

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: P676690

Luminaire Tested: **CCW-SA-2A-730-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676690
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-730-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
T4W distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3594.7 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

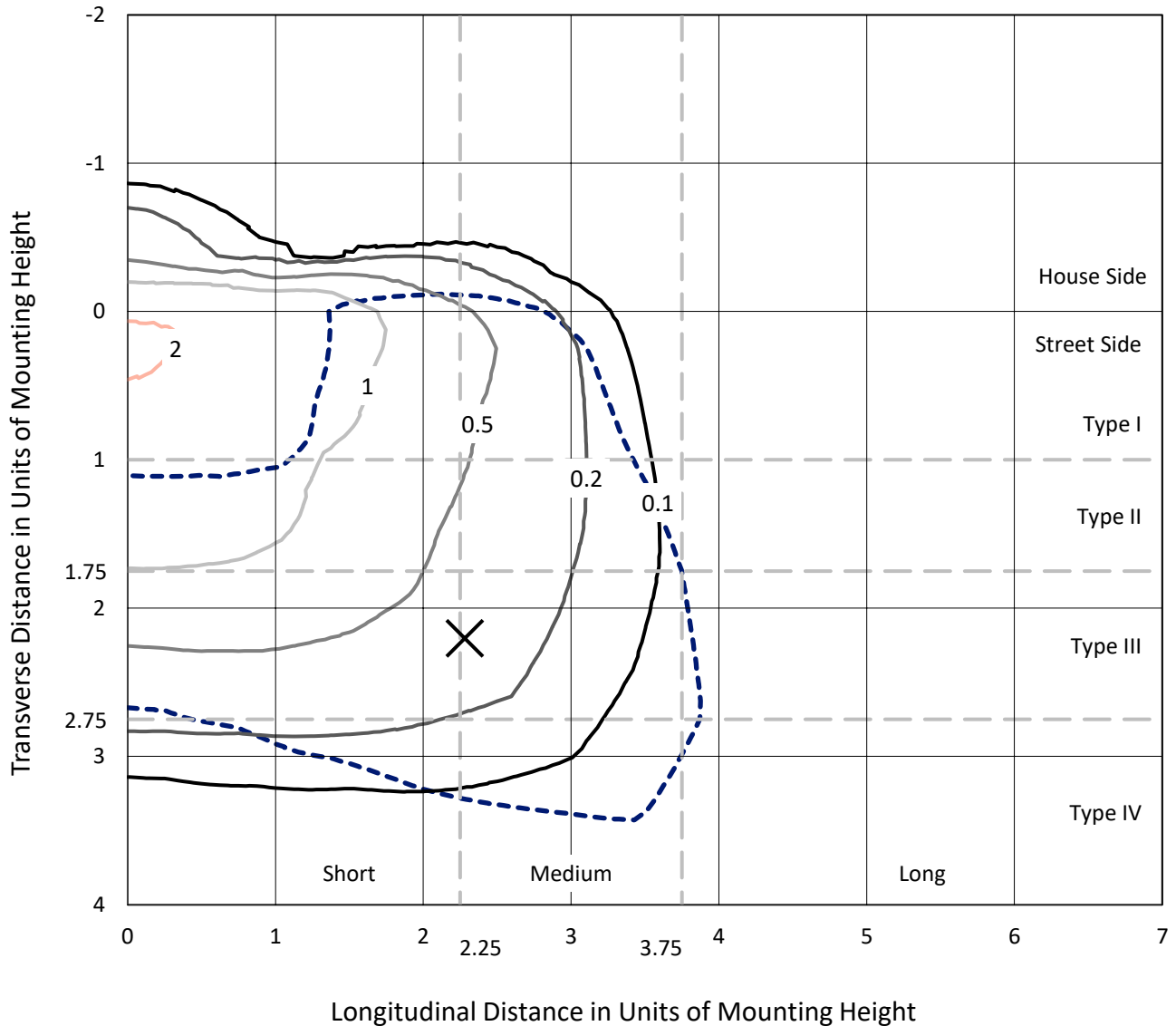
Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

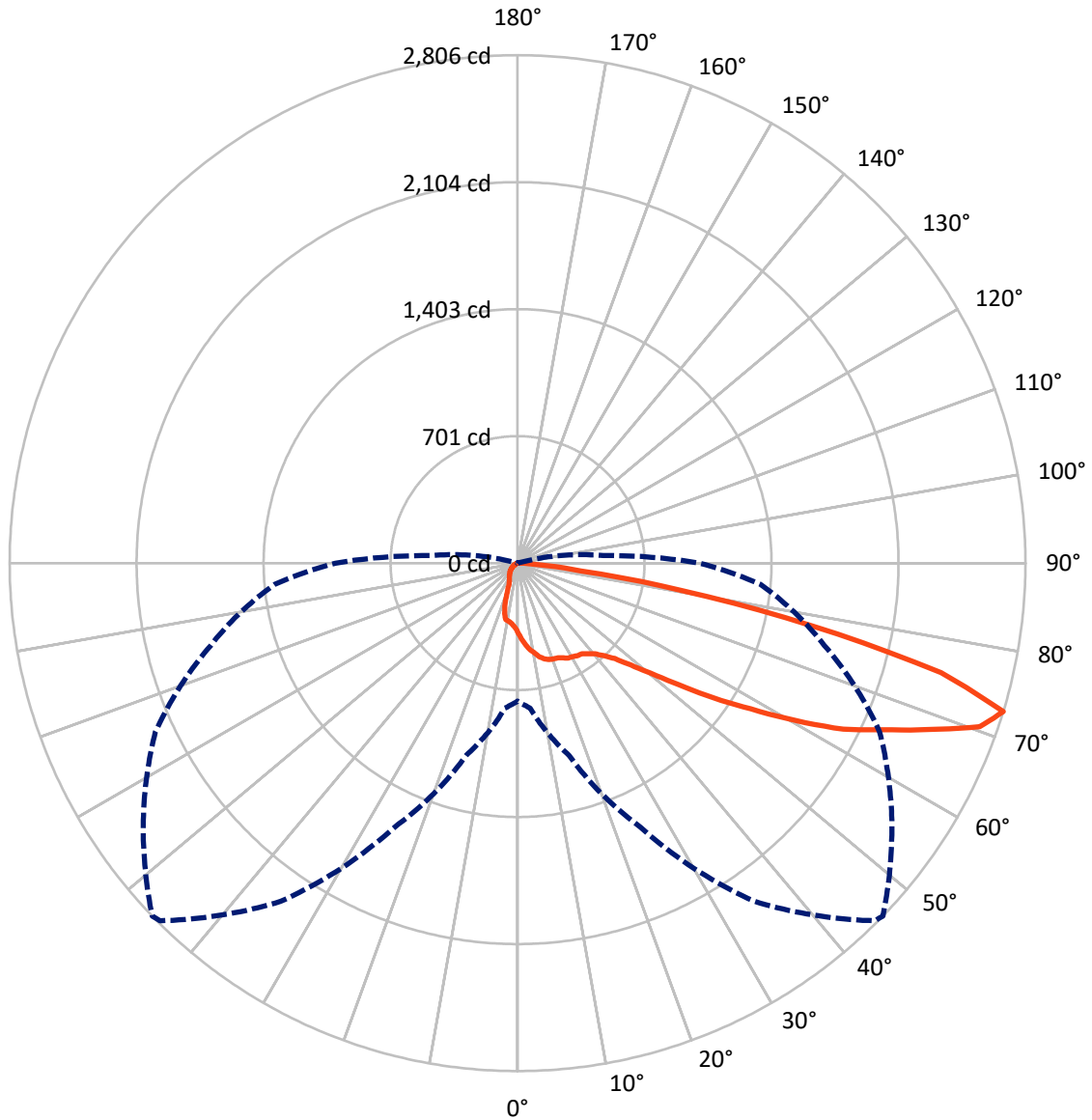
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.5 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
House Side	Lumens	387.0	0.0	387.0
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	3207.7	0.0	3207.7
	% Fixture	89.2	0.0	89.2
Total	Lumens	3594.7	0.0	3594.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.5	1.1
10°-20°	116.1	3.2
20°-30°	181.7	5.1
30°-40°	254.5	7.1
40°-50°	419.7	11.7
50°-60°	754.4	21.0
60°-70°	1093.4	30.4
70°-80°	682.4	19.0
80°-90°	54.1	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°	3594.7	100.0
0°-180°	3594.7	100.0

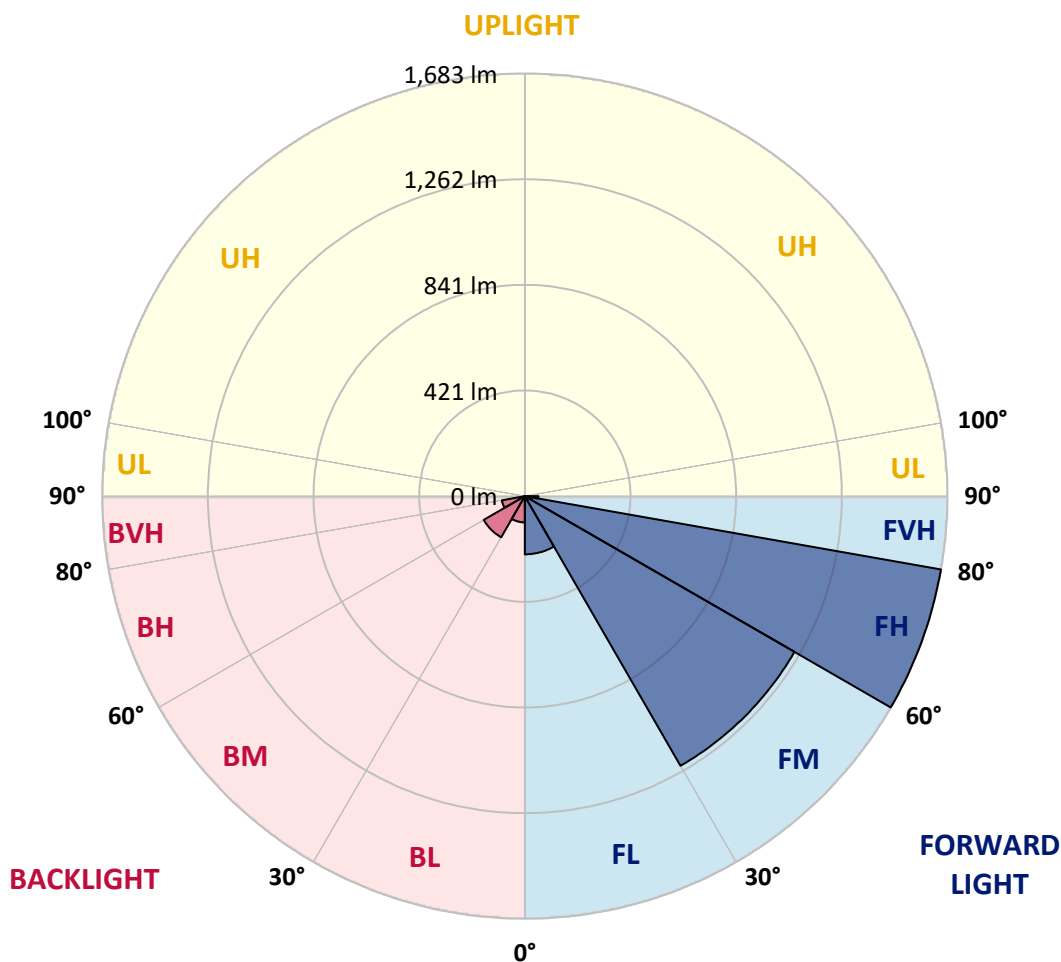


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	231.7	6.4			
FM (30°-60°)	1239.6	34.5			
FH (60°-80°)	1682.7	46.8			G1/1800
