

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: P676596

Luminaire Tested: **CCW-SA-1B-827-U-T4FT-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676596  
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-T4FT-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/  
T4FT distribution lens and House Side Shield  
Light Source: (16) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

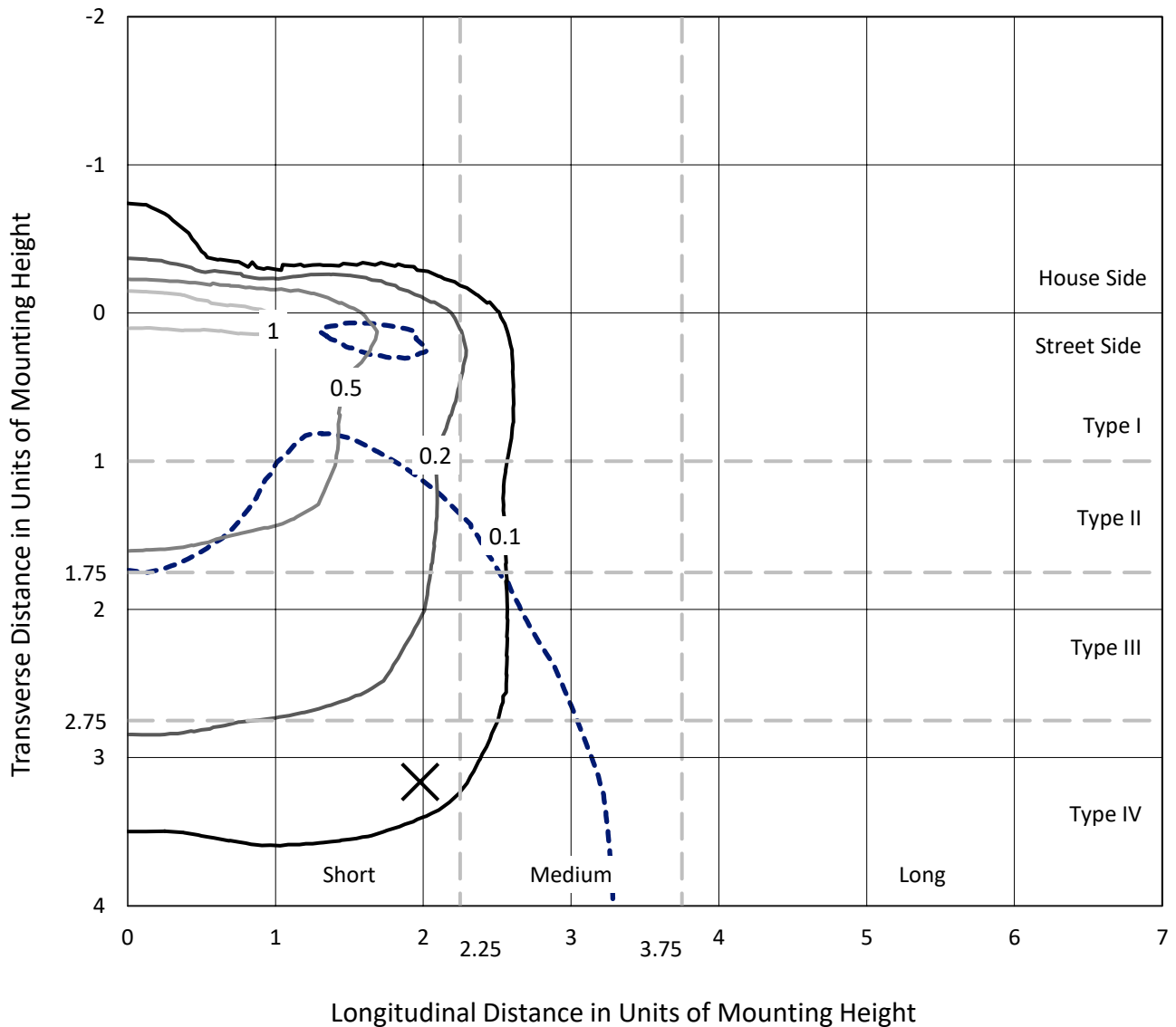
Lumens per Lamp: N/A  
Luminaire Lumens: 1822.9 lumens  
Efficiency: N/A  
Efficacy: 76.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

