

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: P675012

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675012  
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-T3  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
T3 distribution lens  
Light Source: (16) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

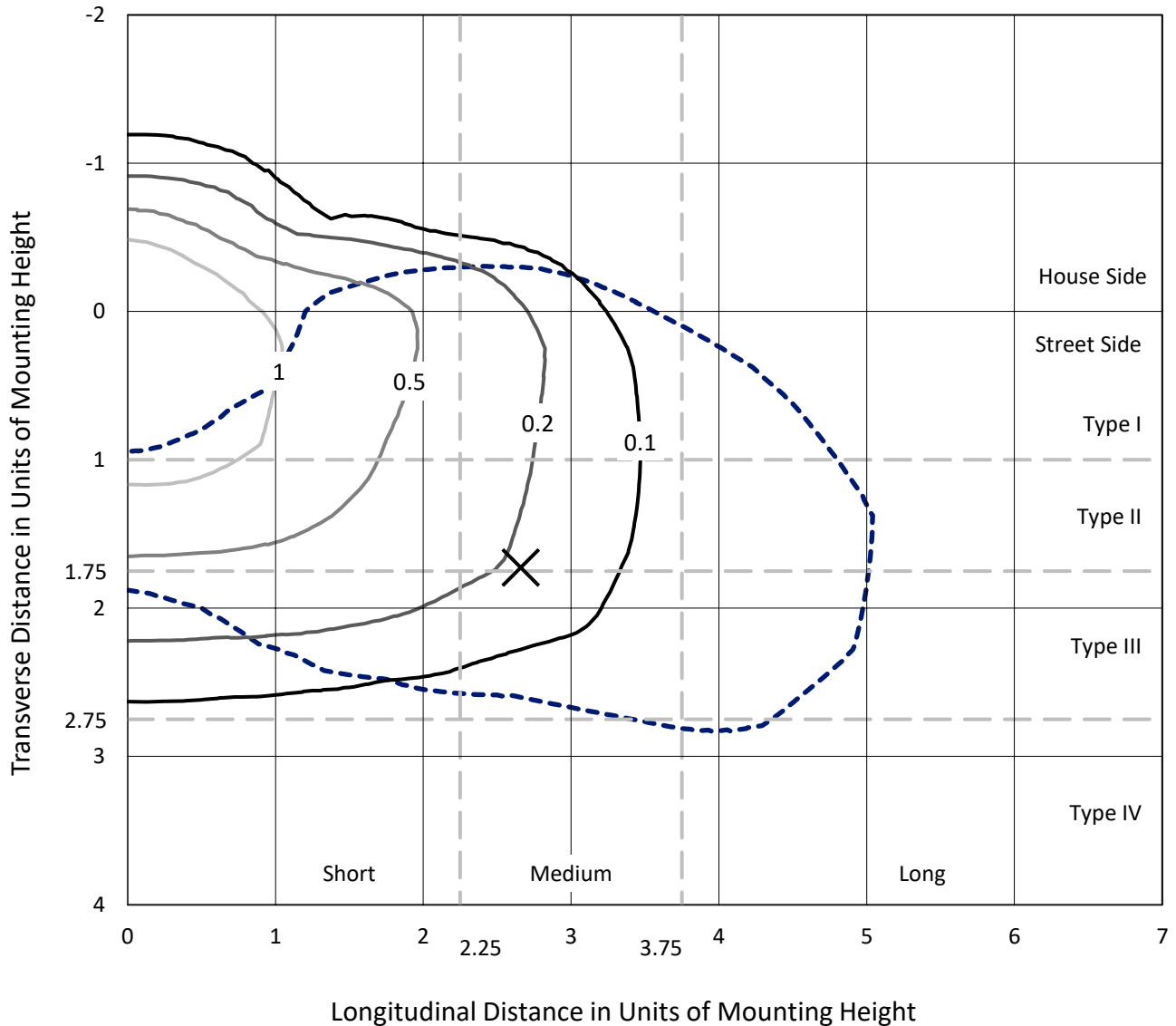
Lumens per Lamp: N/A  
Luminaire Lumens: 2565.1 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 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

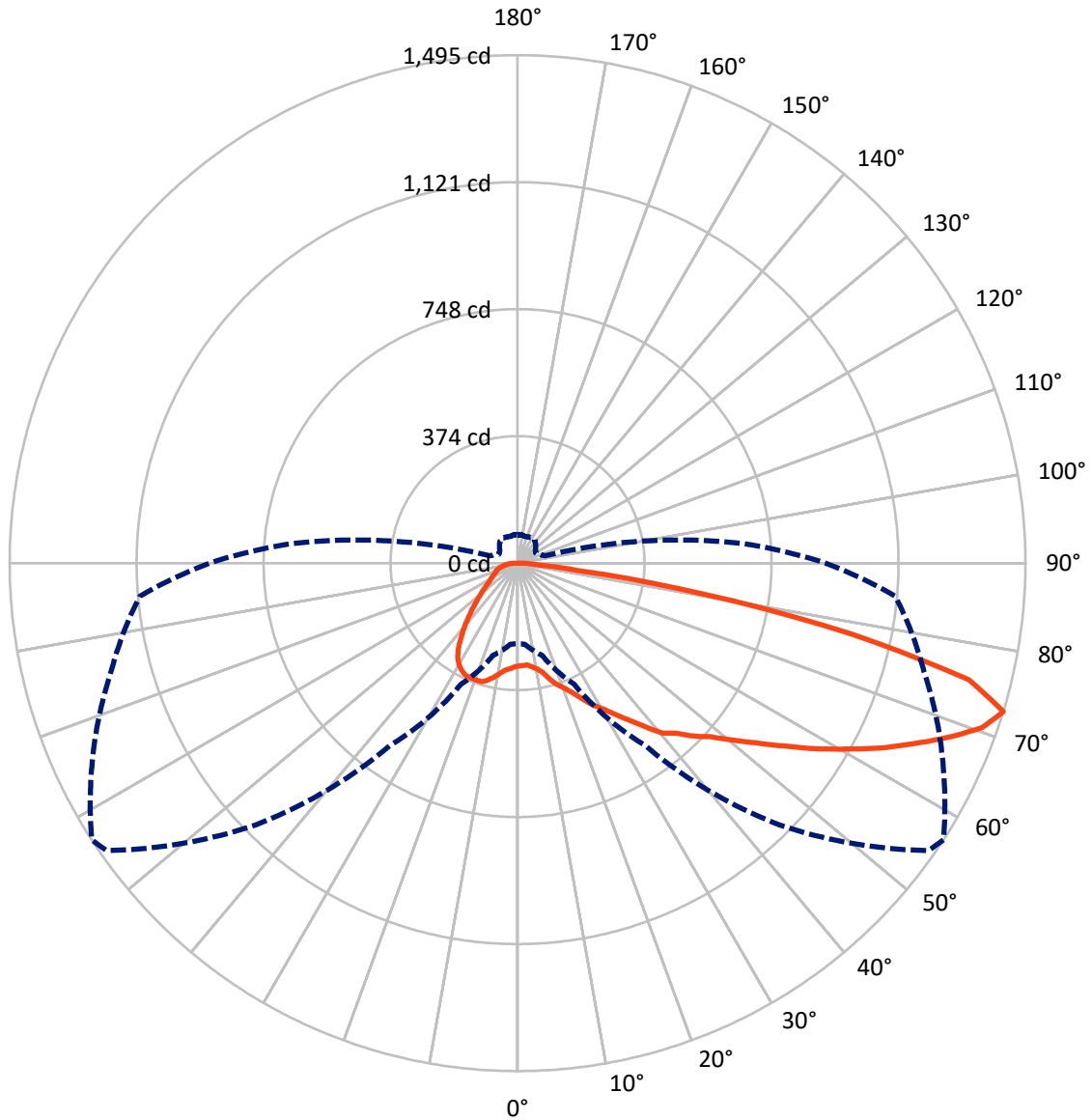
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.5 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	599.0	0.0	599.0
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	1966.1	0.0	1966.1
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	2565.1	0.0	2565.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.1	1.2
10°-20°	101.3	3.9
20°-30°	185.2	7.2
30°-40°	271.6	10.6
40°-50°	374.0	14.6
50°-60°	512.9	20.0
60°-70°	618.3	24.1
70°-80°	411.8	16.1
80°-90°	60.0	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°	2565.1	100.0
0°-180°	2565.1	100.0

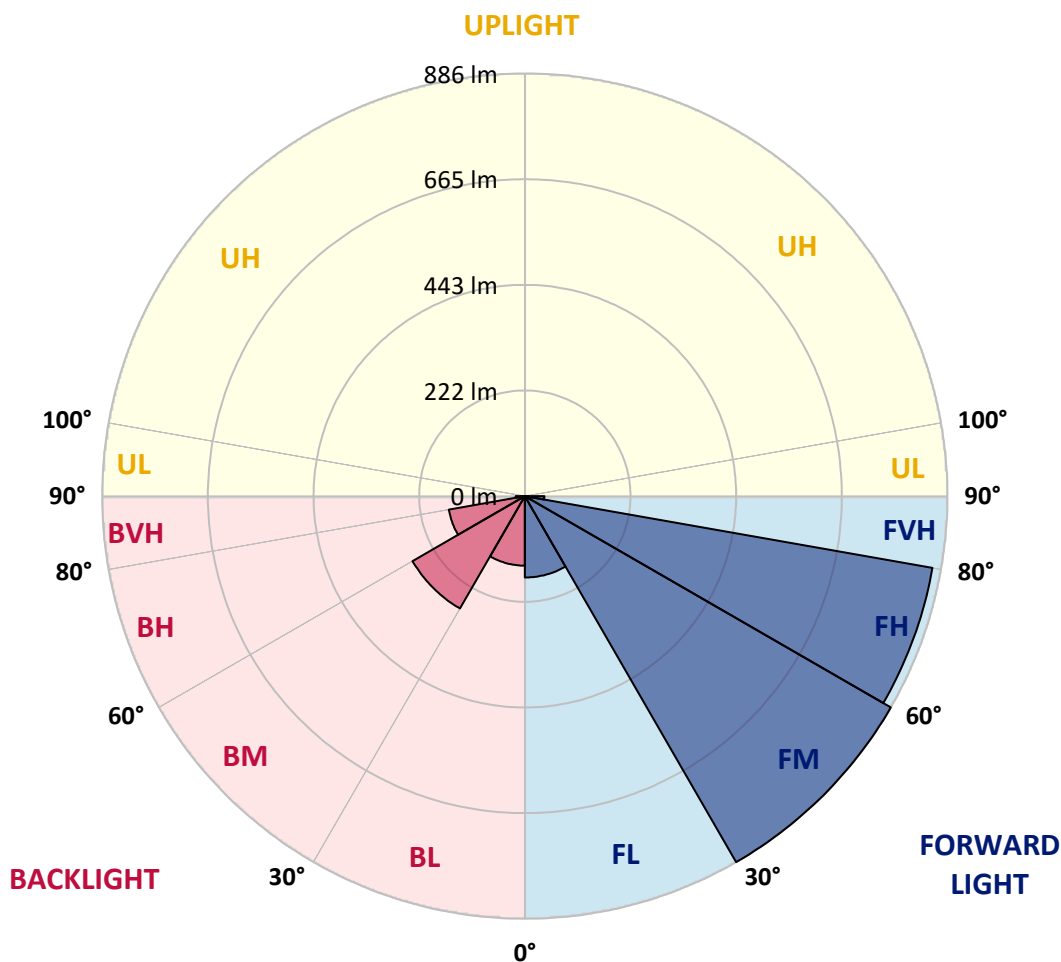


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	170.6	6.7			
FM (30°-60°)	886.4	34.6			
FH (60°-80°)	868.1	33.8			G1/1800
