

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: P675599

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675599  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1B-830-U-SL3  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
SL3 distribution lens  
Light Source: (16) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

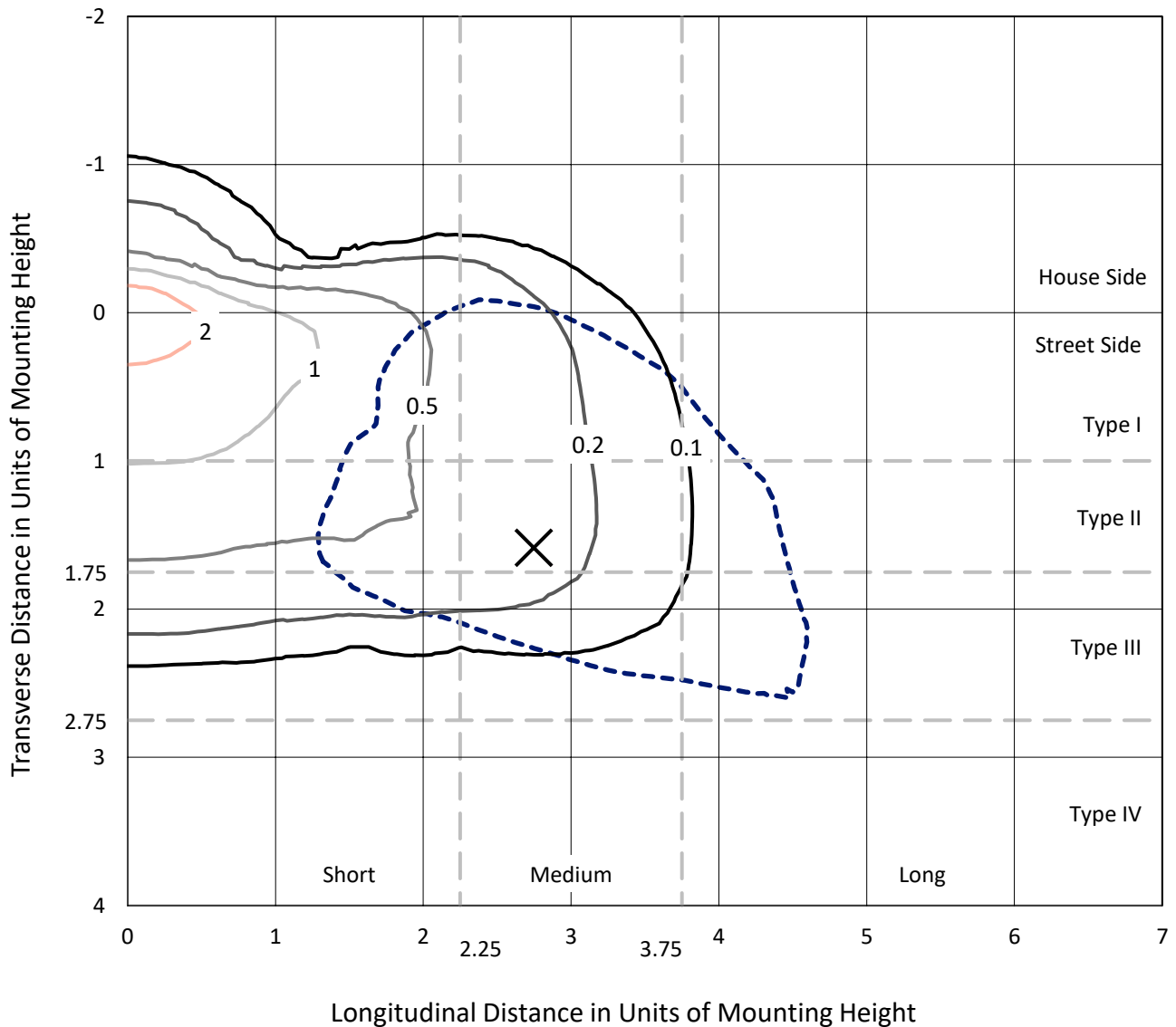
Lumens per Lamp: N/A  
Luminaire Lumens: 2713.3 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 24  
Input Voltage (V): 120  
Input Current (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

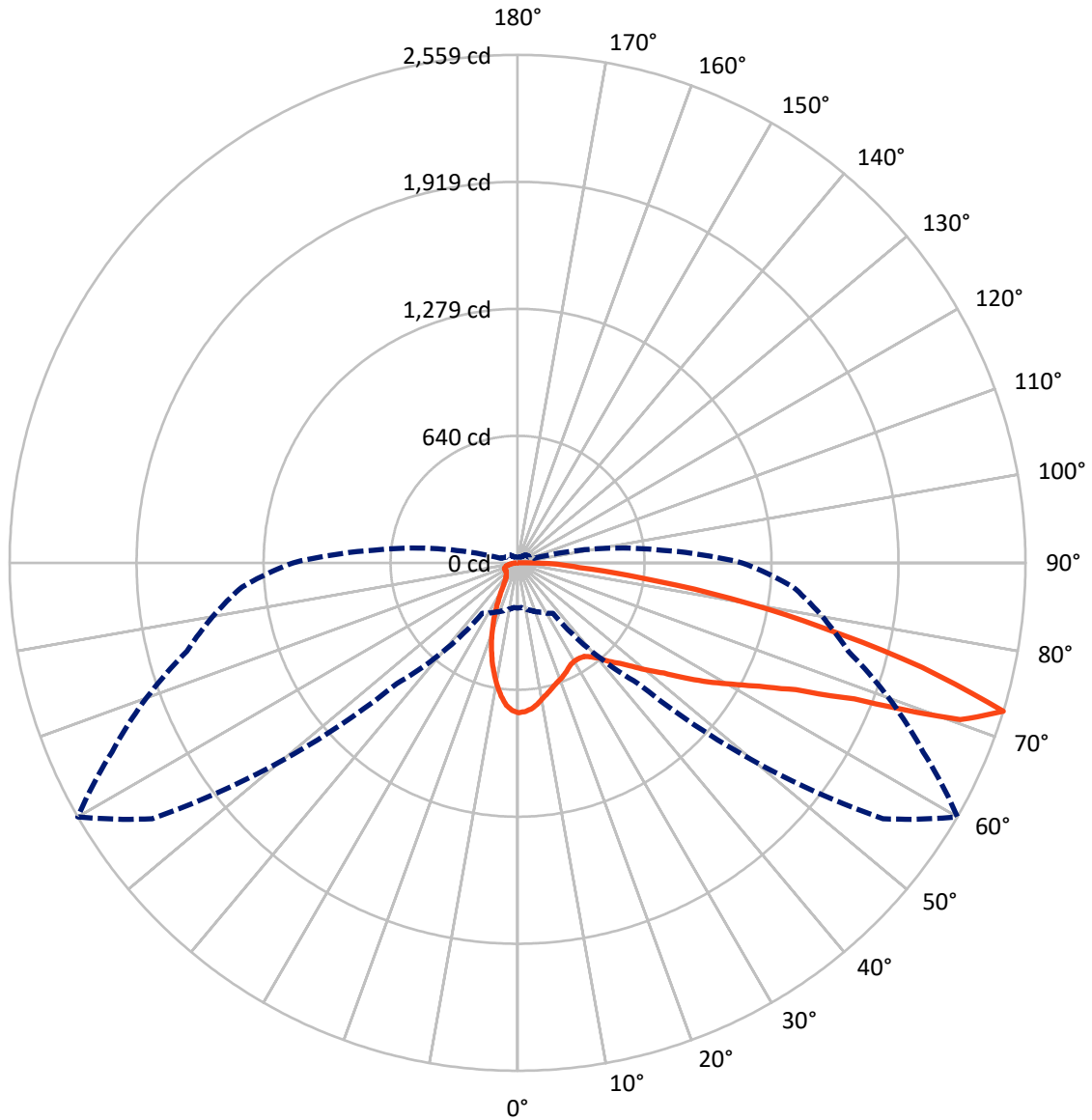
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.4 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	466.1	0.0	466.1
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	2247.2	0.0	2247.2
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	2713.3	0.0	2713.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.5	2.4
10°-20°	148.5	5.5
20°-30°	190.1	7.0
30°-40°	243.1	9.0
40°-50°	333.5	12.3
50°-60°	482.3	17.8
60°-70°	661.6	24.4
70°-80°	496.5	18.3
80°-90°	92.3	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°	2713.3	100.0
0°-180°	2713.3	100.0

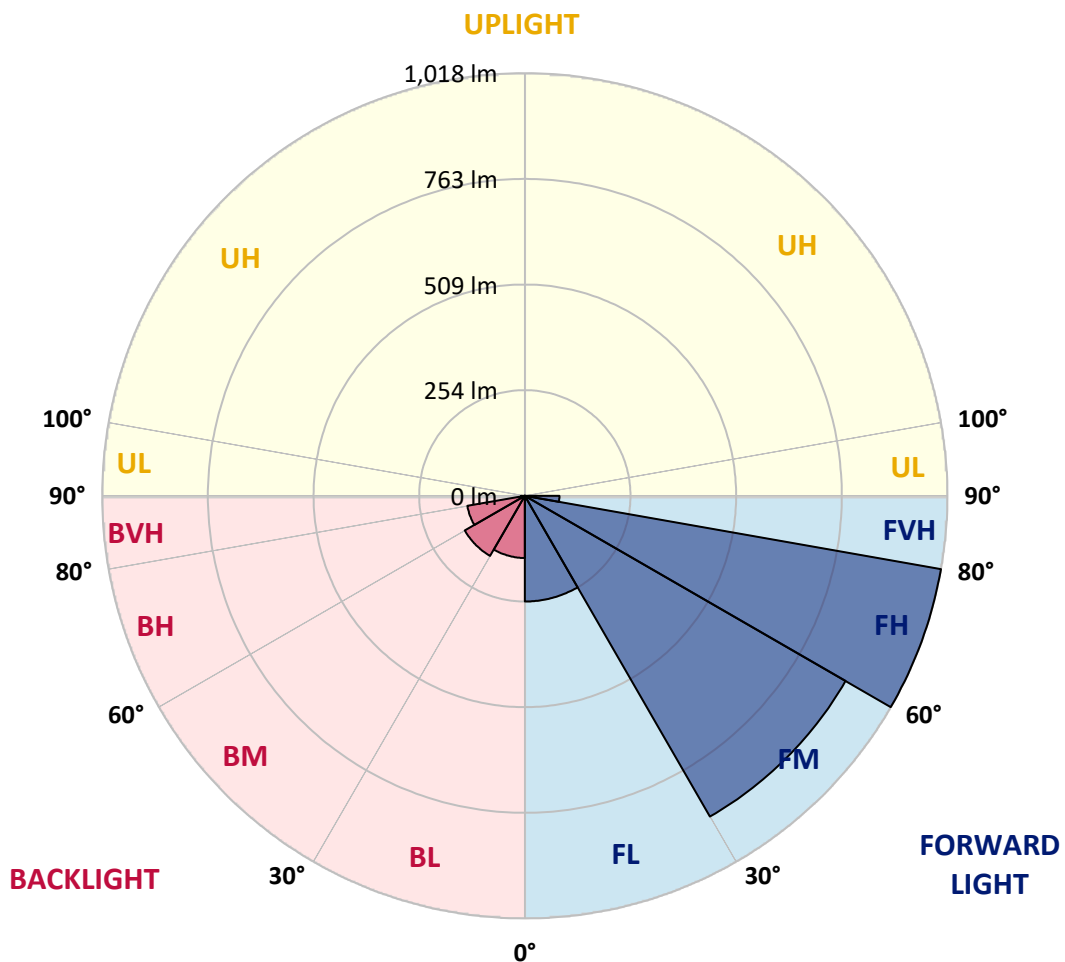


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	254.4	9.4			
FM (30°-60°)	891.9	32.9			
