

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: P676630

Luminaire Tested: **CCW-SA-1C-840-U-T4FT-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676630  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1C-840-U-T4FT-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/  
T4FT distribution lens and House Side Shield  
Light Source: (16) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

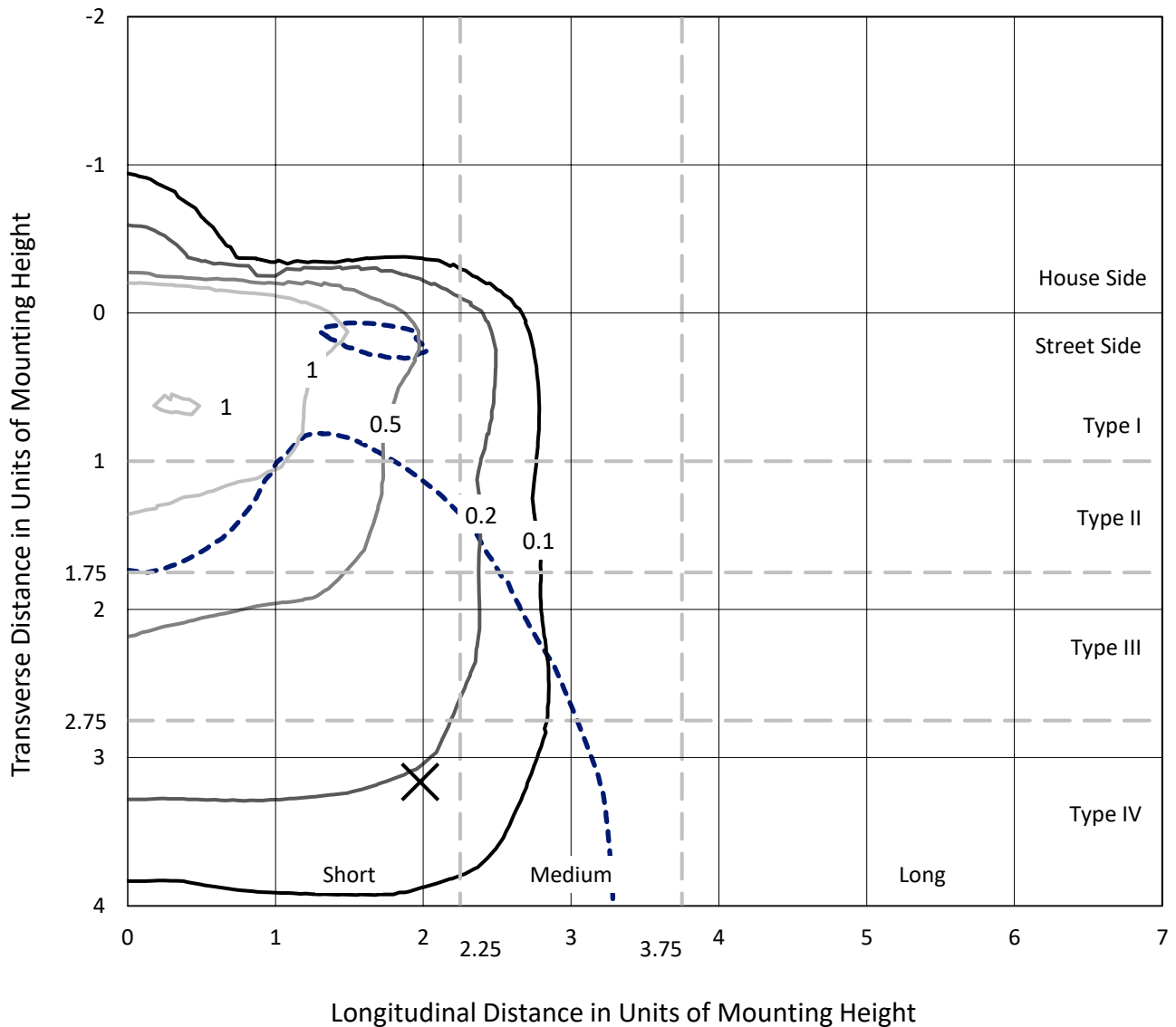
Lumens per Lamp: N/A  
Luminaire Lumens: 2768 lumens  
Efficiency: N/A  
Efficacy: 86.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

Input Watts (W): 32  
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

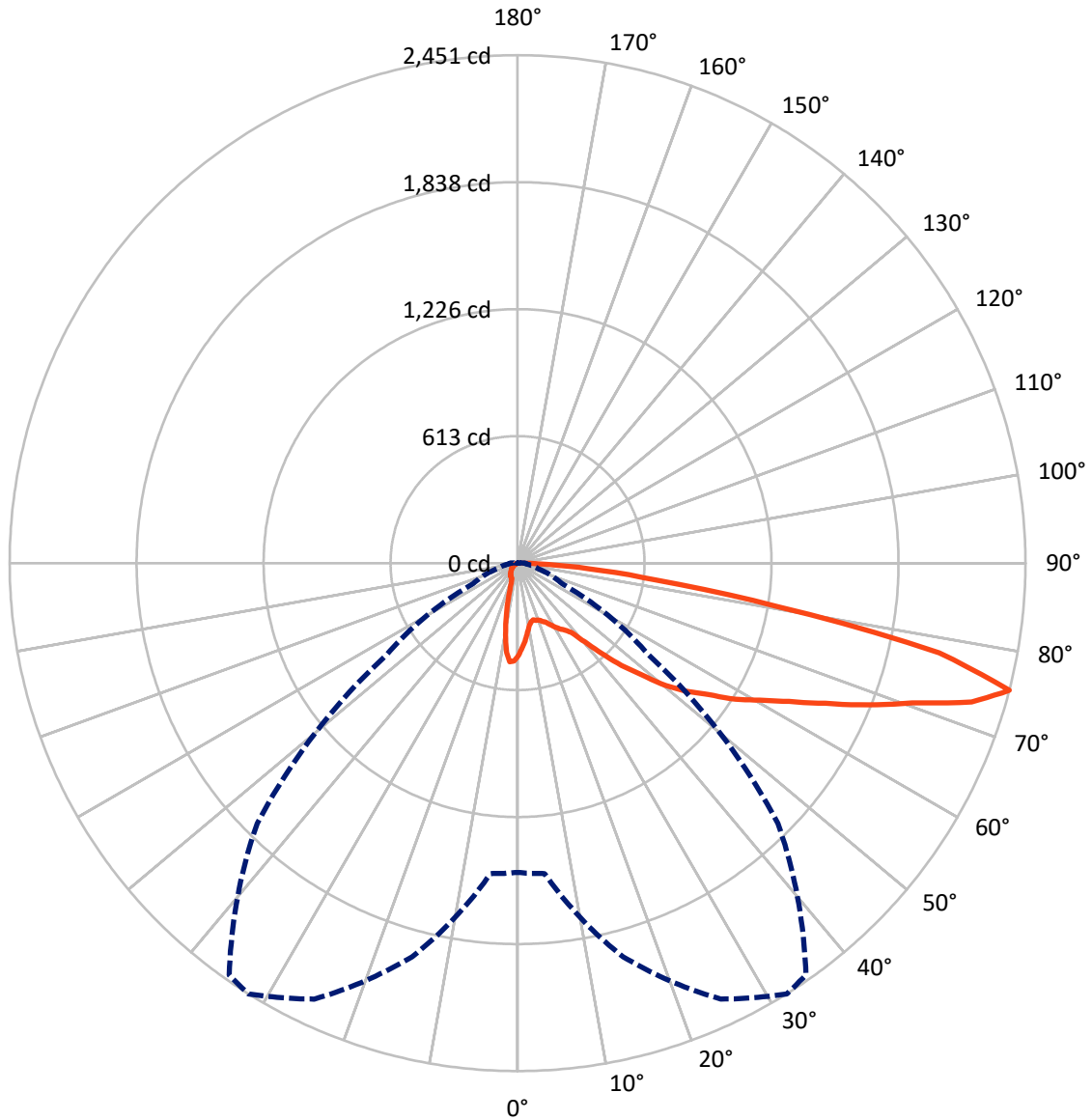
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 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
<b>House Side</b>	Lumens	299.0	0.0	299.0
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	2468.9	0.0	2468.9
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	2768.0	0.0	2768.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.3	1.4
10°-20°	89.2	3.2
20°-30°	133.5	4.8
30°-40°	204.9	7.4
40°-50°	358.4	12.9
50°-60°	560.2	20.2
60°-70°	724.3	26.2
70°-80°	589.9	21.3
80°-90°	68.3	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°	2768.0	100.0
