

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: P675155

Luminaire Tested: **CCW-SA-1A-827-U-T4FT**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675155
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-827-U-T4FT
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
T4FT distribution lens
Light Source: (16) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

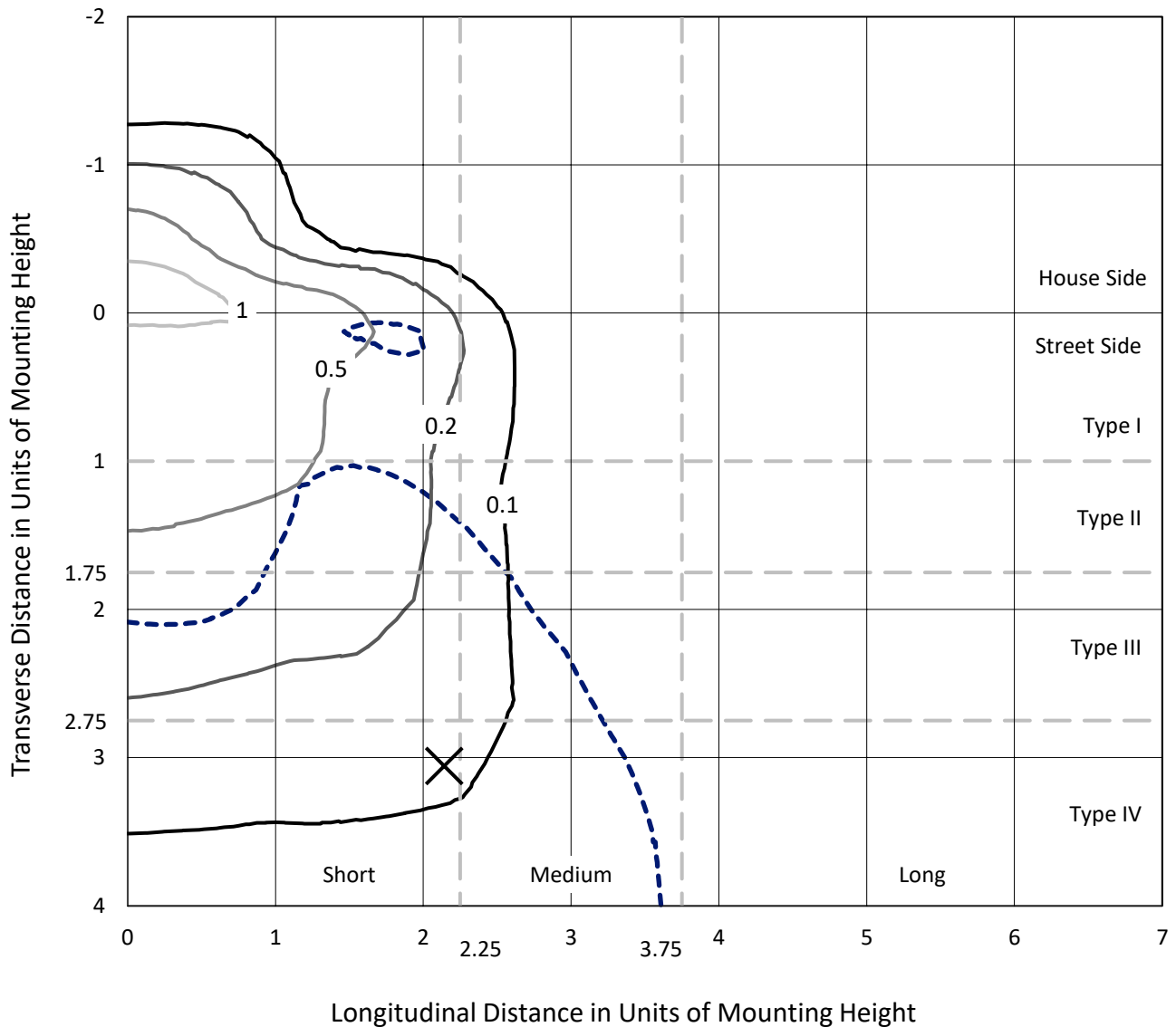
Lumens per Lamp: N/A
Luminaire Lumens: 2009.8 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 18
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

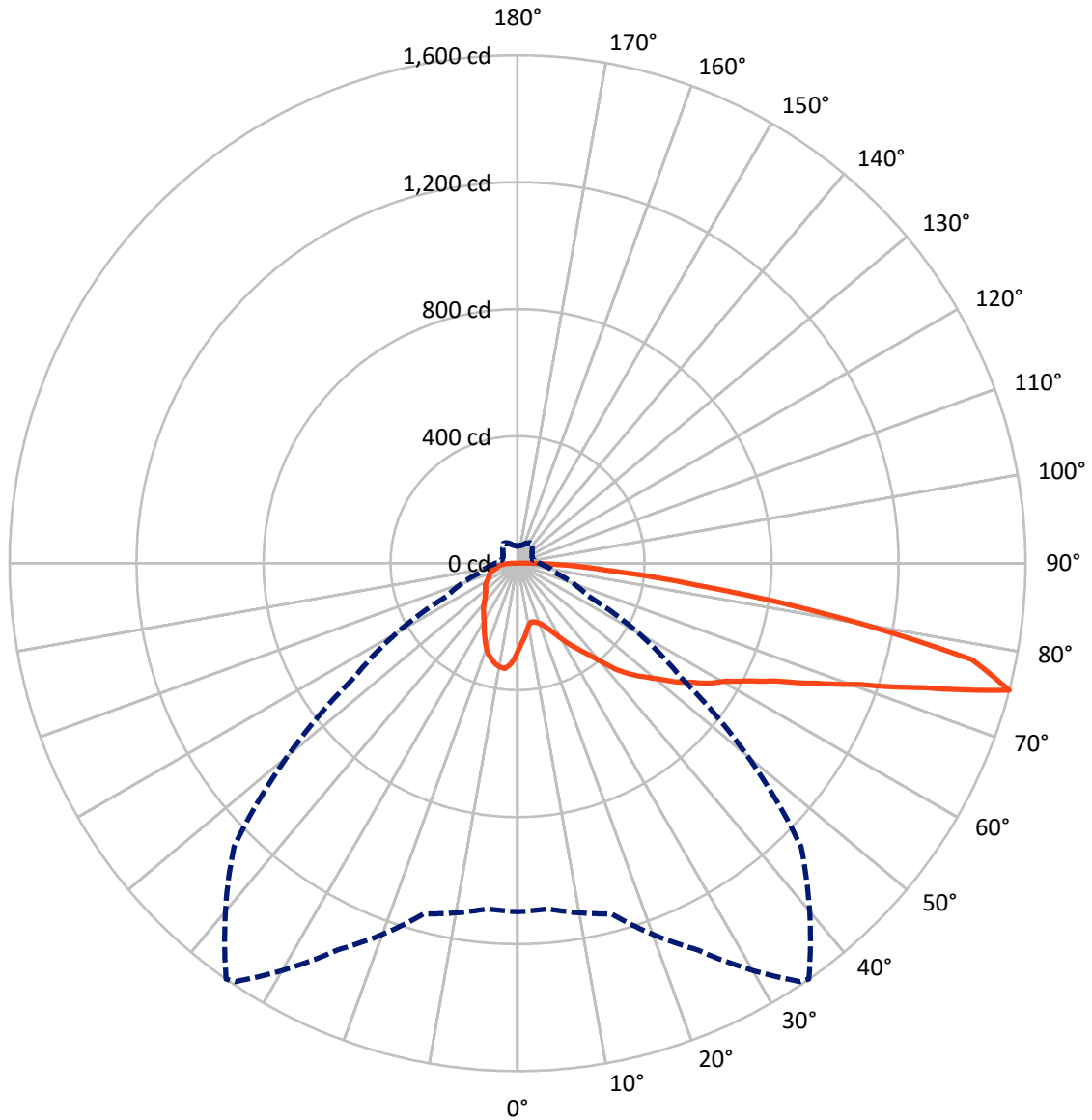
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	461.9	0.0	461.9
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	1547.9	0.0	1547.9
	% Fixture	77.0	0.0	77.0
Total	Lumens	2009.8	0.0	2009.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.2	1.3
10°-20°	76.2	3.8
20°-30°	126.4	6.3
30°-40°	187.3	9.3
40°-50°	270.1	13.4
50°-60°	371.4	18.5
60°-70°	458.8	22.8
70°-80°	419.7	20.9
80°-90°	73.9	3.7
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°	2009.8	100.0
0°-180°	2009.8	100.0



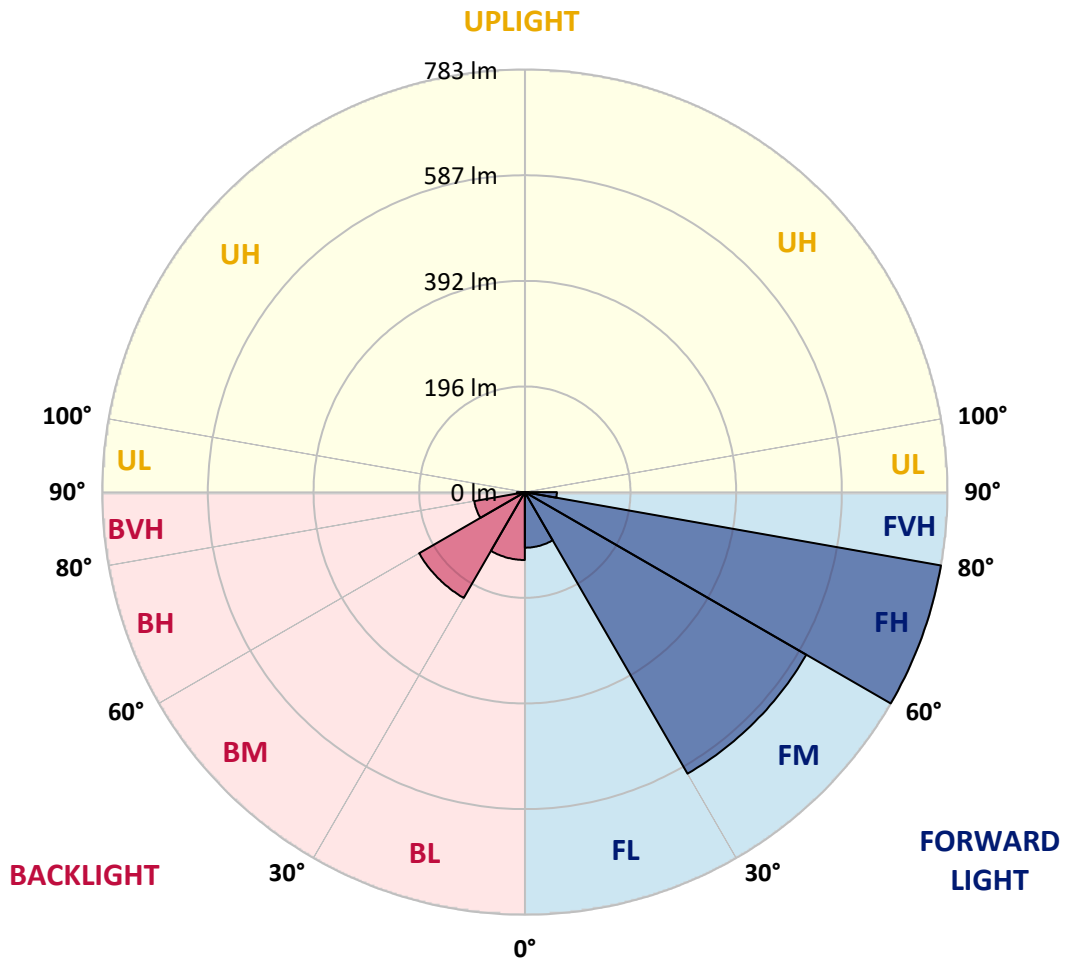
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	103.0	5.1			
FM (30°-60°)	602.4	30.0			
FH (60°-80°)	783.2	39.0			G1/1800