FH (60°-80°)	1017.7	37.5			G1/1800
FVH (80°-90°)	83.3	3.1			G1/100
BL (0°-30°)	149.6	5.5	B1/500		
BM (30°-60°)	167.0	6.2	B0/220		
BH (60°-80°)	140.5	5.2	B1/500		G1/500
BVH (80°-90°)	9.0	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°	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5
2.5°	739.4	746.4	748.5	748.5	754.5	747.4	757.5	749.5	751.5	754.5	752.5
5°	704.0	716.1	709.1	722.2	717.1	726.2	738.4	738.4	735.3	741.4	736.3
7.5°	669.7	665.6	677.8	677.8	685.8	698.0	708.1	718.2	719.2	721.2	720.2
10°	623.2	628.3	634.3	642.4	652.5	664.6	685.8	693.9	695.9	708.1	705.0
12.5°	584.8	591.9	595.9	612.1	621.2	638.4	662.6	673.7	674.7	691.9	691.9
15°	556.5	560.6	569.7	575.7	595.9	620.2	643.4	653.5	664.6	682.8	677.8
17.5°	537.4	542.4	546.4	554.5	573.7	593.9	630.3	636.3	649.5	675.7	669.7
20°	526.2	527.3	533.3	538.4	555.5	574.7	607.0	623.2	640.4	663.6	657.6
22.5°	528.3	524.2	523.2	530.3	533.3	551.5	590.9	608.1	632.3	659.6	649.5
25°	532.3	533.3	531.3	525.2	526.2	542.4	568.7	590.9	618.2	658.6	638.4
27.5°	542.4	547.5	539.4	533.3	527.3	533.3	560.6	576.7	607.0	663.6	637.4
30°	552.5	557.6	555.5	546.4	534.3	532.3	551.5	571.7	601.0	667.7	637.4
32.5°	567.7	574.7	567.7	570.7	556.5	547.5	554.5	572.7	607.0	681.8	638.4
35°	584.8	590.9	592.9	585.8	582.8	565.6	569.7	578.8	613.1	698.0	648.5
