

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: P677116

Luminaire Tested: **CCW-SA-1A-730-U-SL4-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677116  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1A-730-U-SL4-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
SL4 distribution lens and House Side Shield  
Light Source: (16) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

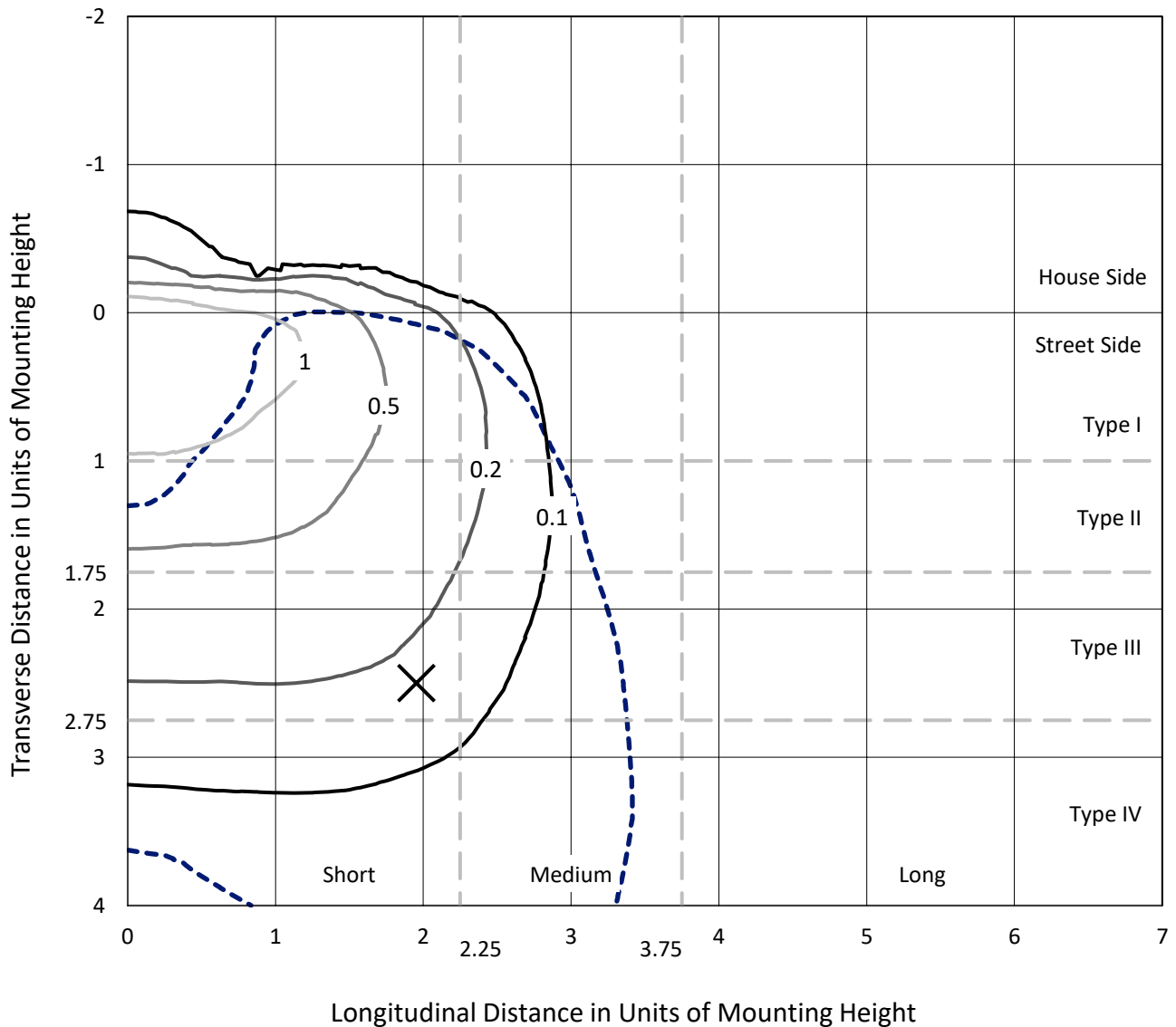
Lumens per Lamp: N/A  
Luminaire Lumens: 2057.8 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

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

REPORT NUMBER: P677116  
 CATALOG NUMBER: CCW-SA-1A-730-U-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

