

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: P676617

Luminaire Tested: **CCW-SA-1A-835-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676617
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-835-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
T4FT distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

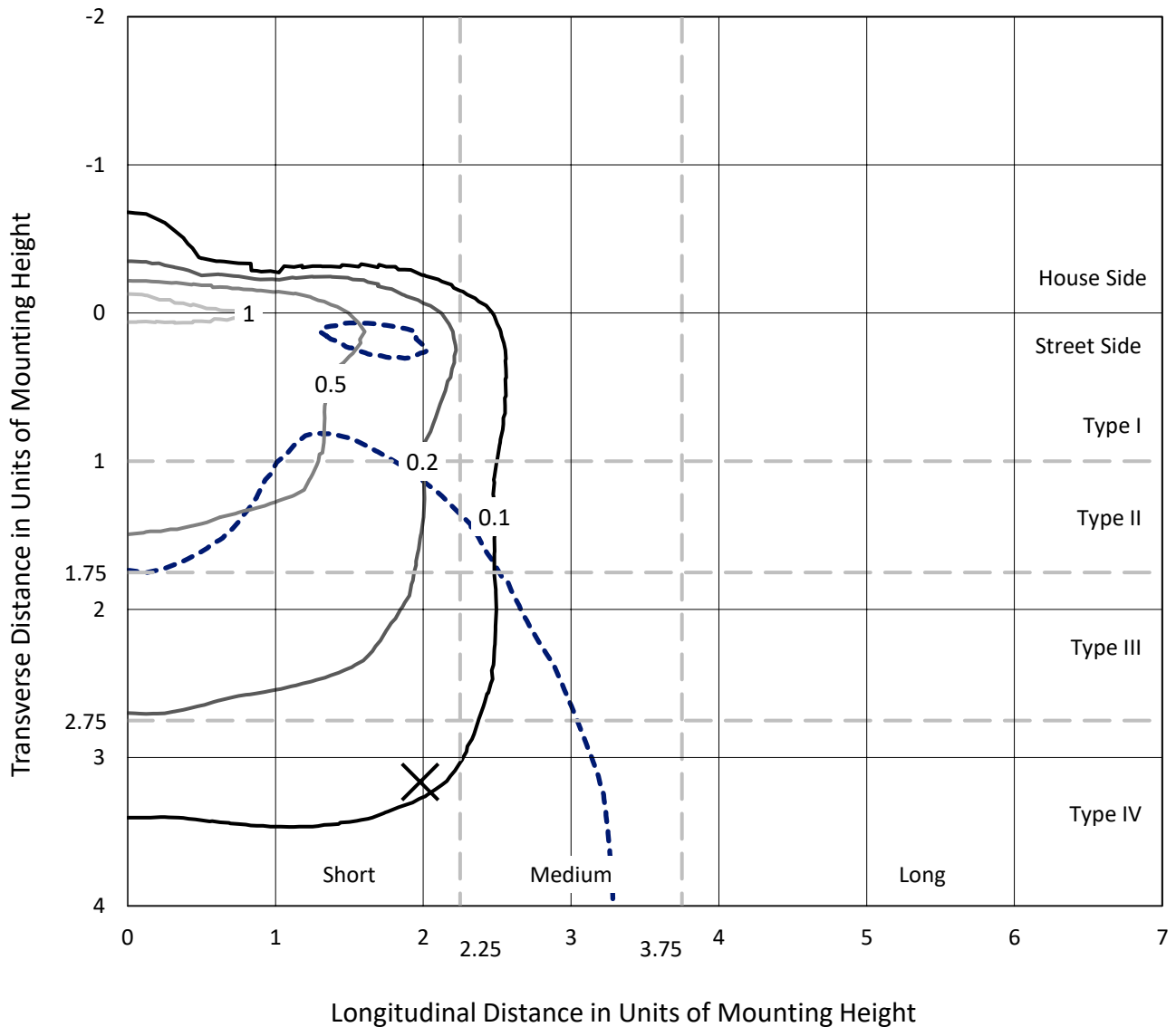
Lumens per Lamp: N/A
Luminaire Lumens: 1618.7 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 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

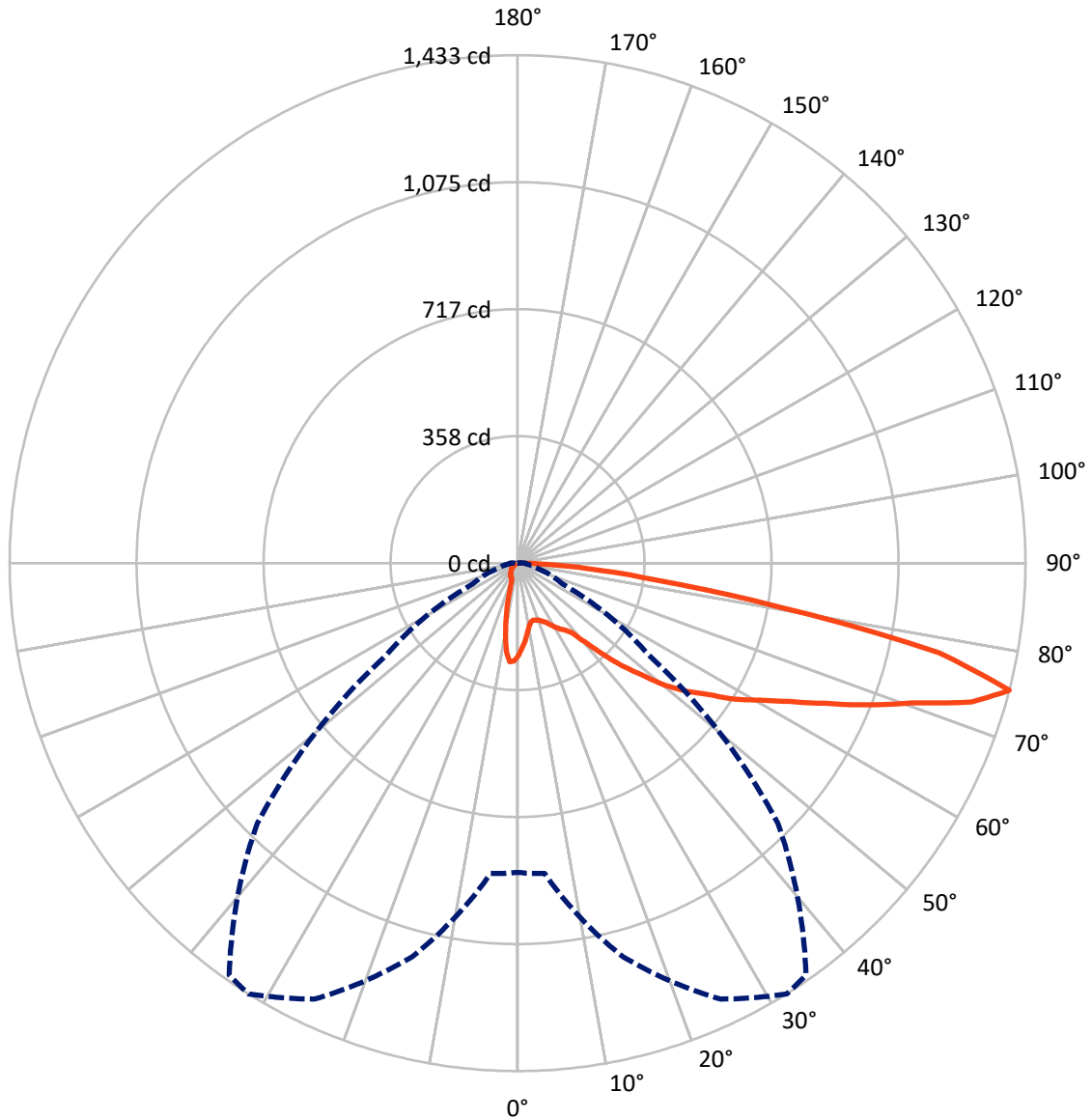
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.2 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
House Side	Lumens	174.9	0.0	174.9
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	1443.8	0.0	1443.8
	% Fixture	89.2	0.0	89.2
Total	Lumens	1618.7	0.0	1618.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.0	1.4
10°-20°	52.1	3.2
20°-30°	78.1	4.8
30°-40°	119.8	7.4
40°-50°	209.6	12.9
50°-60°	327.6	20.2
60°-70°	423.5	26.2
70°-80°	345.0	21.3
80°-90°	39.9	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°	1618.7	100.0
0°-180°	1618.7	100.0



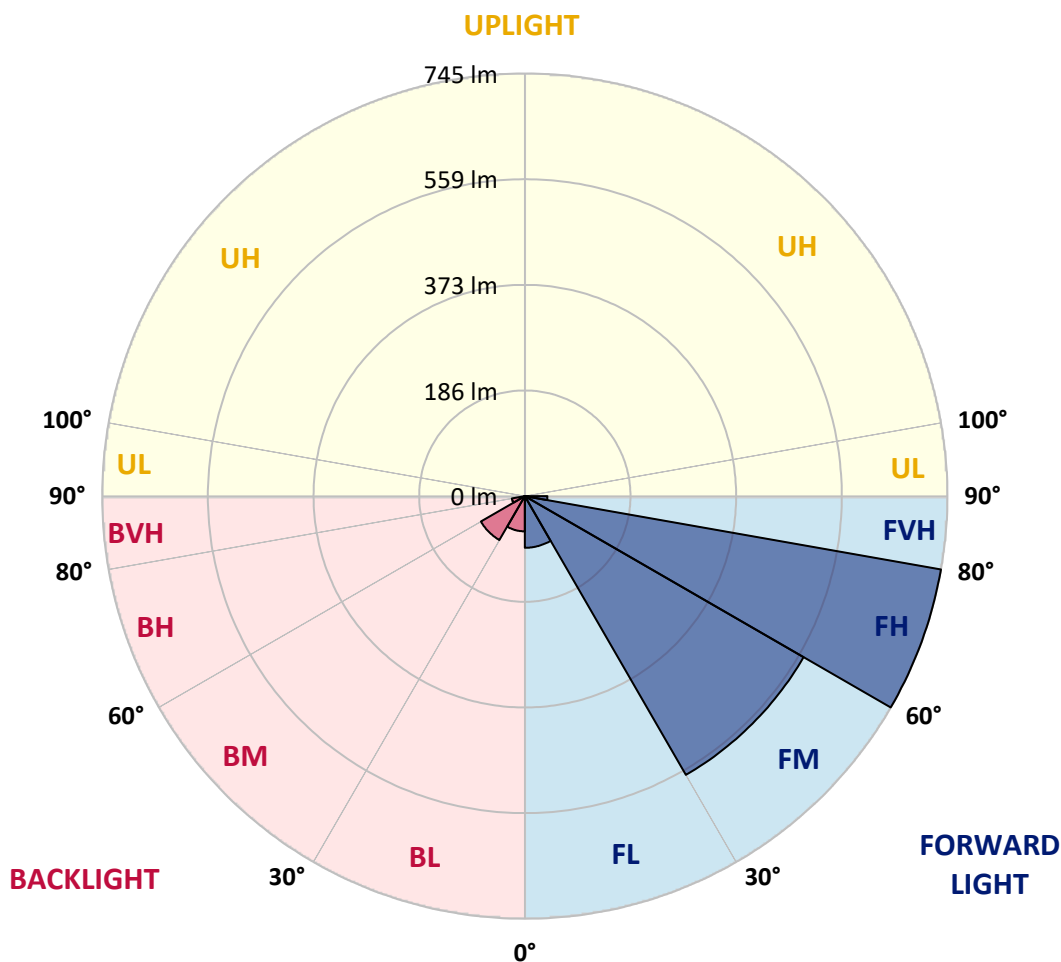
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	91.1	5.6			
