

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: P676708

Luminaire Tested: **CCW-SA-1C-740-U-T4W-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676708  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1C-740-U-T4W-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/  
T4W distribution lens and House Side Shield  
Light Source: (16) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

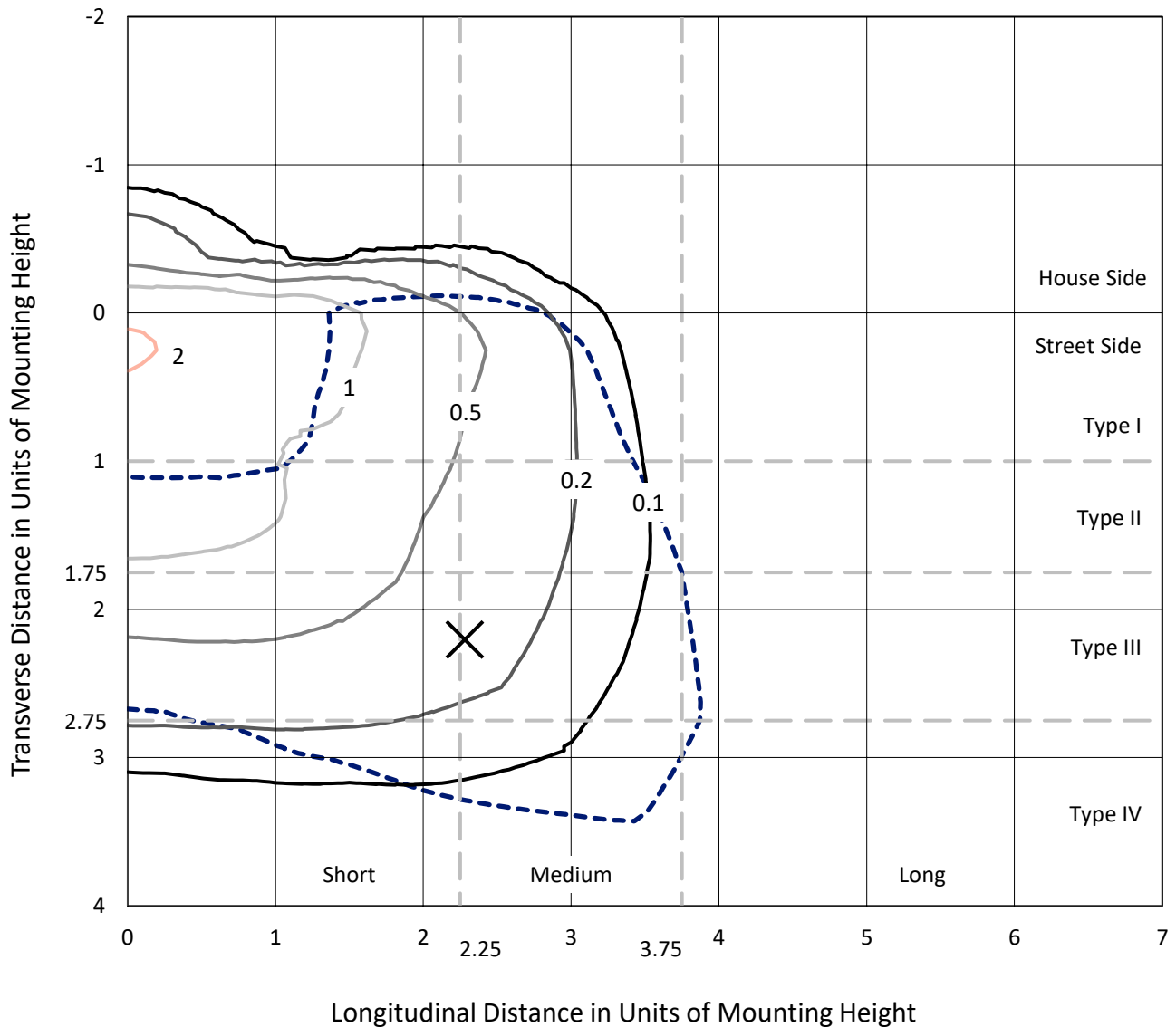
Lumens per Lamp: N/A  
Luminaire Lumens: 3262 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

Input Watts (W): 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

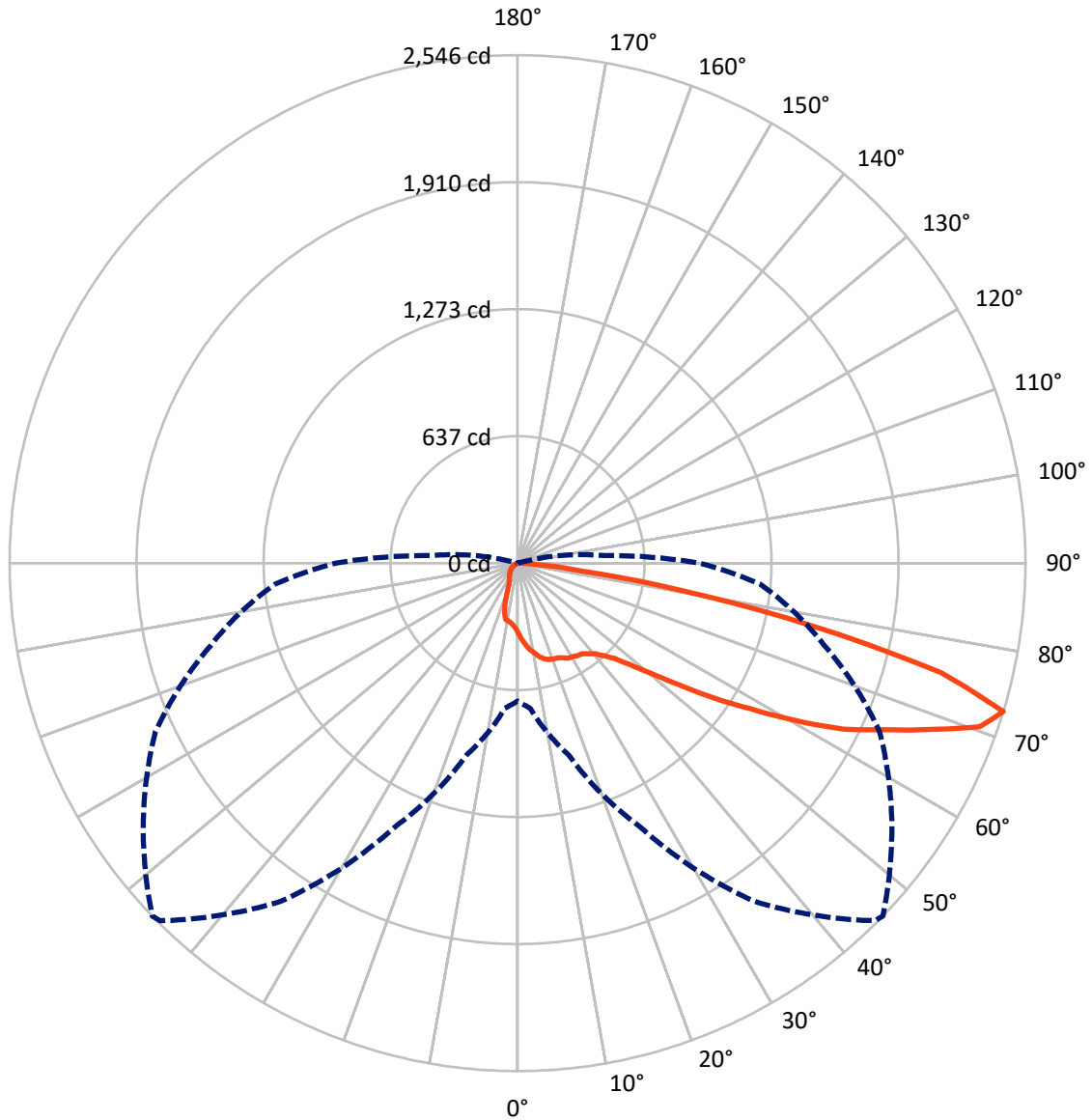
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.3 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	351.2	0.0	351.2
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	2910.8	0.0	2910.8
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	3262.0	0.0	3262.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.9	1.1
10°-20°	105.3	3.2
20°-30°	164.9	5.1
30°-40°	231.0	7.1
40°-50°	380.9	11.7
50°-60°	684.5	21.0
60°-70°	992.2	30.4
70°-80°	619.2	19.0
80°-90°	49.1	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°	3262.0	100.0
0°-180°	3262.0	100.0

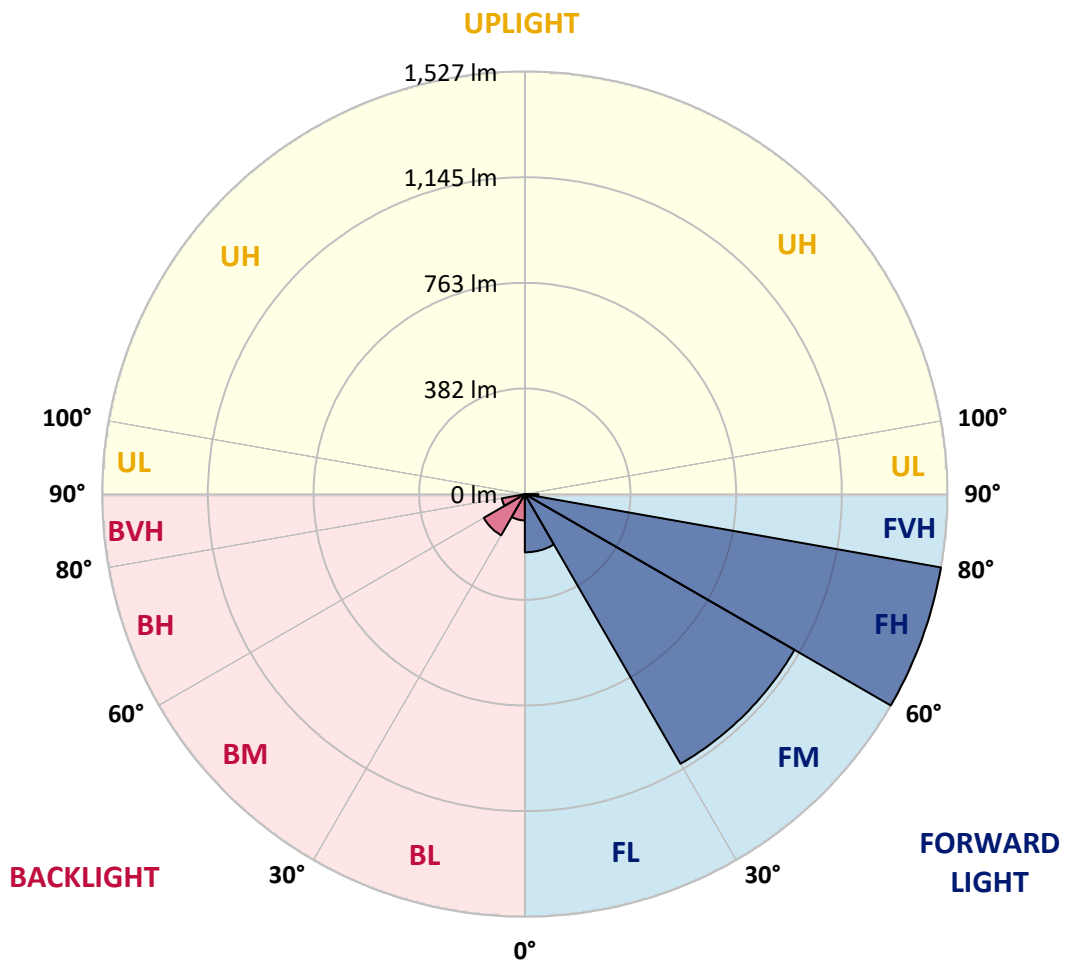


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	210.3	6.4			