FVH (80°-90°)	53.8	1.5			G1/100
BL (0°-30°)	104.6	2.9	B0/110		
BM (30°-60°)	189.1	5.3	B0/220		
BH (60°-80°)	93.1	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°	384.2	384.2	384.2	384.2	384.2	384.2	384.2	384.2	384.2	384.2	384.2
2.5°	430.0	428.2	431.0	430.0	419.0	420.9	420.0	412.6	399.8	392.4	387.9
5°	479.6	484.1	480.5	472.2	465.8	453.0	451.1	439.2	419.0	406.2	392.4
7.5°	530.9	530.9	523.6	510.7	497.0	483.2	481.4	461.2	443.8	421.8	402.5
10°	569.4	564.8	559.3	545.6	530.0	511.6	502.5	487.8	468.5	442.0	417.2
12.5°	603.3	596.0	586.8	566.7	548.3	528.1	530.0	506.1	493.3	469.5	432.8
15°	622.6	616.2	607.9	589.6	561.2	552.0	548.3	533.6	510.7	486.9	452.0
17.5°	627.2	622.6	611.6	587.7	572.2	561.2	560.2	542.8	532.7	512.6	474.0
20°	618.0	609.8	601.5	585.9	571.2	567.6	564.8	564.8	552.0	525.4	487.8
22.5°	602.4	593.3	588.7	579.5	567.6	566.7	568.5	566.7	556.6	539.2	502.5
25°	590.5	585.9	578.6	575.8	568.5	582.2	579.5	576.7	574.0	553.8	525.4
27.5°	594.2	593.3	587.7	576.7	571.2	585.9	594.2	595.1	594.2	574.0	546.5
30°	596.0	591.4	585.9	583.2	585.0	599.7	599.7	619.8	611.6	591.4	567.6
32.5°	617.1	614.3	596.0	589.6	590.5	607.9	608.8	629.0	626.3	612.5	585.9
35°	662.0	643.7	617.1	598.8	598.8	621.7	614.3	643.7	651.0	629.0	598.8
37.5°	729.0	715.2	667.5	626.3	610.7	627.2	634.5	651.0	673.0	653.8	624.4
