

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: P676640

Luminaire Tested: **CCW-SA-1B-850-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676640
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-850-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
T4FT distribution lens and House Side Shield
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

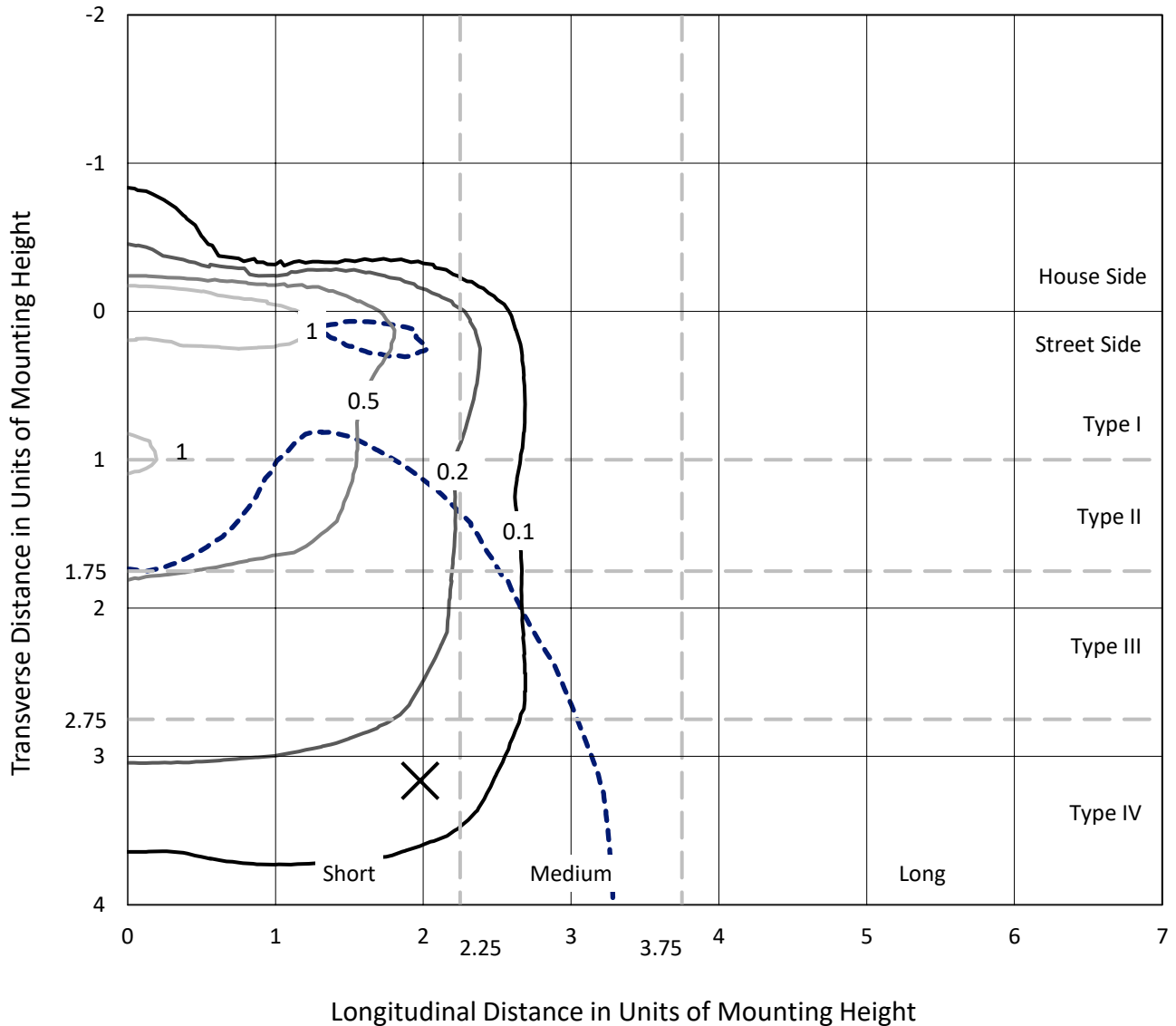
Lumens per Lamp: N/A
Luminaire Lumens: 2163.9 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

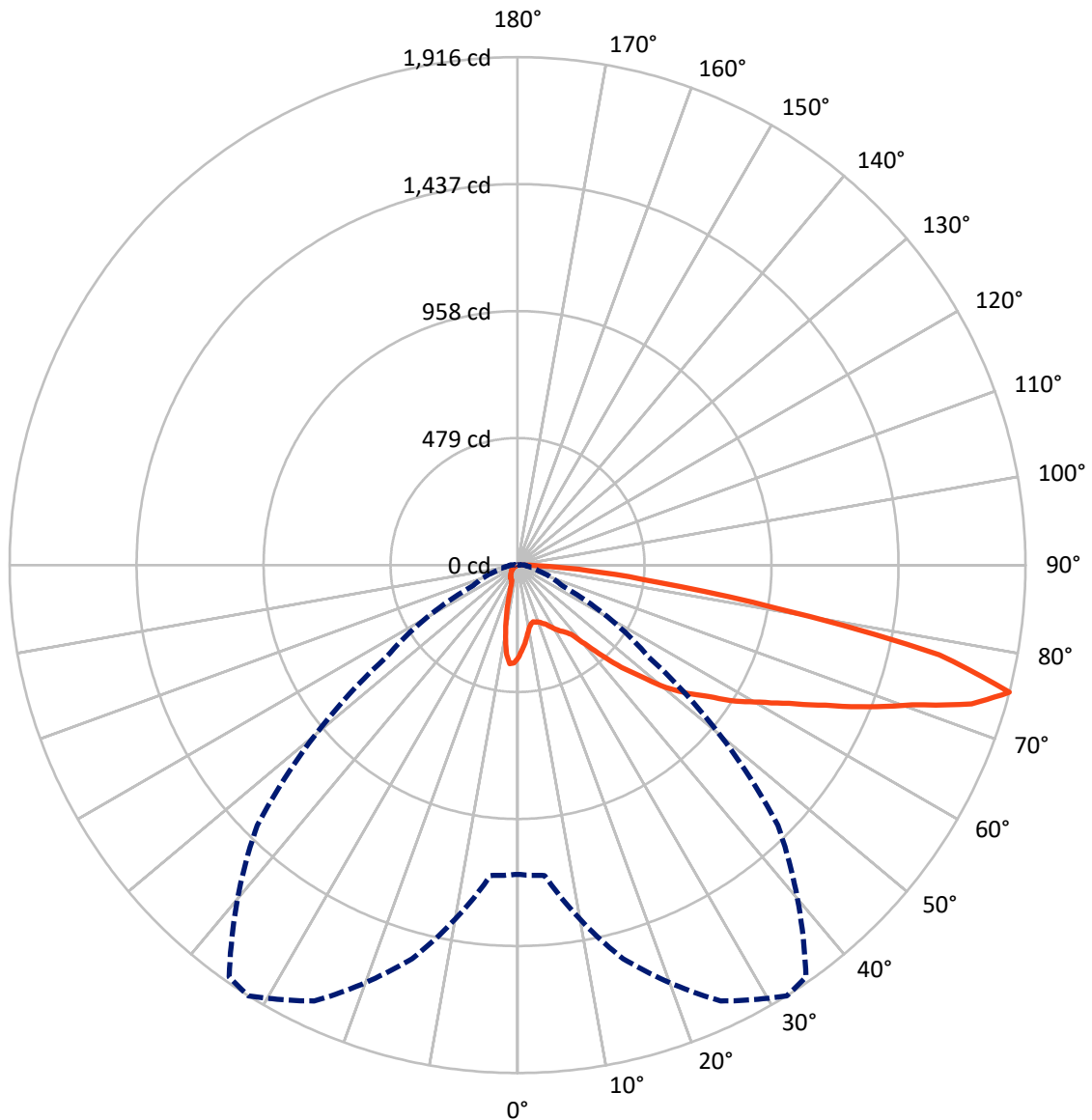
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.6 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
House Side	Lumens	233.8	0.0	233.8
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	1930.1	0.0	1930.1
	% Fixture	89.2	0.0	89.2
Total	Lumens	2163.9	0.0	2163.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.7	1.4
10°-20°	69.7	3.2
20°-30°	104.4	4.8
30°-40°	160.2	7.4
40°-50°	280.2	12.9
50°-60°	438.0	20.2
60°-70°	566.2	26.2
70°-80°	461.2	21.3
80°-90°	53.4	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°	2163.9	100.0
0°-180°	2163.9	100.0



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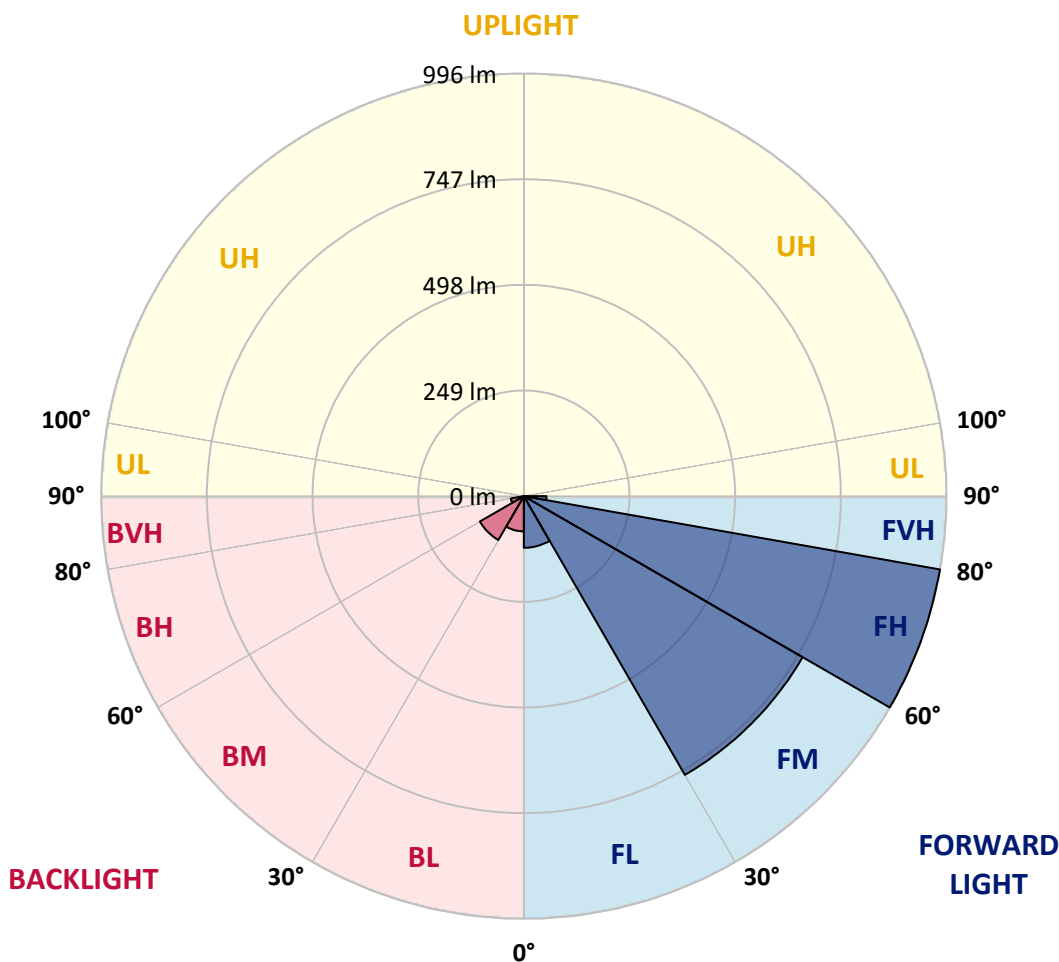
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	121.7	5.6			