0°-180°	2768.0	100.0



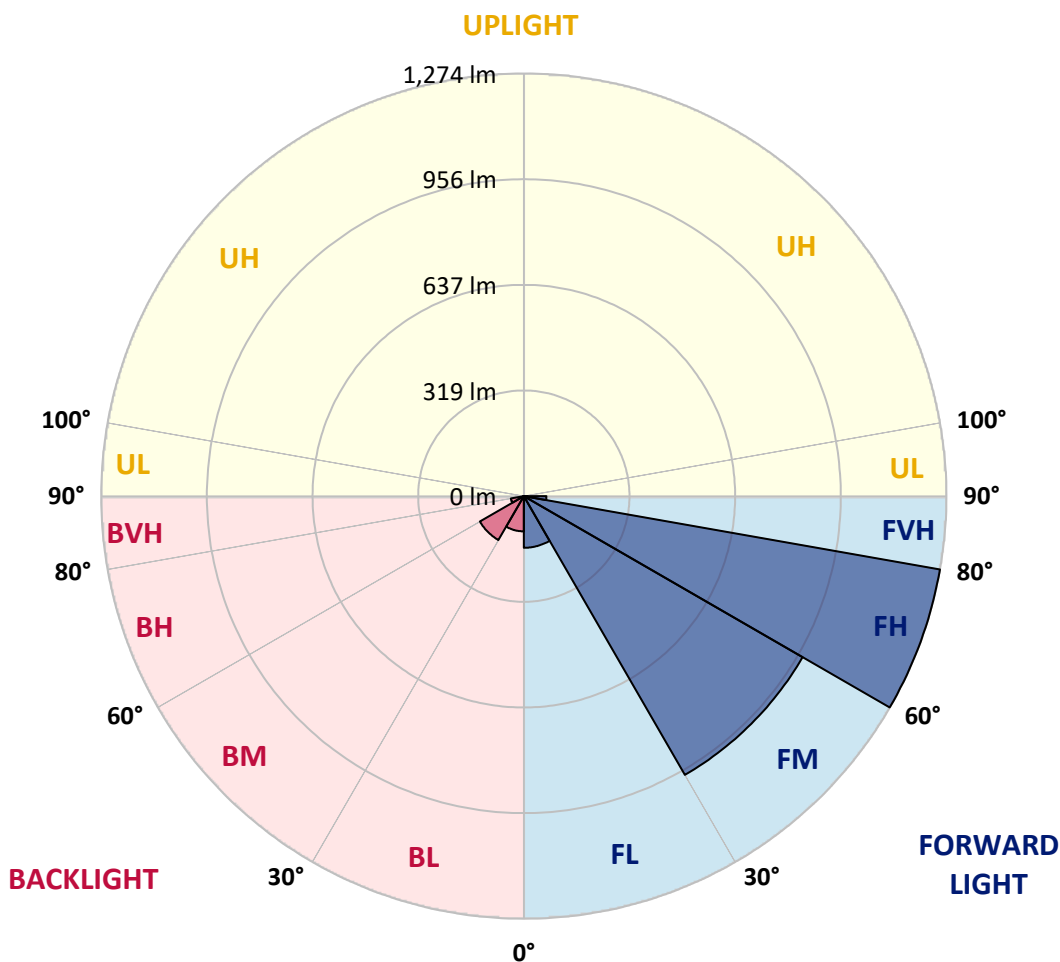
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	155.7	5.6			
FM (30°-60°)	970.6	35.1			
FH (60°-80°)	1274.4	46.0			G1/1800
FVH (80°-90°)	68.2	2.5			G1/100
BL (0°-30°)	106.2	3.8	B0/110		
BM (30°-60°)	153.0	5.5	B0/220		
BH (60°-80°)	39.8	1.4	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9
2.5°	400.8	406.5	405.8	409.3	410.0	412.2	417.1	417.1	431.3	441.3	447.6
5°	364.6	361.1	362.5	366.8	377.4	376.7	388.8	395.1	412.2	426.4	441.3
7.5°	320.0	319.2	322.1	332.0	339.8	346.2	359.0	375.3	398.0	419.3	445.5
10°	291.6	290.2	295.8	298.7	307.9	312.1	332.0	357.6	384.5	415.0	445.5
12.5°	285.2	280.2	283.1	282.4	290.9	293.0	312.1	343.4	376.0	413.6	451.2
15°	288.7	285.2	282.4	282.4	284.5	285.9	306.5	334.1	371.0	415.7	464.0
17.5°	300.1	298.0	289.4	280.9	290.2	290.2	302.9	332.0	371.7	422.1	479.6
20°	313.6	311.4	296.5	286.6	293.0	300.1	313.6	337.0	373.9	427.1	503.7
22.5°	328.5	328.5	307.9	296.5	305.1	305.8	329.9	352.6	382.4	439.8	519.3
25°	346.9	345.5	325.6	312.9	315.7	323.5	345.5	369.6	398.0	457.6	548.4
27.5°	371.0	368.9	345.5	332.7	336.3	344.8	369.6	393.7	412.2	464.7	573.2
30°	390.9	388.8	369.6	350.5	358.3	366.1	395.1	416.4	429.9	478.2	601.6
32.5°	395.1	391.6	378.8	370.3	378.8	393.7	416.4	438.4	459.0	512.2	655.5
