

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: P673605

Luminaire Tested: **CCP-SA-1A-835-U-T4W-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P673605  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1A-835-U-T4W-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @350mA w/ T4W 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: 1626.4 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

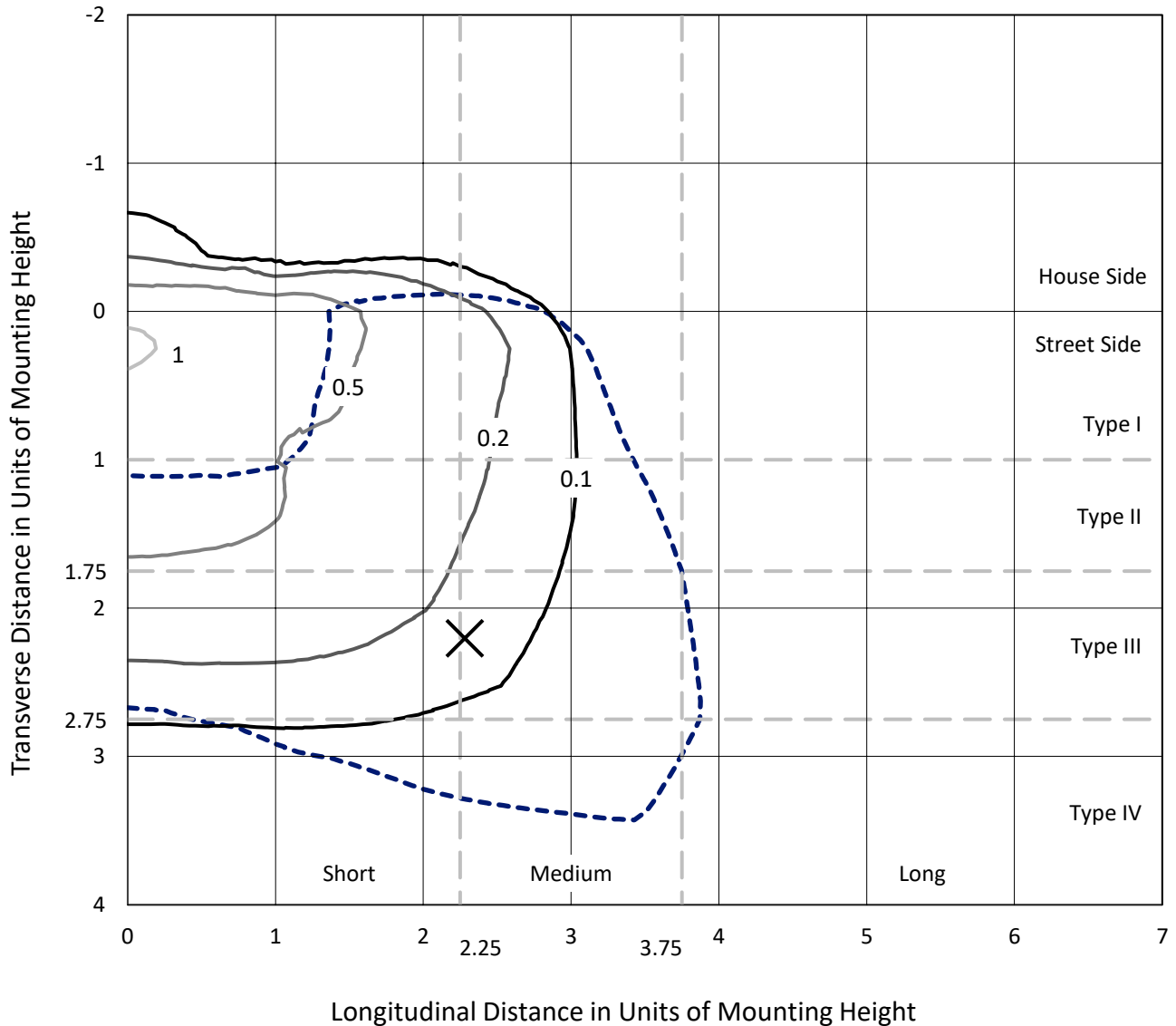
Input Watts (W): 18  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

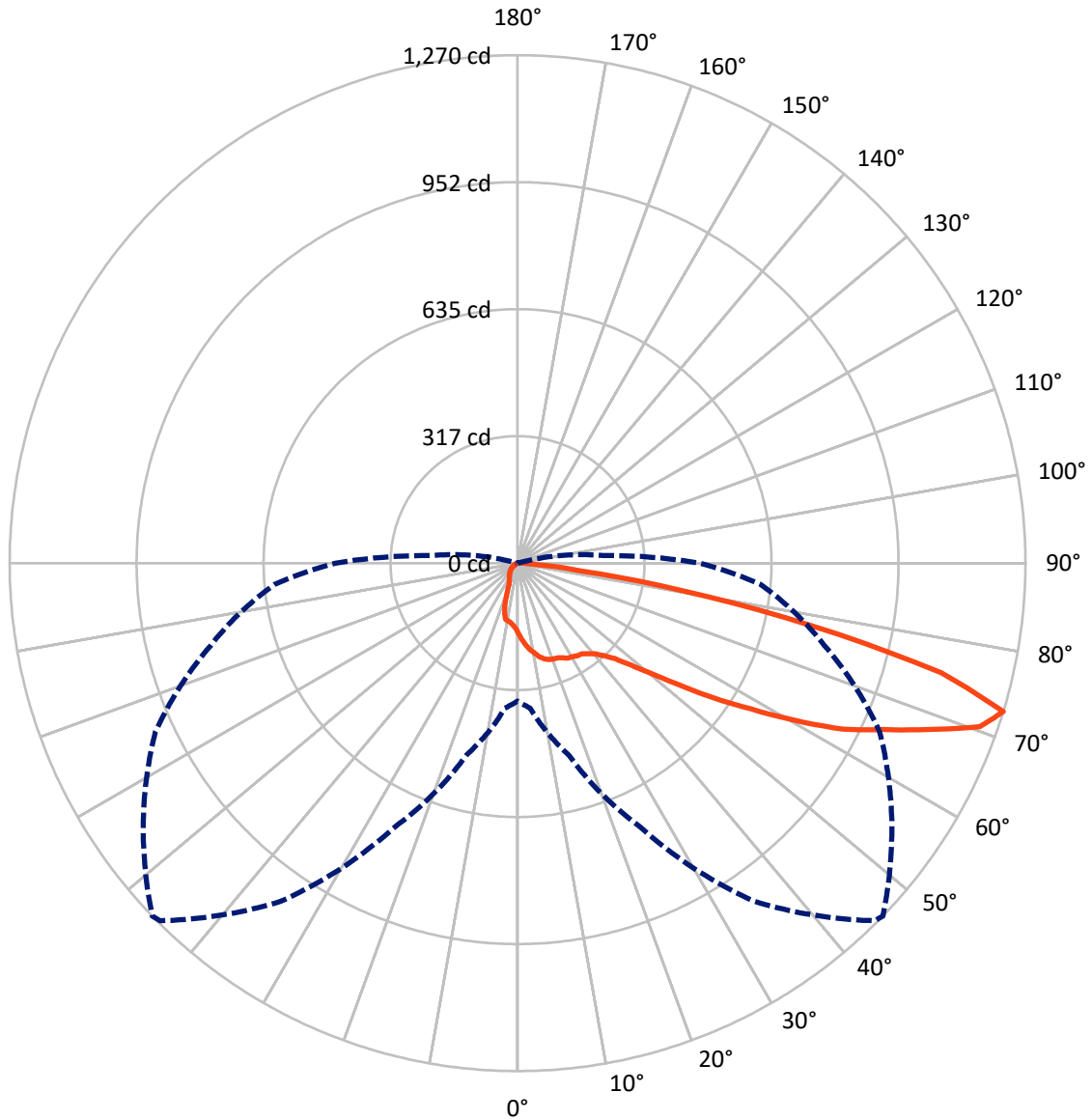
× Max cd  
 - - - 1/2 Max cd



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	175.1	0.0	175.1
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	1451.3	0.0	1451.3
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	1626.4	0.0	1626.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.4	1.1
10°-20°	52.5	3.2
20°-30°	82.2	5.1
30°-40°	115.2	7.1
40°-50°	189.9	11.7
50°-60°	341.3	21.0
60°-70°	494.7	30.4
70°-80°	308.7	19.0
80°-90°	24.5	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°	1626.4	100.0
0°-180°	1626.4	100.0

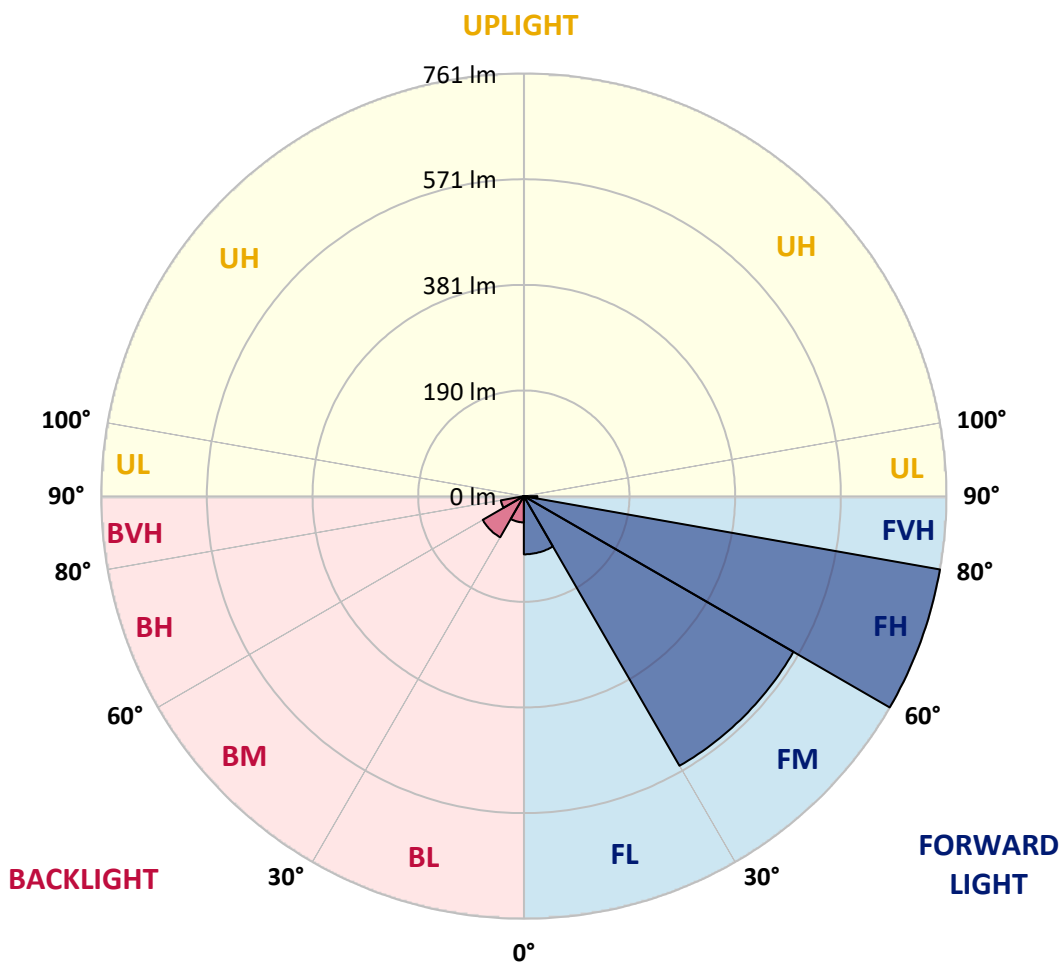


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	104.8	6.4			
