

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: P675011

Luminaire Tested: **CCW-SA-1A-827-U-T3**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675011  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1A-827-U-T3  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/  
T3 distribution lens  
Light Source: (16) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

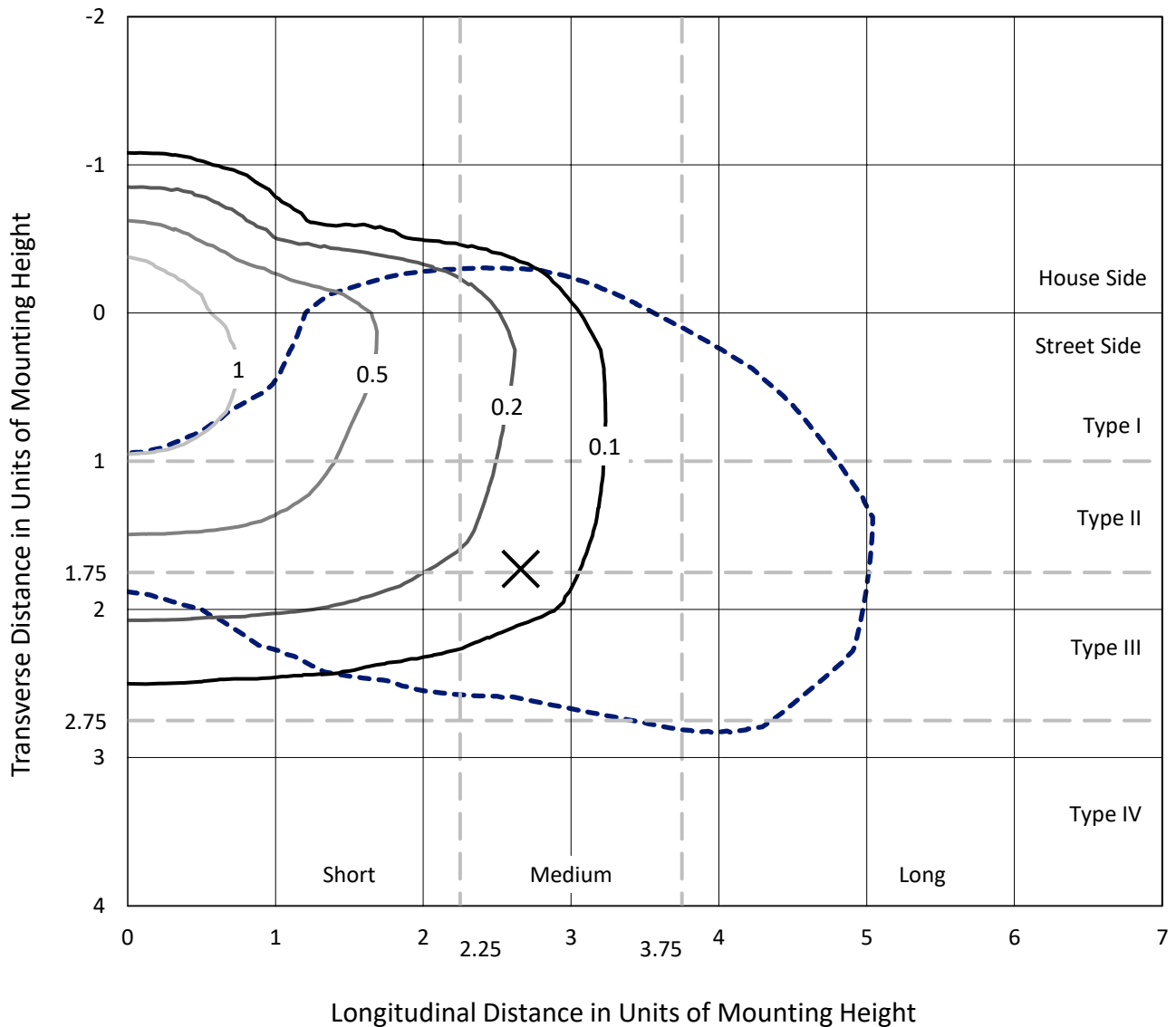
Lumens per Lamp: N/A  
Luminaire Lumens: 2032 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 18  
Input Voltage (V): 120  
Input Current (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

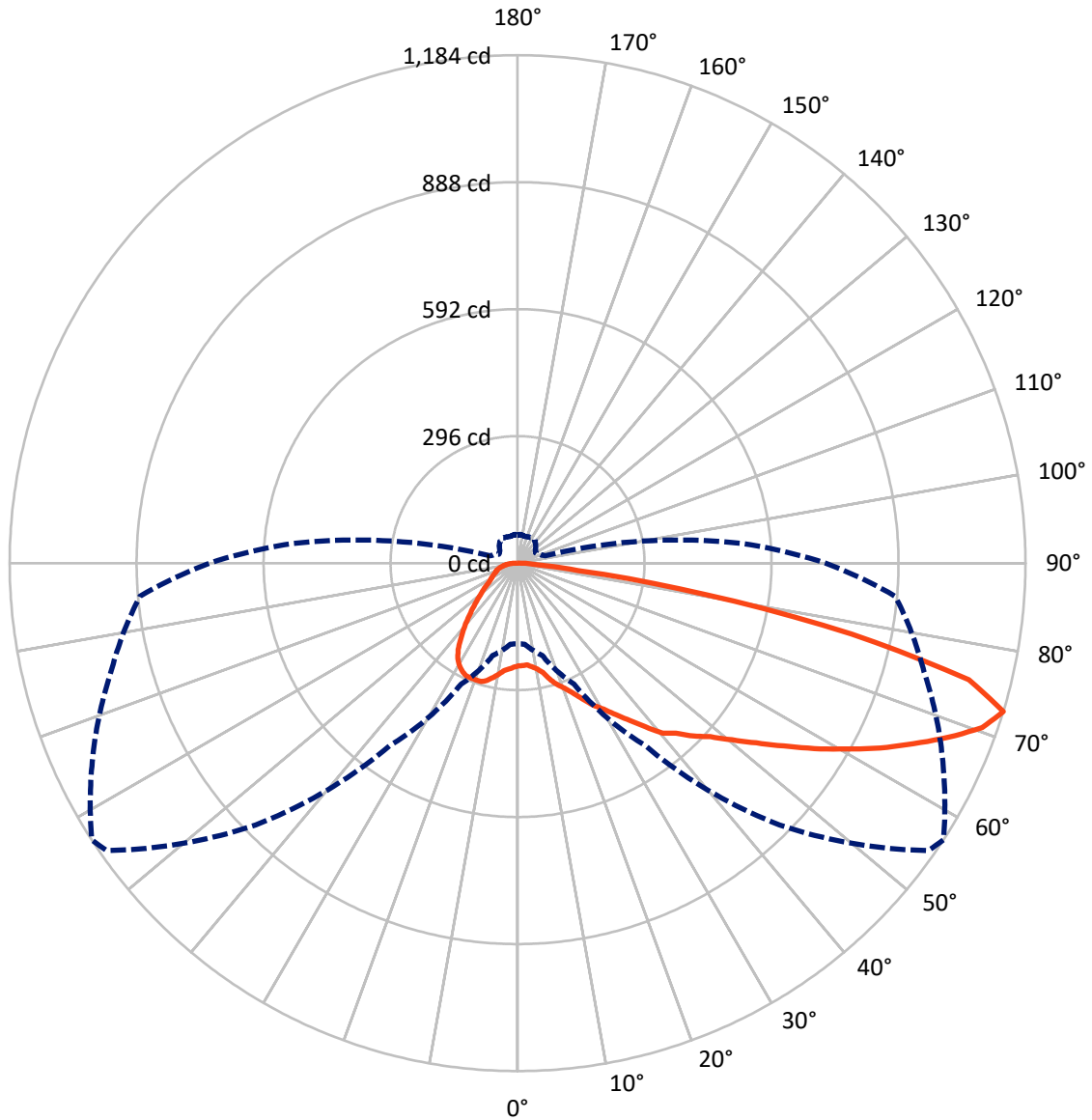
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	474.5	0.0	474.5
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	1557.4	0.0	1557.4
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	2032.0	0.0	2032.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.8	1.2
10°-20°	80.2	3.9
20°-30°	146.7	7.2
30°-40°	215.2	10.6
40°-50°	296.3	14.6
50°-60°	406.3	20.0
60°-70°	489.8	24.1
70°-80°	326.2	16.1
80°-90°	47.5	2.3
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°	2032.0	100.0
0°-180°	2032.0	100.0



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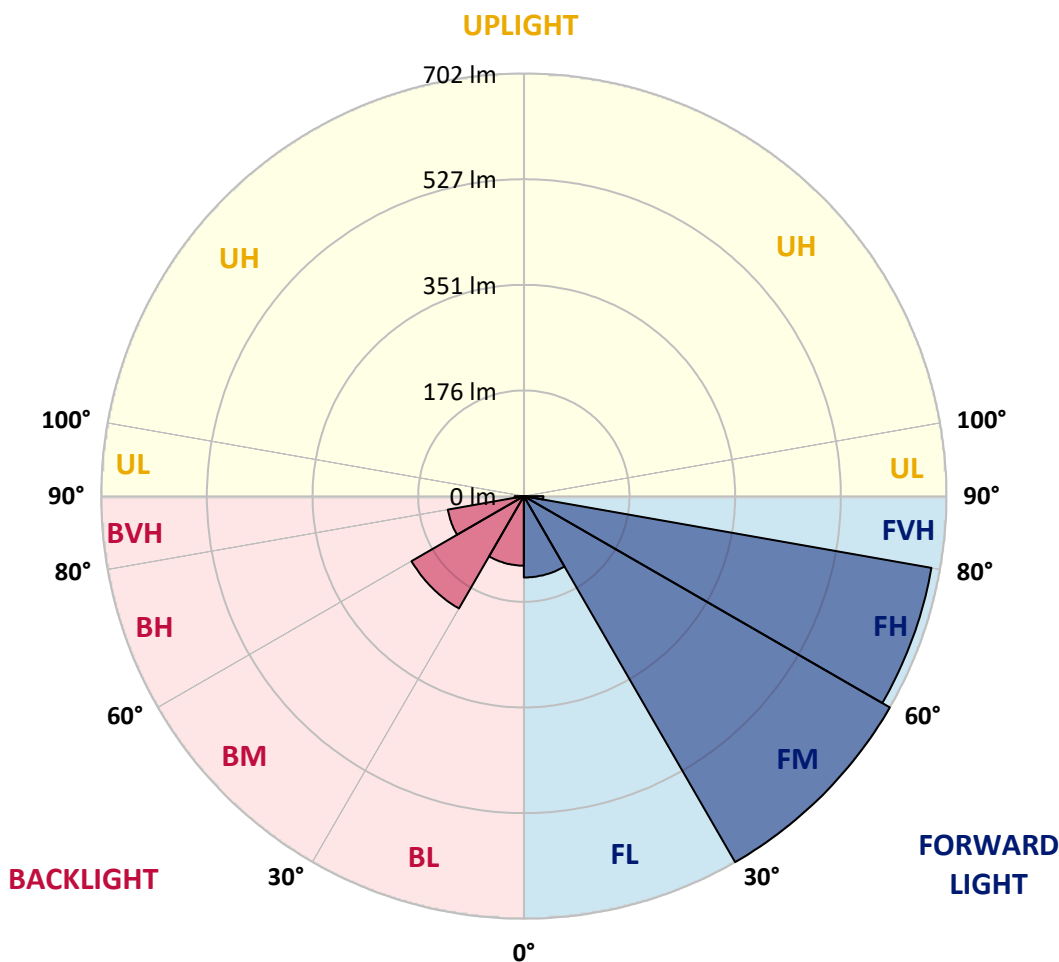
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	135.2	6.7			