37.5°	604.0	611.1	617.1	618.2	608.1	598.0	595.9	601.0	628.3	726.2	659.6
40°	617.1	621.2	633.3	643.4	646.4	632.3	631.3	631.3	655.5	751.5	679.8
42.5°	639.4	637.4	654.5	672.7	677.8	669.7	671.7	679.8	693.9	787.9	712.1
45°	650.5	648.5	668.7	699.0	722.2	718.2	720.2	723.2	736.3	845.4	766.6
47.5°	665.6	667.7	696.9	731.3	755.5	769.7	780.8	779.8	789.9	904.0	827.2
50°	680.8	684.8	720.2	756.5	799.0	823.2	839.4	850.5	860.6	965.6	896.9
52.5°	710.1	714.1	753.5	792.9	847.4	882.8	923.2	922.2	923.2	1027.2	966.6
55°	752.5	753.5	776.7	822.2	895.9	960.6	1016.1	1022.2	1005.0	1104.0	1046.4
57.5°	801.0	805.0	825.2	859.6	934.3	1035.3	1120.2	1132.3	1085.8	1166.6	1119.2
60°	846.4	849.5	880.8	920.2	1001.0	1129.3	1225.2	1239.3	1188.8	1243.4	1194.9
62.5°	794.9	810.1	865.6	955.5	1118.1	1271.7	1358.5	1367.6	1288.8	1321.2	1275.7
65°	636.3	646.4	726.2	871.7	1126.2	1530.2	1564.6	1540.3	1426.2	1421.2	1397.9
67.5°	354.5	362.6	417.2	569.7	948.5	1627.2	2008.0	1830.2	1639.3	1571.7	1563.6
70°	279.8	281.8	288.9	320.2	526.2	1434.3	2357.5	2365.6	1987.8	1778.7	1598.9
72.5°	227.3	226.3	247.5	274.7	311.1	860.6	2247.4	2558.5	2254.5	1724.2	1392.9
75°	173.7	176.8	204.0	243.4	284.8	405.0	1676.7	2105.0	2112.0	1607.0	1174.7
77.5°	132.3	133.3	163.6	215.1	278.8	285.8	1093.9	1568.6	1575.7	1244.4	647.5
80°	99.0	99.0	124.2	181.8	271.7	263.6	673.7	1087.8	984.8	437.4	141.4
