

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: P674016

Luminaire Tested: **CCP-SA-1B-827-U-SL4-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674016  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1B-827-U-SL4-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ SL4 distribution lens and House Side Shield  
Light Source: (16) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

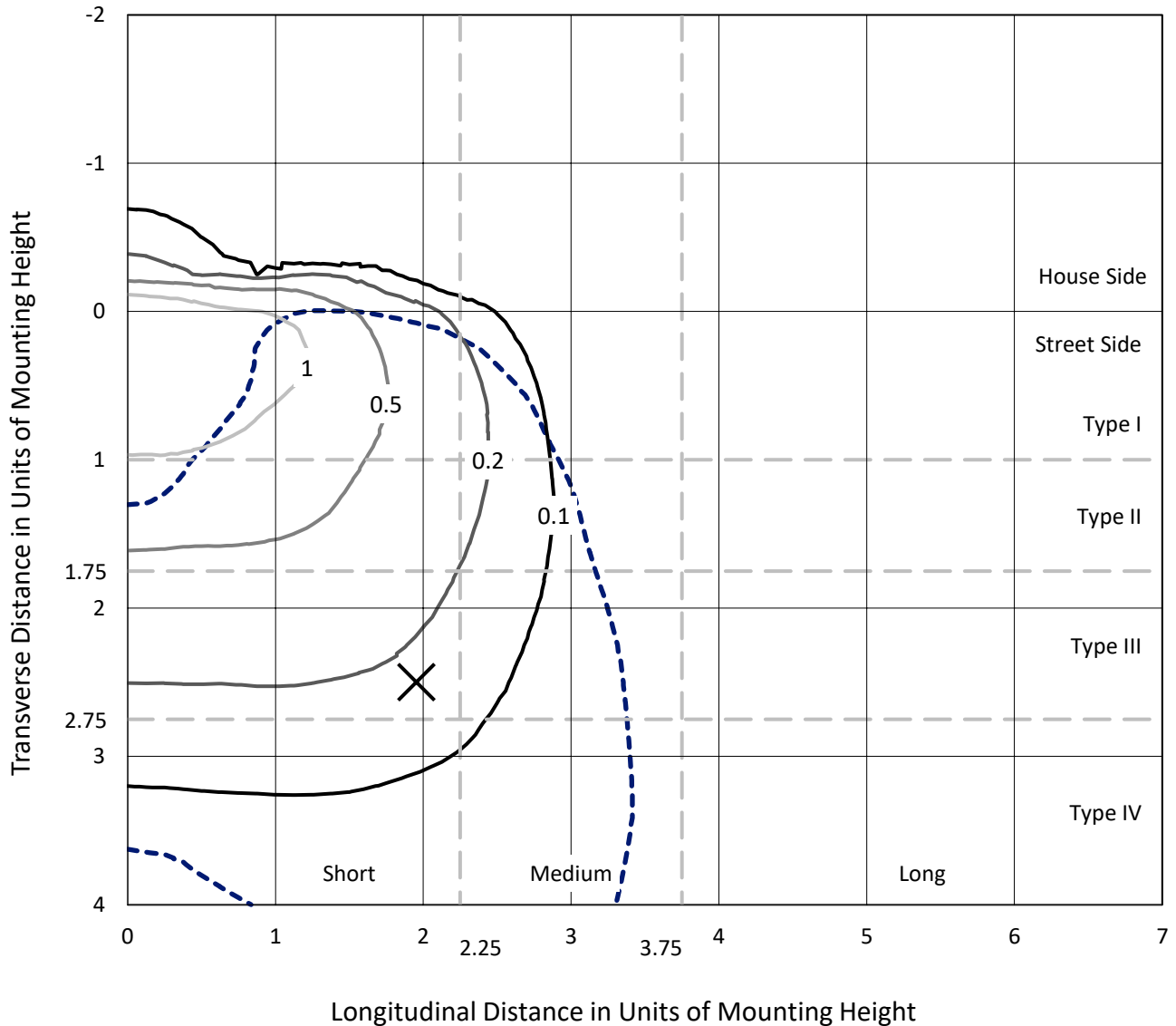
Lumens per Lamp: N/A  
Luminaire Lumens: 2097.1 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

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

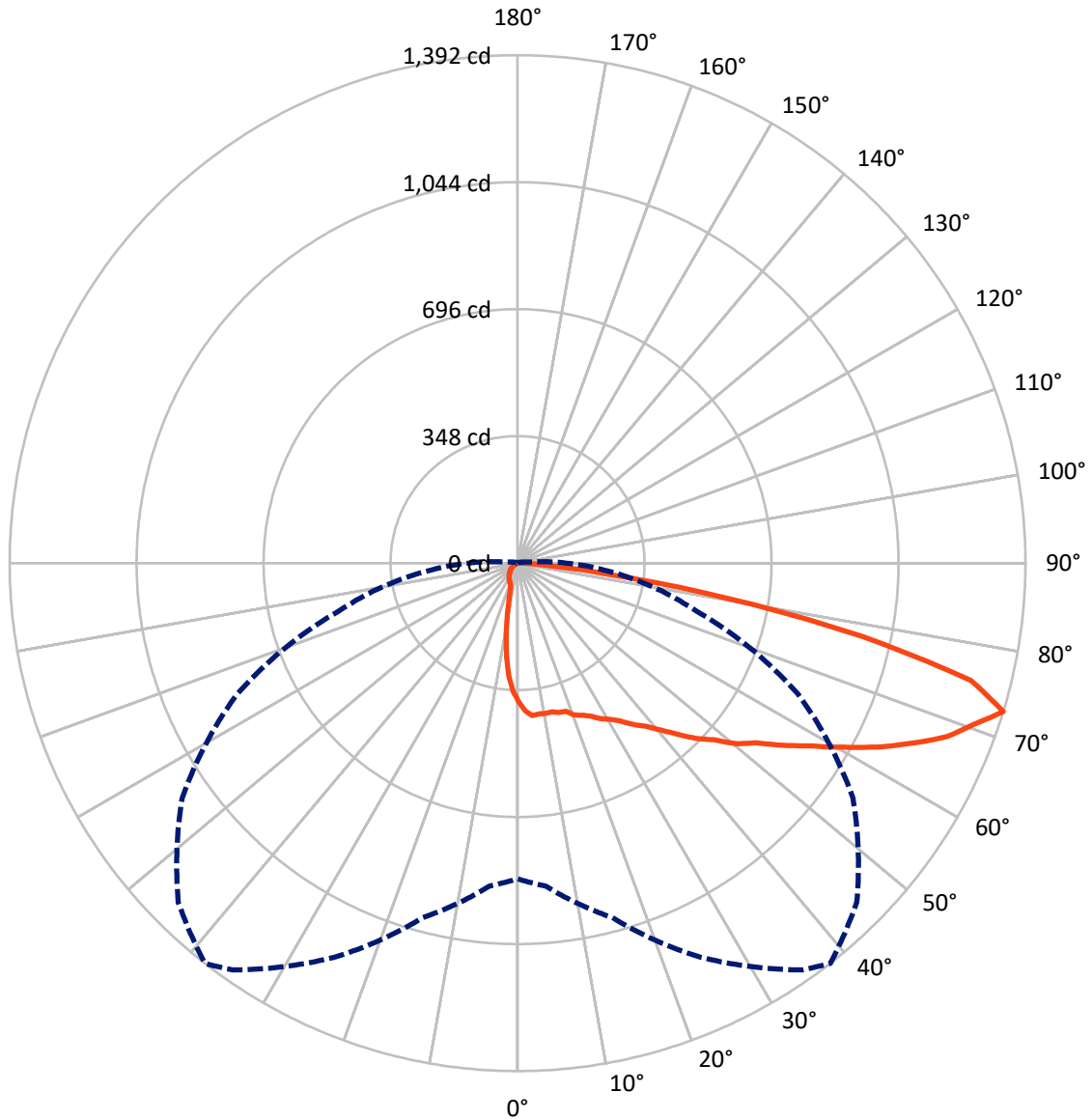
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	175.6	0.0	175.6
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	1921.4	0.0	1921.4
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	2097.1	0.0	2097.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.2	1.6
10°-20°	81.3	3.9
20°-30°	130.3	6.2
30°-40°	196.7	9.4
40°-50°	299.4	14.3
50°-60°	421.5	20.1
60°-70°	514.8	24.6
70°-80°	373.9	17.8
80°-90°	46.0	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°	2097.1	100.0
0°-180°	2097.1	100.0

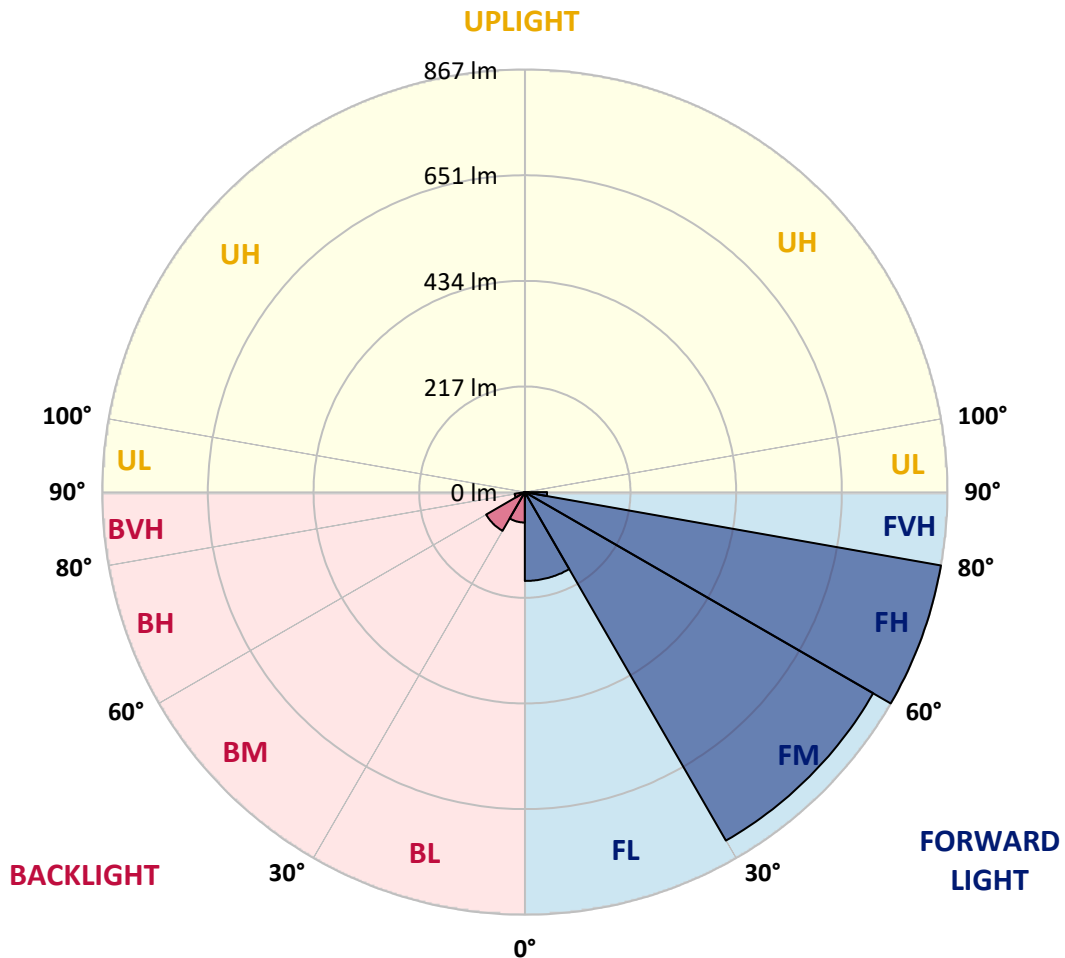


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	182.4	8.7			