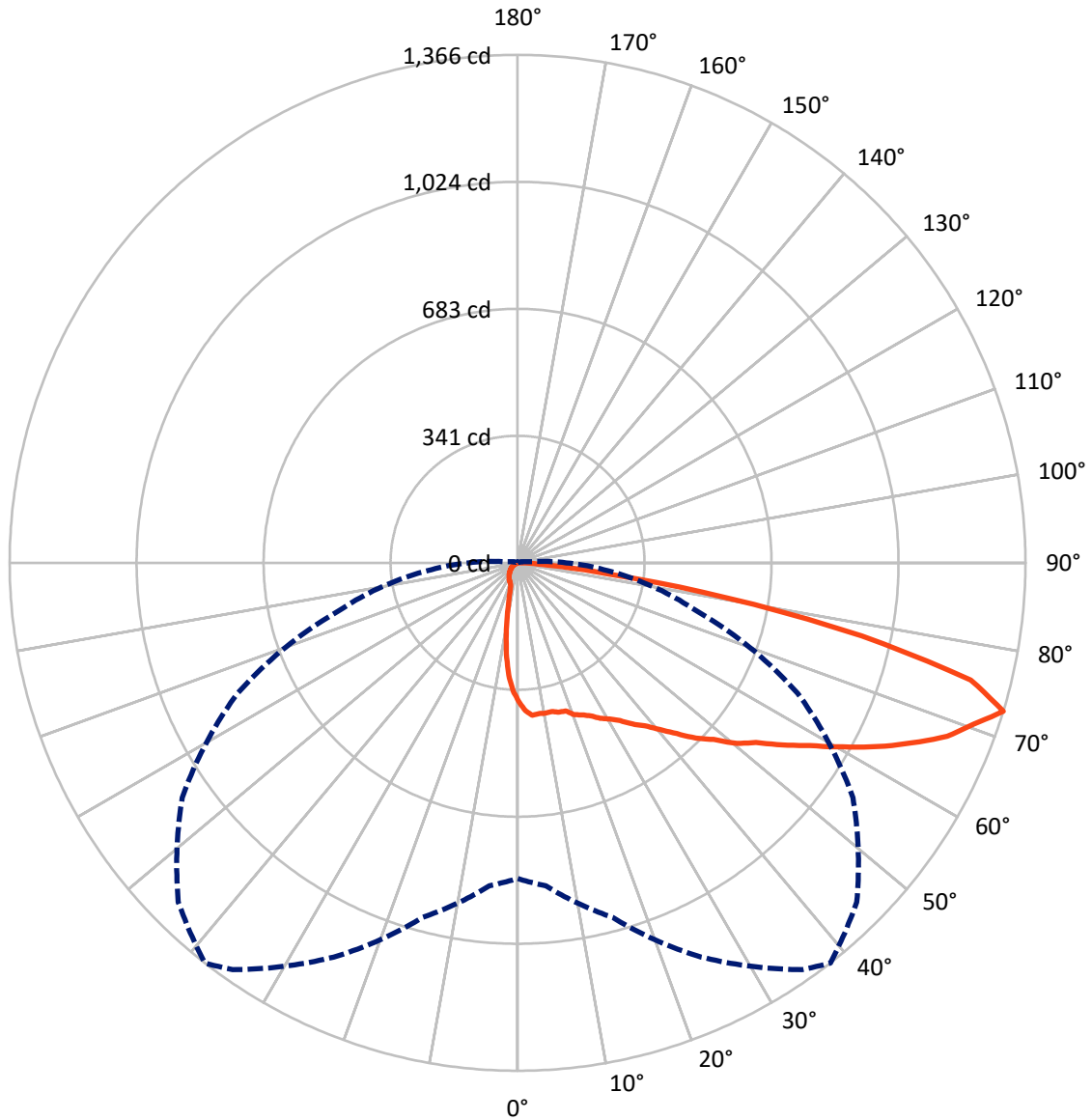
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.8 fc  
 Type IV - Short - N/A