FM (30°-60°)	702.2	34.6			
FH (60°-80°)	687.7	33.8			G1/1800
FVH (80°-90°)	32.4	1.6			G1/100
BL (0°-30°)	115.5	5.7	B1/500		
BM (30°-60°)	215.5	10.6	B0/220		
BH (60°-80°)	128.3	6.3	B1/500		G1/500
BVH (80°-90°)	15.2	0.7			G1/100
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°	57°	65°	75°	85°
0°	239.8	239.8	239.8	239.8	239.8	239.8	239.8	239.8	239.8	239.8	239.8
2.5°	235.4	236.1	237.6	236.9	236.9	234.7	238.4	239.1	237.6	238.4	239.8
5°	235.4	236.9	239.1	237.6	238.4	237.6	236.1	238.4	238.4	239.1	241.3
7.5°	248.0	247.2	247.2	245.0	244.3	243.5	244.3	244.3	242.8	243.5	243.5
10°	262.0	262.0	260.6	260.6	259.1	255.4	251.7	250.9	248.7	249.5	249.5
12.5°	276.9	278.3	279.8	275.4	273.9	268.0	265.7	261.3	261.3	259.8	259.1
15°	295.4	293.1	294.6	293.1	289.4	283.5	279.8	280.6	275.4	273.9	271.7
17.5°	311.6	312.4	310.2	308.7	302.0	297.6	298.3	297.6	290.9	288.7	285.0
20°	330.9	330.1	330.1	325.7	319.8	313.9	311.6	310.9	312.4	307.9	299.1
22.5°	350.9	347.9	347.9	344.2	336.1	332.4	330.9	327.9	329.4	325.7	312.4
25°	367.2	367.2	372.3	364.9	360.5	353.1	350.1	350.9	351.6	344.2	328.7
27.5°	388.6	384.9	390.1	386.4	384.2	376.0	372.3	374.6	373.1	364.9	343.5
30°	416.0	416.8	413.8	408.6	405.7	399.7	397.5	395.3	397.5	387.1	359.8
32.5°	450.1	452.3	444.9	439.0	433.8	427.9	423.4	421.2	423.4	407.9	372.3
35°	489.3	491.5	485.6	478.9	473.0	458.2	454.5	450.8	442.7	417.5	384.2
