	14272.5	13941.5	14785.9	13037.5
65°	5824.0	5982.6	7201.7	9905.5	12894.8	14635.3	15424.2	15452.0	15069.4	15961.4	13691.7
67.5°	4083.5	4200.5	5411.7	8141.3	11804.6	14849.4	16548.2	16546.2	15894.0	16564.0	13402.3
70°	2366.9	2527.4	3197.4	5033.0	9184.0	13876.1	16716.7	16774.2	15559.0	15305.3	11090.9
72.5°	915.8	1048.6	1811.8	2674.1	4789.2	10629.1	14379.6	14548.1	13021.7	11806.5	7719.1
75°	273.6	305.3	852.4	1423.3	1922.8	5134.1	9735.0	9782.6	8932.2	7364.2	3956.7
77.5°	204.2	226.0	372.7	719.6	674.0	1556.1	5037.0	5500.9	4741.6	2630.5	1090.3
80°	138.8	164.5	265.6	350.9	249.8	414.3	1415.4	1554.1	1447.1	590.7	273.6
82.5°	61.5	79.3	188.3	176.4	91.2	118.9	436.1	463.9	299.3	178.4	95.2
85°	5.9	7.9	71.4	77.3	33.7	27.8	91.2	91.2	65.4	61.5	39.6
87.5°	0.0	0.0	2.0	4.0	4.0	5.9	7.9	9.9	11.9	15.9	19.8
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°	3903.1	3903.1	3903.1	3903.1	3903.1	3903.1	3903.1	3903.1	3903.1	3903.1	3903.1
2.5°	3938.8	3915.0	3944.8	3968.6	3974.5	3930.9	3905.1	3867.5	3859.5	3861.5	3851.6
5°	3992.3	3980.4	4002.3	3976.5	3909.1	3782.2	3673.2	3552.3	3486.9	3449.2	3445.2
7.5°	4091.5	4085.5	4061.7	3944.8	3734.6	3453.2	3181.6	2916.0	2751.4	2692.0	2682.0
10°	4238.1	4226.2	4129.1	3851.6	3403.6	2862.4	2406.5	2025.9	1794.0	1726.6	1643.3
12.5°	4406.6	4382.9	4170.7	3651.4	2904.1	2154.8	1585.8	1159.6	959.4	900.0	900.0
15°	4569.2	4517.6	4147.0	3320.3	2289.5	1401.5	886.1	670.0	608.6	592.7	592.7
17.5°	4735.7	4636.6	4053.8	2868.4	1581.9	828.6	590.7	549.1	541.2	543.1	545.1
20°	4892.3	4737.7	3889.3	2325.2	1009.0	578.8	529.3	519.4	515.4	519.4	517.4
22.5°	5062.8	4830.8	3639.5	1732.5	656.1	521.3	503.5	495.6	491.6	497.6	497.6
25°	5231.3	4898.2	3308.4	1165.6	521.3	485.7	475.8	467.8	463.9	465.8	465.8
27.5°	5318.5	4872.5	2874.3	743.4	467.8	450.0	440.1	430.2	424.2	422.2	424.2
30°	5378.0	4793.2	2343.1	529.3	424.2	402.4	392.5	384.6	368.7	358.8	362.8
32.5°	5471.1	4713.9	1766.2	444.0	388.5	354.8	339.0	319.1	297.3	287.4	287.4
35°	5582.1	4604.9	1238.9	400.4	350.9	315.2	285.5	251.8	226.0	218.1	218.1
37.5°	5728.8	4501.8	824.6	370.7	319.1	281.5	239.9	200.2	172.5	168.5	166.5
40°	5948.9	4414.6	580.8	348.9	291.4	245.8	196.2	154.6	134.8	128.8	128.8
42.5°	6234.3	4325.4	459.9	327.1	267.6	212.1	156.6	122.9	107.0	103.1	101.1
45°	6587.2	4220.3	400.4	307.3	243.8	176.4	124.9	103.1	91.2	87.2	87.2
47.5°	6969.7	4077.6	372.7	281.5	216.1	142.7	105.1	89.2	83.3	81.3	79.3
50°	7346.4	3885.3	348.9	257.7	184.4	117.0	91.2	81.3	77.3	75.3	75.3
52.5°	7675.4	3661.3	319.1	229.9	150.7	101.1	81.3	75.3	71.4	67.4	65.4
55°	7956.9	3417.5	281.5	198.2	122.9	89.2	75.3	69.4	65.4	61.5	59.5
57.5°	8319.7	3278.7	226.0	160.6	101.1	79.3	69.4	63.4	59.5	53.5	53.5
60°	8722.1	3177.6	168.5	126.9	87.2	73.3	63.4	57.5	53.5	47.6	47.6
62.5°	9045.2	3027.0	132.8	103.1	75.3	65.4	57.5	51.5	47.6	41.6	41.6
65°	9168.1	2715.7	109.0	81.3	61.5	57.5	51.5	47.6	41.6	35.7	35.7
67.5°	8613.1	2093.3	91.2	65.4	51.5	49.6	45.6	43.6	35.7	31.7	29.7
70°	6821.1	1276.6	75.3	53.5	43.6	41.6	41.6	37.7	31.7	29.7	27.8
72.5°	4674.2	658.1	61.5	43.6	37.7	37.7	35.7	33.7	29.7	27.8	27.8
75°	2428.3	220.0	47.6	33.7	29.7	31.7	31.7	29.7	27.8	27.8	25.8
77.5°	695.8	99.1	35.7	25.8	23.8	23.8	25.8	25.8	25.8	23.8	23.8
80°	180.4	57.5	25.8	19.8	19.8	19.8	19.8	21.8	23.8	21.8	21.8
82.5°	73.3	31.7	17.8	15.9	15.9	15.9	15.9	17.8	19.8	19.8	19.8
85°	45.6	15.9	13.9	13.9	13.9	11.9	11.9	13.9	13.9	15.9	15.9
87.5°	27.8	11.9	11.9	11.9	11.9	9.9	9.9	9.9	9.9	9.9	9.9
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)