FM (30°-60°)	1124.8	34.5			
FH (60°-80°)	1526.9	46.8			G1/1800
FVH (80°-90°)	48.8	1.5			G1/100
BL (0°-30°)	94.9	2.9	B0/110		
BM (30°-60°)	171.6	5.3	B0/220		
BH (60°-80°)	84.4	2.6	B0/110		G0/110
BVH (80°-90°)	0.3	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°	348.6	348.6	348.6	348.6	348.6	348.6	348.6	348.6	348.6	348.6	348.6
2.5°	390.2	388.6	391.1	390.2	380.2	381.9	381.1	374.4	362.8	356.1	352.0
5°	435.2	439.3	436.0	428.5	422.7	411.0	409.4	398.6	380.2	368.6	356.1
7.5°	481.8	481.8	475.1	463.5	451.0	438.5	436.8	418.5	402.7	382.7	365.3
10°	516.7	512.5	507.5	495.1	480.9	464.3	456.0	442.7	425.2	401.0	378.6
12.5°	547.5	540.8	532.5	514.2	497.6	479.3	480.9	459.3	447.6	426.0	392.7
15°	565.0	559.1	551.6	535.0	509.2	500.9	497.6	484.3	463.5	441.8	410.2
17.5°	569.1	565.0	555.0	533.3	519.2	509.2	508.4	492.6	483.4	465.1	430.2
20°	560.8	553.3	545.8	531.7	518.4	515.0	512.5	512.5	500.9	476.8	442.7
22.5°	546.7	538.3	534.2	525.9	515.0	514.2	515.9	514.2	505.1	489.2	456.0
25°	535.8	531.7	525.0	522.5	515.9	528.4	525.9	523.4	520.9	502.6	476.8
27.5°	539.2	538.3	533.3	523.4	518.4	531.7	539.2	540.0	539.2	520.9	495.9
30°	540.8	536.7	531.7	529.2	530.8	544.2	544.2	562.5	555.0	536.7	515.0
32.5°	560.0	557.5	540.8	535.0	535.8	551.6	552.5	570.8	568.3	555.8	531.7