FVH (80°-90°)	40.9	1.6			G1/100
BL (0°-30°)	145.9	5.7	B1/500		
BM (30°-60°)	272.1	10.6	B1/1000		
BH (60°-80°)	162.0	6.3	B1/500		G1/500
BVH (80°-90°)	19.1	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°	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8
2.5°	297.2	298.1	300.0	299.0	299.0	296.2	300.9	301.8	300.0	300.9	302.8
5°	297.2	299.0	301.8	300.0	300.9	300.0	298.1	300.9	300.9	301.8	304.6
7.5°	313.0	312.1	312.1	309.3	308.4	307.4	308.4	308.4	306.5	307.4	307.4
10°	330.8	330.8	328.9	328.9	327.1	322.4	317.7	316.8	314.0	314.9	314.9
12.5°	349.5	351.4	353.2	347.6	345.7	338.3	335.5	329.9	329.9	328.0	327.1
15°	372.8	370.0	371.9	370.0	365.4	357.9	353.2	354.2	347.6	345.7	342.9
17.5°	393.4	394.3	391.5	389.7	381.3	375.7	376.6	375.7	367.2	364.4	359.8
20°	417.7	416.8	416.8	411.2	403.7	396.2	393.4	392.5	394.3	388.7	377.5
22.5°	442.9	439.2	439.2	434.5	424.2	419.6	417.7	414.0	415.8	411.2	394.3
25°	463.5	463.5	470.0	460.7	455.1	445.7	442.0	442.9	443.9	434.5	414.9
27.5°	490.6	485.9	492.5	487.8	485.0	474.7	470.0	472.8	471.0	460.7	433.6
30°	525.2	526.1	522.4	515.8	512.1	504.6	501.8	499.0	501.8	488.7	454.1
32.5°	568.2	571.0	561.6	554.1	547.6	540.1	534.5	531.7	534.5	514.9	470.0
35°	617.7	620.5	613.0	604.6	597.1	578.4	573.8	569.1	558.8	527.0	485.0
37.5°	663.5	659.7	657.9	657.9	643.8	616.7	613.9	611.1	591.5	551.3	505.5