82.5°	56.6	60.6	82.8	138.4	246.5	253.5	379.8	623.2	416.1	119.2	65.7
85°	30.3	31.3	50.5	92.9	203.0	242.4	289.9	310.1	165.7	63.6	30.3
87.5°	11.1	11.1	23.2	47.5	128.3	179.8	230.3	198.0	94.9	29.3	15.2
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°	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5
2.5°	754.5	750.5	747.4	750.5	739.4	734.3	740.4	737.3	731.3	728.3	726.2
5°	739.4	734.3	729.3	726.2	714.1	702.0	695.9	683.8	673.7	676.7	670.7
7.5°	723.2	718.2	703.0	688.9	664.6	640.4	629.3	612.1	606.0	601.0	598.0
10°	703.0	693.9	670.7	642.4	607.0	579.8	551.5	531.3	510.1	501.0	504.0
12.5°	677.8	672.7	636.3	592.9	543.4	498.0	464.6	432.3	404.0	388.9	384.8
15°	666.6	651.5	599.0	541.4	478.8	422.2	372.7	316.2	282.8	266.7	266.7
17.5°	654.5	626.2	563.6	484.8	413.1	340.4	270.7	219.2	192.9	183.8	183.8
20°	635.3	604.0	522.2	431.3	344.4	256.6	193.9	165.7	157.6	151.5	152.5
22.5°	621.2	582.8	483.8	378.8	272.7	190.9	152.5	143.4	140.4	138.4	139.4
25°	605.0	557.6	443.4	322.2	214.1	150.5	132.3	128.3	130.3	131.3	131.3
27.5°	591.9	536.3	402.0	261.6	161.6	127.3	119.2	118.2	122.2	124.2	125.2
30°	582.8	517.2	361.6	206.1	129.3	113.1	109.1	109.1	114.1	116.2	117.2
32.5°	573.7	501.0	318.2	157.6	110.1	101.0	100.0	101.0	104.0	104.0	105.0
35°	576.7	485.8	276.8	127.3	99.0	92.9	92.9	92.9	93.9	94.9	94.9
37.5°	582.8	481.8	232.3	107.1	90.9	86.9	86.9	85.9	86.9	85.9	86.9