FVH (80°-90°)	59.3	3.0			G1/100
BL (0°-30°)	125.7	6.3	B1/500		
BM (30°-60°)	226.4	11.3	B1/1000		
BH (60°-80°)	95.2	4.7	B0/110		G0/110
BVH (80°-90°)	14.6	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4
2.5°	249.5	247.2	249.5	250.9	250.9	250.9	253.2	259.8	264.3	267.2	272.4
5°	223.5	224.3	225.8	229.5	231.7	233.2	236.9	245.0	251.7	261.3	272.4
7.5°	200.6	202.1	204.3	208.0	213.2	212.4	220.6	231.7	244.3	256.9	273.1
10°	188.8	191.7	192.5	193.2	198.4	198.4	209.5	222.1	237.6	253.9	273.1
12.5°	191.0	191.0	188.8	188.0	191.0	190.2	199.9	214.7	231.7	254.6	276.1
15°	197.6	197.6	193.2	188.8	193.2	191.7	199.9	211.7	231.7	255.4	282.0
17.5°	206.5	207.3	202.1	194.7	196.2	196.9	202.8	213.9	231.7	256.9	290.2
20°	224.3	220.6	212.4	200.6	205.8	203.6	212.4	222.1	236.1	262.8	302.0
22.5°	239.8	239.8	224.3	213.9	214.7	214.7	222.8	230.9	242.8	270.9	310.9
25°	265.0	263.5	244.3	228.7	230.2	230.9	235.4	245.0	253.9	275.4	322.0
27.5°	296.8	293.1	273.9	256.1	250.2	252.4	254.6	262.0	264.3	282.8	335.3
30°	330.9	325.7	309.4	281.3	278.3	279.1	275.4	279.8	276.8	294.6	348.6
32.5°	352.3	352.3	336.8	316.1	307.9	307.9	295.3	298.3	298.3	305.7	372.3
35°	370.9	369.4	359.0	343.5	338.3	335.3	322.7	327.2	319.8	327.2	405.6
37.5°	399.0	394.5	390.1	379.7	369.4	367.1	360.5	363.4	353.1	349.4	443.4
40°	431.5	429.3	424.9	420.4	410.1	409.3	401.9	404.9	393.8	379.7	481.1
