

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: P675588

Luminaire Tested: **CCW-SA-1B-827-U-SL3**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675588  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1B-827-U-SL3  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
SL3 distribution lens  
Light Source: (16) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

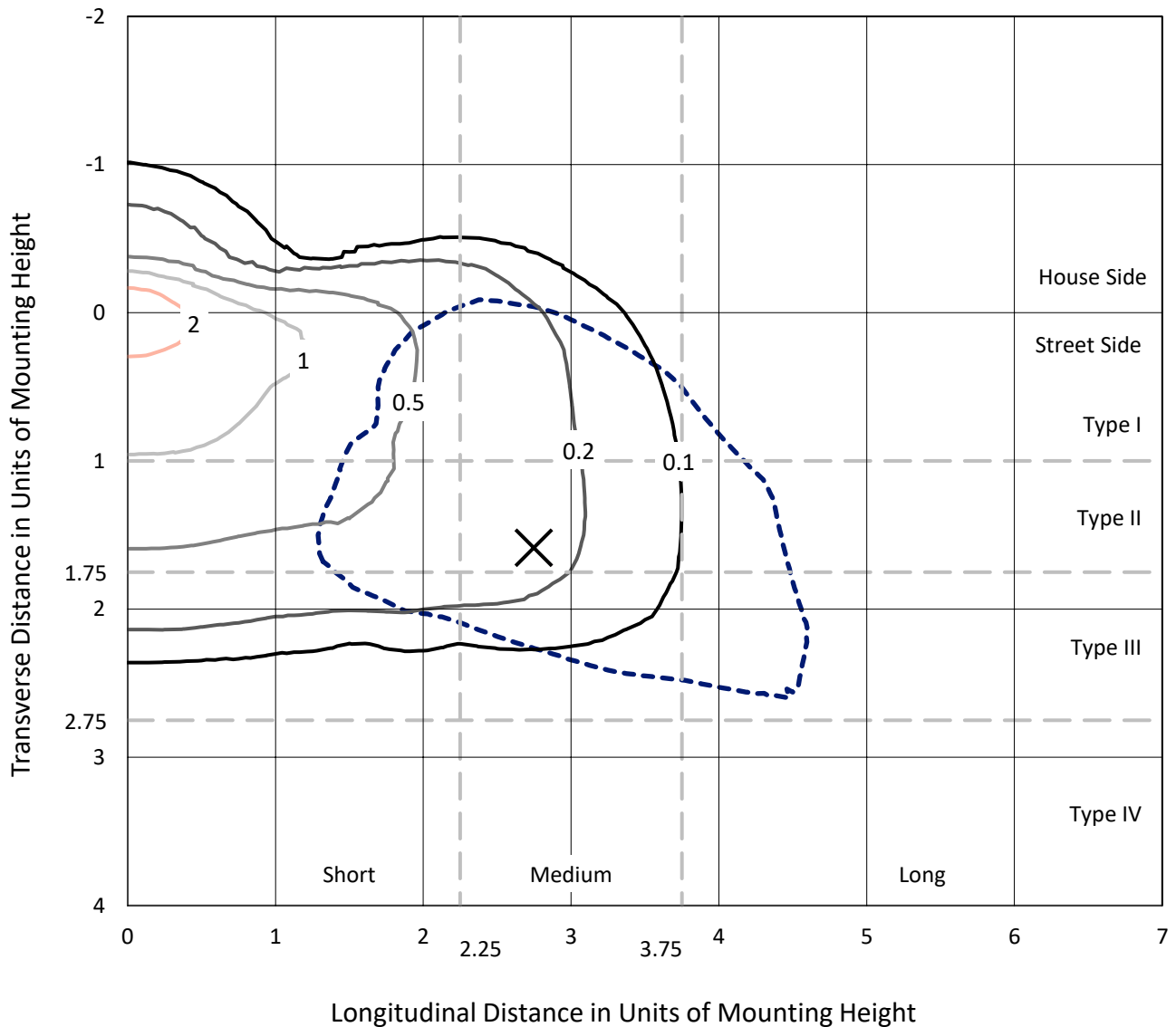
Lumens per Lamp: N/A  
Luminaire Lumens: 2510.1 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 24  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

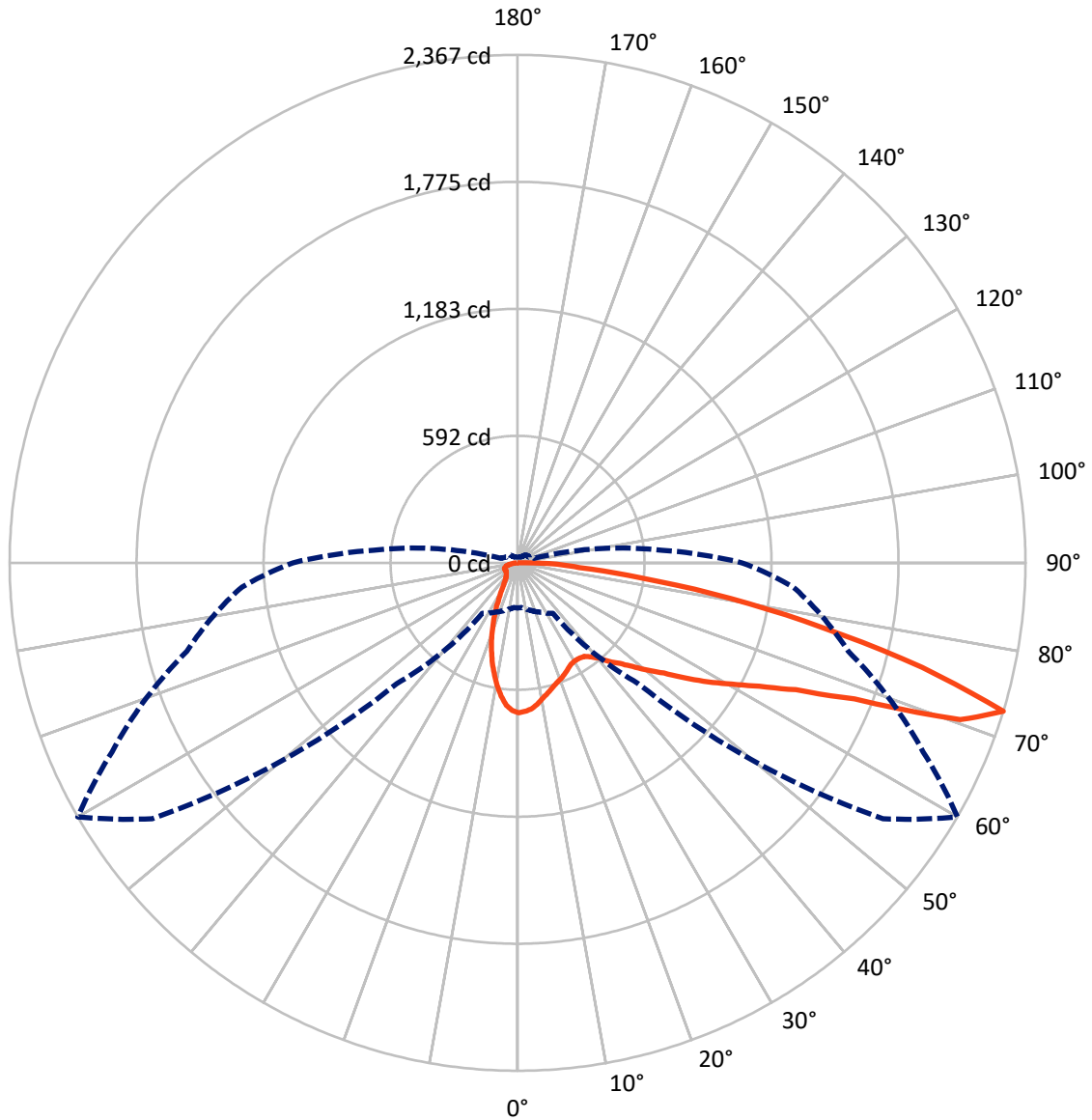
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.1 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	431.2	0.0	431.2
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	2078.9	0.0	2078.9
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	2510.1	0.0	2510.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.6	2.4
10°-20°	137.4	5.5
20°-30°	175.8	7.0
30°-40°	224.9	9.0
40°-50°	308.5	12.3
50°-60°	446.2	17.8
60°-70°	612.1	24.4
70°-80°	459.3	18.3
80°-90°	85.4	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°	2510.1	100.0
0°-180°	2510.1	100.0

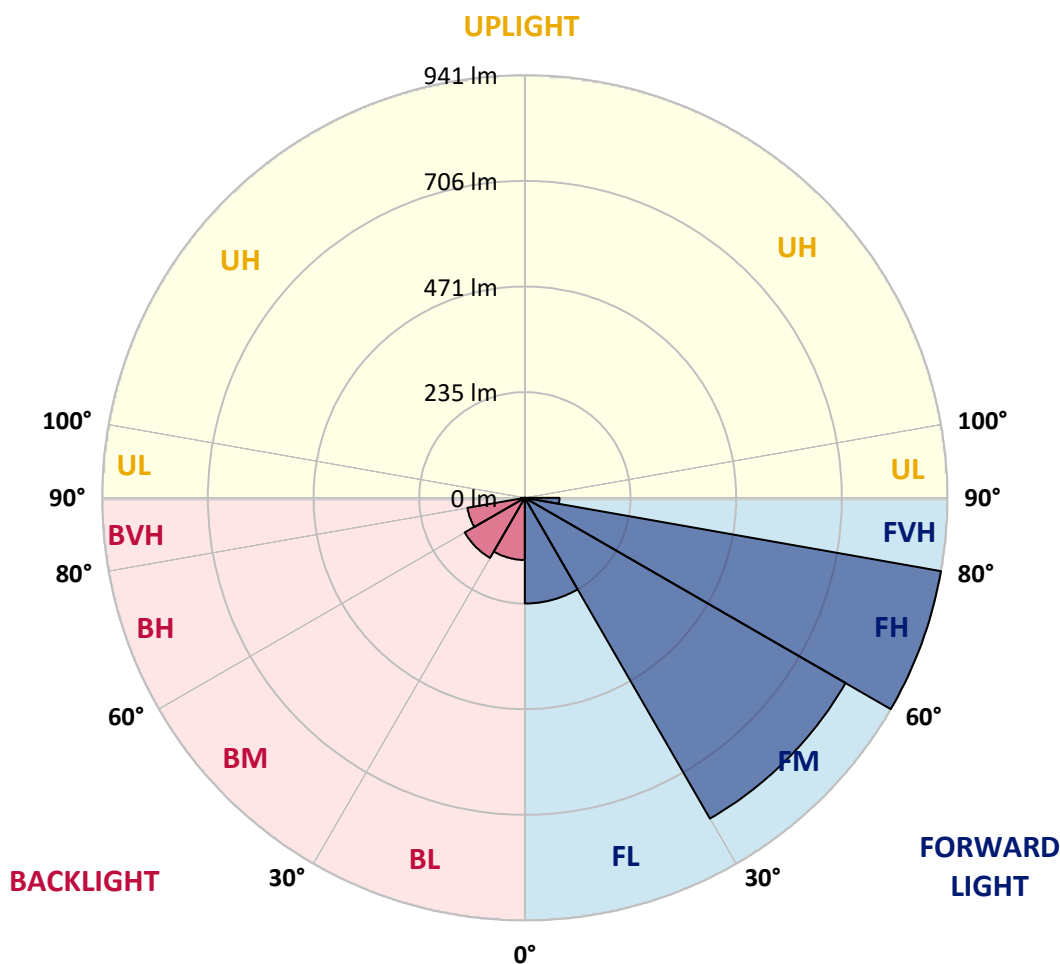


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	235.4	9.4			
FM (30°-60°)	825.1	32.9			