35°	444.1	431.3	398.0	384.5	397.3	402.2	439.8	478.9	498.7	539.2	715.8
37.5°	537.7	525.7	481.7	444.1	426.4	432.0	481.0	529.2	548.4	589.5	781.8
40°	652.7	632.8	586.0	535.6	499.4	492.3	524.3	595.2	613.7	652.7	868.3
42.5°	783.9	764.8	692.4	632.8	595.9	586.7	591.7	671.8	687.4	710.8	925.1
45°	878.3	868.3	786.8	733.5	704.5	694.5	682.5	755.5	775.4	783.2	1007.4
47.5°	932.9	925.8	880.4	844.2	805.2	794.6	802.4	871.9	858.4	864.8	1086.1
50°	1006.0	987.5	925.8	937.2	929.3	926.5	940.0	970.5	950.6	932.2	1172.0
52.5°	1064.8	1032.2	988.9	1016.6	1028.7	1039.3	1086.8	1109.5	1020.9	992.5	1227.3
55°	1101.0	1069.8	1081.2	1106.7	1119.5	1168.4	1224.5	1207.4	1067.0	1040.7	1301.1
57.5°	1133.7	1135.8	1166.3	1174.1	1239.4	1247.9	1355.7	1300.4	1099.6	1084.7	1330.2
60°	1212.4	1204.6	1229.4	1279.8	1342.2	1389.8	1492.6	1362.8	1115.9	1107.4	1322.4
62.5°	1354.3	1306.1	1314.6	1378.4	1469.9	1521.7	1571.4	1391.2	1111.7	1111.0	1299.0
65°	1534.5	1479.2	1453.6	1513.2	1631.7	1704.7	1660.1	1423.1	1083.3	1103.2	1211.7
67.5°	1684.2	1684.9	1637.4	1670.7	1825.4	1841.0	1743.8	1416.7	1035.8	1041.4	998.9
70°	1856.6	1880.0	1838.1	1942.4	2019.7	2029.7	1839.5	1364.2	933.6	785.3	573.9
72.5°	1900.6	1912.6	2043.1	2203.5	2290.7	2293.6	1933.9	1189.0	614.4	346.9	178.1