FM (30°-60°)	825.8	39.4			
FH (60°-80°)	867.4	41.4			G1/1800
FVH (80°-90°)	45.8	2.2			G1/100
BL (0°-30°)	62.4	3.0	B0/110		
BM (30°-60°)	91.7	4.4	B0/220		
BH (60°-80°)	21.3	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	379.2	379.2	379.2	379.2	379.2	379.2	379.2	379.2	379.2	379.2	379.2
2.5°	416.6	416.6	420.5	416.6	415.1	405.8	406.3	401.4	396.4	389.6	383.2
5°	421.5	425.0	427.4	424.0	418.6	419.6	423.0	413.7	400.4	392.0	377.8
7.5°	419.6	426.9	425.0	423.0	419.6	417.1	412.2	408.3	401.9	394.0	377.3
10°	418.1	420.5	421.0	419.6	412.2	419.1	413.7	407.3	399.4	390.1	369.4
12.5°	412.7	412.7	417.1	413.7	414.6	418.1	415.6	414.2	405.8	397.9	379.7
15°	406.8	408.7	415.6	421.0	426.0	424.5	423.0	418.6	411.2	402.3	383.2
17.5°	408.3	409.2	420.1	429.9	427.4	426.5	434.3	425.0	417.6	407.8	386.1
20°	413.7	416.6	428.9	441.7	444.2	444.2	441.2	435.8	425.5	412.2	391.5
22.5°	419.1	420.1	440.2	456.5	458.9	452.5	455.0	439.2	429.4	422.0	396.9
25°	439.7	437.8	459.4	472.2	470.7	464.3	461.9	448.1	444.2	430.9	408.7
27.5°	467.8	459.4	480.6	488.4	480.6	482.5	475.6	460.9	452.5	444.7	414.2
30°	485.0	489.9	501.2	509.1	495.8	496.3	492.9	476.6	463.8	465.8	432.4
32.5°	511.5	515.0	523.4	526.8	516.5	515.5	512.0	499.2	489.9	487.9	456.9
