

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: P676673

Luminaire Tested: **CCW-SA-1A-727-U-T4W-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676673  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1A-727-U-T4W-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
T4W distribution lens and House Side Shield  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

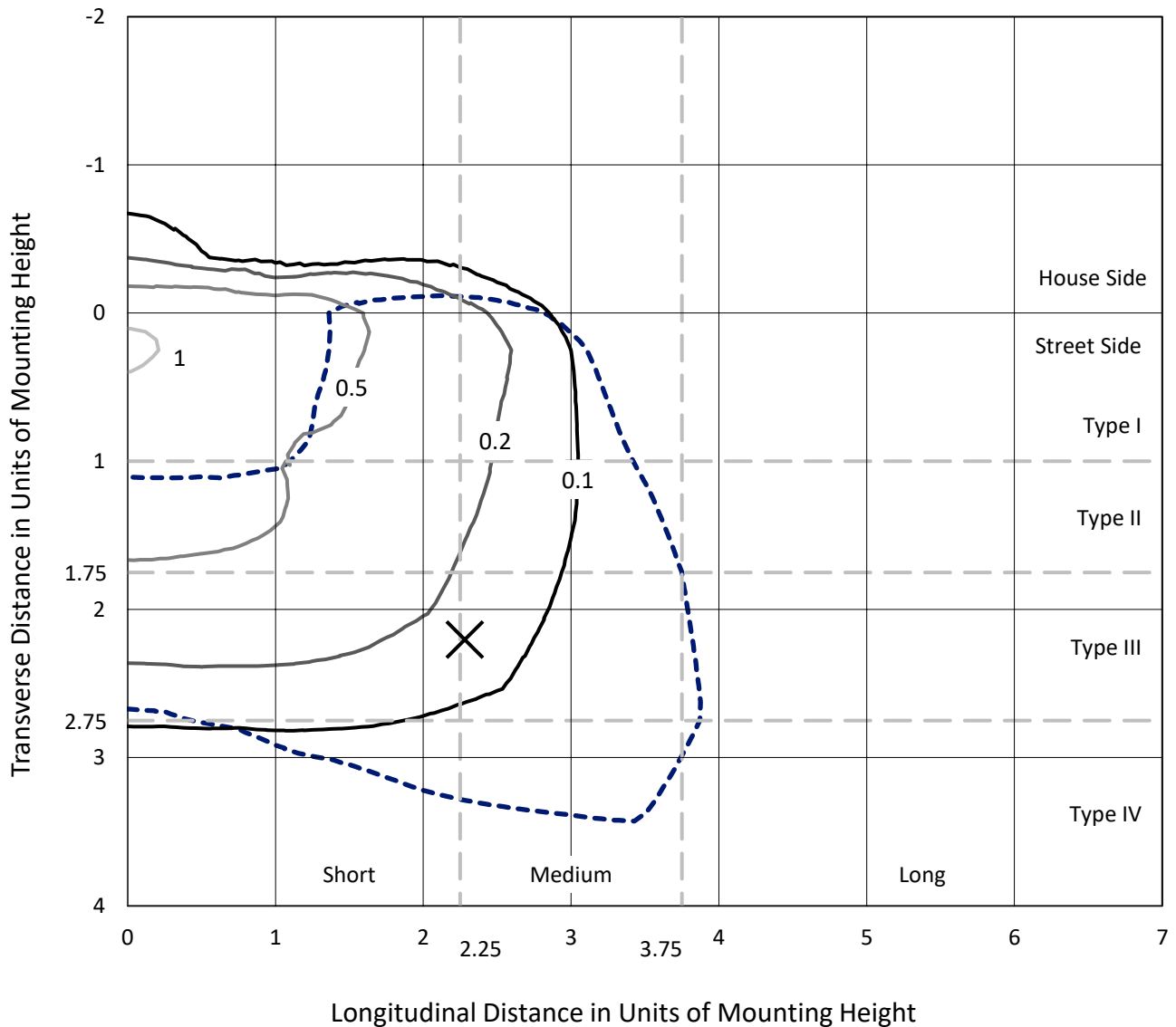
Lumens per Lamp: N/A  
Luminaire Lumens: 1650.7 lumens  
Efficiency: N/A  
Efficacy: 91.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

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

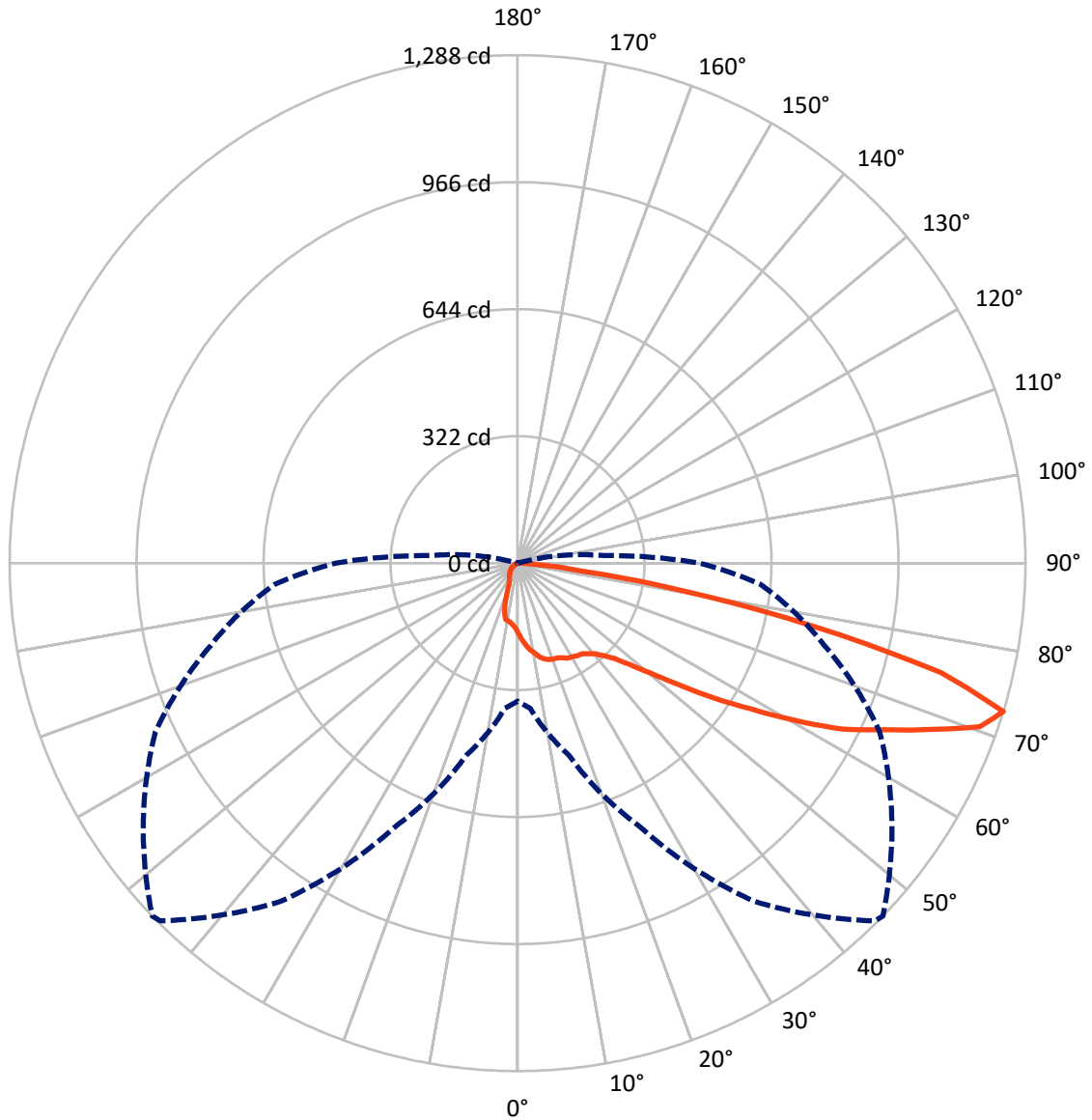
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	177.7	0.0	177.7
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	1473.0	0.0	1473.0
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	1650.7	0.0	1650.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.7	1.1
10°-20°	53.3	3.2
20°-30°	83.5	5.1
30°-40°	116.9	7.1
40°-50°	192.7	11.7
50°-60°	346.4	21.0
60°-70°	502.1	30.4
70°-80°	313.3	19.0
80°-90°	24.8	1.5
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°	1650.7	100.0
0°-180°	1650.7	100.0

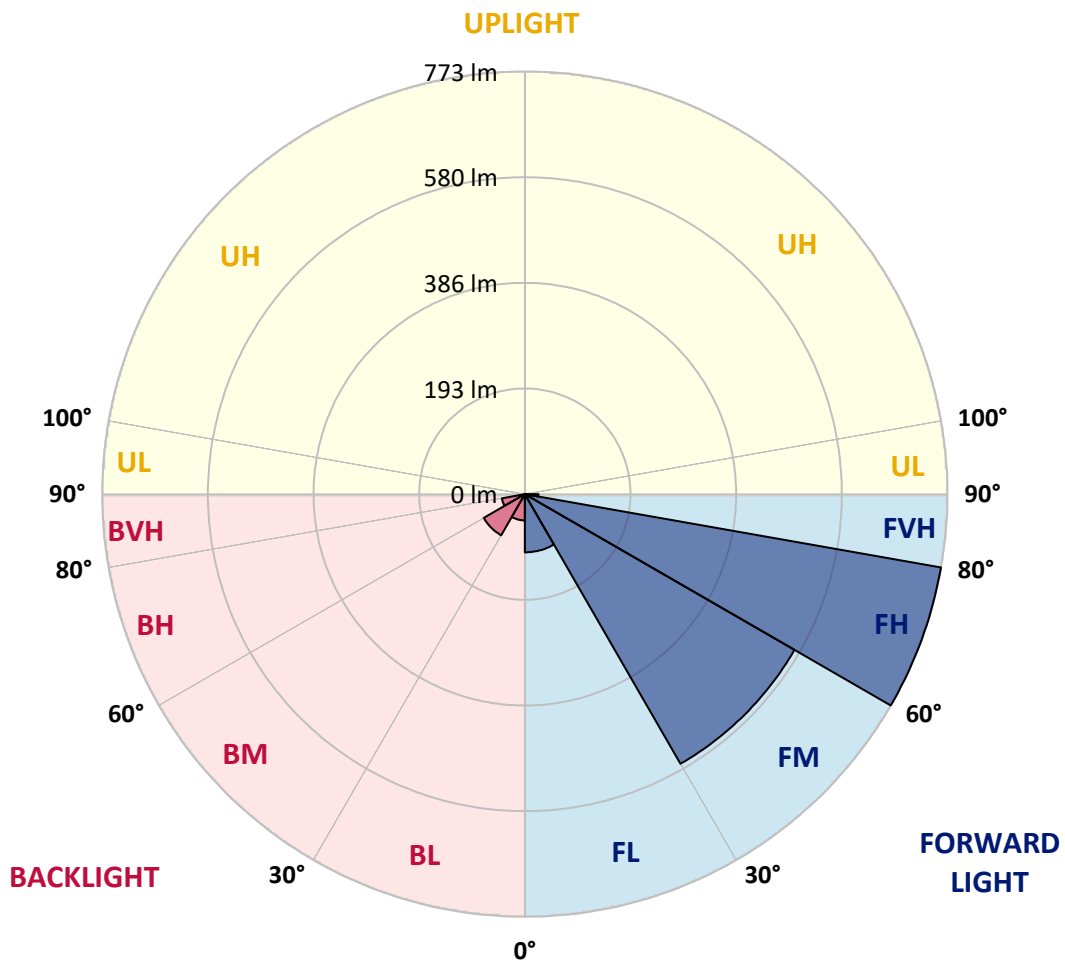