FM (30°-60°)	560.8	34.5			
FH (60°-80°)	761.3	46.8			G1/1800
FVH (80°-90°)	24.3	1.5			G1/100
BL (0°-30°)	47.3	2.9	B0/110		
BM (30°-60°)	85.5	5.3	B0/220		
BH (60°-80°)	42.1	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°	173.8	173.8	173.8	173.8	173.8	173.8	173.8	173.8	173.8	173.8	173.8
2.5°	194.6	193.7	195.0	194.6	189.6	190.4	190.0	186.7	180.9	177.6	175.5
5°	217.0	219.0	217.4	213.7	210.7	204.9	204.1	198.7	189.6	183.8	177.6
7.5°	240.2	240.2	236.9	231.1	224.9	218.6	217.8	208.7	200.8	190.8	182.1
10°	257.6	255.6	253.1	246.8	239.8	231.5	227.3	220.7	212.0	200.0	188.8
12.5°	273.0	269.7	265.5	256.4	248.1	239.0	239.8	229.0	223.2	212.4	195.8
15°	281.7	278.8	275.1	266.8	253.9	249.7	248.1	241.4	231.1	220.3	204.5
17.5°	283.8	281.7	276.7	265.9	258.9	253.9	253.5	245.6	241.0	231.9	214.5
20°	279.6	275.9	272.1	265.1	258.5	256.8	255.6	255.6	249.7	237.7	220.7
22.5°	272.6	268.4	266.3	262.2	256.8	256.4	257.2	256.4	251.8	243.9	227.3
25°	267.2	265.1	261.8	260.5	257.2	263.4	262.2	260.9	259.7	250.6	237.7
27.5°	268.8	268.4	265.9	260.9	258.5	265.1	268.8	269.2	268.8	259.7	247.3
30°	269.7	267.6	265.1	263.9	264.7	271.3	271.3	280.4	276.7	267.6	256.8
32.5°	279.2	278.0	269.7	266.8	267.2	275.1	275.5	284.6	283.4	277.1	265.1
