

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: P676706

Luminaire Tested: **CCW-SA-1A-740-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676706
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-740-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
T4W distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1973.8 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

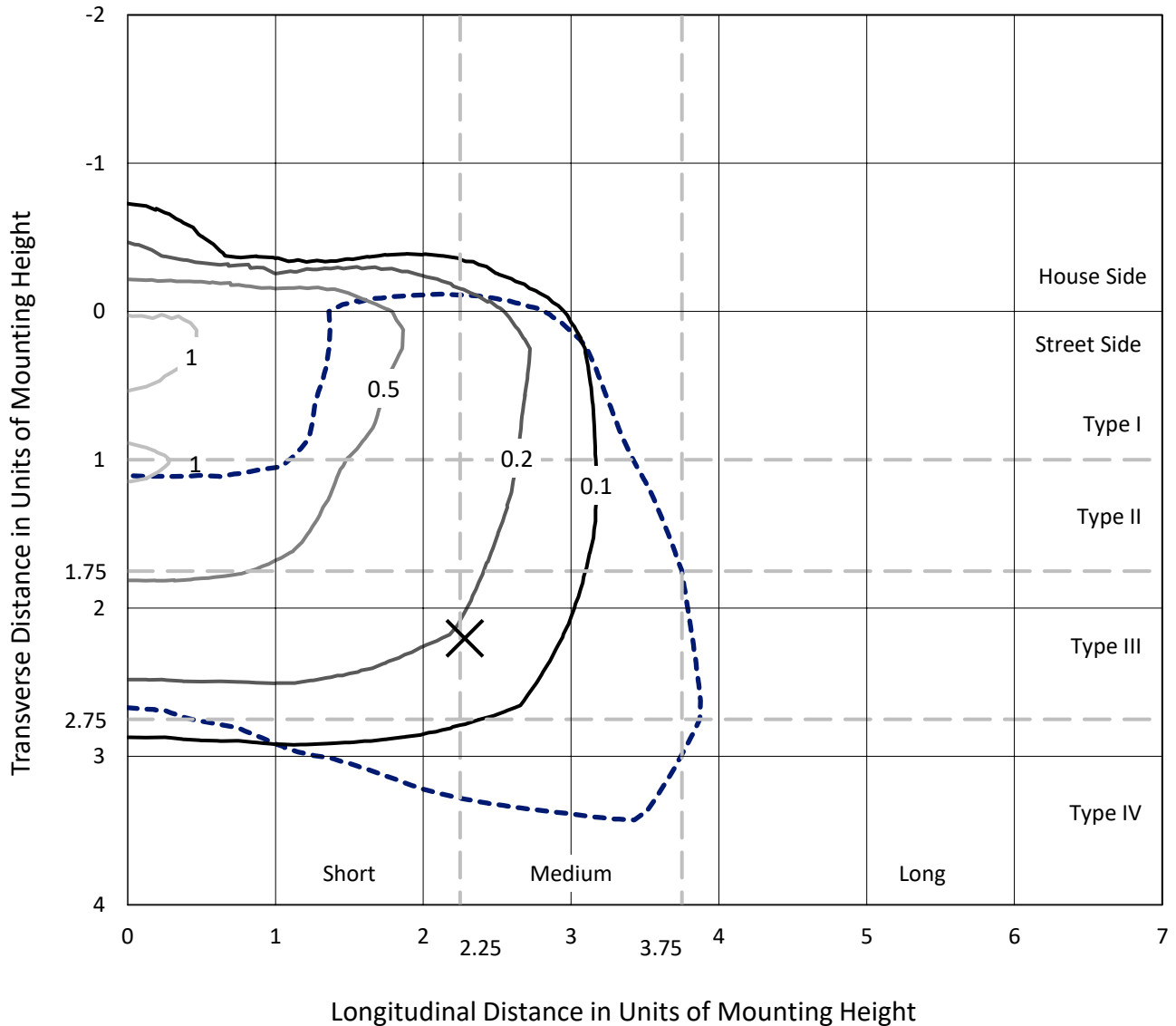
Input Watts (W): 18
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