FM (30°-60°)	758.8	35.1			
FH (60°-80°)	996.3	46.0			G1/1800
FVH (80°-90°)	53.3	2.5			G1/100
BL (0°-30°)	83.0	3.8	B0/110		
BM (30°-60°)	119.6	5.5	B0/220		
BH (60°-80°)	31.1	1.4	B0/110		G0/110
BVH (80°-90°)	0.0	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°	349.4	349.4	349.4	349.4	349.4	349.4	349.4	349.4	349.4	349.4	349.4
2.5°	313.4	317.8	317.2	320.0	320.6	322.2	326.1	326.1	337.2	345.0	350.0
5°	285.1	282.3	283.4	286.7	295.1	294.5	303.9	308.9	322.2	333.3	345.0
7.5°	250.1	249.6	251.8	259.6	265.7	270.7	280.6	293.4	311.1	327.8	348.3
10°	227.9	226.8	231.3	233.5	240.7	244.0	259.6	279.5	300.6	324.4	348.3
12.5°	223.0	219.1	221.3	220.7	227.4	229.1	244.0	268.4	293.9	323.3	352.7
15°	225.7	223.0	220.7	220.7	222.4	223.5	239.6	261.2	290.1	325.0	362.7
17.5°	234.6	232.9	226.3	219.6	226.8	226.8	236.8	259.6	290.6	330.0	374.9
20°	245.1	243.5	231.8	224.1	229.1	234.6	245.1	263.4	292.3	333.9	393.8
22.5°	256.8	256.8	240.7	231.8	238.5	239.0	257.9	275.6	298.9	343.9	406.0
25°	271.2	270.1	254.6	244.6	246.8	252.9	270.1	289.0	311.1	357.7	428.7
27.5°	290.1	288.4	270.1	260.1	262.9	269.5	289.0	307.8	322.2	363.3	448.1
30°	305.6	303.9	289.0	274.0	280.1	286.2	308.9	325.6	336.1	373.8	470.3
32.5°	308.9	306.1	296.2	289.5	296.2	307.8	325.6	342.8	358.8	400.4	512.5