FH (60°-80°)	941.5	37.5			G1/1800
FVH (80°-90°)	77.1	3.1			G1/100
BL (0°-30°)	138.4	5.5	B1/500		
BM (30°-60°)	154.5	6.2	B0/220		
BH (60°-80°)	129.9	5.2	B1/500		G1/500
BVH (80°-90°)	8.3	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°	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
2.5°	684.0	690.5	692.4	692.4	698.0	691.5	700.8	693.3	695.2	698.0	696.2
5°	651.3	662.5	656.0	668.1	663.4	671.9	683.1	683.1	680.3	685.9	681.2
7.5°	619.5	615.8	627.0	627.0	634.5	645.7	655.0	664.4	665.3	667.2	666.2
10°	576.5	581.2	586.8	594.3	603.6	614.9	634.5	642.0	643.8	655.0	652.2
12.5°	541.0	547.6	551.3	566.3	574.7	590.6	613.0	623.3	624.2	640.1	640.1
15°	514.9	518.6	527.0	532.6	551.3	573.7	595.2	604.6	614.9	631.7	627.0
17.5°	497.1	501.8	505.5	513.0	530.8	549.4	583.1	588.7	600.8	625.1	619.5
20°	486.8	487.8	493.4	498.1	513.9	531.7	561.6	576.5	592.4	613.9	608.3
22.5°	488.7	485.0	484.0	490.6	493.4	510.2	546.6	562.5	585.0	610.2	600.8
25°	492.4	493.4	491.5	485.9	486.8	501.8	526.1	546.6	571.9	609.2	590.6
27.5°	501.8	506.5	499.0	493.4	487.8	493.4	518.6	533.6	561.6	613.9	589.6
30°	511.1	515.8	513.9	505.5	494.3	492.4	510.2	528.9	556.0	617.7	589.6
32.5°	525.2	531.7	525.2	528.0	514.9	506.5	513.0	529.8	561.6	630.7	590.6
35°	541.0	546.6	548.5	542.0	539.2	523.3	527.0	535.4	567.2	645.7	599.9