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

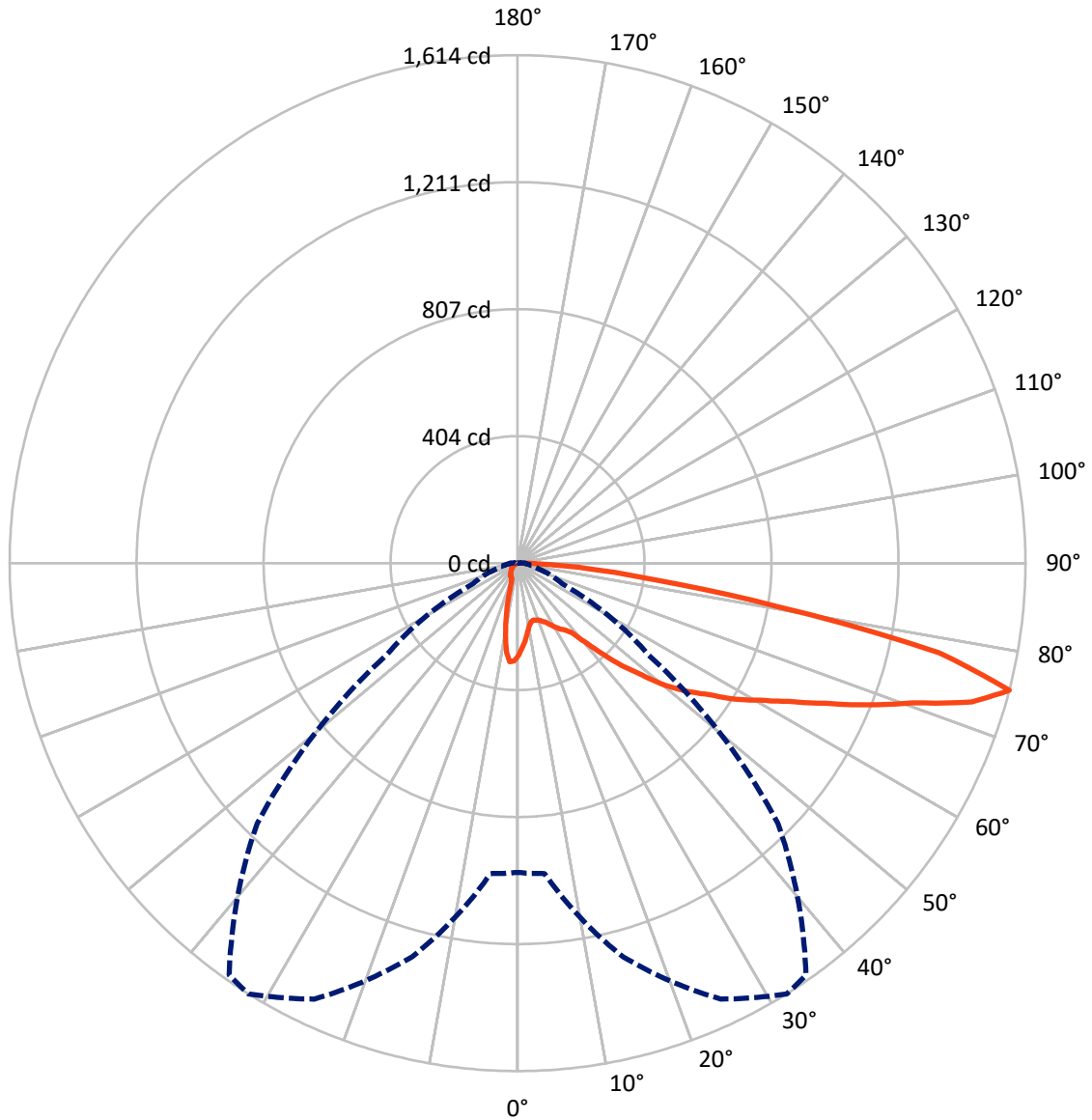
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P676596  
CATALOG NUMBER: CCW-SA-1B-827-U-T4FT-HSS

