

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: P676628

Luminaire Tested: **CCW-SA-1A-840-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676628
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-840-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) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

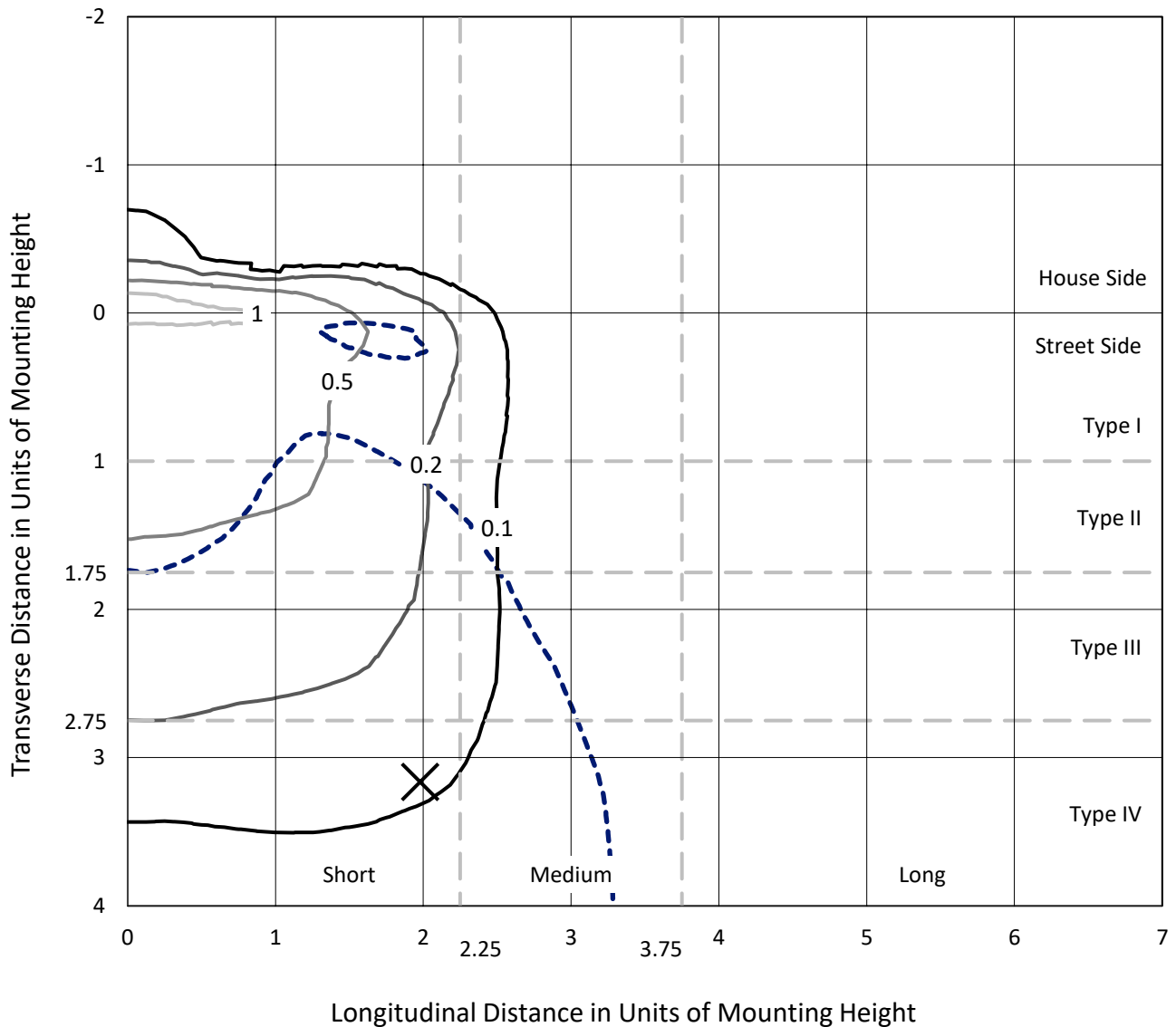
Lumens per Lamp: N/A
Luminaire Lumens: 1674.9 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 18
Input Voltage (V): 120
Input Current (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