37.5°	558.8	565.3	570.9	571.9	562.5	553.2	551.3	556.0	581.2	671.9	610.2
40°	570.9	574.7	585.9	595.2	598.0	585.0	584.0	584.0	606.4	695.2	628.9
42.5°	591.5	589.6	605.5	622.3	627.0	619.5	621.4	628.9	642.0	728.9	658.8
45°	601.8	599.9	618.6	646.6	668.1	664.4	666.2	669.1	681.2	782.1	709.2
47.5°	615.8	617.7	644.8	676.5	699.0	712.0	722.3	721.4	730.7	836.3	765.3
50°	629.8	633.5	666.2	699.9	739.1	761.6	776.5	786.8	796.1	893.3	829.8
52.5°	656.9	660.6	697.1	733.5	784.0	816.7	854.1	853.1	854.1	950.3	894.3
55°	696.2	697.1	718.6	760.6	828.8	888.6	940.0	945.6	929.8	1021.3	968.1
57.5°	741.0	744.7	763.4	795.2	864.3	957.8	1036.3	1047.5	1004.5	1079.3	1035.3
60°	783.1	785.9	814.8	851.3	926.0	1044.7	1133.5	1146.5	1099.8	1150.3	1105.4
62.5°	735.4	749.4	800.8	884.0	1034.4	1176.4	1256.8	1265.2	1192.3	1222.2	1180.2
65°	588.7	598.0	671.9	806.4	1041.9	1415.7	1447.4	1425.0	1319.4	1314.7	1293.3
67.5°	328.0	335.5	385.9	527.0	877.4	1505.4	1857.6	1693.2	1516.6	1454.0	1446.5
70°	258.8	260.7	267.2	296.2	486.8	1326.9	2181.0	2188.4	1839.0	1645.5	1479.2
72.5°	210.2	209.3	228.9	254.2	287.8	796.1	2079.1	2366.9	2085.6	1595.1	1288.6
75°	160.7	163.5	188.8	225.2	263.5	374.7	1551.2	1947.4	1953.9	1486.7	1086.7
77.5°	122.4	123.3	151.4	199.0	257.9	264.4	1012.0	1451.2	1457.7	1151.2	599.0
80°	91.6	91.6	114.9	168.2	251.4	243.9	623.3	1006.4	911.1	404.6	130.8