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	106.4	6.4			
FM (30°-60°)	569.2	34.5			
FH (60°-80°)	772.7	46.8			G1/1800
FVH (80°-90°)	24.7	1.5			G1/100
BL (0°-30°)	48.0	2.9	B0/110		
BM (30°-60°)	86.8	5.3	B0/220		
BH (60°-80°)	42.7	2.6	B0/110		G0/110
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
2.5°	197.5	196.6	197.9	197.5	192.4	193.3	192.8	189.5	183.6	180.2	178.1
5°	220.2	222.3	220.6	216.8	213.9	208.0	207.2	201.7	192.4	186.5	180.2
7.5°	243.8	243.8	240.4	234.5	228.2	221.9	221.1	211.8	203.8	193.7	184.8
10°	261.5	259.4	256.8	250.5	243.4	234.9	230.7	224.0	215.2	202.9	191.6
12.5°	277.1	273.7	269.5	260.2	251.8	242.5	243.4	232.4	226.5	215.6	198.7
15°	285.9	282.9	279.2	270.7	257.7	253.5	251.8	245.1	234.5	223.6	207.6
17.5°	288.0	285.9	280.8	269.9	262.7	257.7	257.3	249.3	244.6	235.4	217.7
20°	283.8	280.0	276.2	269.1	262.3	260.6	259.4	259.4	253.5	241.3	224.0
22.5°	276.6	272.4	270.3	266.1	260.6	260.2	261.1	260.2	255.6	247.6	230.7
25°	271.2	269.1	265.7	264.4	261.1	267.4	266.1	264.8	263.6	254.3	241.3
27.5°	272.8	272.4	269.9	264.8	262.3	269.1	272.8	273.3	272.8	263.6	250.9
30°	273.7	271.6	269.1	267.8	268.6	275.4	275.4	284.6	280.8	271.6	260.6
32.5°	283.4	282.1	273.7	270.7	271.2	279.2	279.6	288.8	287.6	281.3	269.1
