

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: P643012

Luminaire Tested: GWS-SA6E-722-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643012
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-SAGE-722-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25812.3 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

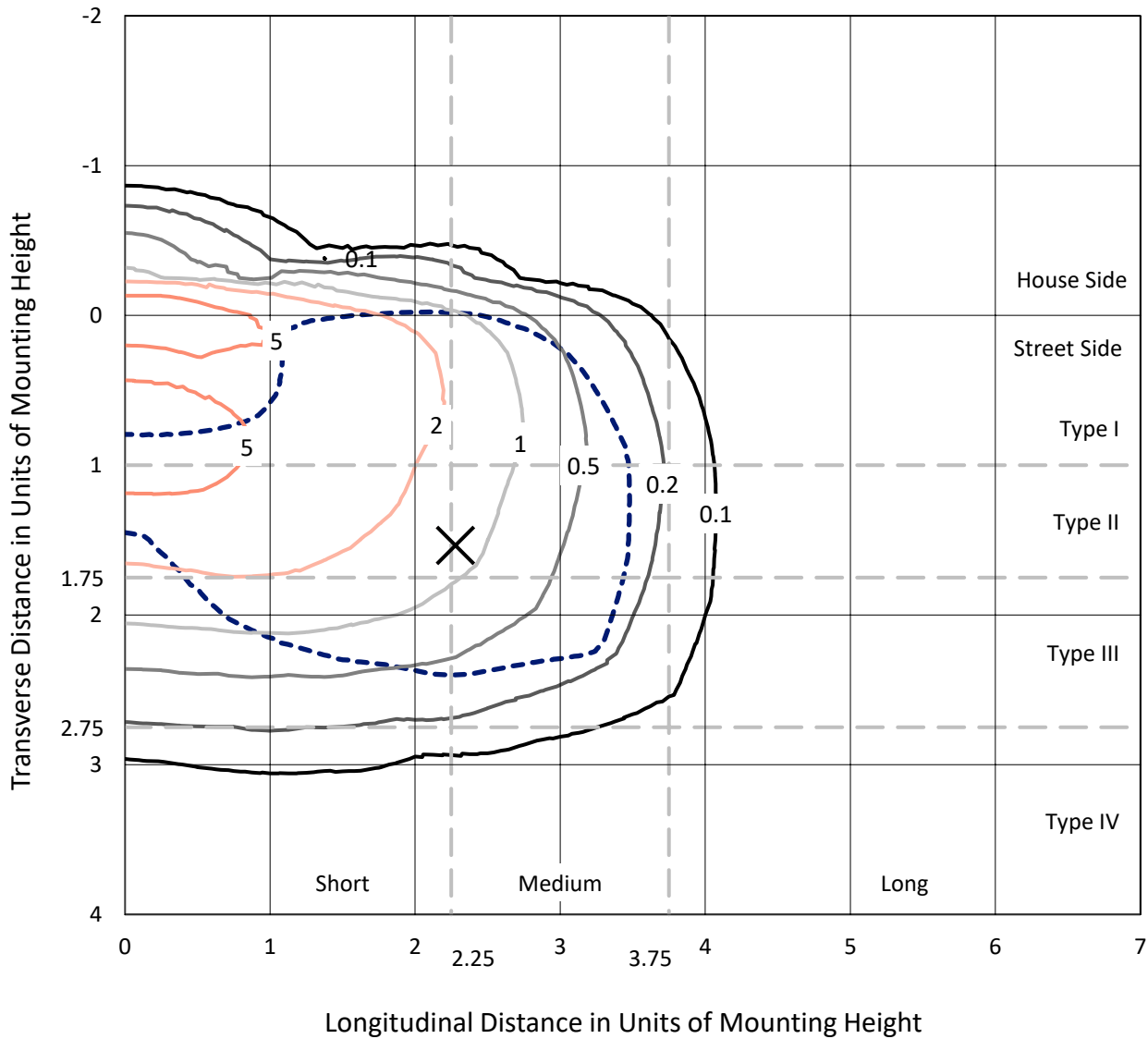
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

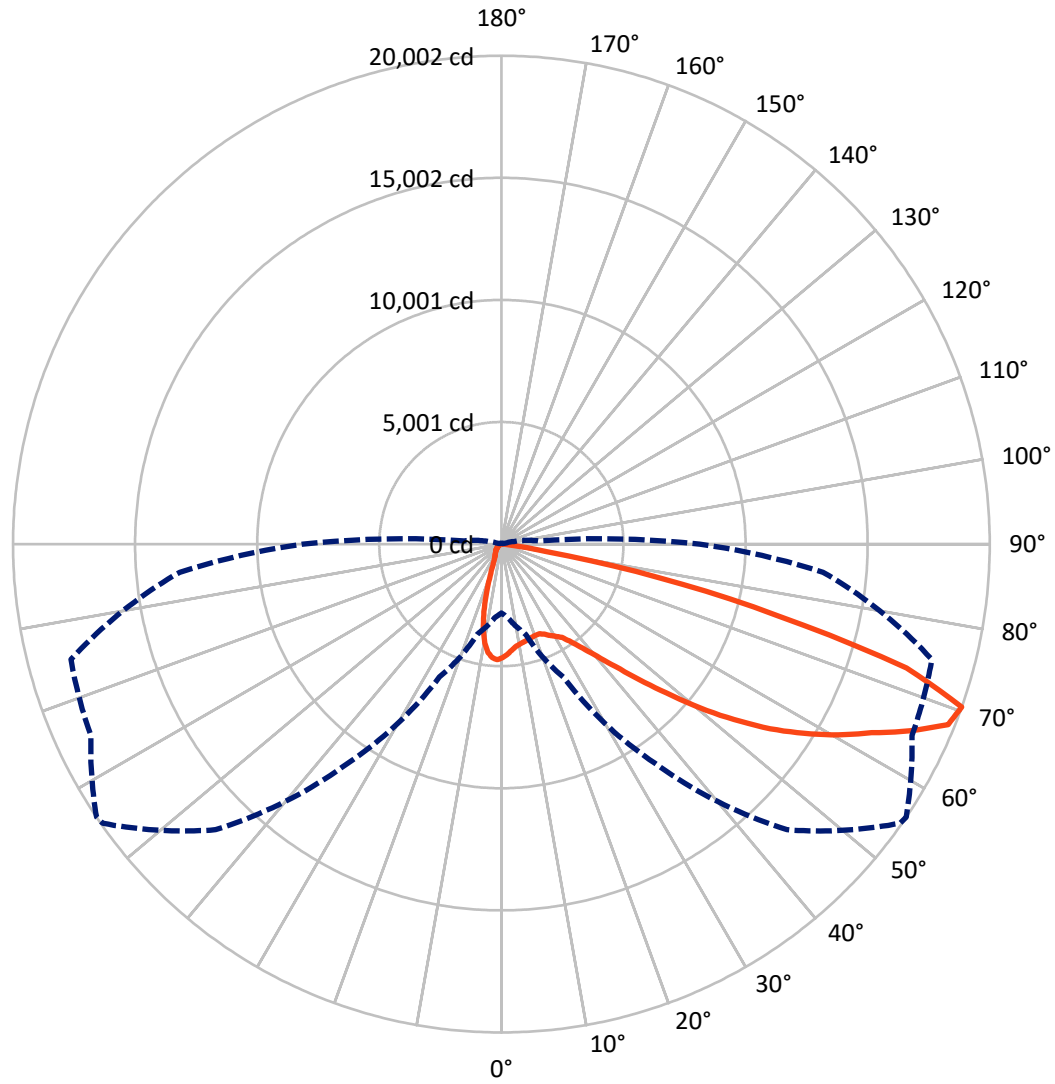
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	2318.4	0.0	2318.4
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	23493.9	0.0	23493.9
	% Fixture	91.0	0.0	91.0
Total	Lumens	25812.3	0.0	25812.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.6	1.5
10°-20°	898.8	3.5
20°-30°	1423.6	5.5
30°-40°	2455.1	9.5
40°-50°	4145.7	16.1
50°-60°	6091.4	23.6
60°-70°	7221.7	28.0
70°-80°	3079.6	11.9
80°-90°	96.7	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°	25812.3	100.0
0°-180°	25812.3	100.0

Coefficient of Utilization



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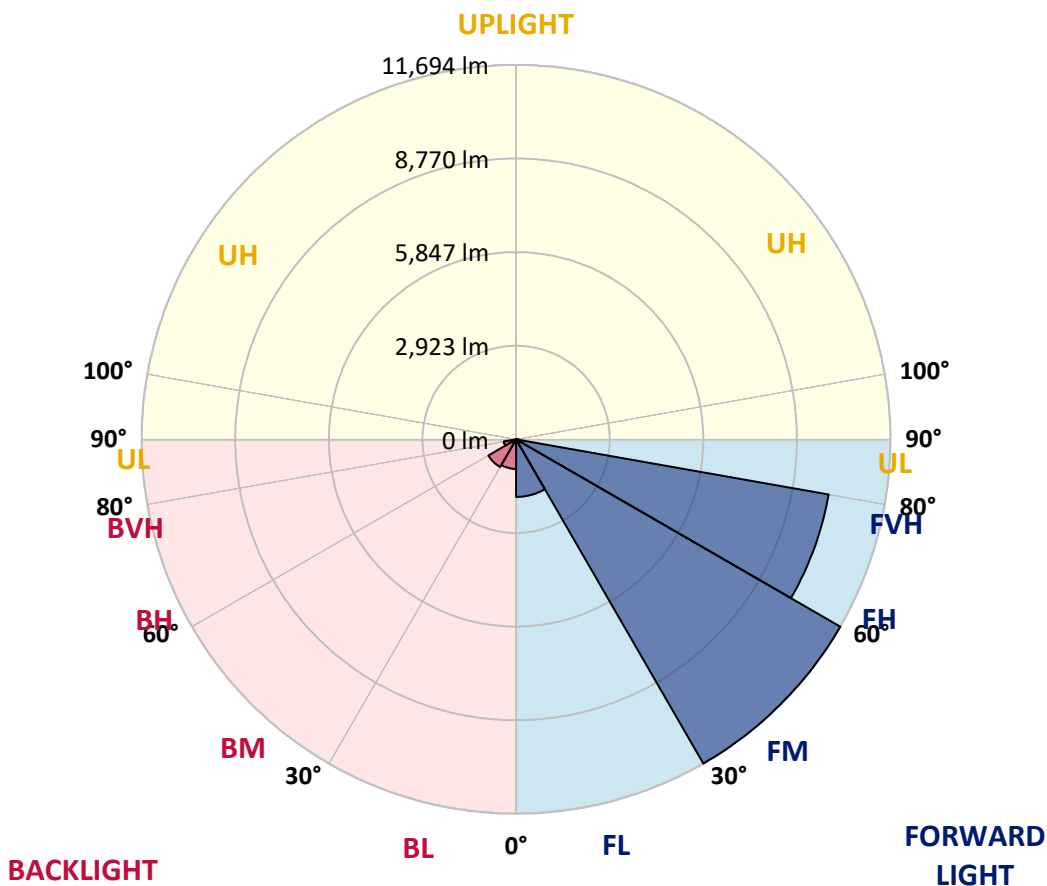
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1798.6	7.0			
FM (30°-60°)	11693.7	45.3			
FH (60°-80°)	9914.7	38.4			G4/12000
FVH (80°-90°)	86.9	0.3			G1/100
BL (0°-30°)	923.3	3.6	B2/1000		
BM (30°-60°)	998.6	3.9	B1/1000		
BH (60°-80°)	386.7	1.5	B1/500		G1/500
