

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: INVUE

Report Number: P675598

Luminaire Tested: **CCW-SA-1A-830-U-SL3**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675598  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1A-830-U-SL3  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/  
SL3 distribution lens  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

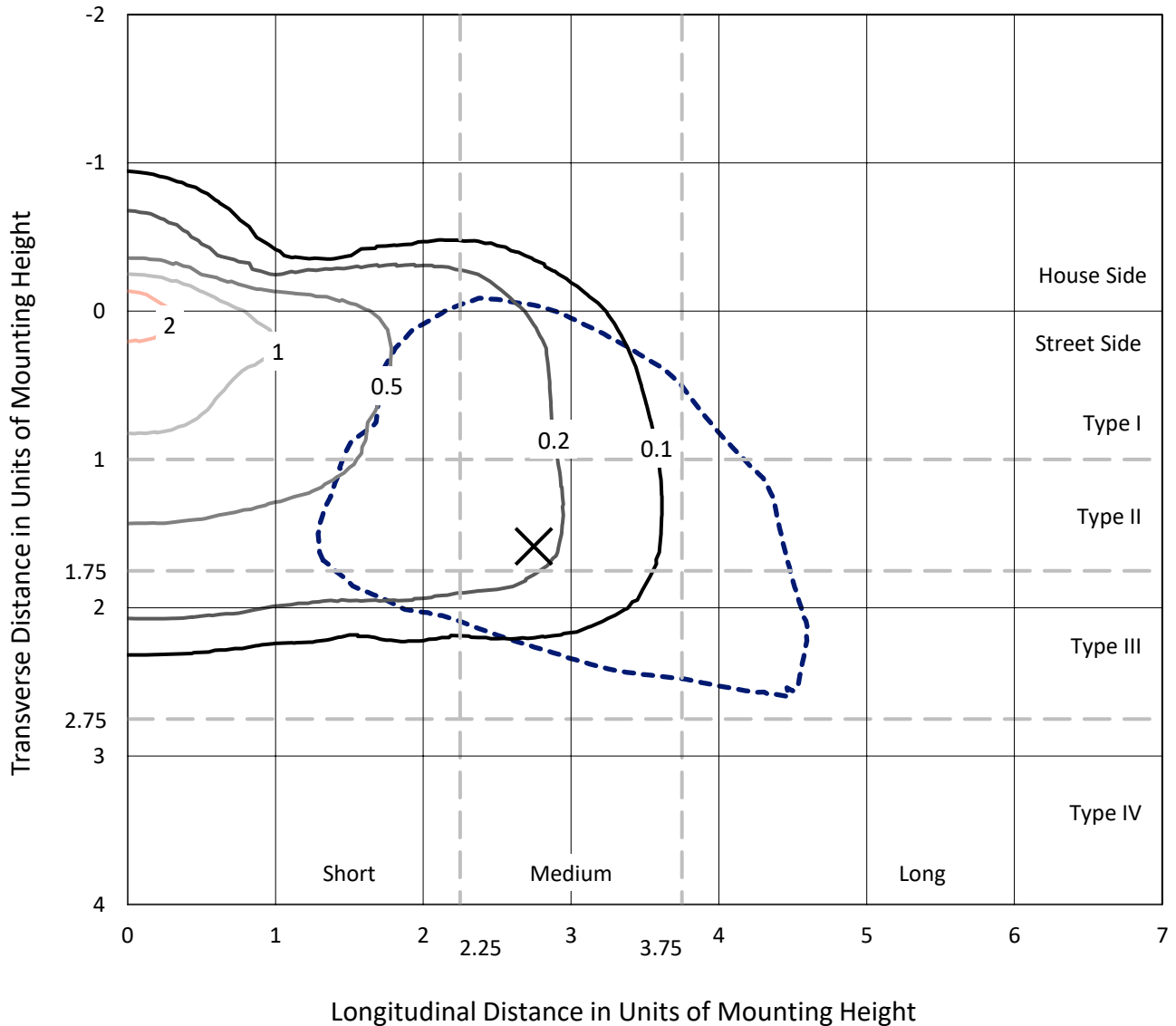
Lumens per Lamp: N/A  
Luminaire Lumens: 2149.4 lumens  
Efficiency: N/A  
Efficacy: 119.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 18  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

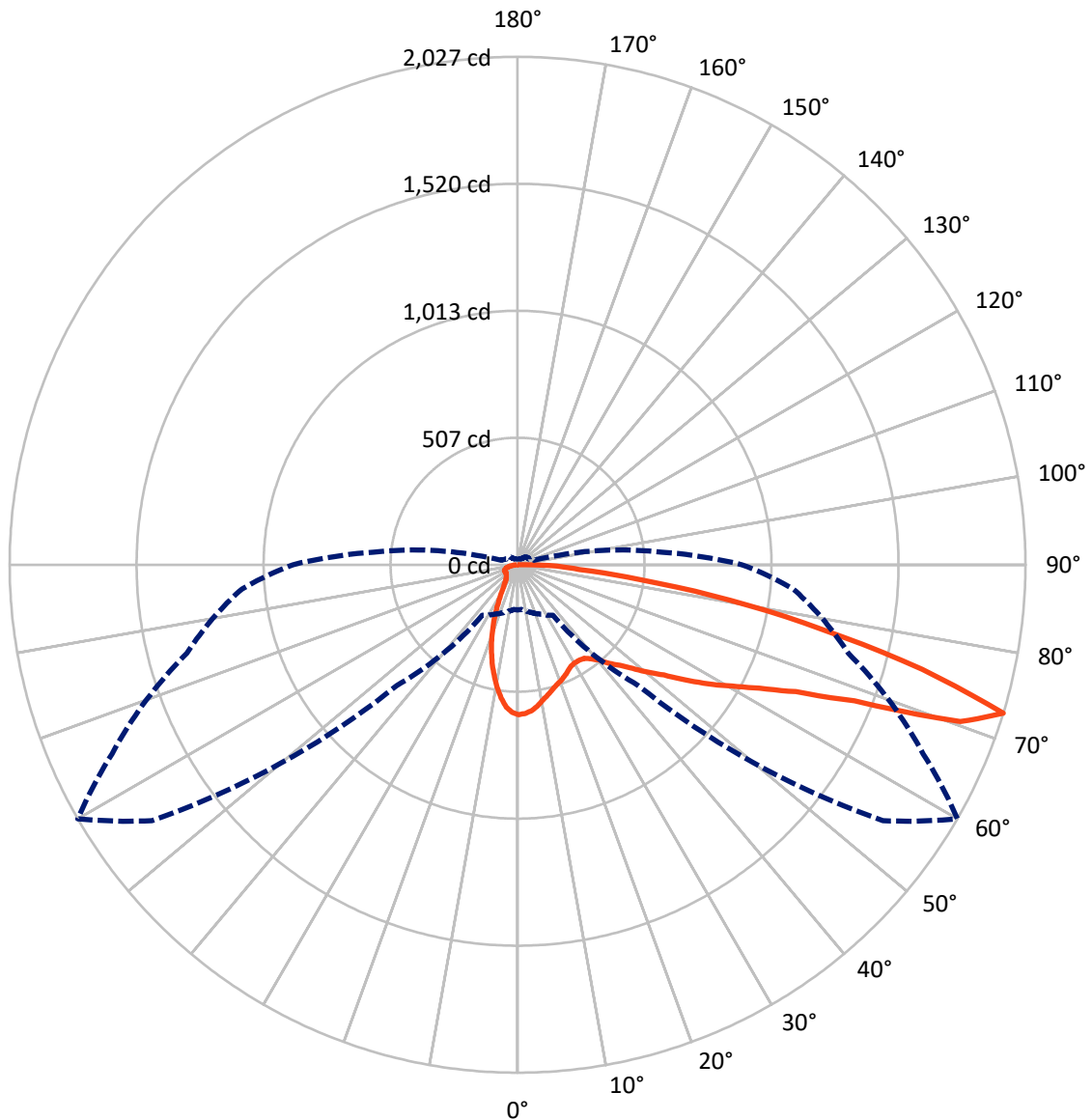
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	369.2	0.0	369.2
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	1780.2	0.0	1780.2
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	2149.4	0.0	2149.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.9	2.4
10°-20°	117.6	5.5
20°-30°	150.6	7.0
30°-40°	192.6	9.0
40°-50°	264.1	12.3
50°-60°	382.1	17.8
60°-70°	524.1	24.4
70°-80°	393.3	18.3
80°-90°	73.1	3.4
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°	2149.4	100.0
0°-180°	2149.4	100.0

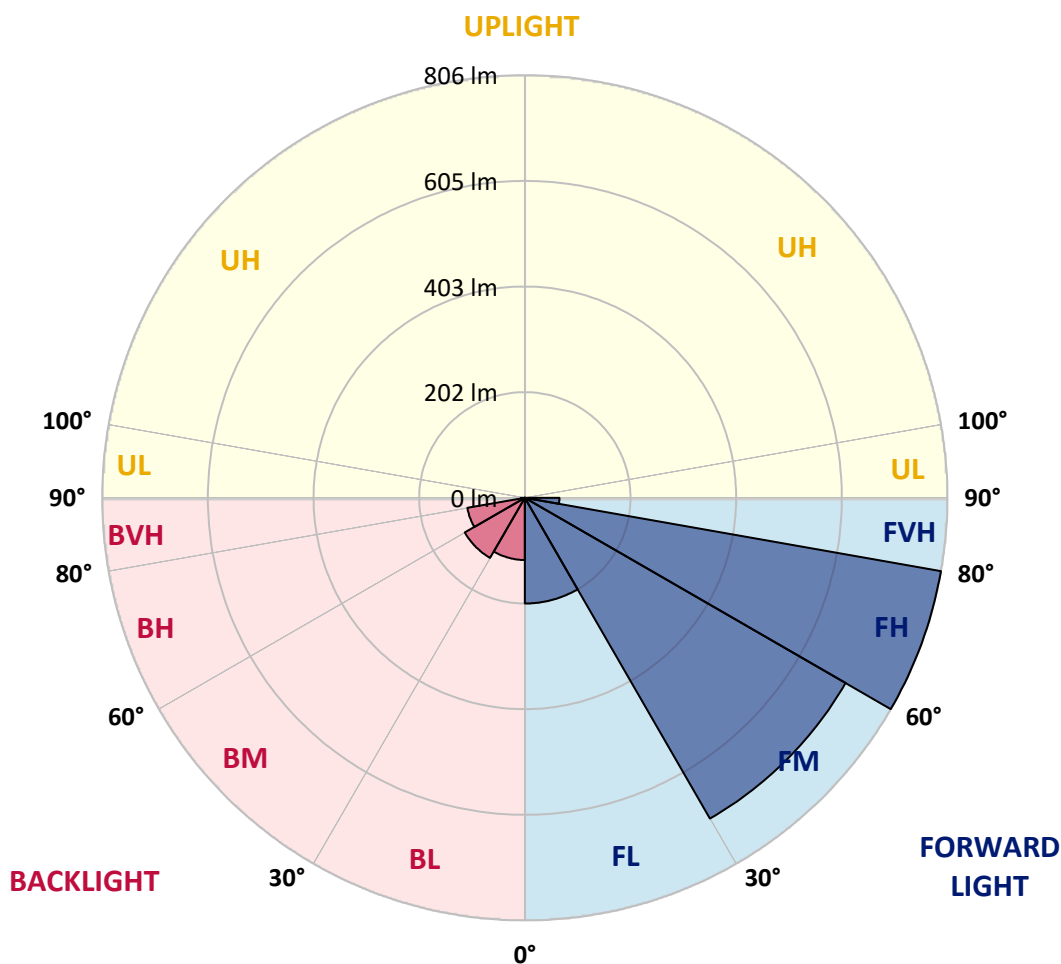


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	201.5	9.4			