35°	600.7	584.1	560.0	543.3	543.3	564.1	557.5	584.1	590.8	570.8	543.3
37.5°	661.5	649.0	605.7	568.3	554.1	569.1	575.8	590.8	610.7	593.3	566.6
40°	782.1	779.6	718.1	637.3	581.6	594.9	597.4	620.7	634.0	609.9	602.4
42.5°	958.5	946.0	888.6	761.3	631.5	625.7	634.9	649.8	681.4	661.5	643.2
45°	1130.8	1124.9	1067.5	925.2	722.2	687.3	682.3	708.9	755.5	733.9	719.7
47.5°	1255.6	1243.9	1211.5	1091.6	855.3	759.7	763.0	789.6	848.7	832.0	836.2
50°	1351.2	1345.4	1311.3	1245.6	1023.4	873.7	867.0	893.6	973.5	984.3	996.0
52.5°	1456.1	1466.9	1421.1	1365.4	1222.3	1026.7	1011.8	1020.9	1124.1	1149.1	1181.5
55°	1556.8	1574.2	1528.5	1521.0	1430.3	1196.5	1194.0	1172.4	1305.5	1308.8	1326.3
57.5°	1622.5	1616.7	1613.3	1654.1	1638.3	1391.2	1378.7	1357.1	1477.7	1456.1	1508.5
60°	1627.5	1644.1	1699.9	1800.6	1828.8	1620.0	1601.7	1542.6	1626.7	1575.1	1674.9
62.5°	1664.9	1678.2	1781.4	1920.4	1957.0	1821.4	1833.8	1684.1	1754.0	1713.2	1859.6
65°	1570.1	1611.7	1818.9	2013.6	2125.1	2025.2	2012.7	1866.3	1884.6	1846.3	2041.8
67.5°	1484.4	1500.2	1716.5	2041.8	2258.2	2229.9	2224.9	2027.7	2019.4	1948.7	2093.4
70°	1206.5	1225.6	1439.4	1897.1	2303.1	2468.7	2457.0	2254.0	2110.9	1892.9	1828.8
72.5°	691.4	729.7	997.6	1461.1	2069.3	2535.3	2546.1	2290.6	2002.7	1591.7	1221.4
75°	226.3	237.1	414.4	827.9	1547.6	2211.6	2192.4	1968.6	1615.8	1050.9	551.6