BVH (80°-90°)	9.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4654.2	4654.2	4654.2	4654.2	4654.2	4654.2	4654.2	4654.2	4654.2	4654.2	4654.2
2.5°	4332.7	4325.7	4330.4	4365.8	4432.0	4462.8	4514.8	4524.2	4566.8	4621.1	4642.4
5°	4051.5	4027.8	4039.6	4089.3	4164.9	4250.0	4346.9	4372.9	4479.3	4599.9	4689.7
7.5°	3793.8	3767.8	3796.2	3874.2	3980.5	4072.7	4216.9	4233.5	4403.7	4616.4	4779.5
10°	3389.6	3396.7	3453.4	3590.5	3753.6	3945.1	4138.9	4162.6	4372.9	4670.8	4923.7
12.5°	3080.0	3063.4	3124.9	3280.9	3510.2	3789.1	4079.8	4110.6	4375.3	4753.5	5108.1
15°	2935.8	2931.0	2957.0	3070.5	3292.7	3621.3	4025.5	4065.6	4406.0	4829.1	5283.0
17.5°	2940.5	2933.4	2931.0	2997.2	3162.7	3496.0	3966.4	4018.4	4432.0	4911.9	5467.3
20°	3146.1	3113.1	3054.0	3023.2	3122.5	3415.6	3926.2	3985.3	4469.8	4999.3	5663.5
22.5°	3576.3	3588.2	3429.8	3264.3	3217.1	3425.1	3921.5	3990.0	4552.6	5136.4	5904.6
25°	4436.8	4417.8	4124.7	3753.6	3496.0	3533.8	4004.2	4086.9	4715.7	5332.6	6131.6
27.5°	5514.6	5531.2	5129.3	4538.4	3999.5	3758.4	4155.5	4238.2	4904.8	5455.5	6282.8
30°	6689.4	6672.9	6242.7	5587.9	4713.3	4131.8	4306.7	4380.0	4999.3	5521.7	6438.8
32.5°	7800.4	7762.5	7337.1	6651.6	5623.4	4720.4	4514.8	4557.3	5124.6	5665.9	6649.2
35°	8748.2	8745.9	8374.8	7644.4	6559.4	5457.9	4871.7	4907.1	5358.6	5895.2	6958.9
37.5°	9726.8	9693.7	9277.7	8611.1	7521.4	6266.3	5417.7	5403.5	5727.4	6233.2	7339.4
40°	10530.5	10509.2	10190.1	9549.5	8521.3	7159.8	6079.6	6037.0	6164.7	6701.2	7868.9
