

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: P676639

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676639
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-850-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
T4FT distribution lens and House Side Shield
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

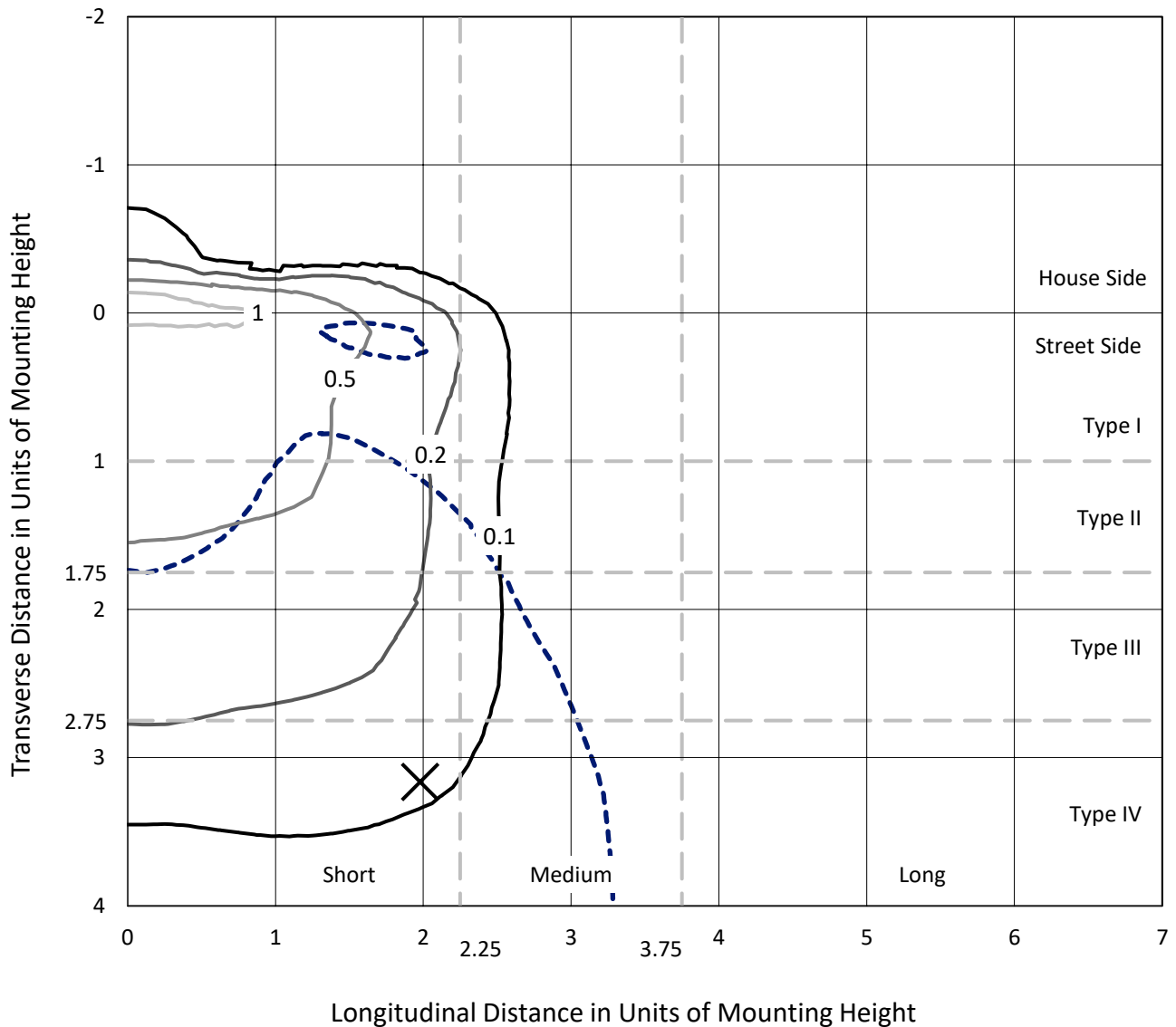
Lumens per Lamp: N/A
Luminaire Lumens: 1714.2 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 18
Input Voltage (V): 120
Input Current (A_{in}): 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

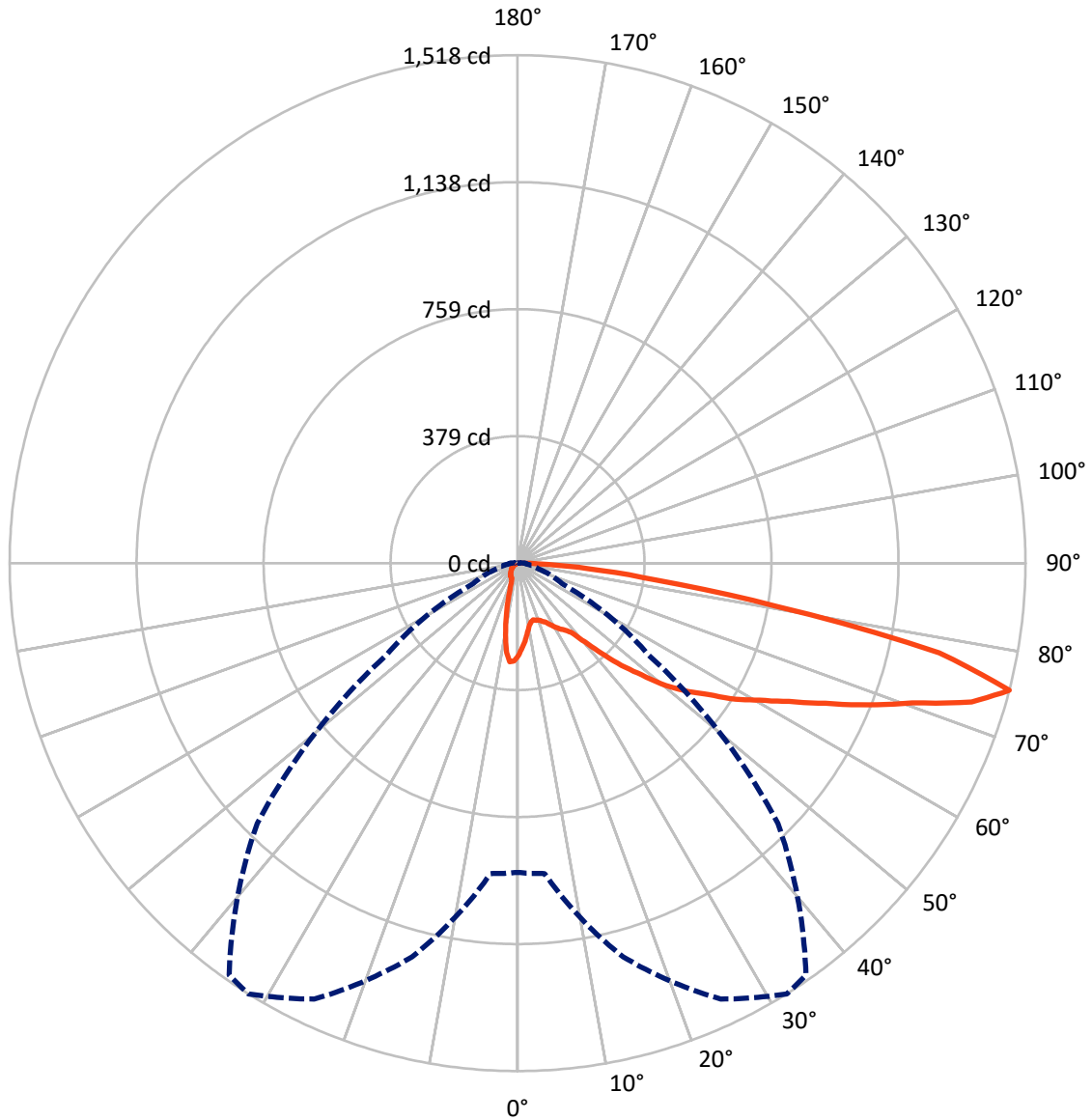
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.2 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
House Side	Lumens	185.2	0.0	185.2
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	1529.0	0.0	1529.0
	% Fixture	89.2	0.0	89.2
Total	Lumens	1714.2	0.0	1714.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.3	1.4
10°-20°	55.2	3.2
20°-30°	82.7	4.8
30°-40°	126.9	7.4
40°-50°	221.9	12.9
50°-60°	346.9	20.2
60°-70°	448.5	26.2
70°-80°	365.3	21.3
80°-90°	42.3	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°	1714.2	100.0
0°-180°	1714.2	100.0



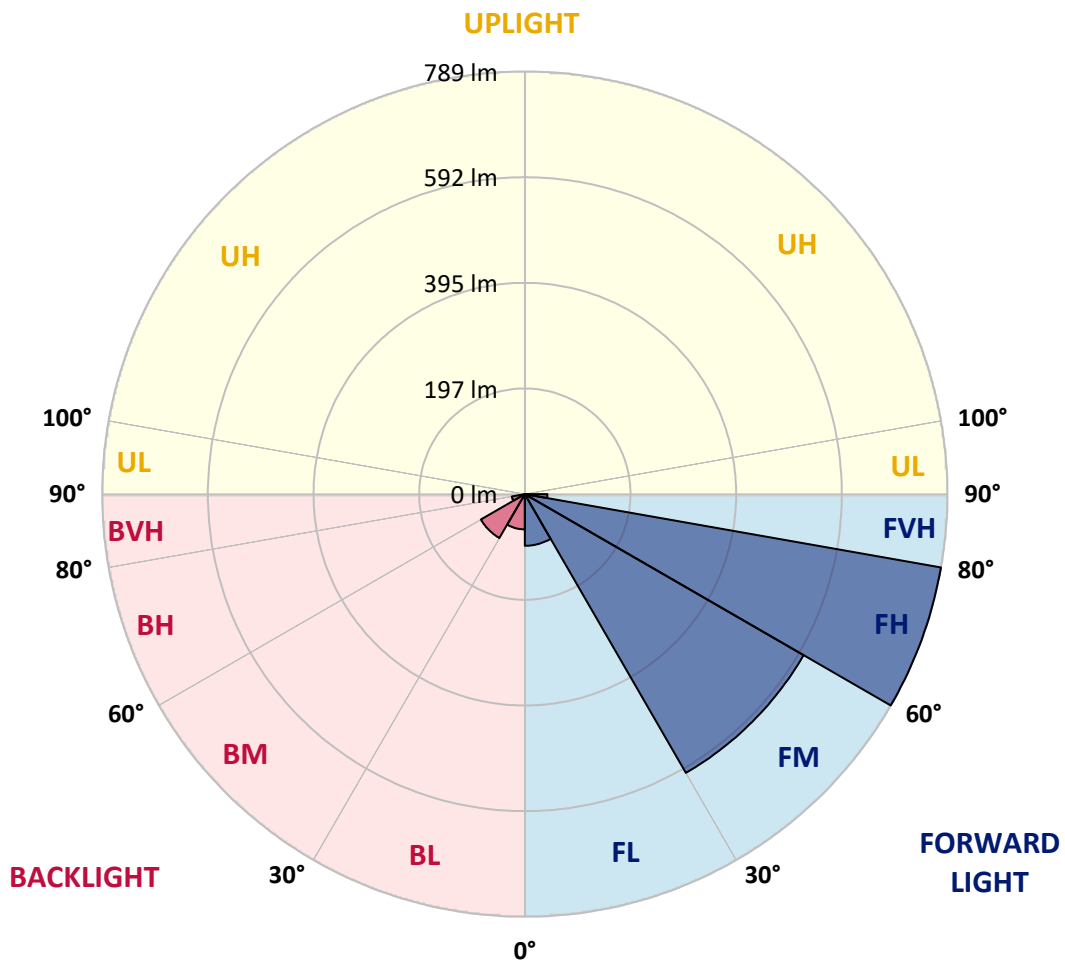