40°	861.9	859.2	791.3	702.4	640.9	655.6	658.4	684.0	698.7	672.1	663.9
42.5°	1056.3	1042.5	979.3	839.0	695.9	689.5	699.6	716.1	751.0	729.0	708.8
45°	1246.1	1239.7	1176.4	1019.6	795.9	757.4	751.9	781.2	832.6	808.7	793.1
47.5°	1383.6	1370.8	1335.0	1203.0	942.6	837.2	840.8	870.2	935.3	916.9	921.5
50°	1489.1	1482.7	1445.1	1372.6	1127.8	962.8	955.4	984.8	1072.8	1084.7	1097.6
52.5°	1604.6	1616.5	1566.1	1504.7	1347.0	1131.5	1115.0	1125.1	1238.8	1266.3	1302.0
55°	1715.6	1734.8	1684.4	1676.1	1576.2	1318.5	1315.8	1291.9	1438.7	1442.3	1461.6
57.5°	1788.0	1781.6	1777.9	1822.8	1805.4	1533.1	1519.3	1495.5	1628.5	1604.6	1662.4
60°	1793.5	1811.8	1873.3	1984.2	2015.4	1785.3	1765.1	1700.0	1792.6	1735.7	1845.8
62.5°	1834.8	1849.4	1963.1	2116.3	2156.6	2007.1	2020.9	1855.9	1932.9	1887.9	2049.3
65°	1730.2	1776.1	2004.4	2219.0	2341.8	2231.8	2218.0	2056.7	2076.8	2034.7	2250.1
67.5°	1635.8	1653.2	1891.6	2250.1	2488.5	2457.4	2451.9	2234.5	2225.4	2147.4	2307.0
70°	1329.5	1350.6	1586.3	2090.6	2538.0	2720.5	2707.7	2483.9	2326.2	2086.0	2015.4
72.5°	762.0	804.1	1099.4	1610.1	2280.4	2793.9	2805.8	2524.3	2207.0	1754.1	1346.0
75°	249.4	261.3	456.6	912.3	1705.5	2437.2	2416.1	2169.4	1780.7	1158.1	607.9
77.5°	84.4	86.2	134.8	330.1	945.3	1646.8	1658.7	1550.5	1093.9	481.4	167.8