77.5°	76.5	78.2	122.3	299.5	857.8	1494.4	1505.2	1407.0	992.6	436.8	152.3
80°	39.1	41.6	59.9	112.3	352.8	813.7	831.2	802.1	416.0	129.0	36.6
82.5°	18.3	19.1	34.9	62.4	161.4	319.5	319.5	351.1	147.3	72.4	15.0
85°	6.7	6.7	18.3	35.8	68.2	106.5	107.3	108.2	77.4	54.1	6.7
87.5°	2.5	2.5	9.2	15.0	25.0	32.4	32.4	25.8	39.1	35.8	2.5
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°	348.6	348.6	348.6	348.6	348.6	348.6	348.6	348.6	348.6	348.6	348.6
2.5°	350.3	345.3	341.1	335.3	327.8	323.7	324.5	319.5	319.5	317.0	316.2
5°	350.3	345.3	334.5	324.5	317.8	309.5	305.4	302.0	302.0	300.4	301.2
7.5°	352.8	345.3	330.3	317.0	306.2	297.9	291.2	290.4	288.7	284.6	287.9
10°	367.8	356.9	332.0	313.7	301.2	292.0	280.4	277.1	272.1	264.6	265.4
12.5°	380.2	366.1	343.6	318.7	302.9	287.9	261.3	232.1	219.7	206.3	207.2
15°	398.6	378.6	347.8	325.3	302.9	254.6	206.3	168.9	148.9	139.0	139.0
17.5°	408.5	391.9	359.4	329.5	278.7	207.2	146.4	114.0	110.7	112.3	112.3
20°	429.3	406.9	372.8	332.8	238.8	147.3	107.3	104.0	105.7	109.0	108.2
22.5°	442.7	420.2	382.7	317.8	184.7	105.7	100.7	99.0	100.7	104.8	104.8
25°	453.5	439.3	398.6	281.2	130.6	95.7	94.0	95.7	97.3	99.0	101.5
27.5°	480.1	456.0	409.4	233.8	94.0	89.0	90.7	91.5	91.5	94.0	94.9
30°	497.6	478.4	417.7	180.6	83.2	82.4	84.0	84.9	85.7	88.2	89.0
32.5°	514.2	507.5	406.9	122.3	78.2	76.5	75.7	76.5	79.9	82.4	81.5