42.5°	479.7	473.0	458.9	455.2	457.5	460.4	457.5	452.3	432.3	414.5	521.9
45°	527.8	517.4	490.8	484.8	501.9	499.6	512.2	510.0	477.4	449.3	564.8
47.5°	558.9	550.0	528.5	524.8	532.2	535.2	572.9	566.3	514.5	481.1	606.2
50°	581.1	581.8	553.7	563.3	572.9	572.9	620.3	619.6	559.6	520.4	660.3
52.5°	613.6	603.3	591.4	600.3	613.6	621.0	679.5	663.2	587.7	553.7	721.0
55°	630.7	626.2	615.9	631.4	659.5	663.2	725.4	712.8	619.6	592.9	783.2
57.5°	637.3	641.0	658.1	664.7	703.9	713.6	766.9	749.1	649.2	641.8	831.3
60°	666.9	661.8	684.7	711.4	749.1	754.3	818.7	780.2	678.0	673.6	846.8
62.5°	726.9	713.6	726.2	758.0	810.5	817.2	873.5	821.6	690.6	695.1	846.1
65°	814.2	804.6	786.1	811.3	885.3	894.9	937.9	857.2	686.9	687.7	786.1
67.5°	917.1	901.6	882.3	897.9	988.2	1010.4	1016.3	872.7	661.0	646.2	639.6
70°	1007.4	997.1	984.5	1011.1	1137.0	1145.1	1114.0	863.1	589.2	518.9	426.4
72.5°	1091.8	1086.6	1094.0	1194.0	1338.3	1343.5	1205.8	802.4	465.6	314.6	198.4
75°	1098.5	1093.3	1144.4	1345.0	1590.7	1600.4	1262.8	629.2	245.8	128.1	83.6
77.5°	743.9	759.5	855.0	1177.7	1461.2	1463.4	1032.6	292.4	101.4	75.5	58.5
80°	182.8	202.8	322.0	609.2	985.2	1009.7	565.5	98.4	66.6	57.7	43.7
82.5°	66.6	72.5	131.0	275.4	553.7	563.3	197.6	53.3	48.1	44.4	31.8
85°	31.8	32.6	62.2	135.5	279.8	276.8	71.1	31.8	34.8	30.3	19.2