40°	694.3	699.0	697.1	695.2	693.4	668.1	662.5	657.9	625.2	587.8	534.5
42.5°	728.9	726.1	733.5	736.4	729.8	722.3	699.9	684.0	655.1	625.2	577.5
45°	770.0	768.1	770.9	781.2	771.9	774.7	737.3	726.1	689.6	671.9	631.7
47.5°	806.4	811.1	825.1	827.9	820.5	833.5	781.2	763.5	740.1	726.1	687.8
50°	822.3	827.9	859.7	879.3	880.3	900.8	825.1	817.7	785.9	791.5	757.8
52.5°	809.2	827.0	865.3	916.7	948.5	969.0	883.1	879.3	850.4	868.1	834.5
55°	821.4	838.2	863.4	935.4	1015.8	1020.4	963.4	949.4	920.4	944.7	913.9
57.5°	827.0	817.7	865.3	956.0	1065.3	1077.4	1040.1	1029.8	1007.3	1030.7	1013.0
60°	783.1	794.3	839.1	950.3	1068.1	1138.2	1126.0	1111.1	1090.5	1112.0	1101.7
62.5°	733.5	741.0	789.6	916.7	1084.0	1182.1	1209.2	1198.0	1169.0	1187.7	1205.5
65°	670.9	671.9	726.1	856.9	1053.1	1207.3	1282.1	1281.1	1260.6	1255.9	1283.9
67.5°	594.3	601.8	644.8	793.4	1011.1	1235.4	1354.0	1368.0	1326.9	1290.5	1300.8
70°	456.0	463.5	504.6	650.4	925.1	1226.9	1442.8	1450.3	1369.9	1277.4	1251.2
72.5°	237.4	239.2	281.3	392.5	656.0	1089.6	1475.5	1495.1	1381.1	1239.1	1115.7
75°	78.5	78.5	96.2	149.5	309.3	697.1	1336.3	1371.8	1326.0	1143.8	913.0
77.5°	46.7	47.7	57.0	74.8	123.3	278.5	941.9	1004.5	1084.9	972.8	667.2
80°	33.6	34.6	43.0	51.4	73.8	89.7	472.8	559.7	666.3	626.1	356.0
82.5°	25.2	25.2	33.6	38.3	50.5	53.3	131.8	180.4	287.8	224.3	98.1