80°	43.1	45.8	66.0	123.8	388.8	896.8	916.0	883.9	458.5	142.1	40.3
82.5°	20.2	21.1	38.5	68.8	177.9	352.1	352.1	386.9	162.3	79.8	16.5
85°	7.3	7.3	20.2	39.4	75.2	117.4	118.3	119.2	85.3	59.6	7.3
87.5°	2.8	2.8	10.1	16.5	27.5	35.8	35.8	28.4	43.1	39.4	2.8
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°	384.2	384.2	384.2	384.2	384.2	384.2	384.2	384.2	384.2	384.2	384.2
2.5°	386.0	380.5	375.9	369.5	361.3	356.7	357.6	352.1	352.1	349.3	348.4
5°	386.0	380.5	368.6	357.6	350.3	341.1	336.5	332.8	332.8	331.0	331.9
7.5°	388.8	380.5	364.0	349.3	337.4	328.3	320.9	320.0	318.2	313.6	317.3
10°	405.3	393.4	365.9	345.7	331.9	321.8	309.0	305.3	299.8	291.6	292.5
12.5°	419.0	403.4	378.7	351.2	333.8	317.3	287.9	255.8	242.1	227.4	228.3
15°	439.2	417.2	383.3	358.5	333.8	280.6	227.4	186.1	164.1	153.1	153.1
17.5°	450.2	431.9	396.1	363.1	307.2	228.3	161.4	125.6	122.0	123.8	123.8
20°	473.1	448.4	410.8	366.8	263.2	162.3	118.3	114.6	116.4	120.1	119.2
22.5°	487.8	463.0	421.8	350.3	203.6	116.4	110.9	109.1	110.9	115.5	115.5
25°	499.7	484.1	439.2	309.9	144.0	105.4	103.6	105.4	107.3	109.1	111.9
27.5°	529.1	502.5	451.1	257.7	103.6	98.1	99.9	100.9	100.9	103.6	104.5
30°	548.3	527.2	460.3	199.0	91.7	90.8	92.6	93.5	94.4	97.2	98.1
32.5°	566.7	559.3	448.4	134.8	86.2	84.4	83.4	84.4	88.0	90.8	89.9