### 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	196.9	0.0	196.9
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	1626.0	0.0	1626.0
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	1822.9	0.0	1822.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.9	1.4
10°-20°	58.7	3.2
20°-30°	87.9	4.8
30°-40°	135.0	7.4
40°-50°	236.0	12.9
50°-60°	368.9	20.2
60°-70°	477.0	26.2
70°-80°	388.5	21.3
80°-90°	45.0	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°	1822.9	100.0
0°-180°	1822.9	100.0

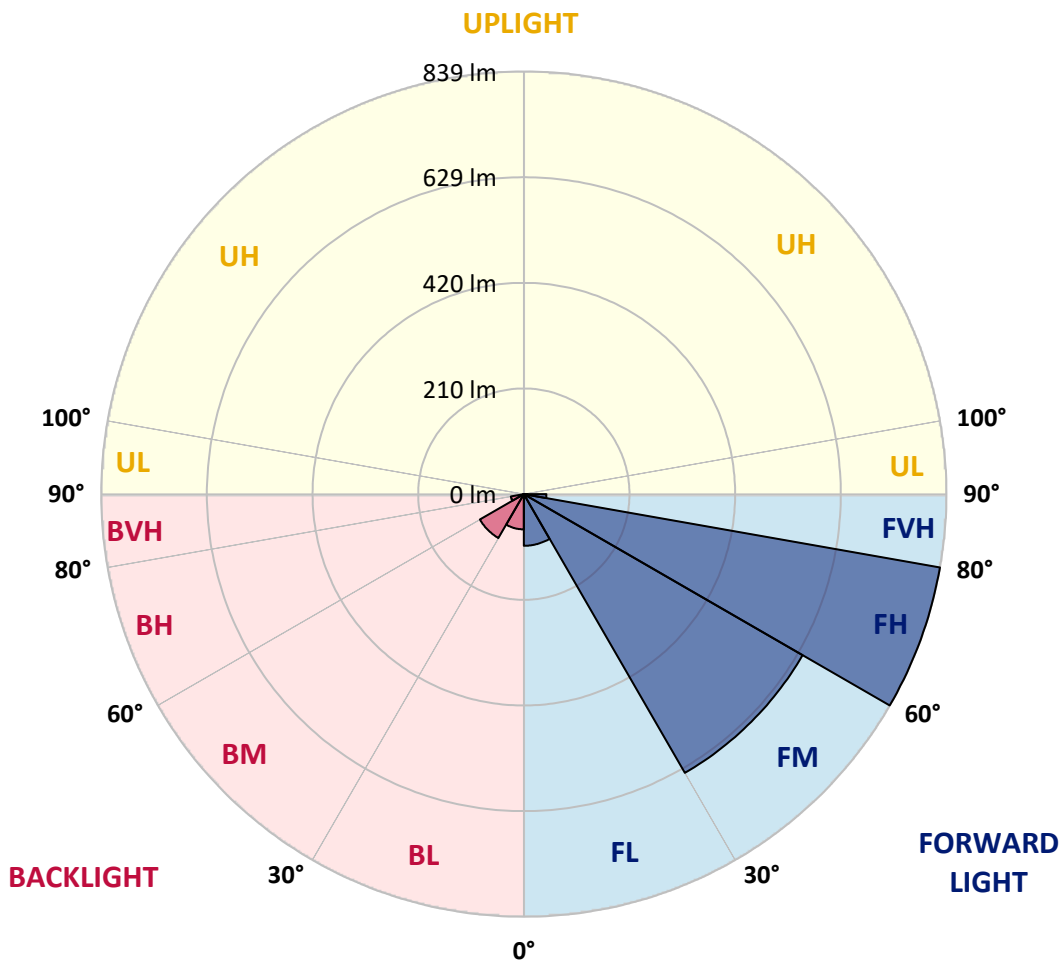


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	102.6	5.6			
FM (30°-60°)	639.2	35.1			
FH (60°-80°)	839.3	46.0			G1/1800
FVH (80°-90°)	44.9	2.5			G1/100
BL (0°-30°)	70.0	3.8	B0/110		
BM (30°-60°)	100.8	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