85°	26.2	26.2	26.2	27.1	34.6	30.8	55.1	58.9	84.1	73.8	27.1
87.5°	9.3	10.3	26.2	17.8	17.8	13.1	21.5	23.4	29.9	30.8	10.3
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°	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8
2.5°	303.7	303.7	304.6	304.6	306.5	308.4	311.2	309.3	309.3	310.2	309.3
5°	302.8	303.7	306.5	311.2	313.0	314.0	319.6	319.6	319.6	321.5	321.5
7.5°	306.5	308.4	313.0	317.7	318.7	321.5	328.9	330.8	335.5	337.3	338.3
10°	315.8	318.7	322.4	328.0	331.7	335.5	341.1	347.6	346.7	352.3	353.2
12.5°	329.9	328.9	335.5	341.1	344.8	350.4	352.3	352.3	352.3	352.3	354.2
15°	341.1	342.9	348.6	352.3	357.0	356.0	352.3	348.6	349.5	348.6	348.6
17.5°	357.9	357.9	362.6	363.5	365.4	356.0	350.4	350.4	353.2	353.2	351.4
20°	374.7	373.8	375.7	374.7	362.6	351.4	350.4	351.4	352.3	351.4	350.4
22.5°	390.6	388.7	385.9	382.2	360.7	350.4	348.6	343.9	339.2	339.2	336.4
25°	404.6	402.8	395.3	384.1	359.8	344.8	335.5	324.3	318.7	315.8	319.6
27.5°	417.7	414.0	403.7	384.1	351.4	329.9	312.1	298.1	293.4	289.7	293.4
30°	435.5	428.9	414.9	381.3	338.3	306.5	282.2	265.4	260.7	255.1	257.0
32.5°	451.3	436.4	424.2	372.8	321.5	280.3	252.3	235.5	227.1	222.4	226.1
35°	468.2	453.2	428.0	359.8	295.3	248.6	220.5	204.6	198.1	191.6	191.6
37.5°	485.0	476.6	433.6	335.5	263.5	218.7	193.4	181.3	170.1	157.9	157.9
