

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: P676739

Luminaire Tested: **CCW-SA-1A-827-U-T4W-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676739  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1A-827-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, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

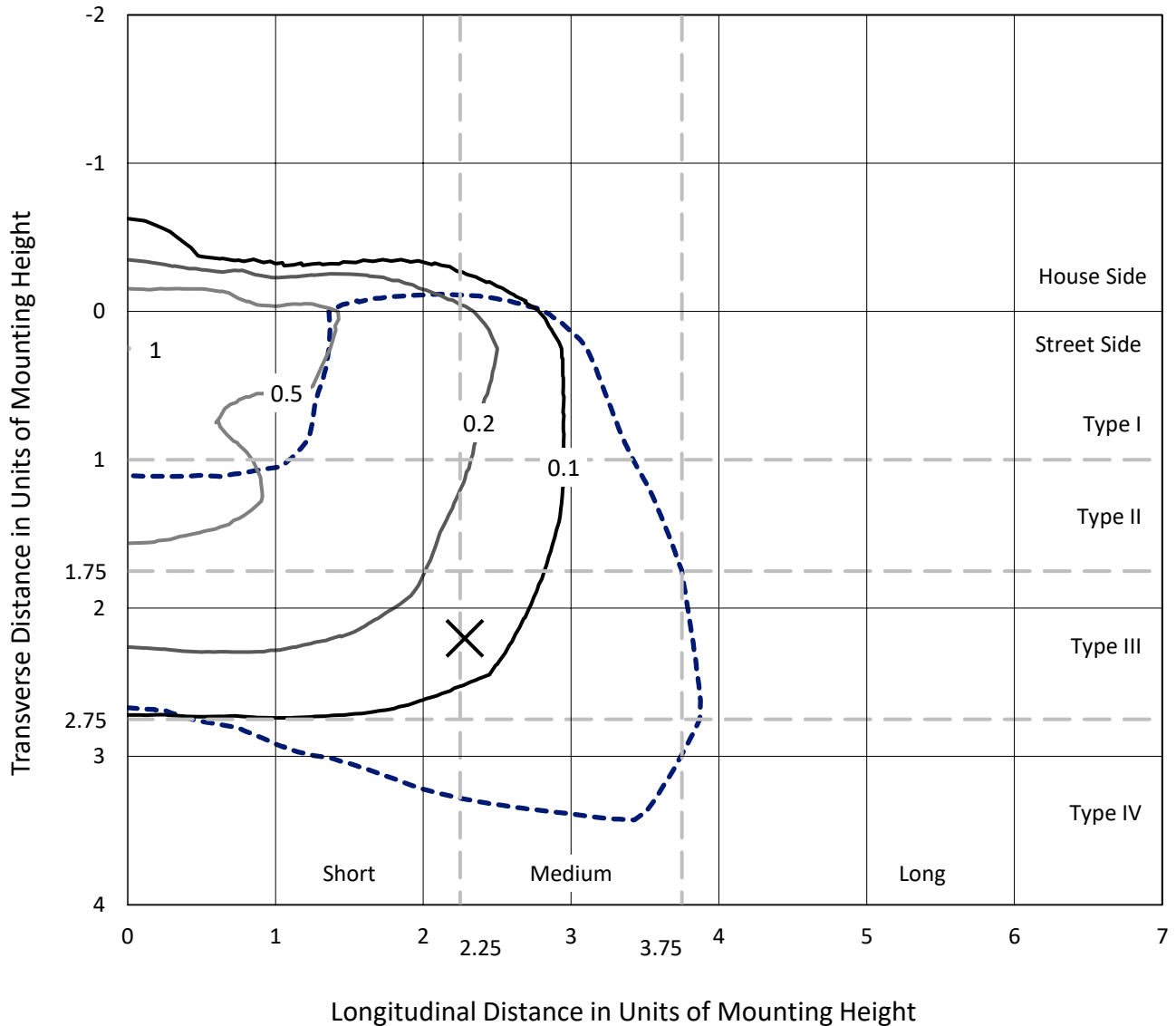
Lumens per Lamp: N/A  
Luminaire Lumens: 1451 lumens  
Efficiency: N/A  
Efficacy: 80.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

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

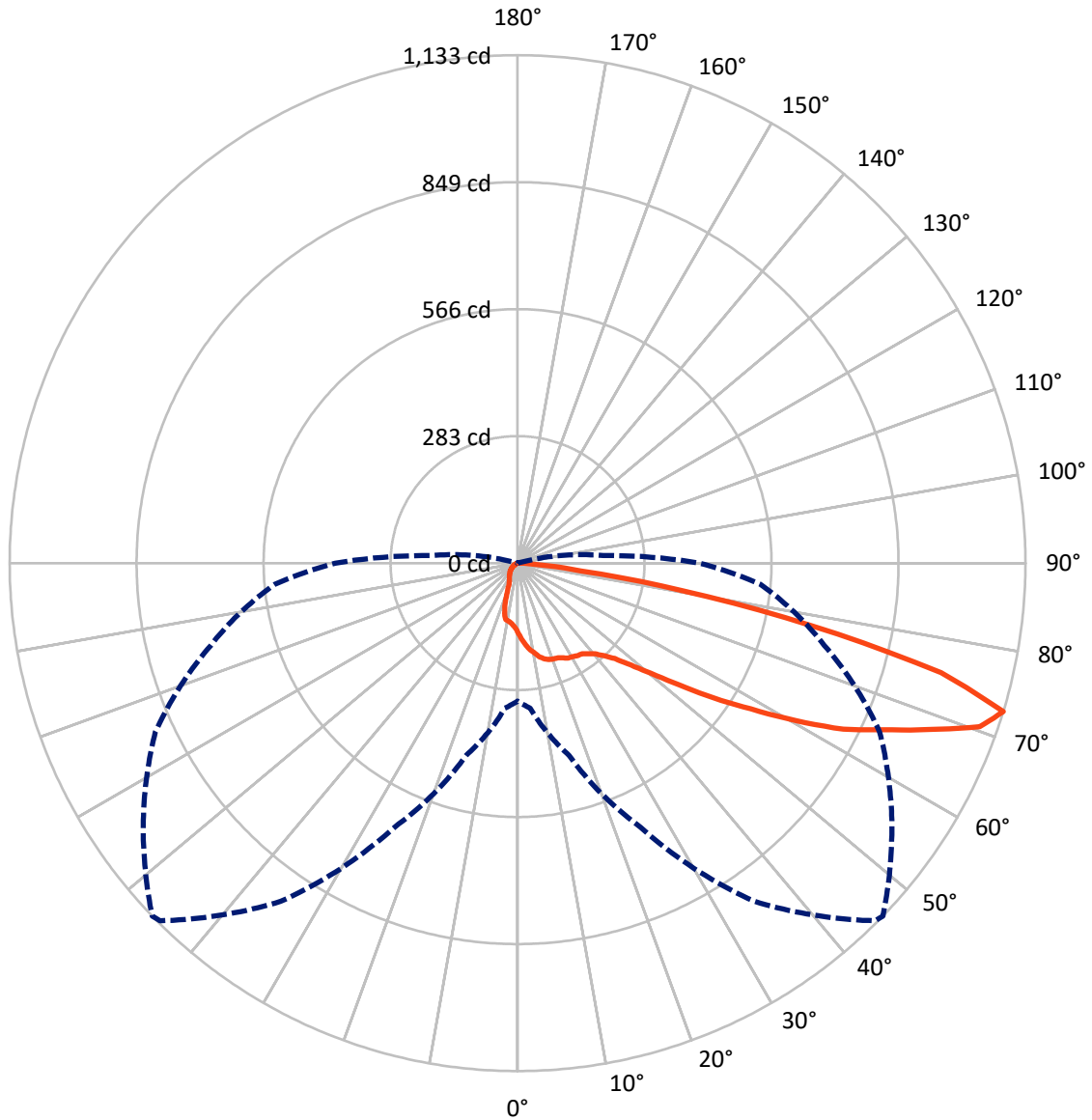
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1 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	156.2	0.0	156.2
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	1294.8	0.0	1294.8
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	1451.0	0.0	1451.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.5	1.1
10°-20°	46.9	3.2
20°-30°	73.4	5.1
30°-40°	102.7	7.1
40°-50°	169.4	11.7
50°-60°	304.5	21.0
60°-70°	441.3	30.4
70°-80°	275.4	19.0
80°-90°	21.8	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°	1451.0	100.0
0°-180°	1451.0	100.0

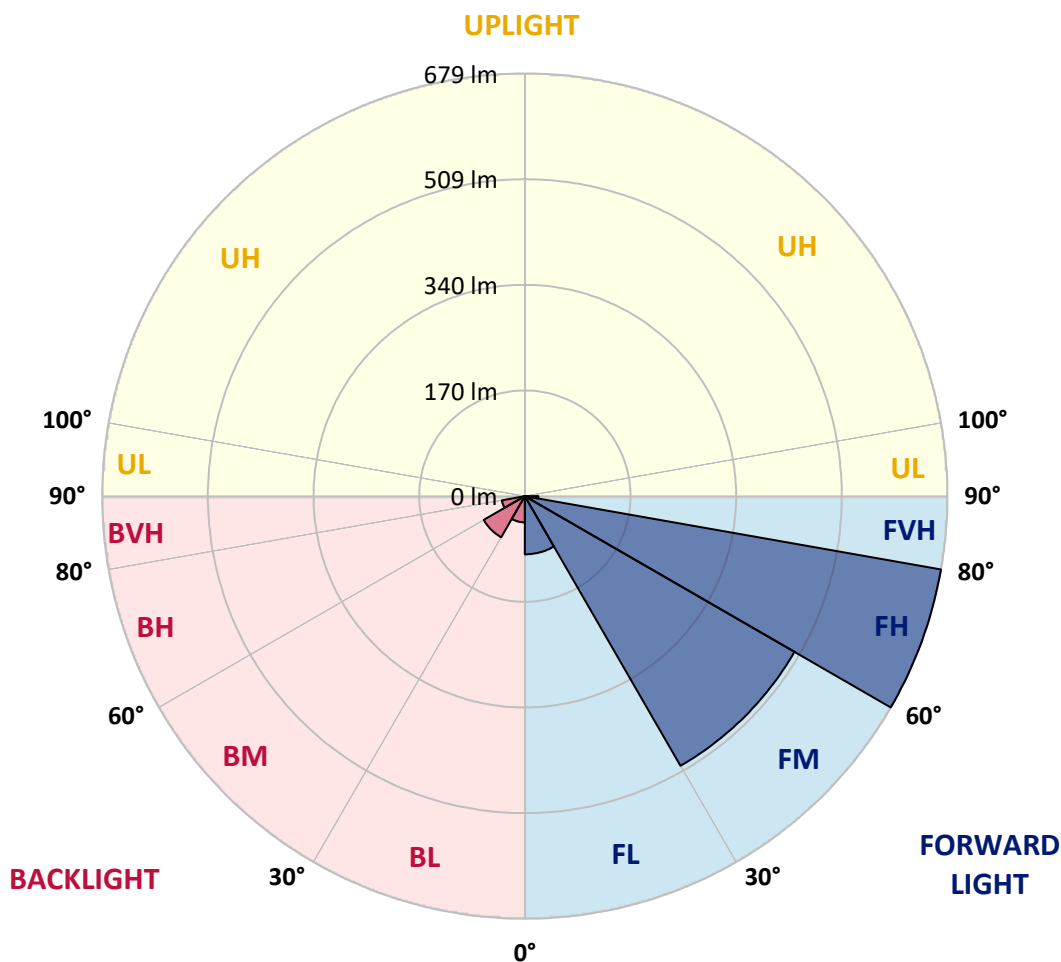


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	93.5	6.4			