37.5°	525.6	522.6	521.1	521.1	510.0	488.6	486.3	484.1	468.6	436.7	400.5
40°	550.0	553.7	552.2	550.7	549.3	529.3	524.8	521.1	495.2	465.6	423.4
42.5°	577.4	575.2	581.1	583.3	578.1	572.2	554.4	541.9	518.9	495.2	457.5
45°	610.0	608.5	610.7	618.8	611.4	613.7	584.1	575.2	546.3	532.2	500.4
47.5°	638.8	642.5	653.6	655.9	649.9	660.3	618.8	604.8	586.3	575.2	544.8
50°	651.4	655.9	681.0	696.6	697.3	713.6	653.6	647.7	622.5	627.0	600.3
52.5°	641.1	655.1	685.5	726.2	751.3	767.6	699.5	696.6	673.6	687.7	661.0
55°	650.7	664.0	684.0	741.0	804.6	808.3	763.2	752.1	729.1	748.4	724.0
57.5°	655.1	647.7	685.5	757.3	843.9	853.5	823.9	815.7	798.0	816.5	802.4
60°	620.3	629.2	664.7	752.8	846.1	901.6	892.0	880.1	863.9	880.9	872.7
62.5°	581.1	587.0	625.5	726.2	858.7	936.4	957.9	949.0	926.0	940.8	954.9
65°	531.5	532.2	575.2	678.8	834.3	956.4	1015.6	1014.9	998.6	994.9	1017.1
67.5°	470.8	476.7	510.8	628.5	800.9	978.6	1072.6	1083.7	1051.1	1022.3	1030.4
70°	361.2	367.2	399.7	515.2	732.8	971.9	1142.9	1148.9	1085.2	1011.9	991.2
72.5°	188.0	189.5	222.8	310.9	519.7	863.1	1168.8	1184.4	1094.1	981.6	883.8
75°	62.2	62.2	76.2	118.4	245.0	552.2	1058.5	1086.7	1050.4	906.1	723.2
77.5°	37.0	37.8	45.2	59.2	97.7	220.6	746.2	795.8	859.4	770.6	528.5
80°	26.6	27.4	34.1	40.7	58.5	71.1	374.6	443.4	527.8	496.0	282.0
