

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: P676618

Luminaire Tested: **CCW-SA-1B-835-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676618
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-835-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) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

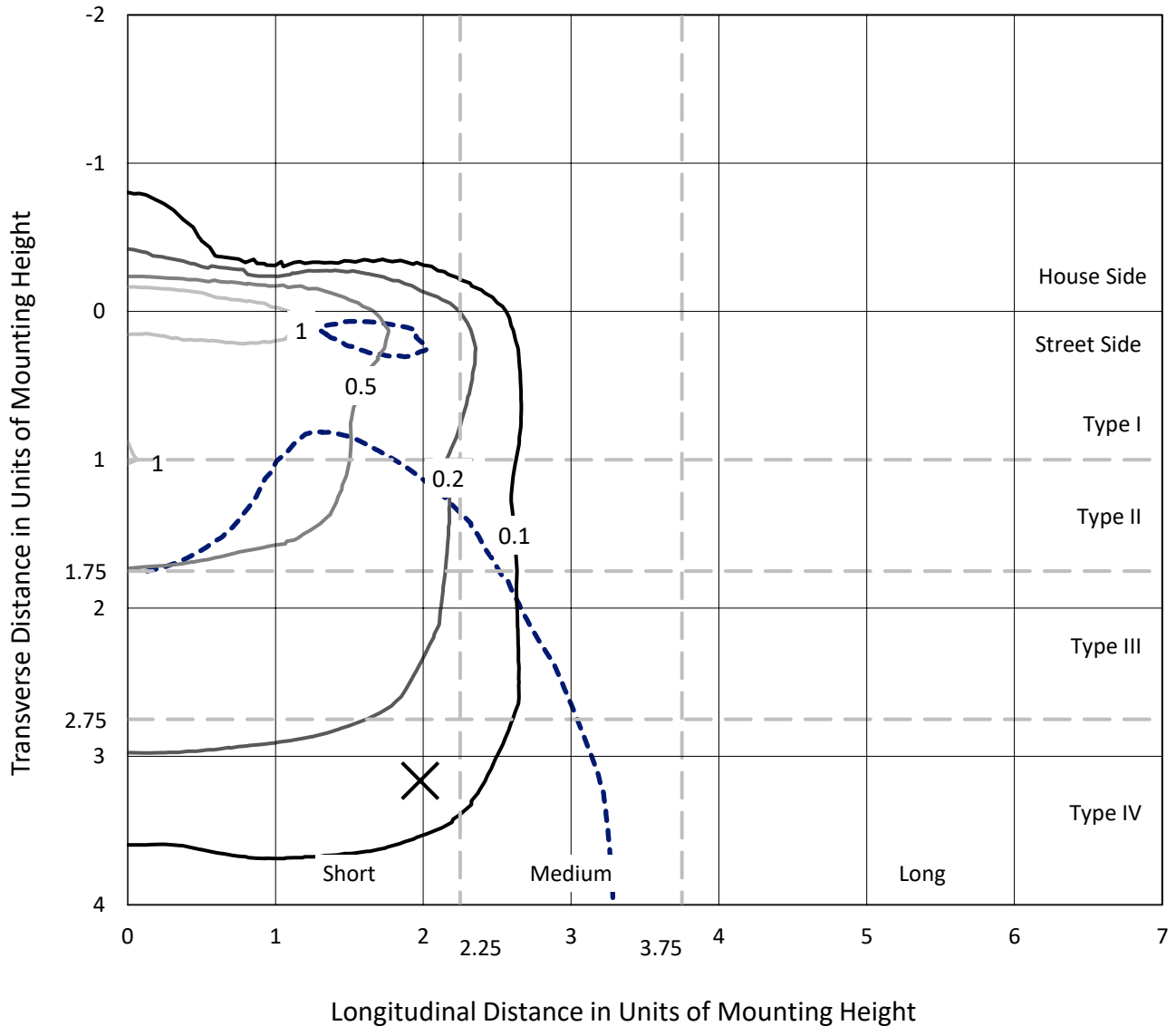
Lumens per Lamp: N/A
Luminaire Lumens: 2043.4 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

REPORT NUMBER: P676618
 CATALOG NUMBER: CCW-SA-1B-835-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