35°	299.5	291.2	279.2	270.9	270.9	281.3	278.0	291.2	294.6	284.6	270.9
37.5°	329.8	323.6	302.0	283.4	276.3	283.8	287.1	294.6	304.5	295.8	282.5
40°	390.0	388.7	358.0	317.8	290.0	296.6	297.9	309.5	316.1	304.1	300.4
42.5°	477.9	471.7	443.1	379.6	314.9	312.0	316.5	324.0	339.8	329.8	320.7
45°	563.8	560.9	532.3	461.3	360.1	342.7	340.2	353.5	376.7	365.9	358.9
47.5°	626.0	620.2	604.0	544.3	426.5	378.8	380.4	393.7	423.2	414.9	416.9
50°	673.7	670.8	653.8	621.0	510.3	435.6	432.3	445.6	485.4	490.8	496.6
52.5°	726.0	731.4	708.6	680.8	609.4	511.9	504.5	509.0	560.5	572.9	589.1
55°	776.2	784.9	762.1	758.4	713.1	596.6	595.3	584.5	650.9	652.6	661.3
57.5°	809.0	806.1	804.4	824.7	816.9	693.6	687.4	676.6	736.8	726.0	752.1
60°	811.5	819.8	847.6	897.8	911.9	807.7	798.6	769.2	811.1	785.3	835.1
62.5°	830.1	836.8	888.2	957.5	975.8	908.1	914.4	839.7	874.5	854.2	927.2
65°	782.8	803.6	906.9	1004.0	1059.6	1009.8	1003.5	930.5	939.7	920.6	1018.1
67.5°	740.1	748.0	855.9	1018.1	1125.9	1111.8	1109.3	1011.0	1006.9	971.6	1043.8
70°	601.5	611.1	717.7	945.9	1148.3	1230.9	1225.1	1123.9	1052.5	943.8	911.9
72.5°	344.7	363.8	497.4	728.5	1031.8	1264.1	1269.5	1142.1	998.6	793.6	609.0
75°	112.8	118.2	206.6	412.8	771.6	1102.7	1093.2	981.6	805.7	524.0	275.1