FM (30°-60°)	567.6	35.1			
FH (60°-80°)	745.3	46.0			G1/1800
FVH (80°-90°)	39.9	2.5			G1/100
BL (0°-30°)	62.1	3.8	B0/110		
BM (30°-60°)	89.5	5.5	B0/220		
BH (60°-80°)	23.3	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°	261.4	261.4	261.4	261.4	261.4	261.4	261.4	261.4	261.4	261.4	261.4
2.5°	234.4	237.7	237.3	239.4	239.8	241.0	243.9	243.9	252.2	258.1	261.8
5°	213.2	211.2	212.0	214.5	220.7	220.3	227.4	231.1	241.0	249.3	258.1
7.5°	187.1	186.7	188.4	194.2	198.7	202.5	209.9	219.5	232.7	245.2	260.5
10°	170.5	169.7	173.0	174.7	180.1	182.5	194.2	209.1	224.9	242.7	260.5
12.5°	166.8	163.9	165.5	165.1	170.1	171.3	182.5	200.8	219.9	241.9	263.9
15°	168.9	166.8	165.1	165.1	166.4	167.2	179.2	195.4	217.0	243.1	271.3
17.5°	175.5	174.2	169.3	164.3	169.7	169.7	177.2	194.2	217.4	246.8	280.5
20°	183.4	182.1	173.4	167.6	171.3	175.5	183.4	197.1	218.6	249.8	294.6
22.5°	192.1	192.1	180.1	173.4	178.4	178.8	192.9	206.2	223.6	257.2	303.7
25°	202.9	202.0	190.4	183.0	184.6	189.2	202.0	216.1	232.7	267.6	320.7
27.5°	217.0	215.7	202.0	194.6	196.7	201.6	216.1	230.3	241.0	271.7	335.2
30°	228.6	227.4	216.1	204.9	209.5	214.1	231.1	243.5	251.4	279.6	351.8
32.5°	231.1	229.0	221.5	216.6	221.5	230.3	243.5	256.4	268.4	299.5	383.3