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	96.4	5.6			
FM (30°-60°)	601.1	35.1			
FH (60°-80°)	789.2	46.0			G1/1800
FVH (80°-90°)	42.3	2.5			G1/100
BL (0°-30°)	65.8	3.8	B0/110		
BM (30°-60°)	94.7	5.5	B0/220		
BH (60°-80°)	24.6	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°	276.8	276.8	276.8	276.8	276.8	276.8	276.8	276.8	276.8	276.8	276.8
2.5°	248.2	251.7	251.3	253.5	253.9	255.3	258.3	258.3	267.1	273.3	277.2
5°	225.8	223.6	224.5	227.1	233.7	233.3	240.8	244.7	255.3	264.0	273.3
7.5°	198.1	197.7	199.5	205.6	210.4	214.4	222.3	232.4	246.5	259.7	275.9
10°	180.6	179.7	183.2	185.0	190.7	193.3	205.6	221.4	238.1	257.0	275.9
12.5°	176.6	173.5	175.3	174.9	180.1	181.4	193.3	212.6	232.9	256.1	279.4
15°	178.8	176.6	174.9	174.9	176.2	177.1	189.8	206.9	229.8	257.5	287.3
17.5°	185.8	184.5	179.3	174.0	179.7	179.7	187.6	205.6	230.2	261.4	297.0
20°	194.2	192.9	183.6	177.5	181.4	185.8	194.2	208.7	231.5	264.5	311.9
22.5°	203.4	203.4	190.7	183.6	188.9	189.4	204.3	218.4	236.8	272.4	321.6
25°	214.8	214.0	201.7	193.8	195.5	200.3	214.0	228.9	246.5	283.4	339.6
27.5°	229.8	228.5	214.0	206.1	208.2	213.5	228.9	243.8	255.3	287.8	355.0
30°	242.1	240.8	228.9	217.0	221.9	226.7	244.7	257.9	266.2	296.1	372.6
32.5°	244.7	242.5	234.6	229.3	234.6	243.8	257.9	271.5	284.3	317.2	406.0