FM (30°-60°)	706.5	32.9			
FH (60°-80°)	806.2	37.5			G1/1800
FVH (80°-90°)	66.0	3.1			G1/100
BL (0°-30°)	118.5	5.5	B1/500		
BM (30°-60°)	132.3	6.2	B0/220		
BH (60°-80°)	111.3	5.2	B1/500		G1/500
BVH (80°-90°)	7.1	0.3			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5
2.5°	585.7	591.3	592.9	592.9	597.7	592.1	600.1	593.7	595.3	597.7	596.1
5°	557.7	567.3	561.7	572.1	568.1	575.3	584.9	584.9	582.5	587.3	583.3
7.5°	530.5	527.3	536.9	536.9	543.3	552.9	560.9	568.9	569.7	571.3	570.5
10°	493.7	497.7	502.5	508.9	516.9	526.5	543.3	549.7	551.3	560.9	558.5
12.5°	463.3	468.9	472.1	484.9	492.1	505.7	524.9	533.7	534.5	548.1	548.1
15°	440.9	444.1	451.3	456.1	472.1	491.3	509.7	517.7	526.5	540.9	536.9
17.5°	425.7	429.7	432.9	439.3	454.5	470.5	499.3	504.1	514.5	535.3	530.5
20°	416.9	417.7	422.5	426.5	440.1	455.3	480.9	493.7	507.3	525.7	520.9
22.5°	418.5	415.3	414.5	420.1	422.5	436.9	468.1	481.7	500.9	522.5	514.5
25°	421.7	422.5	420.9	416.1	416.9	429.7	450.5	468.1	489.7	521.7	505.7
27.5°	429.7	433.7	427.3	422.5	417.7	422.5	444.1	456.9	480.9	525.7	504.9
30°	437.7	441.7	440.1	432.9	423.3	421.7	436.9	452.9	476.1	528.9	504.9
32.5°	449.7	455.3	449.7	452.1	440.9	433.7	439.3	453.7	480.9	540.1	505.7
35°	463.3	468.1	469.7	464.1	461.7	448.1	451.3	458.5	485.7	552.9	513.7