35°	259.7	252.2	232.7	224.9	232.3	235.2	257.2	280.0	291.7	315.3	418.6
37.5°	314.5	307.4	281.7	259.7	249.3	252.7	281.3	309.5	320.7	344.8	457.2
40°	381.7	370.1	342.7	313.2	292.1	287.9	306.6	348.1	358.9	381.7	507.8
42.5°	458.4	447.2	404.9	370.1	348.5	343.1	346.0	392.9	402.0	415.7	541.0
45°	513.6	507.8	460.1	429.0	412.0	406.2	399.1	441.8	453.5	458.0	589.1
47.5°	545.6	541.4	514.9	493.7	470.9	464.7	469.2	509.9	502.0	505.7	635.2
50°	588.3	577.5	541.4	548.0	543.5	541.8	549.7	567.5	555.9	545.1	685.4
52.5°	622.7	603.6	578.3	594.5	601.6	607.8	635.6	648.9	597.0	580.4	717.7
55°	643.9	625.6	632.3	647.2	654.7	683.3	716.1	706.1	624.0	608.6	760.9
57.5°	663.0	664.2	682.1	686.6	724.8	729.8	792.8	760.5	643.1	634.3	777.9
60°	709.0	704.5	719.0	748.4	784.9	812.7	872.9	797.0	652.6	647.6	773.3
62.5°	792.0	763.8	768.8	806.1	859.6	889.9	918.9	813.6	650.1	649.7	759.6
65°	897.4	865.0	850.1	884.9	954.2	996.9	970.8	832.2	633.5	645.1	708.6
67.5°	984.9	985.3	957.5	977.0	1067.5	1076.6	1019.8	828.5	605.7	609.0	584.1
70°	1085.7	1099.4	1074.9	1135.9	1181.1	1187.0	1075.8	797.8	546.0	459.3	335.6
72.5°	1111.4	1118.5	1194.8	1288.6	1339.6	1341.3	1130.9	695.3	359.3	202.9	104.1
75°	872.9	879.5	1150.0	1357.5	1433.4	1418.9	1038.8	451.4	139.8	59.3	24.9