35°	275.0	267.1	246.5	238.1	246.0	249.1	272.4	296.6	308.9	333.9	443.3
37.5°	333.0	325.6	298.3	275.0	264.0	267.6	297.9	327.7	339.6	365.1	484.2
40°	404.2	391.9	362.9	331.7	309.3	304.9	324.7	368.6	380.0	404.2	537.8
42.5°	485.5	473.6	428.8	391.9	369.0	363.3	366.4	416.1	425.7	440.2	572.9
45°	543.9	537.8	487.2	454.3	436.3	430.1	422.6	467.9	480.2	485.0	623.9
47.5°	577.7	573.3	545.2	522.8	498.7	492.1	496.9	540.0	531.6	535.6	672.6
50°	623.0	611.6	573.3	580.4	575.5	573.8	582.1	601.0	588.7	577.3	725.8
52.5°	659.5	639.2	612.4	629.6	637.0	643.6	673.1	687.1	632.2	614.6	760.1
55°	681.9	662.5	669.6	685.4	693.3	723.6	758.3	747.8	660.8	644.5	805.8
57.5°	702.1	703.4	722.3	727.1	767.5	772.8	839.6	805.3	681.0	671.8	823.8
60°	750.8	746.0	761.4	792.6	831.2	860.7	924.4	844.0	691.1	685.8	818.9
62.5°	838.7	808.8	814.1	853.6	910.3	942.4	973.1	861.6	688.5	688.0	804.4
65°	950.3	916.0	900.2	937.1	1010.5	1055.7	1028.1	881.3	670.9	683.2	750.4
67.5°	1043.0	1043.4	1014.0	1034.7	1130.4	1140.1	1079.9	877.4	641.4	645.0	618.6
70°	1149.8	1164.3	1138.3	1202.9	1250.8	1257.0	1139.2	844.9	578.2	486.4	355.4
72.5°	1177.0	1184.5	1265.3	1364.6	1418.6	1420.4	1197.6	736.3	380.5	214.8	110.3
75°	924.4	931.4	1217.9	1437.5	1517.9	1502.6	1100.1	478.0	148.1	62.8	26.4
