

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: P676607

Luminaire Tested: **CCW-SA-1B-830-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676607
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-830-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) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

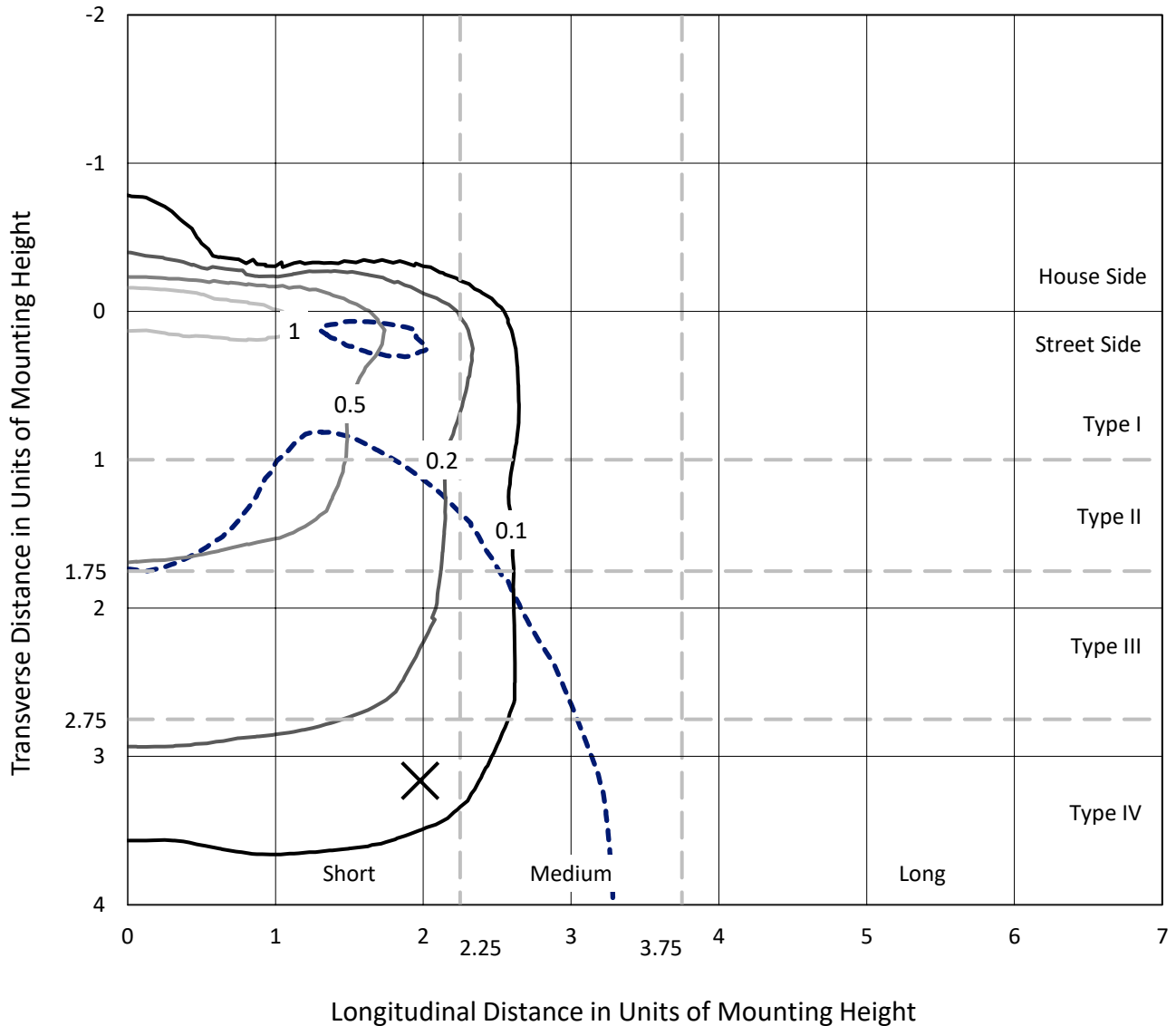
Lumens per Lamp: N/A
Luminaire Lumens: 1970.5 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

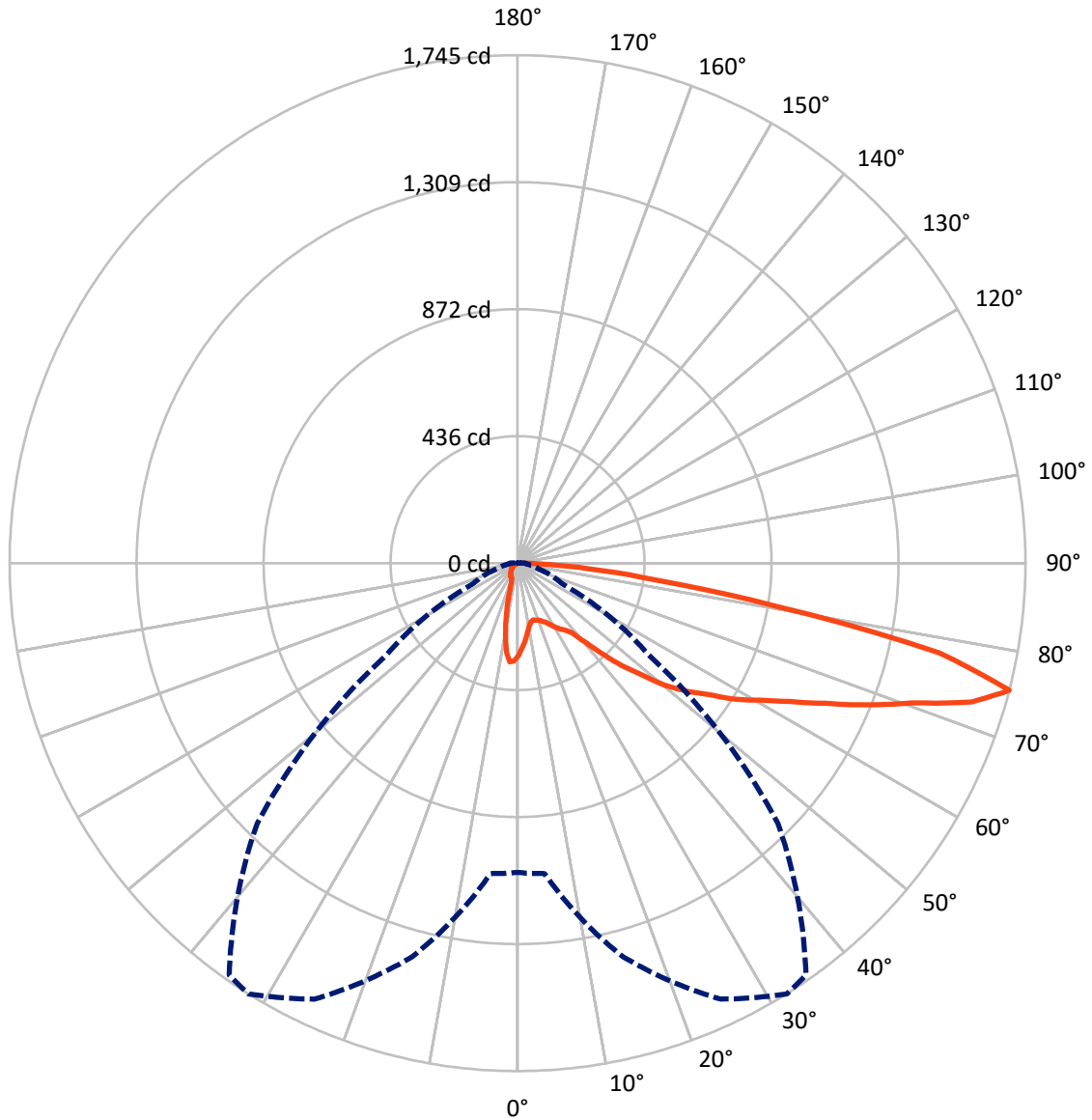
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.4 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	212.9	0.0	212.9
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	1757.6	0.0	1757.6
	% Fixture	89.2	0.0	89.2
Total	Lumens	1970.5	0.0	1970.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.0	1.4
10°-20°	63.5	3.2
20°-30°	95.0	4.8
30°-40°	145.9	7.4
40°-50°	255.1	12.9
50°-60°	398.8	20.2
60°-70°	515.6	26.2
70°-80°	419.9	21.3
80°-90°	48.6	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°	1970.5	100.0
0°-180°	1970.5	100.0



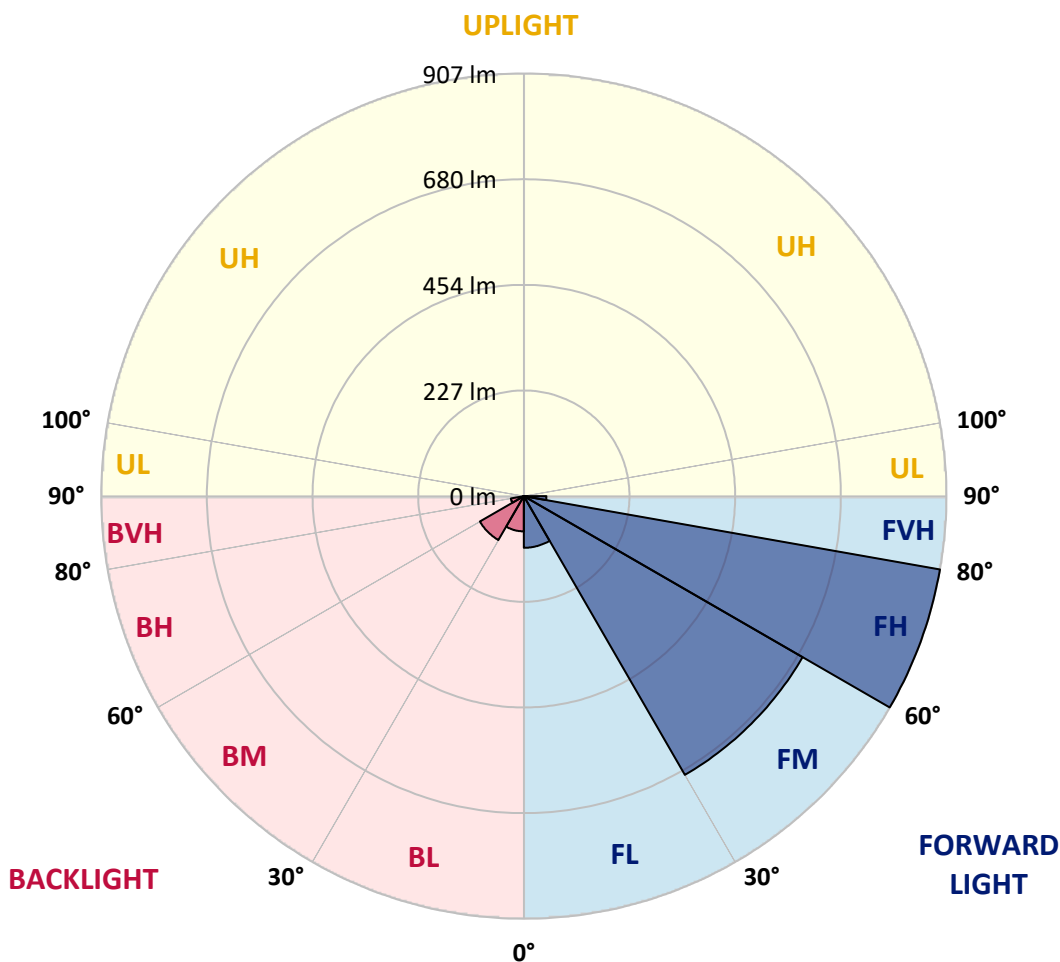
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	110.9	5.6			
FM (30°-60°)	690.9	35.1			
FH (60°-80°)	907.2	46.0			G1/1800