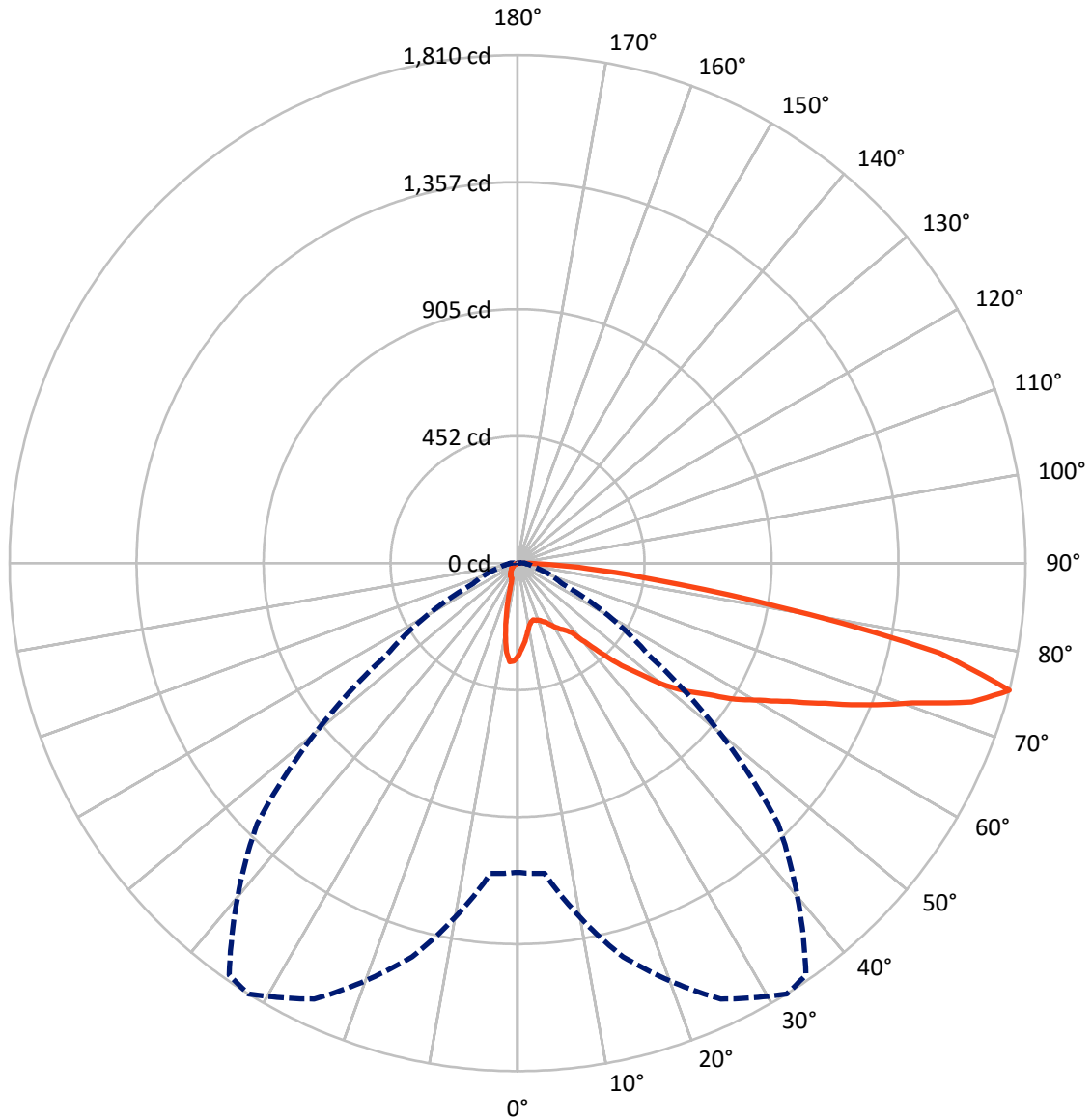
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P676618
CATALOG NUMBER: CCW-SA-1B-835-U-T4FT-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P676618
 CATALOG NUMBER: CCW-SA-1B-835-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	220.7	0.0	220.7
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	1822.6	0.0	1822.6
	% Fixture	89.2	0.0	89.2
Total	Lumens	2043.4	0.0	2043.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.0	1.4
10°-20°	65.8	3.2
20°-30°	98.6	4.8
30°-40°	151.3	7.4
40°-50°	264.6	12.9
50°-60°	413.6	20.2
60°-70°	534.7	26.2
70°-80°	435.5	21.3
80°-90°	50.4	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°	2043.4	100.0
0°-180°	2043.4	100.0