REPORT NUMBER: P676628
 CATALOG NUMBER: CCW-SA-1A-840-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

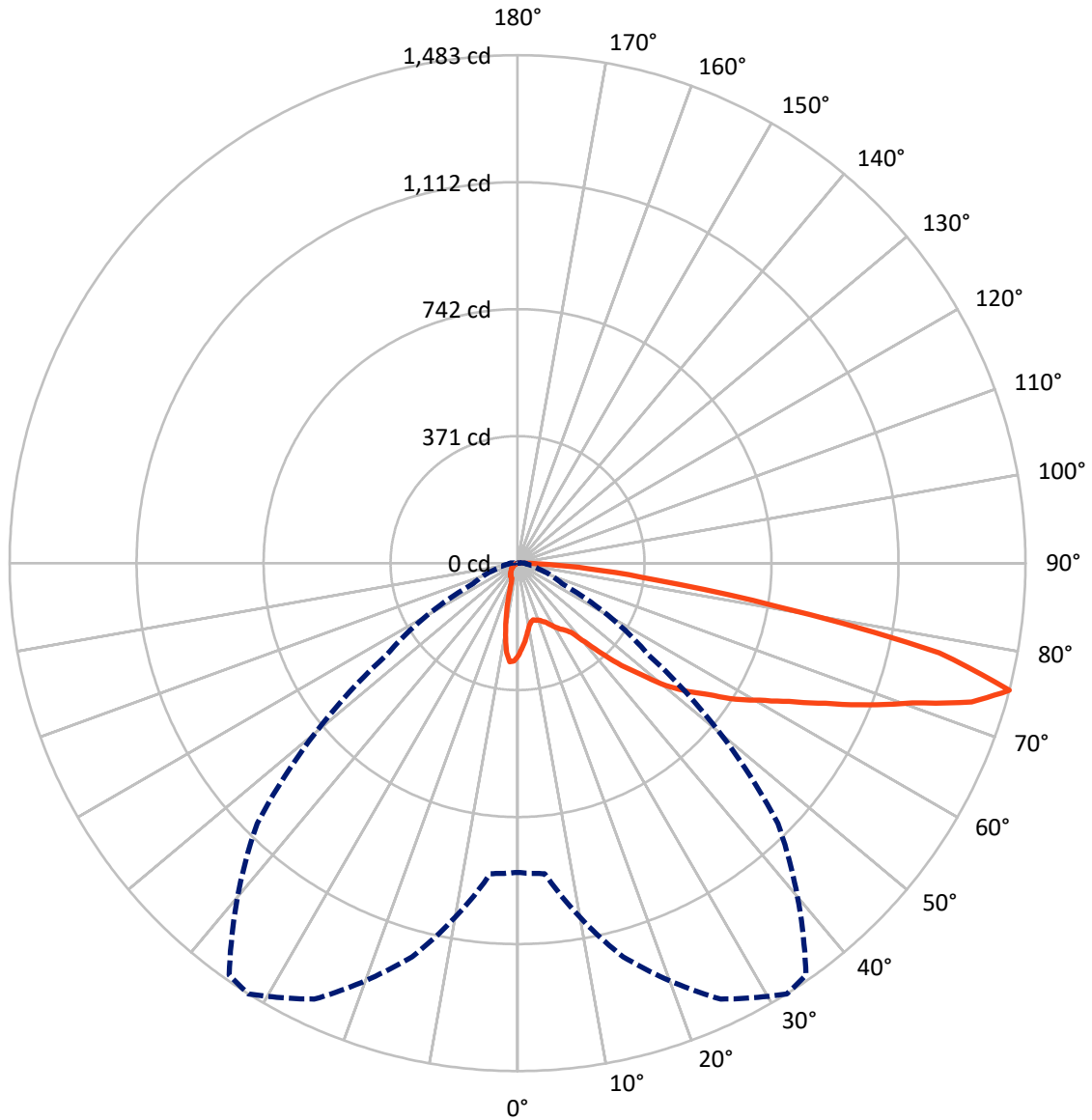
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P676628
CATALOG NUMBER: CCW-SA-1A-840-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P676628
 CATALOG NUMBER: CCW-SA-1A-840-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	180.9	0.0	180.9
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	1493.9	0.0	1493.9
	% Fixture	89.2	0.0	89.2
Total	Lumens	1674.9	0.0	1674.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.8	1.4
10°-20°	54.0	3.2
20°-30°	80.8	4.8
30°-40°	124.0	7.4
40°-50°	216.9	12.9
50°-60°	339.0	20.2
60°-70°	438.3	26.2
70°-80°	356.9	21.3
80°-90°	41.3	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°	1674.9	100.0
0°-180°	1674.9	100.0