FM (30°-60°)	500.3	34.5			
FH (60°-80°)	679.2	46.8			G1/1800
FVH (80°-90°)	21.7	1.5			G1/100
BL (0°-30°)	42.2	2.9	B0/110		
BM (30°-60°)	76.3	5.3	B0/220		
BH (60°-80°)	37.6	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°	155.1	155.1	155.1	155.1	155.1	155.1	155.1	155.1	155.1	155.1	155.1
2.5°	173.6	172.8	173.9	173.6	169.1	169.9	169.5	166.5	161.4	158.4	156.6
5°	193.6	195.4	193.9	190.6	188.0	182.8	182.1	177.3	169.1	164.0	158.4
7.5°	214.3	214.3	211.3	206.1	200.6	195.0	194.3	186.2	179.1	170.2	162.5
10°	229.8	228.0	225.8	220.2	213.9	206.5	202.8	196.9	189.1	178.4	168.4
12.5°	243.5	240.6	236.9	228.7	221.3	213.2	213.9	204.3	199.1	189.5	174.7
15°	251.3	248.7	245.4	238.0	226.5	222.8	221.3	215.4	206.1	196.5	182.5
17.5°	253.2	251.3	246.9	237.2	230.9	226.5	226.1	219.1	215.0	206.9	191.3
20°	249.4	246.1	242.8	236.5	230.6	229.1	228.0	228.0	222.8	212.1	196.9
22.5°	243.2	239.5	237.6	233.9	229.1	228.7	229.5	228.7	224.7	217.6	202.8
25°	238.3	236.5	233.5	232.4	229.5	235.0	233.9	232.8	231.7	223.5	212.1
27.5°	239.8	239.5	237.2	232.8	230.6	236.5	239.8	240.2	239.8	231.7	220.6
30°	240.6	238.7	236.5	235.4	236.1	242.0	242.0	250.2	246.9	238.7	229.1
32.5°	249.1	248.0	240.6	238.0	238.3	245.4	245.7	253.9	252.8	247.2	236.5