FVH (80°-90°)	48.6	2.5			G1/100
BL (0°-30°)	75.6	3.8	B0/110		
BM (30°-60°)	108.9	5.5	B0/220		
BH (60°-80°)	28.3	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°	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2
2.5°	285.3	289.4	288.9	291.4	291.9	293.4	297.0	297.0	307.1	314.1	318.7
5°	259.6	257.1	258.1	261.1	268.7	268.2	276.8	281.3	293.4	303.5	314.1
7.5°	227.8	227.3	229.3	236.4	241.9	246.5	255.5	267.2	283.3	298.5	317.2
10°	207.6	206.6	210.6	212.6	219.2	222.2	236.4	254.5	273.7	295.4	317.2
12.5°	203.0	199.5	201.5	201.0	207.1	208.6	222.2	244.4	267.7	294.4	321.2
15°	205.5	203.0	201.0	201.0	202.5	203.5	218.2	237.9	264.1	296.0	330.3
17.5°	213.6	212.1	206.1	200.0	206.6	206.6	215.7	236.4	264.6	300.5	341.4
20°	223.2	221.7	211.1	204.0	208.6	213.6	223.2	239.9	266.2	304.0	358.6
22.5°	233.8	233.8	219.2	211.1	217.2	217.7	234.8	251.0	272.2	313.1	369.7
25°	247.0	246.0	231.8	222.7	224.7	230.3	246.0	263.1	283.3	325.7	390.4
27.5°	264.1	262.6	246.0	236.9	239.4	245.4	263.1	280.3	293.4	330.8	408.1
30°	278.3	276.8	263.1	249.5	255.0	260.6	281.3	296.5	306.1	340.4	428.3
32.5°	281.3	278.8	269.7	263.6	269.7	280.3	296.5	312.1	326.8	364.6	466.7
35°	316.2	307.1	283.3	273.7	282.8	286.4	313.1	340.9	355.0	383.8	509.6