37.5°	478.5	484.1	488.9	489.7	481.7	473.7	472.1	476.1	497.7	575.3	522.5
40°	488.9	492.1	501.7	509.7	512.1	500.9	500.1	500.1	519.3	595.3	538.5
42.5°	506.5	504.9	518.5	532.9	536.9	530.5	532.1	538.5	549.7	624.1	564.1
45°	515.3	513.7	529.7	553.7	572.1	568.9	570.5	572.9	583.3	669.7	607.3
47.5°	527.3	528.9	552.1	579.3	598.5	609.7	618.5	617.7	625.7	716.1	655.3
50°	539.3	542.5	570.5	599.3	632.9	652.1	664.9	673.7	681.7	764.9	710.5
52.5°	562.5	565.7	596.9	628.1	671.3	699.3	731.3	730.5	731.3	813.7	765.7
55°	596.1	596.9	615.3	651.3	709.7	760.9	804.9	809.7	796.1	874.5	828.9
57.5°	634.5	637.7	653.7	680.9	740.1	820.1	887.4	897.0	860.1	924.2	886.6
60°	670.5	672.9	697.7	728.9	792.9	894.6	970.6	981.8	941.8	985.0	946.6
62.5°	629.7	641.7	685.7	756.9	885.8	1007.4	1076.2	1083.4	1021.0	1046.6	1010.6
65°	504.1	512.1	575.3	690.5	892.2	1212.2	1239.4	1220.2	1129.8	1125.8	1107.4
67.5°	280.8	287.2	330.5	451.3	751.3	1289.0	1590.7	1449.8	1298.6	1245.0	1238.6
70°	221.6	223.2	228.8	253.6	416.9	1136.2	1867.5	1873.9	1574.7	1409.0	1266.6
72.5°	180.0	179.2	196.0	217.6	246.4	681.7	1780.3	2026.7	1785.9	1365.8	1103.4
75°	137.6	140.0	161.6	192.8	225.6	320.9	1328.2	1667.5	1673.1	1273.0	930.6
77.5°	104.8	105.6	129.6	170.4	220.8	226.4	866.5	1242.6	1248.2	985.8	512.9
80°	78.4	78.4	98.4	144.0	215.2	208.8	533.7	861.7	780.1	346.5	112.0