35°	267.2	259.8	249.1	241.7	241.7	250.9	248.0	259.8	262.8	253.9	241.7
37.5°	294.2	288.7	269.4	252.8	246.5	253.2	256.1	262.8	271.7	263.9	252.0
40°	347.9	346.8	319.4	283.5	258.7	264.6	265.7	276.1	282.0	271.3	268.0
42.5°	426.4	420.8	395.3	338.6	280.9	278.3	282.4	289.1	303.1	294.2	286.1
45°	503.0	500.4	474.8	411.6	321.2	305.7	303.5	315.3	336.1	326.4	320.1
47.5°	558.5	553.3	538.9	485.6	380.5	337.9	339.4	351.2	377.5	370.1	372.0
50°	601.0	598.5	583.3	554.0	455.2	388.6	385.6	397.5	433.0	437.8	443.0
52.5°	647.7	652.5	632.1	607.3	543.7	456.7	450.0	454.1	500.0	511.1	525.5
55°	692.5	700.2	679.9	676.5	636.2	532.2	531.1	521.5	580.7	582.2	589.9
57.5°	721.7	719.1	717.6	735.8	728.7	618.8	613.3	603.6	657.3	647.7	671.0
60°	723.9	731.3	756.1	800.9	813.5	720.6	712.4	686.2	723.6	700.6	745.0
62.5°	740.6	746.5	792.4	854.2	870.5	810.2	815.7	749.1	780.2	762.0	827.2
65°	698.4	716.9	809.0	895.6	945.2	900.8	895.3	830.1	838.3	821.3	908.2
67.5°	660.3	667.3	763.5	908.2	1004.5	991.9	989.7	901.9	898.2	866.8	931.2
70°	536.6	545.2	640.3	843.8	1024.4	1098.1	1092.9	1002.6	939.0	842.0	813.5
72.5°	307.6	324.6	443.8	649.9	920.4	1127.7	1132.5	1018.9	890.8	708.0	543.3
75°	100.7	105.5	184.3	368.3	688.4	983.7	975.2	875.7	718.7	467.4	245.4
77.5°	34.0	34.8	54.4	133.2	381.6	664.7	669.5	625.8	441.5	194.3	67.7