REPORT NUMBER: P677116  
CATALOG NUMBER: CCW-SA-1A-730-U-SL4-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P677116  
 CATALOG NUMBER: CCW-SA-1A-730-U-SL4-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	172.3	0.0	172.3
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	1885.5	0.0	1885.5
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	2057.8	0.0	2057.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.6	1.6
10°-20°	79.8	3.9
20°-30°	127.9	6.2
30°-40°	193.0	9.4
40°-50°	293.8	14.3
50°-60°	413.6	20.1
60°-70°	505.2	24.6
70°-80°	366.9	17.8
80°-90°	45.2	2.2
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°	2057.8	100.0
0°-180°	2057.8	100.0

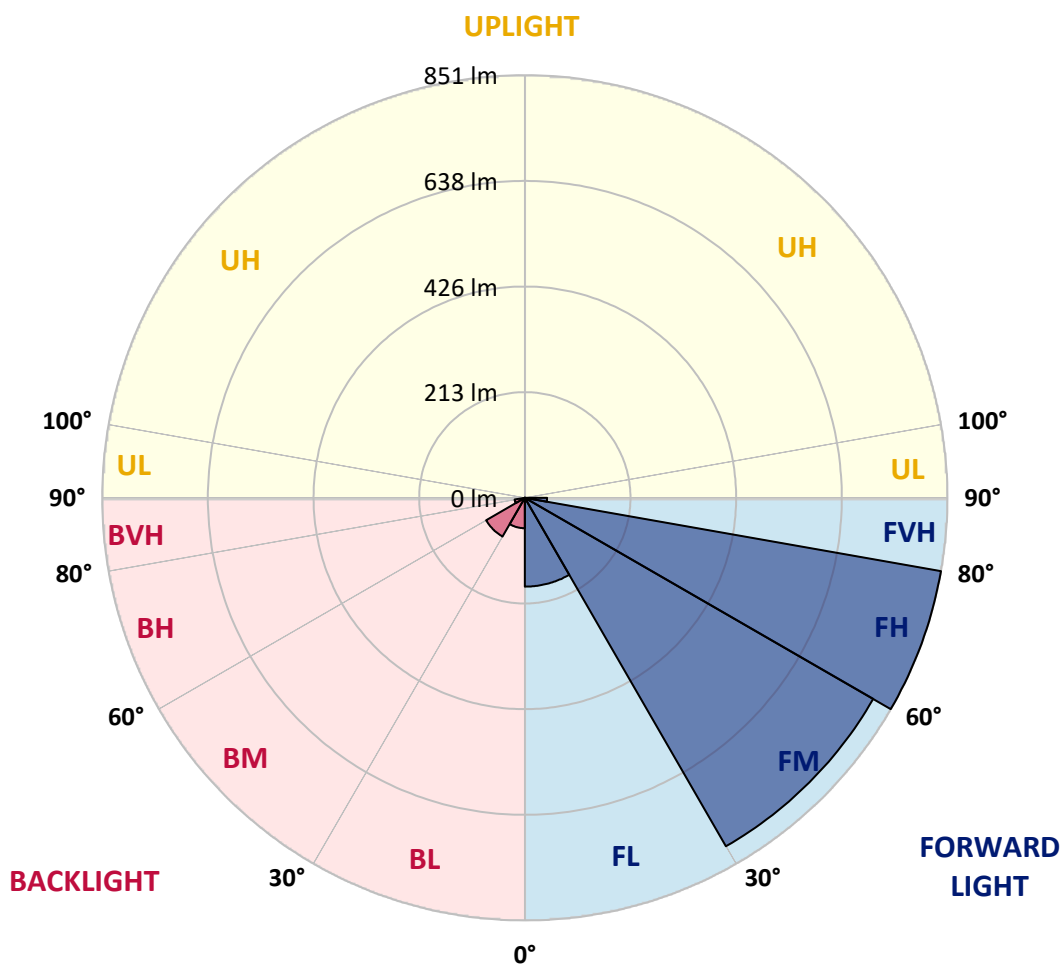


REPORT NUMBER: P677116  
 CATALOG NUMBER: CCW-SA-1A-730-U-SL4-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	179.0	8.7			
FM (30°-60°)	810.4	39.4			
FH (60°-80°)	851.2	41.4			G1/1800
FVH (80°-90°)	44.9	2.2			G1/100
BL (0°-30°)	61.2	3.0	B0/110		
BM (30°-60°)	90.0	4.4	B0/220		
BH (60°-80°)	20.9	1.0	B0/110		G0/110
BVH (80°-90°)	0.2	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: P677116