37.5°	382.8	374.2	342.9	316.2	303.5	307.6	342.4	376.8	390.4	419.7	556.6
40°	464.6	450.5	417.2	381.3	355.5	350.5	373.2	423.7	436.9	464.6	618.2
42.5°	558.1	544.4	492.9	450.5	424.2	417.7	421.2	478.3	489.4	506.0	658.6
45°	625.2	618.2	560.1	522.2	501.5	494.4	485.8	537.9	552.0	557.6	717.2
47.5°	664.1	659.1	626.8	601.0	573.2	565.6	571.2	620.7	611.1	615.6	773.2
50°	716.1	703.0	659.1	667.2	661.6	659.6	669.2	690.9	676.7	663.6	834.3
52.5°	758.1	734.8	704.0	723.7	732.3	739.9	773.7	789.9	726.7	706.5	873.7
55°	783.8	761.6	769.7	787.9	796.9	831.8	871.7	859.6	759.6	740.9	926.2
57.5°	807.0	808.6	830.3	835.8	882.3	888.4	965.1	925.7	782.8	772.2	946.9
60°	863.1	857.6	875.2	911.1	955.5	989.4	1062.6	970.2	794.4	788.4	941.4
62.5°	964.1	929.8	935.8	981.3	1046.4	1083.3	1118.7	990.4	791.4	790.9	924.7
65°	1092.4	1053.0	1034.8	1077.2	1161.6	1213.6	1181.8	1013.1	771.2	785.3	862.6
67.5°	1199.0	1199.5	1165.6	1189.4	1299.5	1310.6	1241.4	1008.6	737.4	741.4	711.1
70°	1321.7	1338.3	1308.5	1382.8	1437.8	1444.9	1309.6	971.2	664.6	559.1	408.6
72.5°	1353.0	1361.6	1454.5	1568.6	1630.8	1632.8	1376.7	846.4	437.4	247.0	126.8
75°	1062.6	1070.7	1400.0	1652.5	1744.9	1727.2	1264.6	549.5	170.2	72.2	30.3