35°	540.1	546.5	547.0	547.9	538.6	542.5	537.6	519.4	524.3	527.8	486.5
37.5°	568.1	562.2	572.0	576.5	566.1	566.1	567.6	555.3	564.2	574.5	528.3
40°	578.9	581.4	598.6	595.2	607.5	600.1	605.5	602.5	609.9	633.5	587.3
42.5°	590.2	593.2	616.3	622.7	637.5	639.9	647.8	648.3	669.9	708.8	643.9
45°	611.9	607.0	638.4	654.2	678.3	685.2	694.5	702.4	736.3	782.1	708.3
47.5°	631.6	624.7	660.6	692.1	721.6	723.0	748.6	757.0	797.3	849.5	772.2
50°	659.1	661.6	676.8	730.9	760.9	778.1	795.8	823.4	868.2	923.7	818.5
52.5°	687.6	685.2	710.8	763.9	811.1	817.5	857.3	888.3	937.0	978.8	839.1
55°	722.6	725.5	735.3	805.2	865.2	880.4	925.2	957.7	1010.8	1002.4	846.0
57.5°	757.5	754.5	776.7	851.4	933.1	944.4	1003.9	1023.1	1059.0	1018.2	828.8
60°	791.9	797.3	806.7	903.6	1007.4	1024.1	1071.3	1081.1	1089.0	1025.5	815.5
62.5°	831.3	818.5	847.5	958.7	1074.2	1109.2	1146.5	1107.7	1100.8	1012.3	785.0
65°	850.9	854.9	892.7	1021.6	1163.3	1188.9	1193.8	1143.6	1108.2	982.8	756.5
67.5°	881.4	886.8	935.0	1086.0	1254.8	1269.0	1251.3	1176.1	1101.8	944.4	653.7
70°	885.4	898.6	991.6	1153.4	1312.3	1324.6	1310.8	1197.7	1050.1	793.4	484.0
72.5°	864.7	888.3	1005.4	1191.8	1360.5	1391.5	1314.3	1121.5	846.5	506.1	247.9
75°	653.2	672.9	920.3	1134.7	1274.9	1282.3	1153.9	855.9	482.0	172.6	63.5
77.5°	338.4	372.3	614.3	867.2	971.4	963.6	803.2	504.2	165.8	45.3	25.6