82.5°	44.8	48.0	65.6	109.6	195.2	200.8	300.9	493.7	329.7	94.4	52.0
85°	24.0	24.8	40.0	73.6	160.8	192.0	229.6	245.6	131.2	50.4	24.0
87.5°	8.8	8.8	18.4	37.6	101.6	142.4	182.4	156.8	75.2	23.2	12.0
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°	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5
2.5°	597.7	594.5	592.1	594.5	585.7	581.7	586.5	584.1	579.3	576.9	575.3
5°	585.7	581.7	577.7	575.3	565.7	556.1	551.3	541.7	533.7	536.1	531.3
7.5°	572.9	568.9	556.9	545.7	526.5	507.3	498.5	484.9	480.1	476.1	473.7
10°	556.9	549.7	531.3	508.9	480.9	459.3	436.9	420.9	404.1	396.9	399.3
12.5°	536.9	532.9	504.1	469.7	430.5	394.5	368.1	342.5	320.1	308.1	304.9
15°	528.1	516.1	474.5	428.9	379.3	334.5	295.3	250.4	224.0	211.2	211.2
17.5°	518.5	496.1	446.5	384.1	327.3	269.6	214.4	173.6	152.8	145.6	145.6
20°	503.3	478.5	413.7	341.7	272.8	203.2	153.6	131.2	124.8	120.0	120.8
22.5°	492.1	461.7	383.3	300.1	216.0	151.2	120.8	113.6	111.2	109.6	110.4
25°	479.3	441.7	351.3	255.2	169.6	119.2	104.8	101.6	103.2	104.0	104.0
27.5°	468.9	424.9	318.5	207.2	128.0	100.8	94.4	93.6	96.8	98.4	99.2
30°	461.7	409.7	286.4	163.2	102.4	89.6	86.4	86.4	90.4	92.0	92.8
32.5°	454.5	396.9	252.0	124.8	87.2	80.0	79.2	80.0	82.4	82.4	83.2
35°	456.9	384.9	219.2	100.8	78.4	73.6	73.6	73.6	74.4	75.2	75.2
37.5°	461.7	381.7	184.0	84.8	72.0	68.8	68.8	68.0	68.8	68.0	68.8