35°	347.2	337.2	311.1	300.6	310.6	314.5	343.9	374.4	389.9	421.5	559.6
37.5°	420.4	411.0	376.6	347.2	333.3	337.8	376.0	413.7	428.7	460.9	611.2
40°	510.2	494.7	458.1	418.7	390.4	384.9	409.9	465.3	479.7	510.2	678.8
42.5°	612.8	597.9	541.3	494.7	465.9	458.7	462.5	525.2	537.4	555.7	723.2
45°	686.6	678.8	615.1	573.5	550.7	543.0	533.5	590.7	606.2	612.3	787.5
47.5°	729.3	723.8	688.3	660.0	629.5	621.2	627.3	681.6	671.1	676.1	849.1
50°	786.4	772.0	723.8	732.6	726.5	724.3	734.9	758.7	743.2	728.8	916.2
52.5°	832.5	807.0	773.1	794.8	804.2	812.5	849.7	867.4	798.1	775.9	959.5
55°	860.8	836.4	845.2	865.2	875.2	913.4	957.3	943.9	834.1	813.6	1017.2
57.5°	886.3	887.9	911.8	917.9	968.9	975.6	1059.9	1016.6	859.6	848.0	1039.9
60°	947.8	941.7	961.1	1000.5	1049.3	1086.5	1166.9	1065.4	872.4	865.7	1033.8
62.5°	1058.8	1021.0	1027.7	1077.6	1149.2	1189.6	1228.5	1087.6	869.1	868.5	1015.5
65°	1199.6	1156.4	1136.4	1183.0	1275.6	1332.7	1297.8	1112.6	846.9	862.4	947.3
67.5°	1316.6	1317.2	1280.0	1306.1	1427.0	1439.2	1363.2	1107.6	809.7	814.2	780.9
70°	1451.4	1469.7	1437.0	1518.5	1579.0	1586.7	1438.1	1066.5	729.9	614.0	448.7
72.5°	1485.8	1495.2	1597.3	1722.6	1790.8	1793.1	1511.9	929.5	480.3	271.2	139.2