82.5°	20.0	20.0	26.6	30.3	40.0	42.2	104.4	142.9	228.0	177.7	77.7
85°	20.7	20.7	20.7	21.5	27.4	24.4	43.7	46.6	66.6	58.5	21.5
87.5°	7.4	8.1	20.7	14.1	14.1	10.4	17.0	18.5	23.7	24.4	8.1
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°	239.8	239.8	239.8	239.8	239.8	239.8	239.8	239.8	239.8	239.8	239.8
2.5°	240.6	240.6	241.3	241.3	242.8	244.3	246.5	245.0	245.0	245.8	245.0
5°	239.8	240.6	242.8	246.5	248.0	248.7	253.2	253.2	253.2	254.6	254.6
7.5°	242.8	244.3	248.0	251.7	252.4	254.6	260.6	262.0	265.7	267.2	268.0
10°	250.2	252.4	255.4	259.8	262.8	265.7	270.2	275.4	274.6	279.1	279.8
12.5°	261.3	260.6	265.7	270.2	273.1	277.6	279.1	279.1	279.1	279.1	280.6
15°	270.2	271.7	276.1	279.1	282.8	282.0	279.1	276.1	276.9	276.1	276.1
17.5°	283.5	283.5	287.2	288.0	289.4	282.0	277.6	277.6	279.8	279.8	278.3
20°	296.8	296.1	297.6	296.8	287.2	278.3	277.6	278.3	279.1	278.3	277.6
22.5°	309.4	307.9	305.7	302.8	285.7	277.6	276.1	272.4	268.7	268.7	266.5
25°	320.5	319.0	313.1	304.2	285.0	273.1	265.7	256.9	252.4	250.2	253.2
27.5°	330.9	327.9	319.8	304.2	278.3	261.3	247.2	236.1	232.4	229.5	232.4
30°	345.0	339.8	328.7	302.0	268.0	242.8	223.6	210.2	206.5	202.1	203.6
32.5°	357.5	345.7	336.1	295.4	254.6	222.1	199.9	186.5	179.9	176.2	179.1
35°	370.9	359.0	339.0	285.0	233.9	196.9	174.7	162.1	156.9	151.7	151.7
37.5°	384.2	377.5	343.5	265.7	208.7	173.2	153.2	143.6	134.7	125.1	125.1