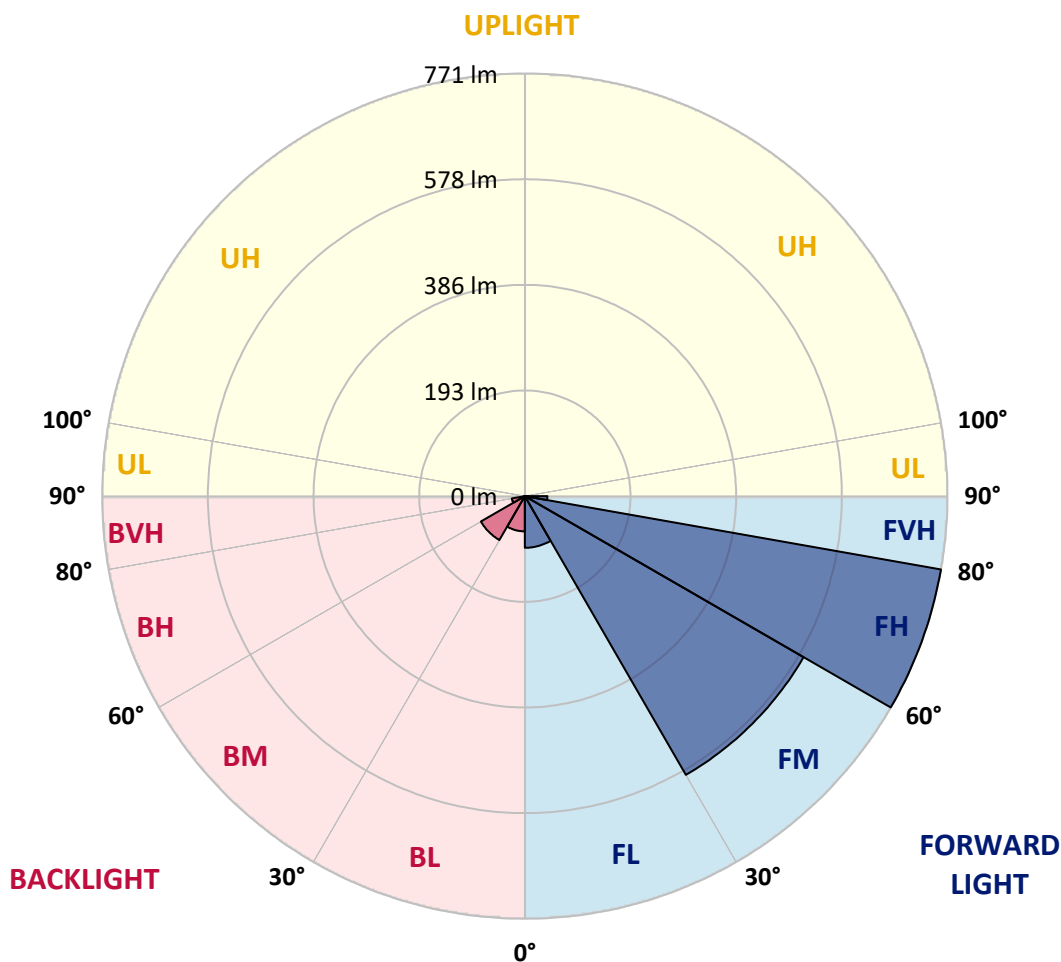
REPORT NUMBER: P676628
 CATALOG NUMBER: CCW-SA-1A-840-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	94.2	5.6			
FM (30°-60°)	587.3	35.1			
FH (60°-80°)	771.1	46.0			G1/1800
FVH (80°-90°)	41.3	2.5			G1/100
BL (0°-30°)	64.3	3.8	B0/110		
BM (30°-60°)	92.6	5.5	B0/220		
BH (60°-80°)	24.1	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