77.5°	487.1	489.1	714.0	1097.3	1216.0	1157.5	727.7	175.9	56.4	34.0	11.6
80°	133.2	156.4	264.7	541.0	742.6	728.9	346.4	57.3	36.5	26.6	5.4
82.5°	31.9	34.4	85.0	239.4	392.5	409.5	103.3	29.0	25.3	22.0	2.9
85°	11.6	12.9	26.1	116.6	201.6	185.0	31.1	14.5	18.7	17.0	1.2
87.5°	4.1	4.1	8.3	38.2	58.9	44.4	10.4	5.0	9.5	10.4	0.4
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°	261.4	261.4	261.4	261.4	261.4	261.4	261.4	261.4	261.4	261.4	261.4
2.5°	262.2	262.2	268.0	273.0	274.6	276.7	274.6	279.2	278.8	276.7	277.6
5°	262.6	270.1	275.1	278.4	280.0	279.6	280.5	275.5	272.6	270.5	268.4
7.5°	264.7	271.7	280.9	280.0	275.5	265.9	258.5	245.2	232.3	231.9	229.8
10°	271.7	278.0	283.4	280.0	263.4	234.4	210.8	192.9	176.7	169.3	170.1
12.5°	276.7	288.3	285.8	268.8	234.4	196.2	161.4	135.2	120.7	107.0	107.0
15°	287.1	291.2	290.4	252.7	198.7	153.1	110.8	84.2	68.9	62.6	61.8
17.5°	297.0	301.6	287.5	228.2	163.5	102.9	67.2	52.3	50.2	49.4	49.8
20°	309.5	309.9	285.0	203.7	122.8	65.1	48.1	46.9	47.3	46.9	46.9
22.5°	322.8	325.7	276.3	169.3	81.7	47.3	44.8	45.2	45.2	45.2	46.5
25°	340.2	335.6	262.6	136.5	53.5	43.6	43.6	44.0	44.0	44.0	44.4
27.5°	351.8	345.6	245.2	98.3	41.9	41.1	41.9	41.9	42.7	42.7	42.7
30°	375.9	359.7	223.2	63.5	37.8	39.0	39.8	40.7	41.1	41.9	42.3
