

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: P676519

Luminaire Tested: **CCW-SA-1B-722-U-T4FT-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676519  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1B-722-U-T4FT-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/  
T4FT distribution lens and House Side Shield  
Light Source: (16) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

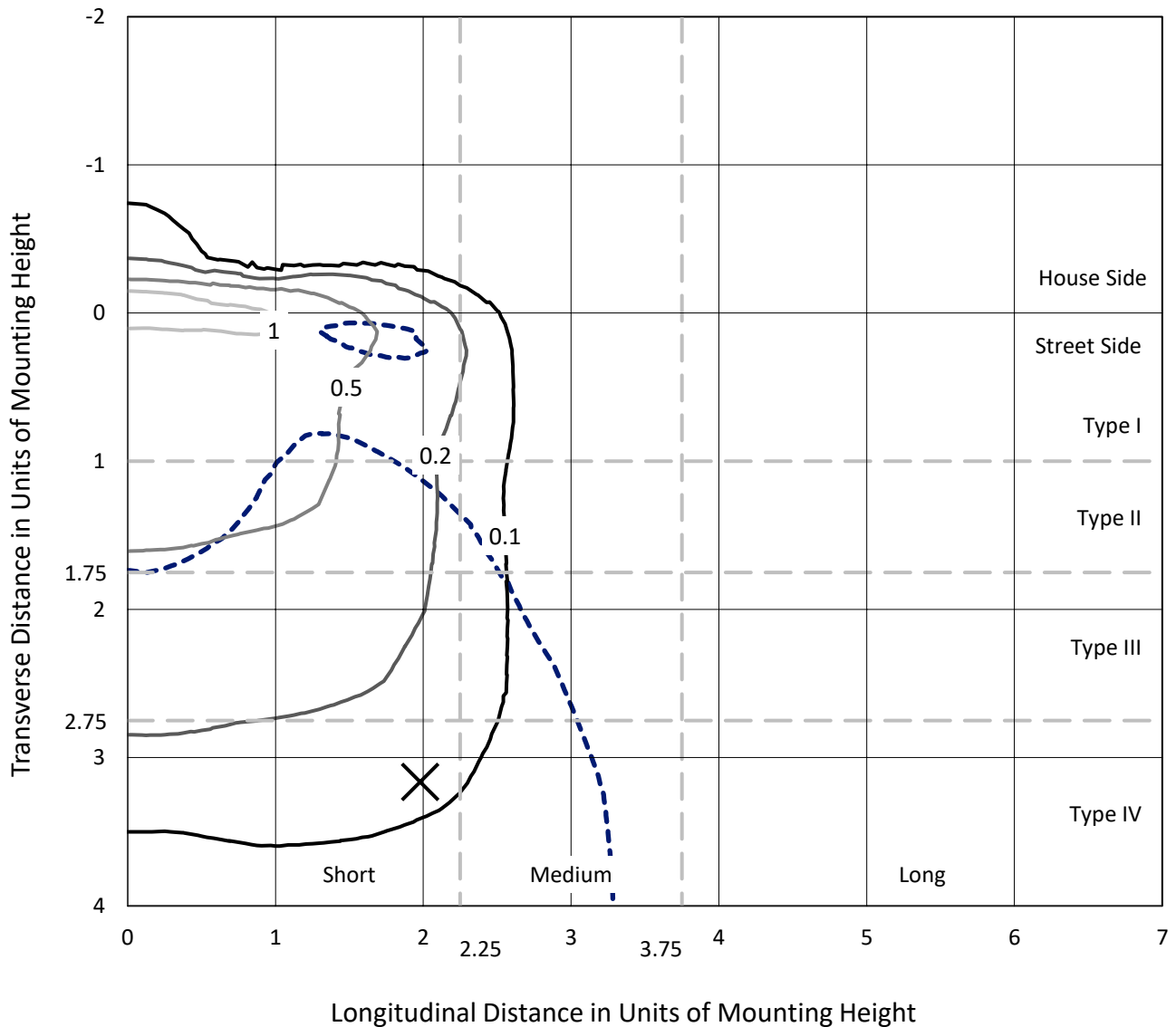
Lumens per Lamp: N/A  
Luminaire Lumens: 1826.7 lumens  
Efficiency: N/A  
Efficacy: 76.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

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

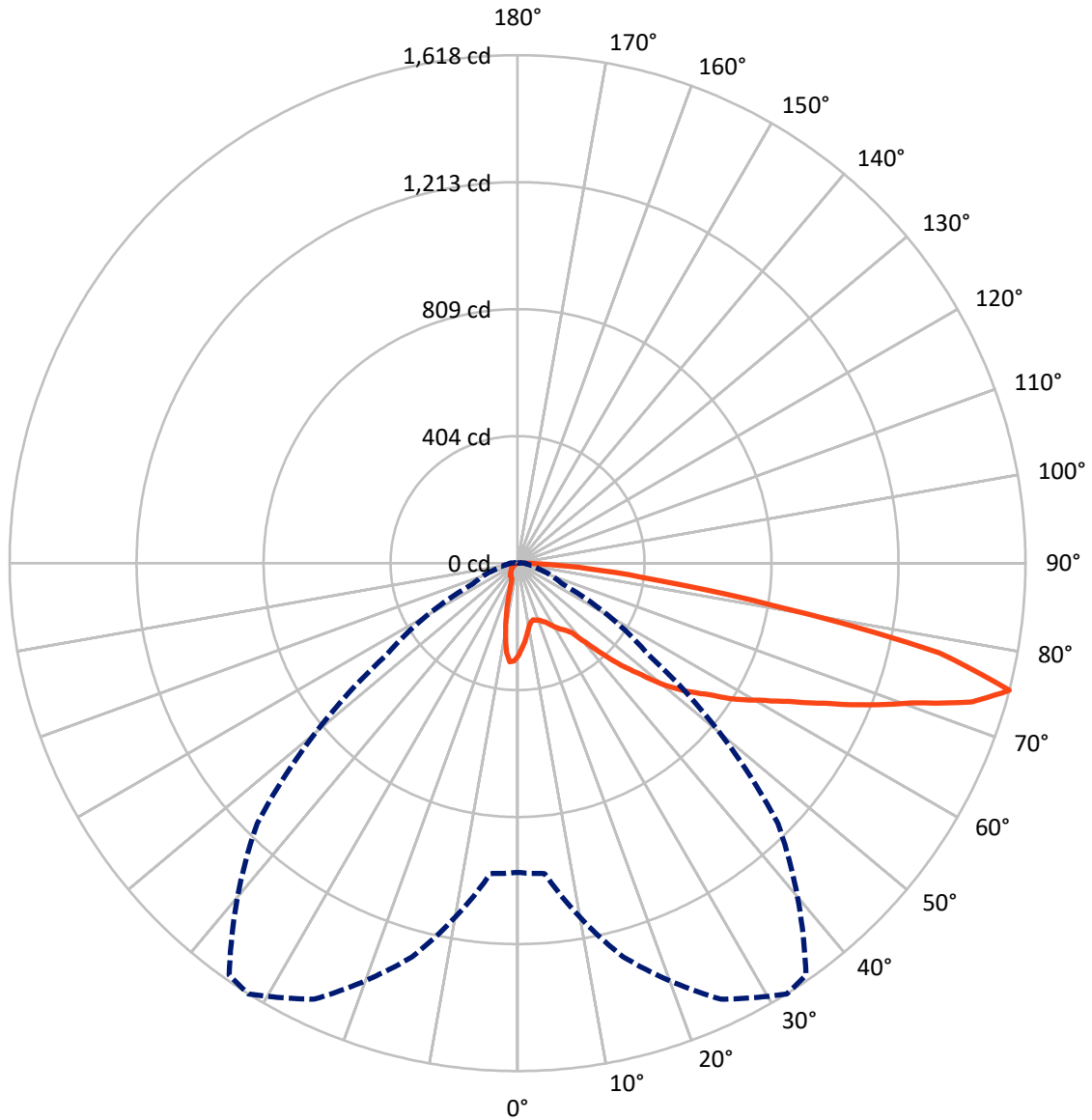
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	197.3	0.0	197.3
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	1629.3	0.0	1629.3
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	1826.7	0.0	1826.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.9	1.4
10°-20°	58.8	3.2
20°-30°	88.1	4.8
30°-40°	135.2	7.4
40°-50°	236.5	12.9
50°-60°	369.7	20.2
60°-70°	478.0	26.2
70°-80°	389.3	21.3
80°-90°	45.1	2.5
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°	1826.7	100.0
0°-180°	1826.7	100.0



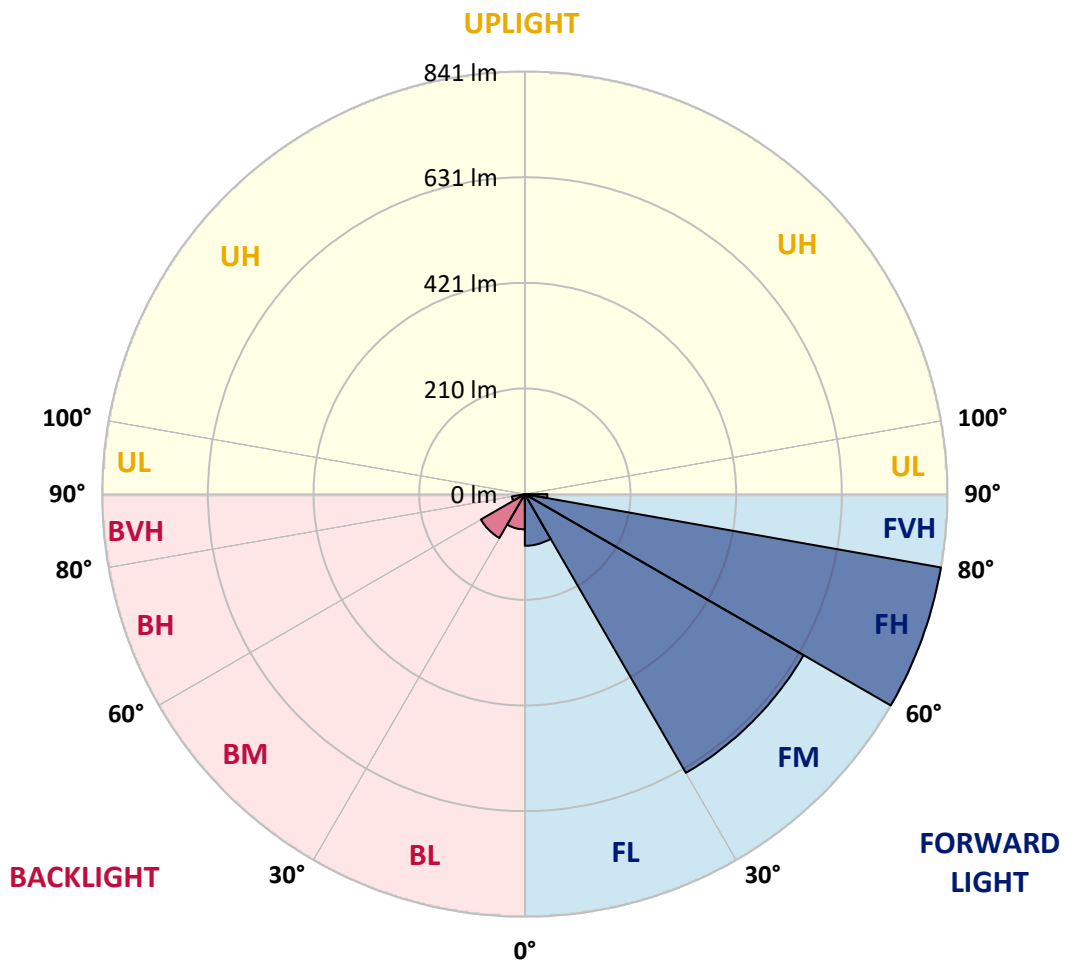