42.5°	11126.2	11128.5	11029.2	10639.2	9580.3	8192.7	6911.6	6845.4	6843.0	7408.0	8568.6
45°	11577.6	11608.4	11757.3	11698.2	10830.7	9395.9	7977.6	7909.1	7793.3	8325.1	9369.9
47.5°	11788.0	11828.2	12277.3	12513.7	11925.1	10589.6	9247.0	9102.8	8875.9	9544.8	10265.8
50°	11766.7	11837.6	12464.0	13182.6	12917.9	11799.8	10629.8	10561.2	10190.1	10835.4	11152.2
52.5°	11284.5	11435.8	12475.9	13589.2	13681.4	12915.5	12059.8	11932.2	11752.5	12182.8	11984.2
55°	9975.0	10159.4	11977.1	13719.2	14277.0	13889.4	13459.2	13355.2	13057.3	13454.4	12709.9
57.5°	9263.5	9421.9	10927.6	13655.4	14782.9	14790.0	14704.9	14619.8	14373.9	14712.0	13560.8
60°	8835.7	8994.1	10367.4	13421.4	15241.4	15740.2	15874.9	15865.5	15510.9	16142.0	14558.3
62.5°	8209.3	8426.8	9783.5	12813.9	15567.6	16676.2	17082.8	17019.0	16624.2	17631.2	15546.4
65°	6944.7	7133.8	8587.5	11811.6	15376.2	17451.5	18392.3	18425.4	17969.2	19032.9	16326.4
67.5°	4869.3	5008.8	6453.0	9707.9	14076.1	17706.8	19732.6	19730.2	18952.5	19751.5	15981.3
70°	2822.3	3013.8	3812.7	6001.6	10951.2	16546.2	19933.5	20002.0	18553.0	18250.5	13225.2
72.5°	1092.1	1250.4	2160.5	3188.7	5710.8	12674.4	17146.6	17347.5	15527.5	14078.5	9204.4
75°	326.2	364.0	1016.4	1697.2	2292.8	6122.1	11608.4	11665.1	10651.0	8781.3	4718.0
77.5°	243.5	269.5	444.4	858.0	803.7	1855.5	6006.3	6559.4	5654.1	3136.7	1300.1
80°	165.5	196.2	316.7	418.4	297.8	494.0	1687.7	1853.2	1725.5	704.4	326.2