35°	304.0	295.6	283.4	274.9	274.9	285.5	282.1	295.6	298.9	288.8	274.9
37.5°	334.7	328.4	306.5	287.6	280.4	288.0	291.4	298.9	309.1	300.2	286.7
40°	395.8	394.5	363.4	322.5	294.3	301.1	302.3	314.1	320.8	308.6	304.8
42.5°	485.1	478.7	449.7	385.3	319.6	316.6	321.3	328.8	344.8	334.7	325.5
45°	572.2	569.3	540.2	468.2	365.5	347.8	345.3	358.7	382.3	371.4	364.2
47.5°	635.4	629.5	613.1	552.4	432.8	384.4	386.1	399.6	429.5	421.1	423.2
50°	683.8	680.8	663.6	630.3	517.9	442.1	438.7	452.2	492.6	498.1	504.0
52.5°	736.8	742.3	719.2	690.9	618.5	519.6	512.0	516.6	568.8	581.5	597.9
55°	787.8	796.6	773.5	769.7	723.8	605.5	604.2	593.3	660.6	662.3	671.2
57.5°	821.1	818.1	816.4	837.1	829.1	704.0	697.7	686.7	747.8	736.8	763.4
60°	823.6	832.0	860.2	911.2	925.5	819.8	810.5	780.6	823.2	797.1	847.6
62.5°	842.5	849.3	901.5	971.8	990.3	921.7	928.0	852.2	887.6	867.0	941.1
65°	794.5	815.6	920.4	1019.0	1075.4	1024.8	1018.5	944.4	953.7	934.3	1033.3
67.5°	751.2	759.2	868.6	1033.3	1142.7	1128.4	1125.9	1026.1	1021.9	986.1	1059.4
70°	610.5	620.2	728.4	960.0	1165.5	1249.3	1243.4	1140.6	1068.2	957.9	925.5
72.5°	349.9	369.3	504.8	739.4	1047.2	1283.0	1288.4	1159.2	1013.5	805.5	618.1
75°	114.5	120.0	209.7	418.9	783.2	1119.2	1109.5	996.2	817.7	531.8	279.2