35°	538.3	534.2	391.1	84.9	73.2	69.9	68.2	69.1	71.6	74.1	73.2
37.5°	567.5	571.6	352.8	74.1	68.2	64.1	60.7	60.7	61.6	64.1	64.9
40°	601.6	612.4	307.9	69.1	64.9	59.9	56.6	52.4	51.6	50.8	51.6
42.5°	664.0	676.5	257.1	65.7	59.9	54.1	49.1	44.1	39.9	37.4	37.4
45°	751.3	741.4	190.5	62.4	57.4	49.1	41.6	35.8	30.0	27.5	27.5
47.5°	872.0	837.9	130.6	59.1	53.3	43.3	34.9	27.5	22.5	20.0	20.0
50°	1039.2	926.9	84.9	55.7	50.8	37.4	28.3	20.0	16.6	15.8	16.6
52.5°	1197.3	1017.6	67.4	51.6	45.8	32.4	21.6	16.6	15.0	14.1	14.1
55°	1342.9	1063.4	59.9	47.4	41.6	26.6	18.3	14.1	13.3	12.5	12.5
57.5°	1466.1	1079.2	51.6	41.6	33.3	20.8	15.0	12.5	10.8	10.0	10.0
60°	1572.6	1083.3	39.9	33.3	24.1	15.8	12.5	10.8	9.2	7.5	7.5
62.5°	1657.4	1054.2	28.3	23.3	16.6	12.5	10.8	7.5	5.0	3.3	2.5
65°	1724.8	996.0	19.1	15.8	10.8	9.2	6.7	3.3	0.8	0.0	0.0
67.5°	1645.8	863.7	15.0	11.6	7.5	5.8	3.3	0.8	0.0	0.0	0.0
70°	1342.1	669.8	10.8	7.5	5.0	1.7	0.8	0.0	0.0	0.0	0.0
72.5°	913.6	431.8	8.3	5.0	2.5	0.8	0.0	0.0	0.0	0.0	0.0
75°	410.2	154.8	5.8	3.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	99.8	36.6	4.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	26.6	9.2	2.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.0	3.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	0.8	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)