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	102.8	5.6			
FM (30°-60°)	640.5	35.1			
FH (60°-80°)	841.0	46.0			G1/1800
FVH (80°-90°)	45.0	2.5			G1/100
BL (0°-30°)	70.1	3.8	B0/110		
BM (30°-60°)	101.0	5.5	B0/220		
BH (60°-80°)	26.2	1.4	B0/110		G0/110
BVH (80°-90°)	0.0	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9
2.5°	264.5	268.3	267.8	270.1	270.6	272.0	275.3	275.3	284.6	291.2	295.4
5°	240.6	238.3	239.2	242.0	249.1	248.6	256.6	260.8	272.0	281.4	291.2
7.5°	211.1	210.7	212.6	219.1	224.3	228.5	236.9	247.7	262.6	276.7	294.0
10°	192.4	191.5	195.2	197.1	203.2	206.0	219.1	236.0	253.7	273.9	294.0
12.5°	188.2	184.9	186.8	186.3	192.0	193.4	206.0	226.6	248.1	272.9	297.8
15°	190.5	188.2	186.3	186.3	187.7	188.7	202.3	220.5	244.9	274.3	306.2
17.5°	198.0	196.6	191.0	185.4	191.5	191.5	199.9	219.1	245.3	278.6	316.5
20°	206.9	205.5	195.7	189.1	193.4	198.0	206.9	222.4	246.7	281.8	332.4
22.5°	216.8	216.8	203.2	195.7	201.3	201.8	217.7	232.7	252.3	290.3	342.7
25°	228.9	228.0	214.9	206.5	208.3	213.5	228.0	243.9	262.6	302.0	361.9
27.5°	244.9	243.4	228.0	219.6	221.9	227.5	243.9	259.8	272.0	306.7	378.3
30°	258.0	256.6	243.9	231.3	236.4	241.6	260.8	274.8	283.7	315.5	397.0
32.5°	260.8	258.4	250.0	244.4	250.0	259.8	274.8	289.3	302.9	338.0	432.6