CATALOG NUMBER: CCW-SA-1A-730-U-SL4-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	372.1	372.1	372.1	372.1	372.1	372.1	372.1	372.1	372.1	372.1	372.1
2.5°	408.8	408.8	412.7	408.8	407.4	398.2	398.7	393.9	389.0	382.3	376.0
5°	413.6	417.0	419.4	416.1	410.7	411.7	415.1	405.9	392.9	384.7	370.7
7.5°	411.7	419.0	417.0	415.1	411.7	409.3	404.5	400.6	394.3	386.6	370.2
10°	410.3	412.7	413.2	411.7	404.5	411.2	405.9	399.6	391.9	382.8	362.5
12.5°	405.0	405.0	409.3	405.9	406.9	410.3	407.9	406.4	398.2	390.5	372.6
15°	399.2	401.1	407.9	413.2	418.0	416.5	415.1	410.7	403.5	394.8	376.0
17.5°	400.6	401.6	412.2	421.8	419.4	418.5	426.2	417.0	409.8	400.1	378.9
20°	405.9	408.8	420.9	433.4	435.8	435.8	433.0	427.6	417.5	404.5	384.2
22.5°	411.2	412.2	432.0	447.9	450.3	444.1	446.5	431.0	421.4	414.1	389.5
25°	431.5	429.6	450.8	463.4	461.9	455.6	453.2	439.7	435.8	422.8	401.1
27.5°	459.0	450.8	471.6	479.3	471.6	473.5	466.7	452.3	444.1	436.3	406.4
30°	475.9	480.7	491.8	499.6	486.5	487.0	483.6	467.7	455.2	457.1	424.3
32.5°	502.0	505.4	513.6	516.9	506.8	505.8	502.5	489.9	480.7	478.8	448.4
35°	530.0	536.2	536.7	537.7	528.5	532.4	527.6	509.7	514.5	517.9	477.4
37.5°	557.5	551.7	561.3	565.7	555.5	555.5	557.0	544.9	553.6	563.8	518.4
40°	568.1	570.5	587.4	584.0	596.1	588.9	594.2	591.3	598.5	621.7	576.3
42.5°	579.2	582.1	604.8	611.1	625.5	627.9	635.7	636.2	657.4	695.5	631.8
45°	600.4	595.6	626.5	641.9	665.6	672.4	681.5	689.2	722.6	767.4	695.0
47.5°	619.7	613.0	648.2	679.1	708.1	709.5	734.6	742.8	782.4	833.6	757.8
50°	646.8	649.2	664.1	717.2	746.7	763.6	781.0	808.0	851.9	906.4	803.2
52.5°	674.8	672.4	697.5	749.6	795.9	802.2	841.3	871.7	919.5	960.5	823.4
55°	709.0	711.9	721.6	790.1	849.0	864.0	907.9	939.7	991.9	983.7	830.2
57.5°	743.3	740.4	762.1	835.5	915.6	926.7	985.1	1003.9	1039.2	999.1	813.3
60°	777.1	782.4	791.6	886.7	988.5	1004.9	1051.2	1060.9	1068.6	1006.4	800.3
62.5°	815.7	803.2	831.6	940.7	1054.1	1088.4	1125.1	1087.0	1080.2	993.3	770.3
65°	835.0	838.9	876.0	1002.5	1141.5	1166.6	1171.4	1122.2	1087.4	964.4	742.3
67.5°	864.9	870.2	917.5	1065.7	1231.3	1245.3	1227.9	1154.1	1081.2	926.7	641.5
70°	868.8	881.8	973.1	1131.9	1287.8	1299.8	1286.3	1175.3	1030.5	778.5	474.9
72.5°	848.5	871.7	986.6	1169.5	1335.1	1365.5	1289.7	1100.5	830.7	496.7	243.3
75°	641.0	660.3	903.1	1113.5	1251.1	1258.3	1132.3	839.8	473.0	169.4	62.3
77.5°	332.1	365.4	602.8	850.9	953.3	945.5	788.2	494.7	162.7	44.4	25.1
80°	190.7	198.9	263.5	477.8	599.5	570.0	435.8	213.3	71.4	22.2	16.4