REPORT NUMBER: P676596

CATALOG NUMBER: CCW-SA-1B-827-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3
2.5°	264.0	267.7	267.2	269.6	270.1	271.5	274.7	274.7	284.1	290.6	294.8
5°	240.2	237.8	238.7	241.6	248.6	248.1	256.0	260.2	271.5	280.8	290.6
7.5°	210.7	210.2	212.1	218.7	223.8	228.0	236.4	247.2	262.1	276.1	293.4
10°	192.0	191.1	194.8	196.7	202.8	205.6	218.7	235.5	253.2	273.3	293.4
12.5°	187.8	184.6	186.4	186.0	191.6	193.0	205.6	226.1	247.6	272.4	297.2
15°	190.2	187.8	186.0	186.0	187.4	188.3	201.8	220.1	244.4	273.8	305.6
17.5°	197.6	196.2	190.6	185.0	191.1	191.1	199.5	218.7	244.8	278.0	315.8
20°	206.5	205.1	195.3	188.8	193.0	197.6	206.5	221.9	246.2	281.3	331.7
22.5°	216.3	216.3	202.8	195.3	200.9	201.4	217.3	232.2	251.8	289.7	342.0
25°	228.5	227.5	214.5	206.0	207.9	213.1	227.5	243.4	262.1	301.4	361.2
27.5°	244.4	243.0	227.5	219.1	221.5	227.1	243.4	259.3	271.5	306.0	377.5
30°	257.4	256.0	243.4	230.8	235.9	241.1	260.2	274.3	283.1	314.9	396.2
32.5°	260.2	257.9	249.5	243.9	249.5	259.3	274.3	288.7	302.3	337.3	431.7
35°	292.5	284.1	262.1	253.2	261.6	264.9	289.7	315.4	328.5	355.1	471.4
37.5°	354.2	346.2	317.2	292.5	280.8	284.5	316.8	348.5	361.2	388.3	514.9
40°	429.8	416.8	385.9	352.8	328.9	324.3	345.3	392.0	404.1	429.8	571.9
42.5°	516.3	503.7	456.0	416.8	392.5	386.4	389.7	442.5	452.7	468.2	609.3
45°	578.4	571.9	518.1	483.1	463.9	457.4	449.5	497.6	510.7	515.8	663.5
47.5°	614.4	609.7	579.8	556.0	530.3	523.3	528.4	574.2	565.3	569.5	715.3
50°	662.5	650.4	609.7	617.2	612.1	610.2	619.1	639.2	626.1	613.9	771.8
52.5°	701.3	679.8	651.3	669.5	677.5	684.5	715.8	730.7	672.3	653.6	808.3
55°	725.1	704.6	712.0	728.9	737.3	769.5	806.4	795.2	702.7	685.4	856.9
57.5°	746.6	748.0	768.1	773.2	816.2	821.8	892.9	856.4	724.2	714.4	876.0
60°	798.5	793.3	809.7	842.9	884.0	915.3	983.0	897.5	734.9	729.3	870.9
62.5°	891.9	860.2	865.8	907.8	968.1	1002.2	1034.9	916.2	732.1	731.7	855.5
65°	1010.6	974.2	957.3	996.6	1074.6	1122.7	1093.3	937.2	713.4	726.5	798.0
67.5°	1109.2	1109.6	1078.3	1100.3	1202.2	1212.4	1148.4	933.0	682.1	685.9	657.8
70°	1222.7	1238.1	1210.6	1279.2	1330.2	1336.7	1211.5	898.5	614.9	517.2	378.0
72.5°	1251.7	1259.6	1345.6	1451.2	1508.7	1510.5	1273.6	783.1	404.6	228.5	117.3
75°	983.0	990.5	1295.1	1528.7	1614.2	1597.9	1169.9	508.3	157.5	66.8	28.0
77.5°	548.5	550.9	804.1	1235.8	1369.4	1303.5	819.5	198.1	63.5	38.3	13.1
80°	150.0	176.1	298.1	609.3	836.3	820.9	390.1	64.5	41.1	29.9	6.1
82.5°	36.0	38.8	95.8	269.6	442.0	461.1	116.3	32.7	28.5	24.8	3.3
85°	13.1	14.5	29.4	131.3	227.1	208.4	35.0	16.4	21.0	19.2	1.4
87.5°	4.7	4.7	9.3	43.0	66.3	50.0	11.7	5.6	10.7	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