REPORT NUMBER: P676628

CATALOG NUMBER: CCW-SA-1A-840-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	270.4	270.4	270.4	270.4	270.4	270.4	270.4	270.4	270.4	270.4	270.4
2.5°	242.5	246.0	245.5	247.7	248.1	249.4	252.4	252.4	261.0	267.0	270.9
5°	220.6	218.5	219.4	221.9	228.4	227.9	235.2	239.1	249.4	258.0	267.0
7.5°	193.6	193.2	194.9	200.9	205.6	209.5	217.2	227.1	240.8	253.7	269.6
10°	176.4	175.6	179.0	180.7	186.3	188.9	200.9	216.4	232.7	251.1	269.6
12.5°	172.6	169.6	171.3	170.9	176.0	177.3	188.9	207.8	227.5	250.3	273.0
15°	174.7	172.6	170.9	170.9	172.1	173.0	185.4	202.2	224.5	251.6	280.7
17.5°	181.6	180.3	175.1	170.0	175.6	175.6	183.3	200.9	224.9	255.4	290.2
20°	189.7	188.5	179.4	173.4	177.3	181.6	189.7	203.9	226.2	258.4	304.8
22.5°	198.8	198.8	186.3	179.4	184.6	185.0	199.6	213.3	231.4	266.1	314.2
25°	209.9	209.1	197.0	189.3	191.0	195.7	209.1	223.7	240.8	276.9	331.8
27.5°	224.5	223.2	209.1	201.3	203.5	208.6	223.7	238.2	249.4	281.2	346.9
30°	236.5	235.2	223.7	212.1	216.8	221.5	239.1	252.0	260.1	289.3	364.0
32.5°	239.1	237.0	229.2	224.1	229.2	238.2	252.0	265.3	277.7	309.9	396.6
35°	268.7	261.0	240.8	232.7	240.4	243.4	266.1	289.8	301.8	326.2	433.1
37.5°	325.4	318.1	291.5	268.7	258.0	261.4	291.0	320.2	331.8	356.7	473.1
40°	394.9	382.9	354.6	324.1	302.2	297.9	317.2	360.2	371.3	394.9	525.4
42.5°	474.3	462.8	419.0	382.9	360.6	355.0	358.0	406.5	416.0	430.1	559.8
45°	531.4	525.4	476.1	443.9	426.3	420.3	413.0	457.2	469.2	473.9	609.6
47.5°	564.5	560.2	532.7	510.8	487.2	480.8	485.5	527.6	519.4	523.3	657.2
50°	608.7	597.5	560.2	567.1	562.3	560.6	568.8	587.2	575.2	564.1	709.2
52.5°	644.3	624.6	598.4	615.1	622.4	628.9	657.6	671.4	617.7	600.6	742.6
55°	666.2	647.3	654.2	669.7	677.4	707.0	740.9	730.6	645.6	629.7	787.3
57.5°	686.0	687.3	705.7	710.4	749.9	755.1	820.3	786.9	665.4	656.4	804.9
60°	733.6	728.9	743.9	774.4	812.2	840.9	903.2	824.6	675.2	670.1	800.2
62.5°	819.5	790.3	795.4	834.1	889.5	920.8	950.8	841.8	672.7	672.2	786.0
65°	928.5	895.0	879.6	915.6	987.3	1031.5	1004.5	861.1	655.5	667.5	733.2
67.5°	1019.1	1019.5	990.8	1010.9	1104.5	1114.0	1055.2	857.3	626.7	630.2	604.4
70°	1123.4	1137.6	1112.2	1175.4	1222.1	1228.2	1113.1	825.5	564.9	475.2	347.3
72.5°	1150.0	1157.3	1236.3	1333.3	1386.1	1387.8	1170.2	719.5	371.8	209.9	107.7
75°	903.2	910.1	1189.9	1404.6	1483.1	1468.1	1074.9	467.0	144.7	61.4	25.8
77.5°	504.0	506.1	738.8	1135.4	1258.2	1197.7	752.9	182.0	58.4	35.2	12.0
80°	137.8	161.8	273.9	559.8	768.4	754.2	358.4	59.2	37.8	27.5	5.6
82.5°	33.1	35.6	88.0	247.7	406.1	423.7	106.9	30.0	26.2	22.8	3.0
85°	12.0	13.3	27.0	120.6	208.6	191.5	32.2	15.0	19.3	17.6	1.3
87.5°	4.3	4.3	8.6	39.5	61.0	45.9	10.7	5.2	9.9	10.7	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