82.5°	73.3	94.5	224.6	210.4	108.7	141.8	520.0	553.1	356.9	212.7	113.5
85°	7.1	9.5	85.1	92.2	40.2	33.1	108.7	108.7	78.0	73.3	47.3
87.5°	0.0	0.0	2.4	4.7	4.7	7.1	9.5	11.8	14.2	18.9	23.6
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°	4654.2	4654.2	4654.2	4654.2	4654.2	4654.2	4654.2	4654.2	4654.2	4654.2	4654.2
2.5°	4696.8	4668.4	4703.9	4732.2	4739.3	4687.3	4656.6	4611.7	4602.2	4604.6	4592.8
5°	4760.6	4746.4	4772.4	4741.7	4661.3	4510.0	4380.0	4235.8	4157.8	4112.9	4108.2
7.5°	4878.8	4871.7	4843.3	4703.9	4453.3	4117.6	3793.8	3477.1	3280.9	3210.0	3198.1
10°	5053.7	5039.5	4923.7	4592.8	4058.6	3413.3	2869.6	2415.7	2139.2	2058.8	1959.5
12.5°	5254.6	5226.2	4973.3	4354.0	3462.9	2569.4	1891.0	1382.8	1144.1	1073.1	1073.1
15°	5448.4	5387.0	4945.0	3959.3	2730.1	1671.2	1056.6	798.9	725.7	706.8	706.8
17.5°	5647.0	5528.8	4833.9	3420.3	1886.3	988.0	704.4	654.8	645.3	647.7	650.0
20°	5833.7	5649.4	4637.7	2772.7	1203.1	690.2	631.1	619.3	614.6	619.3	616.9
22.5°	6037.0	5760.5	4339.8	2065.9	782.4	621.7	600.4	590.9	586.2	593.3	593.3
25°	6237.9	5840.8	3945.1	1389.9	621.7	579.1	567.3	557.8	553.1	555.5	555.5
27.5°	6341.9	5810.1	3427.4	886.4	557.8	536.6	524.8	512.9	505.8	503.5	505.8
30°	6412.8	5715.5	2793.9	631.1	505.8	479.8	468.0	458.6	439.7	427.8	432.6
32.5°	6523.9	5621.0	2106.1	529.5	463.3	423.1	404.2	380.6	354.6	342.7	342.7
35°	6656.3	5491.0	1477.3	477.5	418.4	375.8	340.4	300.2	269.5	260.0	260.0