REPORT NUMBER: P676596

CATALOG NUMBER: CCW-SA-1B-827-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3
2.5°	295.3	295.3	301.8	307.4	309.3	311.6	309.3	314.4	314.0	311.6	312.6
5°	295.7	304.2	309.8	313.5	315.4	314.9	315.8	310.2	307.0	304.6	302.3
7.5°	298.1	306.0	316.3	315.4	310.2	299.5	291.1	276.1	261.6	261.2	258.8
10°	306.0	313.0	319.1	315.4	296.7	264.0	237.3	217.3	199.0	190.6	191.6
12.5°	311.6	324.7	321.9	302.8	264.0	221.0	181.7	152.3	136.0	120.5	120.5
15°	323.3	328.0	327.1	284.5	223.8	172.4	124.7	94.8	77.6	70.6	69.6
17.5°	334.5	339.7	323.8	257.0	184.1	115.9	75.7	58.9	56.5	55.6	56.1
20°	348.5	349.0	321.0	229.4	138.3	73.4	54.2	52.8	53.3	52.8	52.8
22.5°	363.5	366.8	311.2	190.6	92.0	53.3	50.5	50.9	50.9	50.9	52.3
25°	383.1	378.0	295.7	153.7	60.3	49.1	49.1	49.5	49.5	49.5	50.0
27.5°	396.2	389.2	276.1	110.7	47.2	46.3	47.2	47.2	48.1	48.1	48.1
30°	423.3	405.1	251.4	71.5	42.5	43.9	44.9	45.8	46.3	47.2	47.7
32.5°	444.3	419.1	220.5	47.7	38.8	39.7	42.0	43.9	45.8	45.3	45.3
35°	482.6	442.0	192.0	37.8	35.5	35.5	37.8	41.1	43.9	44.9	44.9
37.5°	526.6	460.7	152.3	34.6	32.7	32.7	34.1	37.8	41.6	43.5	42.5
40°	563.0	482.2	112.6	32.2	30.4	30.4	31.3	34.1	38.3	41.6	42.0
42.5°	588.7	498.1	76.2	29.9	28.5	28.0	29.4	30.8	34.1	38.8	39.7
45°	612.1	506.5	47.2	27.6	26.6	26.6	26.6	28.0	30.4	34.6	35.5
47.5°	653.6	515.8	34.1	25.7	24.3	24.8	25.2	25.7	27.6	28.5	29.0
50°	688.7	522.8	28.0	23.8	22.9	23.4	23.4	23.4	24.3	22.9	22.9
52.5°	715.3	515.8	23.8	22.0	21.0	21.5	21.0	21.0	20.1	18.2	18.2
55°	734.9	503.2	19.2	20.1	20.1	20.1	19.2	17.8	15.9	14.5	14.5
57.5°	740.1	481.7	15.0	16.8	18.2	18.2	16.4	14.5	12.1	10.7	10.3
60°	732.1	435.0	11.2	12.1	14.0	14.5	13.1	10.7	8.4	7.0	7.0
62.5°	703.6	398.1	8.9	7.9	10.3	10.7	9.3	7.0	4.7	3.3	2.8
65°	649.4	341.1	6.5	5.6	7.0	7.5	6.1	3.3	1.4	0.5	0.0
67.5°	520.9	257.0	4.2	3.7	4.7	4.7	2.8	0.9	0.0	0.0	0.0
70°	288.3	144.4	2.8	1.9	2.3	1.4	0.5	0.0	0.0	0.0	0.0
72.5°	83.2	41.1	1.4	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	22.4	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)