40°	520.5	509.3	440.1	307.4	231.7	189.7	171.9	156.1	144.8	128.0	127.1
42.5°	557.9	533.6	440.1	273.8	203.7	169.1	152.3	135.5	114.9	104.7	105.6
45°	605.5	577.5	428.0	243.9	175.7	152.3	133.6	112.1	102.8	96.2	96.2
47.5°	665.3	621.4	413.0	211.2	153.3	137.4	114.0	100.9	94.4	88.8	87.8
50°	736.4	661.6	394.3	183.2	134.6	123.3	103.7	93.4	87.8	84.1	84.1
52.5°	811.1	720.5	381.3	157.9	119.6	104.7	96.2	89.7	85.0	82.2	81.3
55°	886.8	779.3	371.9	130.8	105.6	96.2	94.4	88.8	86.9	84.1	82.2
57.5°	971.8	827.9	370.0	112.1	94.4	92.5	96.2	91.6	88.8	86.0	83.2
60°	1063.4	893.3	353.2	97.2	88.8	90.6	93.4	88.8	86.9	84.1	82.2
62.5°	1154.1	941.9	307.4	86.0	83.2	85.0	88.8	85.0	82.2	83.2	84.1
65°	1191.4	945.7	238.3	77.6	76.6	77.6	83.2	82.2	79.4	85.0	85.0
67.5°	1154.1	912.0	168.2	70.1	70.1	74.8	84.1	86.0	83.2	90.6	89.7
70°	1069.0	828.9	114.0	65.4	67.3	79.4	86.9	85.0	81.3	90.6	88.8
72.5°	907.4	663.5	83.2	60.7	63.5	75.7	86.0	84.1	81.3	85.0	81.3
75°	681.2	471.9	65.4	55.1	56.1	68.2	88.8	84.1	76.6	74.8	72.0
77.5°	455.1	291.6	50.5	48.6	48.6	59.8	85.0	78.5	69.1	66.3	65.4
80°	216.8	116.8	40.2	41.1	42.1	51.4	77.6	70.1	62.6	58.9	58.9
82.5°	69.1	43.9	33.6	33.6	33.6	42.1	64.5	58.9	54.2	51.4	46.7
85°	24.3	24.3	29.0	29.9	27.1	30.8	53.3	50.5	44.9	37.4	36.4
87.5°	9.3	14.0	19.6	23.4	16.8	21.5	38.3	35.5	32.7	24.3	23.4
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)