77.5°	592.9	595.4	869.2	1335.8	1480.3	1409.1	885.8	214.1	68.7	41.4	14.1
80°	162.1	190.4	322.2	658.6	904.0	887.3	421.7	69.7	44.4	32.3	6.6
82.5°	38.9	41.9	103.5	291.4	477.8	498.5	125.8	35.4	30.8	26.8	3.5
85°	14.1	15.7	31.8	141.9	245.4	225.2	37.9	17.7	22.7	20.7	1.5
87.5°	5.1	5.1	10.1	46.5	71.7	54.0	12.6	6.1	11.6	12.6	0.5
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°	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2
2.5°	319.2	319.2	326.3	332.3	334.3	336.9	334.3	339.9	339.4	336.9	337.9
5°	319.7	328.8	334.8	338.9	340.9	340.4	341.4	335.3	331.8	329.3	326.8
7.5°	322.2	330.8	341.9	340.9	335.3	323.7	314.6	298.5	282.8	282.3	279.8
10°	330.8	338.4	344.9	340.9	320.7	285.3	256.6	234.8	215.1	206.1	207.1
12.5°	336.9	351.0	348.0	327.3	285.3	238.9	196.5	164.6	147.0	130.3	130.3
15°	349.5	354.5	353.5	307.6	241.9	186.4	134.8	102.5	83.8	76.3	75.3
17.5°	361.6	367.2	350.0	277.8	199.0	125.2	81.8	63.6	61.1	60.1	60.6
20°	376.8	377.3	347.0	248.0	149.5	79.3	58.6	57.1	57.6	57.1	57.1
22.5°	392.9	396.5	336.4	206.1	99.5	57.6	54.5	55.0	55.0	55.0	56.6
25°	414.1	408.6	319.7	166.2	65.1	53.0	53.0	53.5	53.5	53.5	54.0
27.5°	428.3	420.7	298.5	119.7	51.0	50.0	51.0	51.0	52.0	52.0	52.0
30°	457.6	437.9	271.7	77.3	46.0	47.5	48.5	49.5	50.0	51.0	51.5