37.5°	6831.2	5368.1	983.3	442.0	380.6	335.7	286.0	238.7	205.6	200.9	198.6
40°	7093.6	5264.1	692.6	416.0	347.5	293.1	234.0	184.4	160.7	153.6	153.6
42.5°	7434.0	5157.7	548.4	390.0	319.1	252.9	186.7	146.6	127.6	122.9	120.6
45°	7854.7	5032.4	477.5	366.4	290.7	210.4	148.9	122.9	108.7	104.0	104.0
47.5°	8310.9	4862.2	444.4	335.7	257.6	170.2	125.3	106.4	99.3	96.9	94.5
50°	8760.0	4632.9	416.0	307.3	219.8	139.5	108.7	96.9	92.2	89.8	89.8
52.5°	9152.4	4365.8	380.6	274.2	179.6	120.6	96.9	89.8	85.1	80.4	78.0
55°	9488.1	4075.1	335.7	236.4	146.6	106.4	89.8	82.7	78.0	73.3	70.9
57.5°	9920.6	3909.6	269.5	191.5	120.6	94.5	82.7	75.6	70.9	63.8	63.8
60°	10400.5	3789.1	200.9	151.3	104.0	87.5	75.6	68.5	63.8	56.7	56.7
62.5°	10785.8	3609.4	158.4	122.9	89.8	78.0	68.5	61.5	56.7	49.6	49.6
65°	10932.3	3238.3	130.0	96.9	73.3	68.5	61.5	56.7	49.6	42.5	42.5
67.5°	10270.5	2496.1	108.7	78.0	61.5	59.1	54.4	52.0	42.5	37.8	35.5
70°	8133.7	1522.3	89.8	63.8	52.0	49.6	49.6	44.9	37.8	35.5	33.1
72.5°	5573.7	784.8	73.3	52.0	44.9	44.9	42.5	40.2	35.5	33.1	33.1
75°	2895.6	262.4	56.7	40.2	35.5	37.8	37.8	35.5	33.1	33.1	30.7
77.5°	829.7	118.2	42.5	30.7	28.4	28.4	30.7	30.7	30.7	28.4	28.4
80°	215.1	68.5	30.7	23.6	23.6	23.6	23.6	26.0	28.4	26.0	26.0
82.5°	87.5	37.8	21.3	18.9	18.9	18.9	18.9	21.3	23.6	23.6	23.6
85°	54.4	18.9	16.5	16.5	16.5	14.2	14.2	16.5	16.5	18.9	18.9
87.5°	33.1	14.2	14.2	14.2	14.2	11.8	11.8	11.8	11.8	11.8	11.8
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)