40°	588.9	475.7	191.9	94.9	85.9	82.8	81.8	79.8	78.8	78.8	79.8
42.5°	614.1	483.8	157.6	86.9	81.8	79.8	76.8	74.7	73.7	73.7	73.7
45°	646.4	499.0	130.3	82.8	78.8	73.7	71.7	70.7	68.7	69.7	70.7
47.5°	694.9	522.2	114.1	79.8	75.8	69.7	67.7	65.7	65.7	67.7	67.7
50°	758.6	560.6	104.0	76.8	72.7	66.7	63.6	62.6	62.6	65.7	65.7
52.5°	827.2	605.0	100.0	75.8	69.7	63.6	60.6	59.6	59.6	63.6	63.6
55°	895.9	659.6	103.0	75.8	67.7	60.6	57.6	55.6	56.6	59.6	59.6
57.5°	971.7	718.2	118.2	75.8	65.7	59.6	55.6	52.5	53.5	54.5	54.5
60°	1054.5	794.9	144.4	75.8	64.6	57.6	52.5	48.5	48.5	49.5	49.5
62.5°	1138.3	870.7	181.8	76.8	65.7	56.6	48.5	44.4	43.4	44.4	44.4
65°	1248.4	991.9	219.2	76.8	68.7	54.5	45.5	40.4	39.4	39.4	40.4
67.5°	1403.0	1078.7	169.7	73.7	70.7	54.5	42.4	37.4	35.4	35.4	35.4
70°	1321.2	910.1	108.1	68.7	67.7	56.6	40.4	34.3	32.3	31.3	31.3
72.5°	1131.3	728.3	86.9	64.6	62.6	55.6	38.4	32.3	29.3	28.3	28.3
75°	907.0	574.7	75.8	58.6	54.5	46.5	35.4	29.3	27.3	25.3	25.3
77.5°	444.4	240.4	57.6	51.5	46.5	35.4	31.3	27.3	24.2	22.2	22.2
80°	111.1	83.8	42.4	40.4	34.3	27.3	25.3	23.2	21.2	19.2	19.2
82.5°	59.6	49.5	30.3	27.3	23.2	19.2	19.2	18.2	17.2	15.2	14.1
85°	30.3	29.3	20.2	18.2	15.2	12.1	13.1	13.1	12.1	9.1	9.1
87.5°	16.2	16.2	10.1	8.1	7.1	6.1	6.1	6.1	5.1	4.0	4.0
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)