87.5°	13.3	13.3	27.4	62.9	123.6	119.9	22.9	14.8	20.0	17.8	9.6
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°	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4
2.5°	276.1	277.6	283.5	287.9	292.4	296.1	302.0	302.0	305.7	305.7	305.7
5°	275.4	283.5	293.1	303.5	310.2	316.8	322.7	323.5	325.7	328.7	329.4
7.5°	278.3	286.5	302.0	316.8	325.0	327.9	335.3	333.1	333.1	333.1	335.3
10°	284.2	293.1	314.6	327.9	333.8	334.6	332.4	330.9	326.4	325.0	322.7
12.5°	288.7	304.2	325.7	336.1	333.8	331.6	326.4	319.0	313.9	312.4	312.4
15°	299.8	315.3	335.3	339.0	335.3	323.5	316.8	308.7	304.2	297.6	300.5
17.5°	309.4	327.2	344.9	340.5	333.1	314.6	305.0	293.1	287.2	279.8	279.8
20°	322.0	338.3	353.8	342.0	325.7	305.7	290.2	275.4	267.2	259.8	261.3
22.5°	336.1	350.9	359.0	336.1	314.6	291.6	270.2	256.1	245.8	241.3	242.8
25°	347.2	363.4	362.0	326.4	301.3	273.9	250.2	236.9	234.6	230.2	230.2
27.5°	361.2	378.3	359.7	314.6	279.1	245.8	230.9	225.8	225.8	223.5	225.0
30°	379.7	391.6	354.6	297.6	250.9	220.6	213.2	216.1	221.3	219.1	219.8
32.5°	410.1	408.6	350.1	278.3	221.3	196.2	201.3	207.3	211.7	213.9	215.4
35°	439.7	430.1	344.9	252.4	193.9	184.3	188.8	195.4	203.6	205.8	206.5
37.5°	469.3	452.3	336.1	220.6	176.9	174.0	178.4	182.1	188.8	190.2	191.7
40°	500.4	467.1	320.5	189.5	162.8	162.8	165.8	166.5	170.3	172.5	174.0