32.5°	394.5	372.1	195.8	42.3	34.4	35.3	37.3	39.0	40.7	40.2	40.2
35°	428.6	392.5	170.5	33.6	31.5	31.5	33.6	36.5	39.0	39.8	39.8
37.5°	467.6	409.1	135.2	30.7	29.0	29.0	30.3	33.6	36.9	38.6	37.8
40°	499.9	428.1	100.0	28.6	27.0	27.0	27.8	30.3	34.0	36.9	37.3
42.5°	522.7	442.3	67.6	26.6	25.3	24.9	26.1	27.4	30.3	34.4	35.3
45°	543.5	449.7	41.9	24.5	23.6	23.6	23.6	24.9	27.0	30.7	31.5
47.5°	580.4	458.0	30.3	22.8	21.6	22.0	22.4	22.8	24.5	25.3	25.7
50°	611.5	464.2	24.9	21.2	20.3	20.7	20.7	20.7	21.6	20.3	20.3
52.5°	635.2	458.0	21.2	19.5	18.7	19.1	18.7	18.7	17.8	16.2	16.2
55°	652.6	446.8	17.0	17.8	17.8	17.8	17.0	15.8	14.1	12.9	12.9
57.5°	657.2	427.7	13.3	14.9	16.2	16.2	14.5	12.9	10.8	9.5	9.1
60°	650.1	386.2	10.0	10.8	12.4	12.9	11.6	9.5	7.5	6.2	6.2
62.5°	624.8	353.5	7.9	7.1	9.1	9.5	8.3	6.2	4.1	2.9	2.5
65°	576.7	302.9	5.8	5.0	6.2	6.6	5.4	2.9	1.2	0.4	0.0
67.5°	462.6	228.2	3.7	3.3	4.1	4.1	2.5	0.8	0.0	0.0	0.0
70°	256.0	128.2	2.5	1.7	2.1	1.2	0.4	0.0	0.0	0.0	0.0
72.5°	73.8	36.5	1.2	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	19.9	8.7	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.7	3.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.4	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)