75°	1166.9	1175.8	1537.4	1814.7	1916.2	1896.8	1388.7	603.4	186.9	79.3	33.3
77.5°	651.1	653.9	954.5	1466.9	1625.6	1547.4	972.8	235.2	75.4	45.5	15.5
80°	178.0	209.1	353.8	723.2	992.8	974.5	463.1	76.5	48.8	35.5	7.2
82.5°	42.7	46.0	113.7	320.0	524.7	547.4	138.1	38.8	33.8	29.4	3.9
85°	15.5	17.2	34.9	155.8	269.5	247.4	41.6	19.4	25.0	22.7	1.7
87.5°	5.5	5.5	11.1	51.0	78.8	59.3	13.9	6.7	12.8	13.9	0.6
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°	349.4	349.4	349.4	349.4	349.4	349.4	349.4	349.4	349.4	349.4	349.4
2.5°	350.5	350.5	358.3	364.9	367.2	369.9	367.2	373.3	372.7	369.9	371.0
5°	351.1	361.1	367.7	372.1	374.4	373.8	374.9	368.3	364.4	361.6	358.8
7.5°	353.8	363.3	375.5	374.4	368.3	355.5	345.5	327.8	310.6	310.0	307.3
10°	363.3	371.6	378.8	374.4	352.2	313.4	281.7	257.9	236.3	226.3	227.4
12.5°	369.9	385.5	382.1	359.4	313.4	262.3	215.7	180.8	161.4	143.1	143.1
15°	383.8	389.3	388.2	337.8	265.7	204.7	148.1	112.6	92.1	83.7	82.6
17.5°	397.1	403.2	384.3	305.0	218.5	137.5	89.8	69.9	67.1	66.0	66.6
20°	413.7	414.3	381.0	272.3	164.2	87.1	64.3	62.7	63.2	62.7	62.7
22.5°	431.5	435.4	369.4	226.3	109.3	63.2	59.9	60.5	60.5	60.5	62.1
25°	454.8	448.7	351.1	182.5	71.5	58.2	58.2	58.8	58.8	58.8	59.3
27.5°	470.3	462.0	327.8	131.4	56.0	54.9	56.0	56.0	57.1	57.1	57.1