75°	1492.6	1504.0	1966.5	2321.2	2451.1	2426.2	1776.4	771.9	239.1	101.4	42.6
77.5°	832.9	836.4	1220.9	1876.4	2079.3	1979.3	1244.3	300.8	96.5	58.2	19.9
80°	227.7	267.5	452.6	925.1	1269.9	1246.5	592.4	97.9	62.4	45.4	9.2
82.5°	54.6	58.9	145.4	409.3	671.1	700.2	176.6	49.7	43.3	37.6	5.0
85°	19.9	22.0	44.7	199.3	344.8	316.4	53.2	24.8	31.9	29.1	2.1
87.5°	7.1	7.1	14.2	65.3	100.7	75.9	17.7	8.5	16.3	17.7	0.7
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°	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9
2.5°	448.4	448.4	458.3	466.8	469.6	473.2	469.6	477.4	476.7	473.2	474.6
5°	449.1	461.8	470.3	476.0	478.9	478.2	479.6	471.1	466.1	462.5	459.0
7.5°	452.6	464.7	480.3	478.9	471.1	454.7	442.0	419.3	397.3	396.6	393.0
10°	464.7	475.3	484.5	478.9	450.5	400.8	360.4	329.9	302.2	289.4	290.9
12.5°	473.2	493.1	488.8	459.7	400.8	335.6	276.0	231.3	206.4	183.0	183.0
15°	490.9	498.0	496.6	432.0	339.8	261.8	189.4	144.0	117.8	107.1	105.7
17.5°	507.9	515.8	491.6	390.2	279.5	175.9	114.9	89.4	85.8	84.4	85.1
20°	529.2	529.9	487.4	348.3	210.0	111.4	82.3	80.2	80.9	80.2	80.2
22.5°	551.9	556.9	472.5	289.4	139.8	80.9	76.6	77.3	77.3	77.3	79.5
25°	581.7	573.9	449.1	233.4	91.5	74.5	74.5	75.2	75.2	75.2	75.9
27.5°	601.6	591.0	419.3	168.1	71.7	70.2	71.7	71.7	73.1	73.1	73.1