77.5°	38.7	39.6	61.9	151.6	434.1	756.2	761.7	712.0	502.3	221.1	77.1
80°	19.8	21.1	30.3	56.8	178.5	411.8	420.6	405.9	210.5	65.3	18.5
82.5°	9.3	9.7	17.7	31.6	81.7	161.7	161.7	177.7	74.5	36.6	7.6
85°	3.4	3.4	9.3	18.1	34.5	53.9	54.3	54.7	39.2	27.4	3.4
87.5°	1.3	1.3	4.6	7.6	12.6	16.4	16.4	13.1	19.8	18.1	1.3
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°	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
2.5°	177.3	174.7	172.6	169.7	165.9	163.8	164.2	161.7	161.7	160.4	160.0
5°	177.3	174.7	169.3	164.2	160.8	156.6	154.5	152.8	152.8	152.0	152.4
7.5°	178.5	174.7	167.2	160.4	154.9	150.7	147.4	146.9	146.1	144.0	145.7
10°	186.1	180.6	168.0	158.7	152.4	147.8	141.9	140.2	137.7	133.9	134.3
12.5°	192.4	185.3	173.9	161.3	153.3	145.7	132.2	117.5	111.2	104.4	104.8
15°	201.7	191.6	176.0	164.6	153.3	128.8	104.4	85.5	75.4	70.3	70.3
17.5°	206.7	198.3	181.9	166.7	141.1	104.8	74.1	57.7	56.0	56.8	56.8
20°	217.3	205.9	188.6	168.4	120.8	74.5	54.3	52.6	53.5	55.2	54.7
22.5°	224.0	212.6	193.7	160.8	93.5	53.5	50.9	50.1	50.9	53.1	53.1
25°	229.5	222.3	201.7	142.3	66.1	48.4	47.6	48.4	49.3	50.1	51.4
27.5°	242.9	230.7	207.2	118.3	47.6	45.1	45.9	46.3	46.3	47.6	48.0
30°	251.8	242.1	211.4	91.4	42.1	41.7	42.5	42.9	43.4	44.6	45.1