40°	412.3	403.4	348.7	243.5	183.6	150.3	136.2	123.6	114.7	101.4	100.7
42.5°	441.9	422.7	348.7	216.9	161.4	134.0	120.7	107.3	91.0	82.9	83.6
45°	479.7	457.5	339.0	193.2	139.2	120.7	105.9	88.8	81.4	76.2	76.2
47.5°	527.1	492.3	327.2	167.3	121.4	108.8	90.3	79.9	74.8	70.3	69.6
50°	583.3	524.1	312.4	145.1	106.6	97.7	82.2	74.0	69.6	66.6	66.6
52.5°	642.5	570.7	302.0	125.1	94.8	82.9	76.2	71.1	67.4	65.1	64.4
55°	702.5	617.4	294.6	103.6	83.6	76.2	74.8	70.3	68.8	66.6	65.1
57.5°	769.9	655.9	293.1	88.8	74.8	73.3	76.2	72.5	70.3	68.1	65.9
60°	842.4	707.7	279.8	77.0	70.3	71.8	74.0	70.3	68.8	66.6	65.1
62.5°	914.2	746.2	243.5	68.1	65.9	67.4	70.3	67.4	65.1	65.9	66.6
65°	943.8	749.1	188.8	61.4	60.7	61.4	65.9	65.1	62.9	67.4	67.4
67.5°	914.2	722.5	133.2	55.5	55.5	59.2	66.6	68.1	65.9	71.8	71.1
70°	846.8	656.6	90.3	51.8	53.3	62.9	68.8	67.4	64.4	71.8	70.3
72.5°	718.8	525.6	65.9	48.1	50.3	60.0	68.1	66.6	64.4	67.4	64.4
75°	539.6	373.8	51.8	43.7	44.4	54.0	70.3	66.6	60.7	59.2	57.0
77.5°	360.5	231.0	40.0	38.5	38.5	47.4	67.4	62.2	54.8	52.6	51.8
80°	171.7	92.5	31.8	32.6	33.3	40.7	61.4	55.5	49.6	46.6	46.6
82.5°	54.8	34.8	26.6	26.6	26.6	33.3	51.1	46.6	42.9	40.7	37.0
85°	19.2	19.2	22.9	23.7	21.5	24.4	42.2	40.0	35.5	29.6	28.9
87.5°	7.4	11.1	15.5	18.5	13.3	17.0	30.3	28.1	25.9	19.2	18.5
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)