42.5°	527.8	481.1	292.4	160.6	148.0	153.2	154.0	152.5	149.5	151.0	151.7
45°	561.1	496.7	259.8	139.9	136.9	143.6	145.1	139.2	134.0	131.0	129.5
47.5°	593.7	513.0	231.7	122.9	126.6	136.9	136.9	130.3	121.4	114.0	111.0
50°	623.3	529.3	208.7	112.5	116.2	131.8	133.2	120.7	111.0	102.2	100.7
52.5°	672.9	556.6	185.1	104.4	110.3	128.1	127.3	116.2	103.6	94.0	93.3
55°	716.5	584.0	154.0	96.2	104.4	122.9	125.1	111.8	94.7	85.9	84.4
57.5°	748.4	590.7	122.9	88.1	98.4	117.0	119.9	102.9	88.8	81.4	80.7
60°	754.3	564.8	99.9	81.4	90.3	108.8	111.0	97.7	84.4	78.5	77.0
62.5°	726.9	515.2	85.1	75.5	83.6	100.7	105.1	91.8	79.9	74.8	74.0
65°	664.7	442.7	74.8	70.3	79.2	94.7	99.9	87.3	76.2	71.8	71.1
67.5°	526.3	339.8	66.6	66.6	73.3	88.8	96.2	84.4	72.5	69.6	68.8
70°	344.2	204.3	60.7	61.4	68.8	83.6	91.8	80.7	68.1	67.4	65.9
72.5°	148.0	94.0	54.0	56.3	62.2	74.8	85.1	75.5	62.9	60.7	58.5
75°	68.1	57.0	48.9	50.3	55.5	65.9	77.0	69.6	58.5	54.8	52.6
77.5°	48.1	41.5	40.7	43.7	47.4	57.0	68.1	65.1	54.0	51.1	49.6
80°	35.5	31.8	34.1	37.0	39.2	52.6	64.4	60.0	49.6	45.2	42.9
82.5°	25.2	23.7	26.6	29.6	31.8	45.9	59.2	52.6	41.5	37.8	34.1
85°	14.8	15.5	18.5	20.0	22.2	34.1	49.6	42.2	31.8	24.4	23.7
87.5°	6.7	6.7	8.9	9.6	11.1	20.0	33.3	26.6	20.0	15.5	14.8
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)