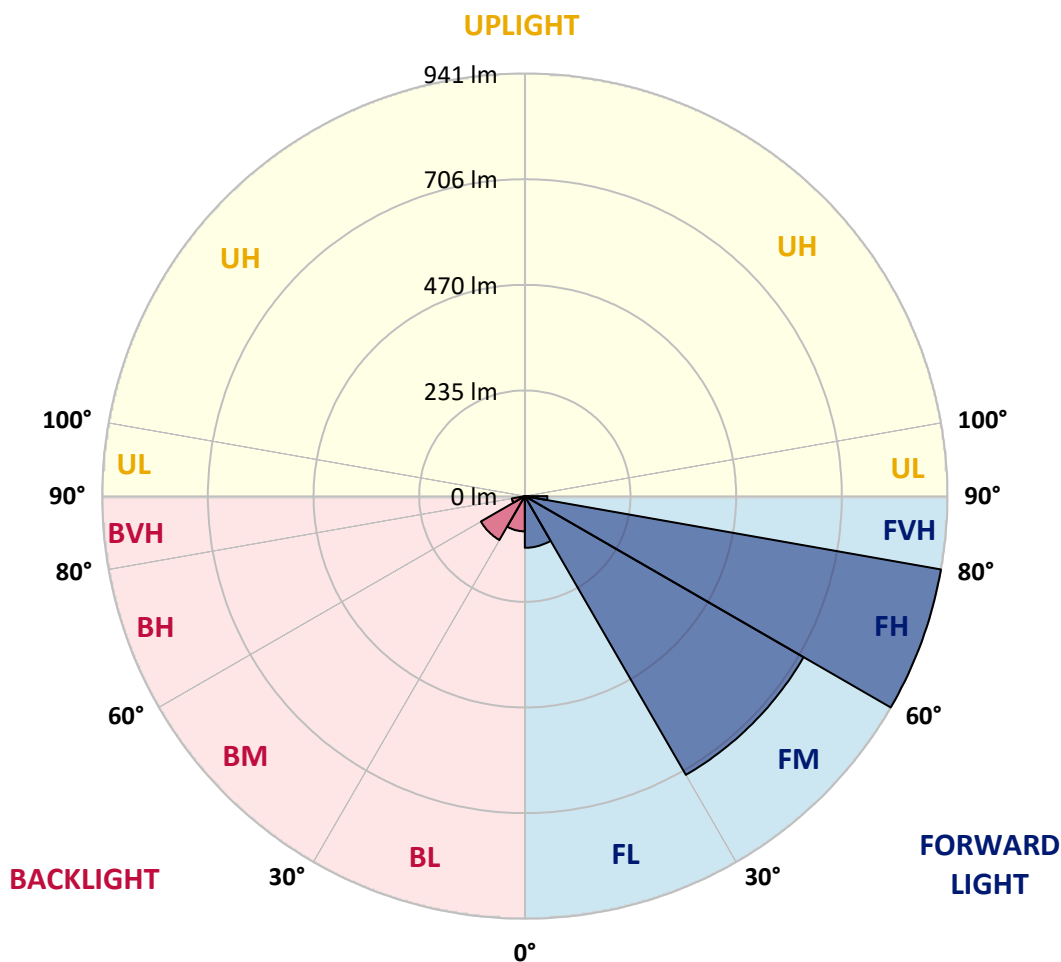
REPORT NUMBER: P676618
 CATALOG NUMBER: CCW-SA-1B-835-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	115.0	5.6			
FM (30°-60°)	716.5	35.1			
FH (60°-80°)	940.8	46.0			G1/1800
FVH (80°-90°)	50.4	2.5			G1/100
BL (0°-30°)	78.4	3.8	B0/110		
BM (30°-60°)	112.9	5.5	B0/220		
BH (60°-80°)	29.4	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: P676618