77.5°	515.8	518.0	756.1	1162.1	1287.7	1225.8	770.6	186.3	59.8	36.0	12.3
80°	141.0	165.6	280.3	572.9	786.4	771.9	366.9	60.6	38.7	28.1	5.7
82.5°	33.8	36.5	90.1	253.5	415.6	433.6	109.4	30.8	26.8	23.3	3.1
85°	12.3	13.6	27.7	123.5	213.5	195.9	33.0	15.4	19.8	18.0	1.3
87.5°	4.4	4.4	8.8	40.4	62.4	47.0	11.0	5.3	10.1	11.0	0.4
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°	276.8	276.8	276.8	276.8	276.8	276.8	276.8	276.8	276.8	276.8	276.8
2.5°	277.7	277.7	283.8	289.1	290.8	293.0	290.8	295.7	295.2	293.0	293.9
5°	278.1	286.0	291.3	294.8	296.6	296.1	297.0	291.7	288.6	286.5	284.3
7.5°	280.3	287.8	297.4	296.6	291.7	281.6	273.7	259.7	246.0	245.6	243.4
10°	287.8	294.4	300.1	296.6	279.0	248.2	223.2	204.3	187.2	179.3	180.1
12.5°	293.0	305.3	302.7	284.7	248.2	207.8	170.9	143.2	127.8	113.4	113.4
15°	304.0	308.4	307.5	267.6	210.4	162.1	117.3	89.2	72.9	66.3	65.5
17.5°	314.6	319.4	304.5	241.6	173.1	109.0	71.2	55.4	53.2	52.3	52.7
20°	327.7	328.2	301.8	215.7	130.0	69.0	51.0	49.6	50.1	49.6	49.6
22.5°	341.8	344.9	292.6	179.3	86.6	50.1	47.4	47.9	47.9	47.9	49.2
25°	360.3	355.4	278.1	144.5	56.7	46.1	46.1	46.6	46.6	46.6	47.0
27.5°	372.6	366.0	259.7	104.1	44.4	43.5	44.4	44.4	45.3	45.3	45.3
30°	398.0	380.9	236.4	67.2	40.0	41.3	42.2	43.1	43.5	44.4	44.8