30°	642.7	615.1	381.7	108.5	64.6	66.7	68.1	69.5	70.2	71.7	72.4
32.5°	674.7	636.4	334.8	72.4	58.9	60.3	63.8	66.7	69.5	68.8	68.8
35°	732.8	671.1	291.6	57.5	53.9	53.9	57.5	62.4	66.7	68.1	68.1
37.5°	799.5	699.5	231.3	52.5	49.7	49.7	51.8	57.5	63.1	66.0	64.6
40°	854.9	732.1	171.0	49.0	46.1	46.1	47.5	51.8	58.2	63.1	63.8
42.5°	893.9	756.2	115.6	45.4	43.3	42.6	44.7	46.8	51.8	58.9	60.3
45°	929.3	769.0	71.7	41.9	40.4	40.4	40.4	42.6	46.1	52.5	53.9
47.5°	992.5	783.2	51.8	39.0	36.9	37.6	38.3	39.0	41.9	43.3	44.0
50°	1045.7	793.8	42.6	36.2	34.8	35.5	35.5	35.5	36.9	34.8	34.8
52.5°	1086.1	783.2	36.2	33.3	31.9	32.6	31.9	31.9	30.5	27.7	27.7
55°	1115.9	764.1	29.1	30.5	30.5	30.5	29.1	27.0	24.1	22.0	22.0
57.5°	1123.7	731.4	22.7	25.5	27.7	27.7	24.8	22.0	18.4	16.3	15.6
60°	1111.7	660.5	17.0	18.4	21.3	22.0	19.9	16.3	12.8	10.6	10.6
62.5°	1068.4	604.4	13.5	12.1	15.6	16.3	14.2	10.6	7.1	5.0	4.3
65°	986.1	517.9	9.9	8.5	10.6	11.4	9.2	5.0	2.1	0.7	0.0
67.5°	791.0	390.2	6.4	5.7	7.1	7.1	4.3	1.4	0.0	0.0	0.0
70°	437.7	219.2	4.3	2.8	3.5	2.1	0.7	0.0	0.0	0.0	0.0
72.5°	126.3	62.4	2.1	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	34.1	14.9	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	14.9	5.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	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)