CATALOG NUMBER: CCW-SA-1B-835-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	329.9	329.9	329.9	329.9	329.9	329.9	329.9	329.9	329.9	329.9	329.9
2.5°	295.9	300.1	299.6	302.2	302.7	304.3	307.9	307.9	318.4	325.8	330.5
5°	269.2	266.6	267.6	270.8	278.6	278.1	287.0	291.7	304.3	314.8	325.8
7.5°	236.2	235.7	237.8	245.1	250.9	255.6	265.0	277.0	293.8	309.5	328.9
10°	215.3	214.2	218.4	220.5	227.3	230.4	245.1	264.0	283.9	306.4	328.9
12.5°	210.5	206.9	209.0	208.4	214.7	216.3	230.4	253.5	277.6	305.3	333.1
15°	213.2	210.5	208.4	208.4	210.0	211.1	226.2	246.7	273.9	306.9	342.5
17.5°	221.5	220.0	213.7	207.4	214.2	214.2	223.6	245.1	274.4	311.6	354.0
20°	231.5	229.9	218.9	211.6	216.3	221.5	231.5	248.8	276.0	315.3	371.8
22.5°	242.5	242.5	227.3	218.9	225.2	225.7	243.5	260.3	282.3	324.7	383.4
25°	256.1	255.1	240.4	231.0	233.1	238.8	255.1	272.9	293.8	337.8	404.8
27.5°	273.9	272.3	255.1	245.6	248.2	254.5	272.9	290.7	304.3	343.0	423.2
30°	288.6	287.0	272.9	258.7	264.5	270.2	291.7	307.4	317.4	353.0	444.1
32.5°	291.7	289.1	279.7	273.4	279.7	290.7	307.4	323.7	338.8	378.1	483.9
35°	327.9	318.4	293.8	283.9	293.3	297.0	324.7	353.5	368.2	398.0	528.4
37.5°	397.0	388.1	355.6	327.9	314.8	318.9	355.1	390.7	404.8	435.2	577.1
40°	481.8	467.2	432.6	395.4	368.7	363.5	387.0	439.4	453.0	481.8	641.0
42.5°	578.7	564.6	511.2	467.2	439.9	433.1	436.8	496.0	507.5	524.8	682.9
45°	648.4	641.0	580.8	541.5	520.1	512.7	503.8	557.8	572.4	578.2	743.7
47.5°	688.7	683.5	649.9	623.2	594.4	586.6	592.3	643.7	633.7	638.4	801.8
50°	742.6	729.0	683.5	691.8	686.1	684.0	693.9	716.5	701.8	688.2	865.2
52.5°	786.1	762.0	730.1	750.5	759.4	767.3	802.3	819.1	753.6	732.7	906.0
55°	812.8	789.8	798.2	817.0	826.4	862.6	903.9	891.4	787.7	768.3	960.5
57.5°	836.9	838.5	861.0	866.8	914.9	921.2	1000.8	960.0	811.8	800.8	982.0
60°	895.0	889.3	907.6	944.8	990.9	1026.0	1101.9	1006.1	823.8	817.5	976.2
62.5°	999.8	964.2	970.5	1017.6	1085.2	1123.4	1160.0	1027.0	820.7	820.1	958.9
65°	1132.8	1092.0	1073.1	1117.1	1204.6	1258.5	1225.5	1050.6	799.7	814.4	894.5
67.5°	1243.3	1243.8	1208.8	1233.4	1347.5	1359.1	1287.3	1045.9	764.6	768.8	737.4
70°	1370.6	1387.9	1357.0	1434.0	1491.0	1498.4	1358.0	1007.1	689.2	579.8	423.7
72.5°	1403.1	1412.0	1508.3	1626.7	1691.1	1693.2	1427.7	877.8	453.5	256.1	131.5
75°	1101.9	1110.3	1451.8	1713.6	1809.5	1791.1	1311.4	569.8	176.5	74.9	31.4
77.5°	614.9	617.5	901.3	1385.2	1535.0	1461.2	918.6	222.1	71.2	42.9	14.7
80°	168.1	197.4	334.1	682.9	937.5	920.2	437.3	72.3	46.1	33.5	6.8
82.5°	40.3	43.5	107.4	302.2	495.4	516.9	130.4	36.7	31.9	27.8	3.7
85°	14.7	16.2	33.0	147.2	254.5	233.6	39.3	18.3	23.6	21.5	1.6
87.5°	5.2	5.2	10.5	48.2	74.4	56.0	13.1	6.3	12.0	13.1	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