30°	502.5	480.8	298.4	84.9	50.5	52.1	53.2	54.4	54.9	56.0	56.6
32.5°	527.4	497.5	261.8	56.6	46.0	47.1	49.9	52.1	54.4	53.8	53.8
35°	572.9	524.7	227.9	44.9	42.2	42.2	44.9	48.8	52.1	53.2	53.2
37.5°	625.0	546.8	180.8	41.0	38.8	38.8	40.5	44.9	49.4	51.6	50.5
40°	668.3	572.4	133.7	38.3	36.0	36.0	37.2	40.5	45.5	49.4	49.9
42.5°	698.8	591.2	90.4	35.5	33.8	33.3	34.9	36.6	40.5	46.0	47.1
45°	726.5	601.2	56.0	32.7	31.6	31.6	31.6	33.3	36.0	41.0	42.2
47.5°	775.9	612.3	40.5	30.5	28.8	29.4	29.9	30.5	32.7	33.8	34.4
50°	817.5	620.6	33.3	28.3	27.2	27.7	27.7	27.7	28.8	27.2	27.2
52.5°	849.1	612.3	28.3	26.1	25.0	25.5	25.0	25.0	23.8	21.6	21.6
55°	872.4	597.3	22.7	23.8	23.8	23.8	22.7	21.1	18.9	17.2	17.2
57.5°	878.5	571.8	17.7	20.0	21.6	21.6	19.4	17.2	14.4	12.8	12.2
60°	869.1	516.3	13.3	14.4	16.6	17.2	15.5	12.8	10.0	8.3	8.3
62.5°	835.2	472.5	10.5	9.4	12.2	12.8	11.1	8.3	5.5	3.9	3.3
65°	770.9	404.9	7.8	6.7	8.3	8.9	7.2	3.9	1.7	0.6	0.0
67.5°	618.4	305.0	5.0	4.4	5.5	5.5	3.3	1.1	0.0	0.0	0.0
70°	342.2	171.4	3.3	2.2	2.8	1.7	0.6	0.0	0.0	0.0	0.0
72.5°	98.7	48.8	1.7	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	26.6	11.6	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.6	4.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.6	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)