82.5°	52.3	56.1	76.6	128.0	228.0	234.5	351.3	576.5	385.0	110.3	60.7
85°	28.0	29.0	46.7	86.0	187.8	224.3	268.2	286.9	153.2	58.9	28.0
87.5°	10.3	10.3	21.5	43.9	118.7	166.3	213.1	183.1	87.8	27.1	14.0
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°	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
2.5°	698.0	694.3	691.5	694.3	684.0	679.3	684.9	682.1	676.5	673.7	671.9
5°	684.0	679.3	674.7	671.9	660.6	649.4	643.8	632.6	623.3	626.1	620.5
7.5°	669.1	664.4	650.4	637.3	614.9	592.4	582.2	566.3	560.7	556.0	553.2
10°	650.4	642.0	620.5	594.3	561.6	536.4	510.2	491.5	471.9	463.5	466.3
12.5°	627.0	622.3	588.7	548.5	502.7	460.7	429.8	399.9	373.8	359.8	356.0
15°	616.7	602.7	554.1	500.9	442.9	390.6	344.8	292.5	261.6	246.7	246.7
17.5°	605.5	579.3	521.4	448.5	382.2	314.9	250.4	202.8	178.5	170.1	170.1
20°	587.8	558.8	483.1	399.0	318.6	237.3	179.4	153.2	145.8	140.2	141.1
22.5°	574.7	539.2	447.6	350.4	252.3	176.6	141.1	132.7	129.9	128.0	129.0
25°	559.7	515.8	410.2	298.1	198.1	139.2	122.4	118.7	120.5	121.5	121.5
27.5°	547.6	496.2	371.9	242.0	149.5	117.7	110.3	109.3	113.1	114.9	115.9
30°	539.2	478.4	334.5	190.6	119.6	104.7	100.9	100.9	105.6	107.5	108.4
32.5°	530.8	463.5	294.3	145.8	101.9	93.4	92.5	93.4	96.2	96.2	97.2
35°	533.6	449.5	256.0	117.7	91.6	86.0	86.0	86.0	86.9	87.8	87.8
37.5°	539.2	445.7	214.9	99.0	84.1	80.4	80.4	79.4	80.4	79.4	80.4