80°	194.3	202.7	268.6	487.0	610.9	580.9	444.2	217.4	72.8	22.6	16.7
82.5°	95.9	107.7	144.6	217.9	305.5	251.3	166.7	130.3	40.8	12.3	14.8
85°	20.7	21.6	73.8	104.3	124.0	81.7	57.1	109.7	14.8	7.4	14.3
87.5°	14.8	14.3	20.7	46.7	34.4	21.2	33.9	57.5	3.4	3.4	3.0
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°	379.2	379.2	379.2	379.2	379.2	379.2	379.2	379.2	379.2	379.2	379.2
2.5°	379.2	374.8	369.9	360.5	358.1	356.6	348.2	347.8	346.3	342.8	341.4
5°	368.9	361.5	352.2	342.3	334.5	320.2	303.0	294.1	283.3	283.8	280.4
7.5°	367.4	353.7	340.4	319.7	294.6	268.1	241.5	224.3	212.0	204.6	206.1
10°	360.5	350.2	328.6	290.2	249.9	209.5	175.6	150.0	135.3	124.0	127.4
12.5°	363.5	343.3	312.8	261.7	204.1	154.4	112.1	87.6	76.7	72.8	73.8
15°	361.5	343.3	303.5	230.7	160.3	104.8	72.8	64.9	63.0	63.0	62.0
17.5°	367.4	347.3	287.7	200.2	115.1	69.8	62.5	61.0	59.5	59.5	59.5
20°	375.8	349.2	276.9	166.3	81.2	61.5	58.5	57.5	57.1	57.1	56.6
22.5°	376.3	347.3	256.8	128.9	62.5	58.0	55.6	55.1	55.1	54.1	54.1
25°	379.2	349.2	235.1	96.9	58.0	54.6	52.6	52.1	52.6	52.1	51.6
27.5°	386.6	352.7	213.5	70.8	54.6	51.6	50.2	49.7	49.7	49.7	48.7
30°	396.0	352.7	189.4	58.5	51.6	48.7	47.2	46.7	46.2	46.2	46.2
32.5°	415.6	364.0	159.9	52.1	47.7	45.3	43.8	43.8	43.3	43.3	42.8