77.5°	38.2	39.0	61.0	149.4	427.7	745.1	750.5	701.5	494.9	217.8	75.9
80°	19.5	20.7	29.9	56.0	175.9	405.7	414.4	399.9	207.4	64.3	18.3
82.5°	9.1	9.5	17.4	31.1	80.5	159.3	159.3	175.1	73.4	36.1	7.5
85°	3.3	3.3	9.1	17.8	34.0	53.1	53.5	53.9	38.6	27.0	3.3
87.5°	1.2	1.2	4.6	7.5	12.4	16.2	16.2	12.9	19.5	17.8	1.2
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°	173.8	173.8	173.8	173.8	173.8	173.8	173.8	173.8	173.8	173.8	173.8
2.5°	174.7	172.2	170.1	167.2	163.5	161.4	161.8	159.3	159.3	158.1	157.6
5°	174.7	172.2	166.8	161.8	158.5	154.3	152.3	150.6	150.6	149.8	150.2
7.5°	175.9	172.2	164.7	158.1	152.7	148.5	145.2	144.8	144.0	141.9	143.5
10°	183.4	178.0	165.5	156.4	150.2	145.6	139.8	138.1	135.7	131.9	132.3
12.5°	189.6	182.5	171.3	158.9	151.0	143.5	130.3	115.7	109.5	102.9	103.3
15°	198.7	188.8	173.4	162.2	151.0	126.9	102.9	84.2	74.3	69.3	69.3
17.5°	203.7	195.4	179.2	164.3	139.0	103.3	73.0	56.8	55.2	56.0	56.0
20°	214.1	202.9	185.9	165.9	119.1	73.4	53.5	51.9	52.7	54.3	53.9
22.5°	220.7	209.5	190.8	158.5	92.1	52.7	50.2	49.4	50.2	52.3	52.3
25°	226.1	219.0	198.7	140.2	65.1	47.7	46.9	47.7	48.5	49.4	50.6
27.5°	239.4	227.3	204.1	116.6	46.9	44.4	45.2	45.6	45.6	46.9	47.3
30°	248.1	238.5	208.3	90.0	41.5	41.1	41.9	42.3	42.7	44.0	44.4