80°	17.4	18.5	26.6	50.0	156.9	362.0	369.7	356.8	185.1	57.4	16.3
82.5°	8.1	8.5	15.5	27.8	71.8	142.1	142.1	156.2	65.5	32.2	6.7
85°	3.0	3.0	8.1	15.9	30.3	47.4	47.7	48.1	34.4	24.1	3.0
87.5°	1.1	1.1	4.1	6.7	11.1	14.4	14.4	11.5	17.4	15.9	1.1
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°	155.1	155.1	155.1	155.1	155.1	155.1	155.1	155.1	155.1	155.1	155.1
2.5°	155.8	153.6	151.7	149.2	145.8	144.0	144.3	142.1	142.1	141.0	140.6
5°	155.8	153.6	148.8	144.3	141.4	137.7	135.8	134.3	134.3	133.6	134.0
7.5°	156.9	153.6	146.9	141.0	136.2	132.5	129.5	129.2	128.4	126.6	128.1
10°	163.6	158.8	147.7	139.5	134.0	129.9	124.7	123.2	121.0	117.7	118.1
12.5°	169.1	162.8	152.9	141.7	134.7	128.1	116.2	103.3	97.7	91.8	92.2
15°	177.3	168.4	154.7	144.7	134.7	113.3	91.8	75.1	66.2	61.8	61.8
17.5°	181.7	174.3	159.9	146.6	124.0	92.2	65.1	50.7	49.2	50.0	50.0
20°	191.0	181.0	165.8	148.0	106.2	65.5	47.7	46.3	47.0	48.5	48.1
22.5°	196.9	186.9	170.2	141.4	82.2	47.0	44.8	44.0	44.8	46.6	46.6
25°	201.7	195.4	177.3	125.1	58.1	42.6	41.8	42.6	43.3	44.0	45.2
27.5°	213.5	202.8	182.1	104.0	41.8	39.6	40.3	40.7	40.7	41.8	42.2
30°	221.3	212.8	185.8	80.3	37.0	36.6	37.4	37.8	38.1	39.2	39.6
32.5°	228.7	225.8	181.0	54.4	34.8	34.0	33.7	34.0	35.5	36.6	36.3