82.5°	94.1	105.7	141.9	213.8	299.7	246.6	163.6	127.9	40.1	12.1	14.5
85°	20.3	21.2	72.4	102.3	121.6	80.1	56.0	107.6	14.5	7.2	14.0
87.5°	14.5	14.0	20.3	45.9	33.8	20.8	33.3	56.5	3.4	3.4	2.9
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: P677116  
 CATALOG NUMBER: CCW-SA-1A-730-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	372.1	372.1	372.1	372.1	372.1	372.1	372.1	372.1	372.1	372.1	372.1
2.5°	372.1	367.8	363.0	353.8	351.4	349.9	341.7	341.2	339.8	336.4	335.0
5°	362.0	354.8	345.6	335.9	328.2	314.2	297.3	288.6	278.0	278.5	275.1
7.5°	360.6	347.0	334.0	313.7	289.1	263.1	237.0	220.1	208.0	200.8	202.2
10°	353.8	343.7	322.4	284.8	245.2	205.6	172.3	147.2	132.7	121.6	125.0
12.5°	356.7	336.9	307.0	256.8	200.3	151.6	110.0	85.9	75.3	71.4	72.4
15°	354.8	336.9	297.8	226.4	157.3	102.8	71.4	63.7	61.8	61.8	60.8
17.5°	360.6	340.8	282.4	196.4	112.9	68.5	61.3	59.9	58.4	58.4	58.4
20°	368.8	342.7	271.7	163.1	79.6	60.3	57.4	56.5	56.0	56.0	55.5
22.5°	369.2	340.8	252.0	126.5	61.3	57.0	54.5	54.1	54.1	53.1	53.1
25°	372.1	342.7	230.7	95.1	57.0	53.6	51.6	51.2	51.6	51.2	50.7
27.5°	379.4	346.1	209.5	69.5	53.6	50.7	49.2	48.7	48.7	48.7	47.8
30°	388.5	346.1	185.8	57.4	50.7	47.8	46.3	45.9	45.4	45.4	45.4
32.5°	407.9	357.2	156.9	51.2	46.8	44.4	43.0	43.0	42.5	42.5	42.0
35°	432.0	364.9	127.4	47.3	43.4	41.0	39.6	39.6	39.1	39.1	38.6
37.5°	461.9	384.2	97.5	44.4	40.1	37.6	36.2	36.2	36.2	35.7	35.7
40°	504.4	404.0	72.4	40.5	36.7	34.3	33.3	32.8	32.3	32.3	31.4
42.5°	549.8	434.4	54.1	37.6	33.8	31.9	30.4	29.0	29.0	27.5	27.5
45°	599.0	460.9	43.9	34.3	30.9	28.5	27.0	26.1	24.6	23.7	23.7
47.5°	647.3	477.4	38.6	30.4	28.0	26.1	24.6	22.7	20.8	20.3	19.8
50°	686.4	482.2	34.3	27.5	25.6	23.7	21.7	19.3	17.4	16.4	15.9
52.5°	686.4	455.6	30.9	24.6	23.2	21.2	18.8	15.9	13.5	12.5	12.1
55°	686.4	413.6	27.5	22.7	20.8	19.3	15.9	13.0	10.6	9.2	8.7
57.5°	676.2	363.0	24.6	20.3	18.3	16.4	13.5	10.1	7.7	6.3	6.3
60°	648.2	309.9	21.2	17.9	15.9	13.5	10.6	7.2	4.8	3.4	3.4
62.5°	612.5	246.6	18.3	15.0	13.0	11.1	8.2	4.8	1.9	1.0	1.0
65°	550.2	182.0	15.9	12.5	10.1	8.2	5.3	1.9	0.0	0.0	0.0
67.5°	454.2	121.6	12.5	10.1	8.7	5.8	3.4	0.5	0.0	0.0	0.0
70°	319.5	69.0	9.7	7.2	6.3	3.9	1.0	0.0	0.0	0.0	0.0
72.5°	131.3	30.4	6.8	5.3	4.3	1.9	0.0	0.0	0.0	0.0	0.0
75°	35.7	13.5	4.3	2.9	2.4	0.5	0.0	0.0	0.0	0.0	0.0
77.5°	20.8	9.2	1.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	16.4	4.3	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.4	2.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	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)