35°	593.3	588.7	431.0	93.5	80.7	77.0	75.2	76.1	78.9	81.6	80.7
37.5°	625.3	629.9	388.8	81.6	75.2	70.6	66.9	66.9	67.9	70.6	71.5
40°	662.9	674.9	339.3	76.1	71.5	66.0	62.4	57.8	56.8	55.9	56.8
42.5°	731.7	745.5	283.3	72.4	66.0	59.6	54.1	48.6	44.0	41.3	41.3
45°	828.0	817.0	210.0	68.8	63.3	54.1	45.8	39.4	33.0	30.3	30.3
47.5°	960.9	923.3	144.0	65.1	58.7	47.7	38.5	30.3	24.8	22.0	22.0
50°	1145.2	1021.5	93.5	61.4	55.9	41.3	31.2	22.0	18.3	17.4	18.3
52.5°	1319.5	1121.4	74.3	56.8	50.4	35.8	23.8	18.3	16.5	15.6	15.6
55°	1479.9	1171.8	66.0	52.3	45.8	29.3	20.2	15.6	14.7	13.8	13.8
57.5°	1615.6	1189.3	56.8	45.8	36.7	22.9	16.5	13.8	11.9	11.0	11.0
60°	1733.0	1193.8	44.0	36.7	26.6	17.4	13.8	11.9	10.1	8.3	8.3
62.5°	1826.5	1161.7	31.2	25.7	18.3	13.8	11.9	8.3	5.5	3.7	2.8
65°	1900.8	1097.6	21.1	17.4	11.9	10.1	7.3	3.7	0.9	0.0	0.0
67.5°	1813.7	951.8	16.5	12.8	8.3	6.4	3.7	0.9	0.0	0.0	0.0
70°	1479.0	738.1	11.9	8.3	5.5	1.8	0.9	0.0	0.0	0.0	0.0
72.5°	1006.8	475.9	9.2	5.5	2.8	0.9	0.0	0.0	0.0	0.0	0.0
75°	452.0	170.5	6.4	3.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	110.0	40.3	4.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	29.3	10.1	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.0	3.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.9	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)