35°	440.2	371.9	129.9	48.2	44.3	41.8	40.3	40.3	39.8	39.8	39.3
37.5°	470.7	391.5	99.4	45.3	40.8	38.4	36.9	36.9	36.9	36.4	36.4
40°	514.0	411.7	73.8	41.3	37.4	34.9	33.9	33.4	33.0	33.0	32.0
42.5°	560.2	442.7	55.1	38.4	34.4	32.5	31.0	29.5	29.5	28.0	28.0
45°	610.4	469.7	44.8	34.9	31.5	29.0	27.5	26.6	25.1	24.1	24.1
47.5°	659.6	486.5	39.3	31.0	28.5	26.6	25.1	23.1	21.2	20.7	20.2
50°	699.4	491.4	34.9	28.0	26.1	24.1	22.1	19.7	17.7	16.7	16.2
52.5°	699.4	464.3	31.5	25.1	23.6	21.6	19.2	16.2	13.8	12.8	12.3
55°	699.4	421.5	28.0	23.1	21.2	19.7	16.2	13.3	10.8	9.3	8.9
57.5°	689.1	369.9	25.1	20.7	18.7	16.7	13.8	10.3	7.9	6.4	6.4
60°	660.6	315.8	21.6	18.2	16.2	13.8	10.8	7.4	4.9	3.4	3.4
62.5°	624.2	251.3	18.7	15.2	13.3	11.3	8.4	4.9	2.0	1.0	1.0
65°	560.7	185.4	16.2	12.8	10.3	8.4	5.4	2.0	0.0	0.0	0.0
67.5°	462.9	124.0	12.8	10.3	8.9	5.9	3.4	0.5	0.0	0.0	0.0
70°	325.6	70.3	9.8	7.4	6.4	3.9	1.0	0.0	0.0	0.0	0.0
72.5°	133.8	31.0	6.9	5.4	4.4	2.0	0.0	0.0	0.0	0.0	0.0
75°	36.4	13.8	4.4	3.0	2.5	0.5	0.0	0.0	0.0	0.0	0.0
77.5°	21.2	9.3	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	16.7	4.4	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.7	2.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	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)