40°	544.8	440.1	177.5	87.8	79.4	76.6	75.7	73.8	72.9	72.9	73.8
42.5°	568.1	447.6	145.8	80.4	75.7	73.8	71.0	69.1	68.2	68.2	68.2
45°	598.0	461.6	120.5	76.6	72.9	68.2	66.3	65.4	63.5	64.5	65.4
47.5°	642.9	483.1	105.6	73.8	70.1	64.5	62.6	60.7	60.7	62.6	62.6
50°	701.8	518.6	96.2	71.0	67.3	61.7	58.9	57.9	57.9	60.7	60.7
52.5°	765.3	559.7	92.5	70.1	64.5	58.9	56.1	55.1	55.1	58.9	58.9
55°	828.8	610.2	95.3	70.1	62.6	56.1	53.3	51.4	52.3	55.1	55.1
57.5°	898.9	664.4	109.3	70.1	60.7	55.1	51.4	48.6	49.5	50.5	50.5
60°	975.5	735.4	133.6	70.1	59.8	53.3	48.6	44.9	44.9	45.8	45.8
62.5°	1053.1	805.5	168.2	71.0	60.7	52.3	44.9	41.1	40.2	41.1	41.1
65°	1155.0	917.6	202.8	71.0	63.5	50.5	42.0	37.4	36.4	36.4	37.4
67.5°	1297.9	998.0	157.0	68.2	65.4	50.5	39.2	34.6	32.7	32.7	32.7
70°	1222.2	841.9	100.0	63.5	62.6	52.3	37.4	31.8	29.9	29.0	29.0
72.5°	1046.6	673.7	80.4	59.8	57.9	51.4	35.5	29.9	27.1	26.2	26.2
75°	839.1	531.7	70.1	54.2	50.5	43.0	32.7	27.1	25.2	23.4	23.4
77.5°	411.1	222.4	53.3	47.7	43.0	32.7	29.0	25.2	22.4	20.6	20.6
80°	102.8	77.6	39.2	37.4	31.8	25.2	23.4	21.5	19.6	17.8	17.8
82.5°	55.1	45.8	28.0	25.2	21.5	17.8	17.8	16.8	15.9	14.0	13.1
85°	28.0	27.1	18.7	16.8	14.0	11.2	12.1	12.1	11.2	8.4	8.4
87.5°	15.0	15.0	9.3	7.5	6.5	5.6	5.6	5.6	4.7	3.7	3.7
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)