35°	293.1	284.6	262.6	253.7	262.2	265.5	290.3	316.0	329.1	355.8	472.4
37.5°	354.9	346.9	317.9	293.1	281.4	285.1	317.4	349.3	361.9	389.1	515.9
40°	430.7	417.6	386.7	353.5	329.6	324.9	346.0	392.8	405.0	430.7	573.0
42.5°	517.3	504.7	456.9	417.6	393.3	387.2	390.5	443.4	453.7	469.1	610.5
45°	579.6	573.0	519.2	484.1	464.9	458.3	450.4	498.6	511.7	516.9	664.8
47.5°	615.6	611.0	581.0	557.1	531.4	524.4	529.5	575.4	566.5	570.7	716.8
50°	663.9	651.7	611.0	618.5	613.3	611.4	620.3	640.5	627.4	615.2	773.4
52.5°	702.7	681.2	652.6	670.9	678.9	685.9	717.2	732.2	673.7	655.0	809.9
55°	726.6	706.0	713.5	730.3	738.8	771.1	808.1	796.8	704.1	686.8	858.6
57.5°	748.1	749.5	769.7	774.8	817.9	823.5	894.7	858.2	725.7	715.8	877.8
60°	800.1	795.0	811.3	844.6	885.8	917.1	985.0	899.4	736.4	730.8	872.7
62.5°	893.7	861.9	867.5	909.7	970.1	1004.2	1037.0	918.1	733.6	733.2	857.2
65°	1012.7	976.1	959.3	998.6	1076.8	1125.0	1095.5	939.2	714.9	728.0	799.6
67.5°	1111.4	1111.9	1080.5	1102.5	1204.6	1214.9	1150.8	934.9	683.5	687.3	659.2
70°	1225.2	1240.7	1213.0	1281.9	1332.9	1339.4	1214.0	900.3	616.1	518.3	378.8
72.5°	1254.2	1262.2	1348.3	1454.1	1511.7	1513.6	1276.2	784.7	405.4	228.9	117.5
75°	985.0	992.5	1297.8	1531.9	1617.5	1601.1	1172.3	509.4	157.8	66.9	28.1