32.5°	480.3	453.0	238.4	51.5	41.9	42.9	45.5	47.5	49.5	49.0	49.0
35°	521.7	477.8	207.6	40.9	38.4	38.4	40.9	44.4	47.5	48.5	48.5
37.5°	569.2	498.0	164.6	37.4	35.4	35.4	36.9	40.9	44.9	47.0	46.0
40°	608.6	521.2	121.7	34.8	32.8	32.8	33.8	36.9	41.4	44.9	45.5
42.5°	636.3	538.4	82.3	32.3	30.8	30.3	31.8	33.3	36.9	41.9	42.9
45°	661.6	547.5	51.0	29.8	28.8	28.8	28.8	30.3	32.8	37.4	38.4
47.5°	706.5	557.6	36.9	27.8	26.3	26.8	27.3	27.8	29.8	30.8	31.3
50°	744.4	565.1	30.3	25.8	24.7	25.3	25.3	25.3	26.3	24.7	24.7
52.5°	773.2	557.6	25.8	23.7	22.7	23.2	22.7	22.7	21.7	19.7	19.7
55°	794.4	543.9	20.7	21.7	21.7	21.7	20.7	19.2	17.2	15.7	15.7
57.5°	800.0	520.7	16.2	18.2	19.7	19.7	17.7	15.7	13.1	11.6	11.1
60°	791.4	470.2	12.1	13.1	15.2	15.7	14.1	11.6	9.1	7.6	7.6
62.5°	760.6	430.3	9.6	8.6	11.1	11.6	10.1	7.6	5.1	3.5	3.0
65°	702.0	368.7	7.1	6.1	7.6	8.1	6.6	3.5	1.5	0.5	0.0
67.5°	563.1	277.8	4.5	4.0	5.1	5.1	3.0	1.0	0.0	0.0	0.0
70°	311.6	156.1	3.0	2.0	2.5	1.5	0.5	0.0	0.0	0.0	0.0
72.5°	89.9	44.4	1.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	24.2	10.6	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.6	4.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	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)