32.5°	260.2	256.8	205.9	61.9	39.6	38.7	38.3	38.7	40.4	41.7	41.3
35°	272.4	270.3	197.9	42.9	37.1	35.4	34.5	34.9	36.2	37.5	37.1
37.5°	287.2	289.3	178.5	37.5	34.5	32.4	30.7	30.7	31.2	32.4	32.8
40°	304.4	309.9	155.8	34.9	32.8	30.3	28.6	26.5	26.1	25.7	26.1
42.5°	336.0	342.3	130.1	33.3	30.3	27.4	24.8	22.3	20.2	18.9	18.9
45°	380.2	375.2	96.4	31.6	29.1	24.8	21.1	18.1	15.2	13.9	13.9
47.5°	441.3	424.0	66.1	29.9	26.9	21.9	17.7	13.9	11.4	10.1	10.1
50°	525.9	469.1	42.9	28.2	25.7	18.9	14.3	10.1	8.4	8.0	8.4
52.5°	605.9	514.9	34.1	26.1	23.2	16.4	10.9	8.4	7.6	7.2	7.2
55°	679.6	538.1	30.3	24.0	21.1	13.5	9.3	7.2	6.7	6.3	6.3
57.5°	741.9	546.1	26.1	21.1	16.8	10.5	7.6	6.3	5.5	5.1	5.1
60°	795.8	548.2	20.2	16.8	12.2	8.0	6.3	5.5	4.6	3.8	3.8
62.5°	838.7	533.5	14.3	11.8	8.4	6.3	5.5	3.8	2.5	1.7	1.3
65°	872.8	504.0	9.7	8.0	5.5	4.6	3.4	1.7	0.4	0.0	0.0
67.5°	832.8	437.1	7.6	5.9	3.8	2.9	1.7	0.4	0.0	0.0	0.0
70°	679.2	338.9	5.5	3.8	2.5	0.8	0.4	0.0	0.0	0.0	0.0
72.5°	462.3	218.5	4.2	2.5	1.3	0.4	0.0	0.0	0.0	0.0	0.0
75°	207.6	78.3	2.9	1.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	50.5	18.5	2.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	13.5	4.6	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.1	1.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)