REPORT NUMBER: P676618

CATALOG NUMBER: CCW-SA-1B-835-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	329.9	329.9	329.9	329.9	329.9	329.9	329.9	329.9	329.9	329.9	329.9
2.5°	331.0	331.0	338.3	344.6	346.7	349.3	346.7	352.5	351.9	349.3	350.4
5°	331.5	340.9	347.2	351.4	353.5	353.0	354.0	347.8	344.1	341.5	338.8
7.5°	334.1	343.0	354.6	353.5	347.8	335.7	326.3	309.5	293.3	292.8	290.1
10°	343.0	350.9	357.7	353.5	332.6	295.9	266.1	243.5	223.1	213.7	214.7
12.5°	349.3	364.0	360.8	339.4	295.9	247.7	203.7	170.7	152.4	135.1	135.1
15°	362.4	367.7	366.6	318.9	250.9	193.3	139.8	106.3	86.9	79.1	78.0
17.5°	375.0	380.7	362.9	288.0	206.3	129.9	84.8	66.0	63.4	62.3	62.8
20°	390.7	391.2	359.8	257.1	155.0	82.2	60.8	59.2	59.7	59.2	59.2
22.5°	407.5	411.1	348.8	213.7	103.2	59.7	56.6	57.1	57.1	57.1	58.7
25°	429.5	423.7	331.5	172.3	67.6	55.0	55.0	55.5	55.5	55.5	56.0
27.5°	444.1	436.3	309.5	124.1	52.9	51.8	52.9	52.9	53.9	53.9	53.9
30°	474.5	454.1	281.8	80.1	47.7	49.2	50.3	51.3	51.8	52.9	53.4
32.5°	498.1	469.8	247.2	53.4	43.5	44.5	47.1	49.2	51.3	50.8	50.8
35°	541.0	495.4	215.3	42.4	39.8	39.8	42.4	46.1	49.2	50.3	50.3
37.5°	590.2	516.4	170.7	38.8	36.7	36.7	38.2	42.4	46.6	48.7	47.7
40°	631.1	540.5	126.2	36.1	34.0	34.0	35.1	38.2	42.9	46.6	47.1
42.5°	659.9	558.3	85.4	33.5	31.9	31.4	33.0	34.6	38.2	43.5	44.5
45°	686.1	567.7	52.9	30.9	29.9	29.9	29.9	31.4	34.0	38.8	39.8
47.5°	732.7	578.2	38.2	28.8	27.2	27.8	28.3	28.8	30.9	31.9	32.5
50°	772.0	586.0	31.4	26.7	25.7	26.2	26.2	26.2	27.2	25.7	25.7
52.5°	801.8	578.2	26.7	24.6	23.6	24.1	23.6	23.6	22.5	20.4	20.4
55°	823.8	564.0	21.5	22.5	22.5	22.5	21.5	19.9	17.8	16.2	16.2
57.5°	829.6	540.0	16.8	18.9	20.4	20.4	18.3	16.2	13.6	12.0	11.5
60°	820.7	487.6	12.6	13.6	15.7	16.2	14.7	12.0	9.4	7.9	7.9
62.5°	788.7	446.2	10.0	8.9	11.5	12.0	10.5	7.9	5.2	3.7	3.1
65°	728.0	382.3	7.3	6.3	7.9	8.4	6.8	3.7	1.6	0.5	0.0
67.5°	584.0	288.0	4.7	4.2	5.2	5.2	3.1	1.0	0.0	0.0	0.0
70°	323.1	161.8	3.1	2.1	2.6	1.6	0.5	0.0	0.0	0.0	0.0
72.5°	93.2	46.1	1.6	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	25.1	11.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.0	4.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.6	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)