77.5°	549.6	552.0	805.7	1238.3	1372.2	1306.2	821.2	198.5	63.7	38.4	13.1
80°	150.3	176.5	298.7	610.5	838.0	822.6	390.9	64.6	41.2	30.0	6.1
82.5°	36.0	38.9	96.0	270.1	442.9	462.1	116.6	32.8	28.6	24.8	3.3
85°	13.1	14.5	29.5	131.6	227.5	208.8	35.1	16.4	21.1	19.2	1.4
87.5°	4.7	4.7	9.4	43.1	66.5	50.1	11.7	5.6	10.8	11.7	0.5
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°	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9
2.5°	295.9	295.9	302.4	308.1	309.9	312.3	309.9	315.1	314.6	312.3	313.2
5°	296.4	304.8	310.4	314.1	316.0	315.5	316.5	310.9	307.6	305.2	302.9
7.5°	298.7	306.7	317.0	316.0	310.9	300.1	291.7	276.7	262.2	261.7	259.4
10°	306.7	313.7	319.8	316.0	297.3	264.5	237.8	217.7	199.4	191.0	192.0
12.5°	312.3	325.4	322.6	303.4	264.5	221.4	182.1	152.6	136.2	120.8	120.8
15°	324.0	328.7	327.7	285.1	224.3	172.8	125.0	95.0	77.7	70.7	69.8
17.5°	335.2	340.4	324.4	257.5	184.5	116.1	75.8	59.0	56.6	55.7	56.2
20°	349.3	349.7	321.6	229.9	138.6	73.5	54.3	52.9	53.4	52.9	52.9
22.5°	364.2	367.5	311.8	191.0	92.2	53.4	50.6	51.0	51.0	51.0	52.4
25°	383.9	378.8	296.4	154.0	60.4	49.2	49.2	49.6	49.6	49.6	50.1
27.5°	397.0	390.0	276.7	111.0	47.3	46.3	47.3	47.3	48.2	48.2	48.2
30°	424.2	405.9	251.9	71.6	42.6	44.0	44.9	45.9	46.3	47.3	47.8