REPORT NUMBER: P676628

CATALOG NUMBER: CCW-SA-1A-840-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	270.4	270.4	270.4	270.4	270.4	270.4	270.4	270.4	270.4	270.4	270.4
2.5°	271.3	271.3	277.3	282.5	284.2	286.3	284.2	288.9	288.5	286.3	287.2
5°	271.7	279.5	284.6	288.0	289.8	289.3	290.2	285.0	282.0	279.9	277.7
7.5°	273.9	281.2	290.6	289.8	285.0	275.2	267.4	253.7	240.4	240.0	237.8
10°	281.2	287.6	293.2	289.8	272.6	242.5	218.1	199.6	182.9	175.1	176.0
12.5°	286.3	298.3	295.8	278.2	242.5	203.0	167.0	139.9	124.9	110.8	110.8
15°	297.1	301.3	300.5	261.4	205.6	158.4	114.6	87.1	71.3	64.8	64.0
17.5°	307.4	312.1	297.5	236.1	169.1	106.5	69.5	54.1	51.9	51.1	51.5
20°	320.2	320.7	294.9	210.8	127.1	67.4	49.8	48.5	48.9	48.5	48.5
22.5°	334.0	337.0	285.9	175.1	84.6	48.9	46.4	46.8	46.8	46.8	48.1
25°	352.0	347.3	271.7	141.2	55.4	45.1	45.1	45.5	45.5	45.5	45.9
27.5°	364.0	357.6	253.7	101.7	43.4	42.5	43.4	43.4	44.2	44.2	44.2
30°	388.9	372.2	230.9	65.7	39.1	40.4	41.2	42.1	42.5	43.4	43.8
32.5°	408.2	385.1	202.6	43.8	35.6	36.5	38.6	40.4	42.1	41.6	41.6
35°	443.4	406.1	176.4	34.8	32.6	32.6	34.8	37.8	40.4	41.2	41.2
37.5°	483.8	423.3	139.9	31.8	30.0	30.0	31.3	34.8	38.2	39.9	39.1
40°	517.3	443.0	103.5	29.6	27.9	27.9	28.8	31.3	35.2	38.2	38.6
42.5°	540.9	457.6	70.0	27.5	26.2	25.8	27.0	28.3	31.3	35.6	36.5
45°	562.3	465.3	43.4	25.3	24.5	24.5	24.5	25.8	27.9	31.8	32.6
47.5°	600.6	473.9	31.3	23.6	22.3	22.8	23.2	23.6	25.3	26.2	26.6
50°	632.7	480.4	25.8	21.9	21.0	21.5	21.5	21.5	22.3	21.0	21.0
52.5°	657.2	473.9	21.9	20.2	19.3	19.7	19.3	19.3	18.5	16.7	16.7
55°	675.2	462.3	17.6	18.5	18.5	18.5	17.6	16.3	14.6	13.3	13.3
57.5°	680.0	442.6	13.7	15.5	16.7	16.7	15.0	13.3	11.2	9.9	9.4
60°	672.7	399.7	10.3	11.2	12.9	13.3	12.0	9.9	7.7	6.4	6.4
62.5°	646.5	365.7	8.2	7.3	9.4	9.9	8.6	6.4	4.3	3.0	2.6
65°	596.7	313.4	6.0	5.2	6.4	6.9	5.6	3.0	1.3	0.4	0.0
67.5°	478.6	236.1	3.9	3.4	4.3	4.3	2.6	0.9	0.0	0.0	0.0
70°	264.9	132.6	2.6	1.7	2.1	1.3	0.4	0.0	0.0	0.0	0.0
72.5°	76.4	37.8	1.3	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	20.6	9.0	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.0	3.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.1	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)