40°	466.5	376.9	152.0	75.2	68.0	65.6	64.8	63.2	62.4	62.4	63.2
42.5°	486.5	383.3	124.8	68.8	64.8	63.2	60.8	59.2	58.4	58.4	58.4
45°	512.1	395.3	103.2	65.6	62.4	58.4	56.8	56.0	54.4	55.2	56.0
47.5°	550.5	413.7	90.4	63.2	60.0	55.2	53.6	52.0	52.0	53.6	53.6
50°	600.9	444.1	82.4	60.8	57.6	52.8	50.4	49.6	49.6	52.0	52.0
52.5°	655.3	479.3	79.2	60.0	55.2	50.4	48.0	47.2	47.2	50.4	50.4
55°	709.7	522.5	81.6	60.0	53.6	48.0	45.6	44.0	44.8	47.2	47.2
57.5°	769.7	568.9	93.6	60.0	52.0	47.2	44.0	41.6	42.4	43.2	43.2
60°	835.3	629.7	114.4	60.0	51.2	45.6	41.6	38.4	38.4	39.2	39.2
62.5°	901.8	689.7	144.0	60.8	52.0	44.8	38.4	35.2	34.4	35.2	35.2
65°	989.0	785.7	173.6	60.8	54.4	43.2	36.0	32.0	31.2	31.2	32.0
67.5°	1111.4	854.5	134.4	58.4	56.0	43.2	33.6	29.6	28.0	28.0	28.0
70°	1046.6	720.9	85.6	54.4	53.6	44.8	32.0	27.2	25.6	24.8	24.8
72.5°	896.2	576.9	68.8	51.2	49.6	44.0	30.4	25.6	23.2	22.4	22.4
75°	718.5	455.3	60.0	46.4	43.2	36.8	28.0	23.2	21.6	20.0	20.0
77.5°	352.1	190.4	45.6	40.8	36.8	28.0	24.8	21.6	19.2	17.6	17.6
80°	88.0	66.4	33.6	32.0	27.2	21.6	20.0	18.4	16.8	15.2	15.2
82.5°	47.2	39.2	24.0	21.6	18.4	15.2	15.2	14.4	13.6	12.0	11.2
85°	24.0	23.2	16.0	14.4	12.0	9.6	10.4	10.4	9.6	7.2	7.2
87.5°	12.8	12.8	8.0	6.4	5.6	4.8	4.8	4.8	4.0	3.2	3.2
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)