35°	239.5	237.6	173.9	37.8	32.6	31.1	30.3	30.7	31.8	32.9	32.6
37.5°	252.4	254.3	156.9	32.9	30.3	28.5	27.0	27.0	27.4	28.5	28.9
40°	267.6	272.4	136.9	30.7	28.9	26.6	25.2	23.3	22.9	22.6	22.9
42.5°	295.3	300.9	114.4	29.2	26.6	24.1	21.8	19.6	17.8	16.7	16.7
45°	334.2	329.8	84.8	27.8	25.5	21.8	18.5	15.9	13.3	12.2	12.2
47.5°	387.9	372.7	58.1	26.3	23.7	19.2	15.5	12.2	10.0	8.9	8.9
50°	462.3	412.3	37.8	24.8	22.6	16.7	12.6	8.9	7.4	7.0	7.4
52.5°	532.6	452.6	30.0	22.9	20.4	14.4	9.6	7.4	6.7	6.3	6.3
55°	597.3	473.0	26.6	21.1	18.5	11.8	8.1	6.3	5.9	5.6	5.6
57.5°	652.1	480.0	22.9	18.5	14.8	9.3	6.7	5.6	4.8	4.4	4.4
60°	699.5	481.9	17.8	14.8	10.7	7.0	5.6	4.8	4.1	3.3	3.3
62.5°	737.2	468.9	12.6	10.4	7.4	5.6	4.8	3.3	2.2	1.5	1.1
65°	767.2	443.0	8.5	7.0	4.8	4.1	3.0	1.5	0.4	0.0	0.0
67.5°	732.1	384.2	6.7	5.2	3.3	2.6	1.5	0.4	0.0	0.0	0.0
70°	597.0	297.9	4.8	3.3	2.2	0.7	0.4	0.0	0.0	0.0	0.0
72.5°	406.4	192.1	3.7	2.2	1.1	0.4	0.0	0.0	0.0	0.0	0.0
75°	182.5	68.8	2.6	1.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	44.4	16.3	1.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	11.8	4.1	1.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.4	1.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	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)