32.5°	445.2	420.0	221.0	47.8	38.9	39.8	42.1	44.0	45.9	45.4	45.4
35°	483.6	442.9	192.4	37.9	35.6	35.6	37.9	41.2	44.0	44.9	44.9
37.5°	527.6	461.6	152.6	34.6	32.8	32.8	34.2	37.9	41.7	43.5	42.6
40°	564.1	483.2	112.8	32.3	30.4	30.4	31.4	34.2	38.4	41.7	42.1
42.5°	589.9	499.1	76.3	30.0	28.6	28.1	29.5	30.9	34.2	38.9	39.8
45°	613.3	507.5	47.3	27.6	26.7	26.7	26.7	28.1	30.4	34.6	35.6
47.5°	655.0	516.9	34.2	25.7	24.3	24.8	25.3	25.7	27.6	28.6	29.0
50°	690.1	523.9	28.1	23.9	22.9	23.4	23.4	23.4	24.3	22.9	22.9
52.5°	716.8	516.9	23.9	22.0	21.1	21.5	21.1	21.1	20.1	18.3	18.3
55°	736.4	504.2	19.2	20.1	20.1	20.1	19.2	17.8	15.9	14.5	14.5
57.5°	741.6	482.7	15.0	16.9	18.3	18.3	16.4	14.5	12.2	10.8	10.3
60°	733.6	435.9	11.2	12.2	14.0	14.5	13.1	10.8	8.4	7.0	7.0
62.5°	705.1	398.9	8.9	8.0	10.3	10.8	9.4	7.0	4.7	3.3	2.8
65°	650.8	341.8	6.6	5.6	7.0	7.5	6.1	3.3	1.4	0.5	0.0
67.5°	522.0	257.5	4.2	3.7	4.7	4.7	2.8	0.9	0.0	0.0	0.0
70°	288.9	144.7	2.8	1.9	2.3	1.4	0.5	0.0	0.0	0.0	0.0
72.5°	83.3	41.2	1.4	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	22.5	9.8	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.8	3.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.0	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)