32.5°	256.4	253.1	202.9	61.0	39.0	38.2	37.8	38.2	39.8	41.1	40.7
35°	268.4	266.3	195.0	42.3	36.5	34.8	34.0	34.4	35.7	36.9	36.5
37.5°	282.9	285.0	175.9	36.9	34.0	31.9	30.3	30.3	30.7	31.9	32.4
40°	299.9	305.3	153.5	34.4	32.4	29.9	28.2	26.1	25.7	25.3	25.7
42.5°	331.1	337.3	128.2	32.8	29.9	27.0	24.5	22.0	19.9	18.7	18.7
45°	374.6	369.6	95.0	31.1	28.6	24.5	20.7	17.8	14.9	13.7	13.7
47.5°	434.8	417.8	65.1	29.5	26.6	21.6	17.4	13.7	11.2	10.0	10.0
50°	518.2	462.2	42.3	27.8	25.3	18.7	14.1	10.0	8.3	7.9	8.3
52.5°	597.0	507.4	33.6	25.7	22.8	16.2	10.8	8.3	7.5	7.1	7.1
55°	669.6	530.2	29.9	23.6	20.7	13.3	9.1	7.1	6.6	6.2	6.2
57.5°	731.0	538.1	25.7	20.7	16.6	10.4	7.5	6.2	5.4	5.0	5.0
60°	784.1	540.1	19.9	16.6	12.0	7.9	6.2	5.4	4.6	3.7	3.7
62.5°	826.4	525.6	14.1	11.6	8.3	6.2	5.4	3.7	2.5	1.7	1.2
65°	860.0	496.6	9.5	7.9	5.4	4.6	3.3	1.7	0.4	0.0	0.0
67.5°	820.6	430.6	7.5	5.8	3.7	2.9	1.7	0.4	0.0	0.0	0.0
70°	669.2	334.0	5.4	3.7	2.5	0.8	0.4	0.0	0.0	0.0	0.0
72.5°	455.5	215.3	4.1	2.5	1.2	0.4	0.0	0.0	0.0	0.0	0.0
75°	204.5	77.2	2.9	1.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	49.8	18.3	2.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	13.3	4.6	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.0	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)