32.5°	417.8	394.1	207.4	44.8	36.5	37.3	39.5	41.3	43.1	42.6	42.6
35°	453.8	415.6	180.6	35.6	33.4	33.4	35.6	38.7	41.3	42.2	42.2
37.5°	495.1	433.2	143.2	32.5	30.8	30.8	32.1	35.6	39.1	40.9	40.0
40°	529.4	453.4	105.9	30.3	28.6	28.6	29.4	32.1	36.0	39.1	39.5
42.5°	553.6	468.3	71.6	28.1	26.8	26.4	27.7	29.0	32.1	36.5	37.3
45°	575.5	476.2	44.4	25.9	25.0	25.0	25.0	26.4	28.6	32.5	33.4
47.5°	614.6	485.0	32.1	24.2	22.8	23.3	23.7	24.2	25.9	26.8	27.2
50°	647.6	491.6	26.4	22.4	21.5	22.0	22.0	22.0	22.8	21.5	21.5
52.5°	672.6	485.0	22.4	20.6	19.8	20.2	19.8	19.8	18.9	17.1	17.1
55°	691.1	473.2	18.0	18.9	18.9	18.9	18.0	16.7	14.9	13.6	13.6
57.5°	695.9	453.0	14.1	15.8	17.1	17.1	15.4	13.6	11.4	10.1	9.7
60°	688.5	409.0	10.5	11.4	13.2	13.6	12.3	10.1	7.9	6.6	6.6
62.5°	661.7	374.3	8.3	7.5	9.7	10.1	8.8	6.6	4.4	3.1	2.6
65°	610.7	320.7	6.2	5.3	6.6	7.0	5.7	3.1	1.3	0.4	0.0
67.5°	489.9	241.6	4.0	3.5	4.4	4.4	2.6	0.9	0.0	0.0	0.0
70°	271.1	135.8	2.6	1.8	2.2	1.3	0.4	0.0	0.0	0.0	0.0
72.5°	78.2	38.7	1.3	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	21.1	9.2	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.2	3.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.4	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)