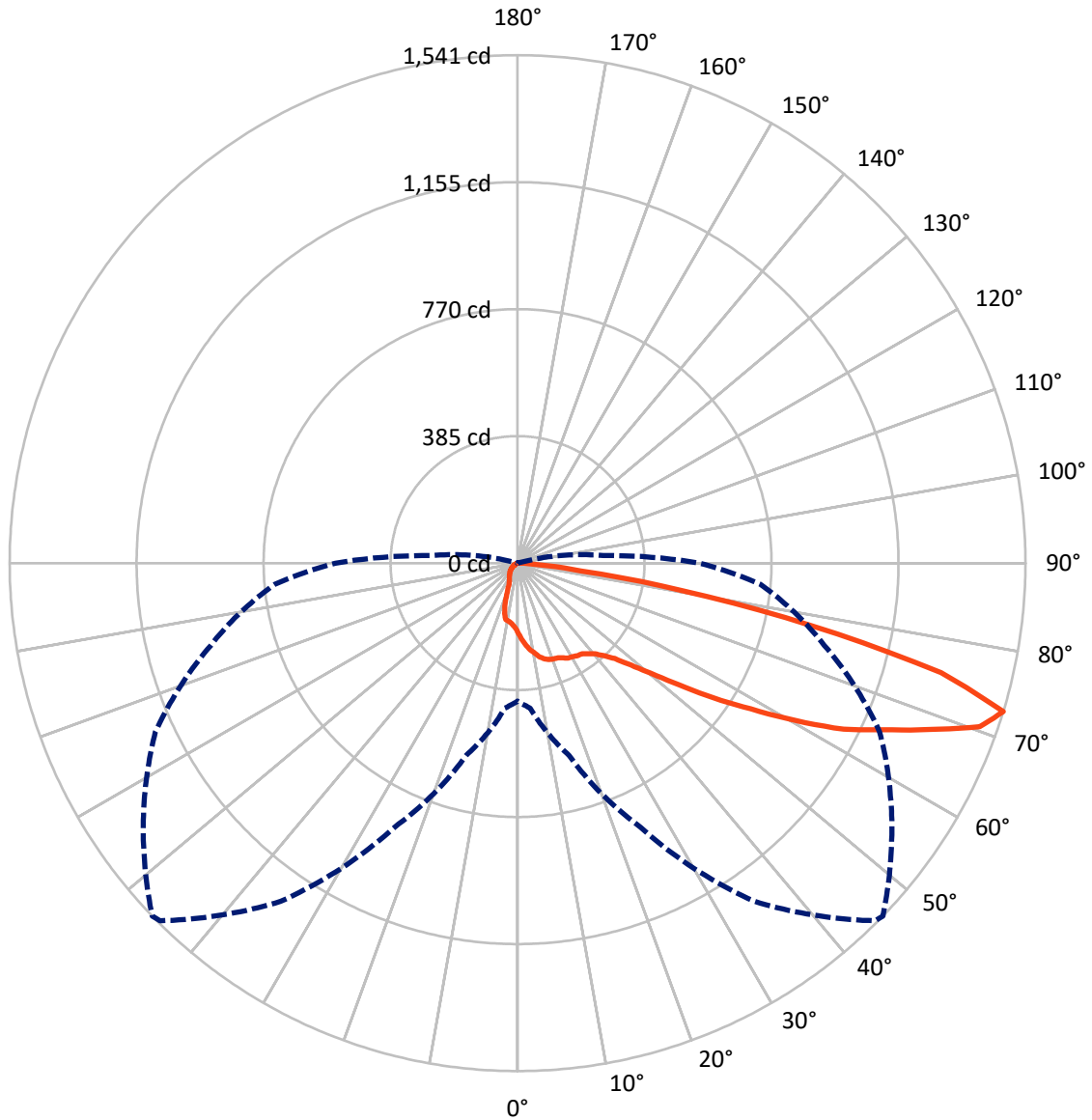
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	212.5	0.0	212.5
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	1761.3	0.0	1761.3
	% Fixture	89.2	0.0	89.2
Total	Lumens	1973.8	0.0	1973.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.1	1.1
10°-20°	63.7	3.2
20°-30°	99.8	5.1
30°-40°	139.8	7.1
40°-50°	230.5	11.7
50°-60°	414.2	21.0
60°-70°	600.4	30.4
70°-80°	374.7	19.0
80°-90°	29.7	1.5
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°	1973.8	100.0
0°-180°	1973.8	100.0



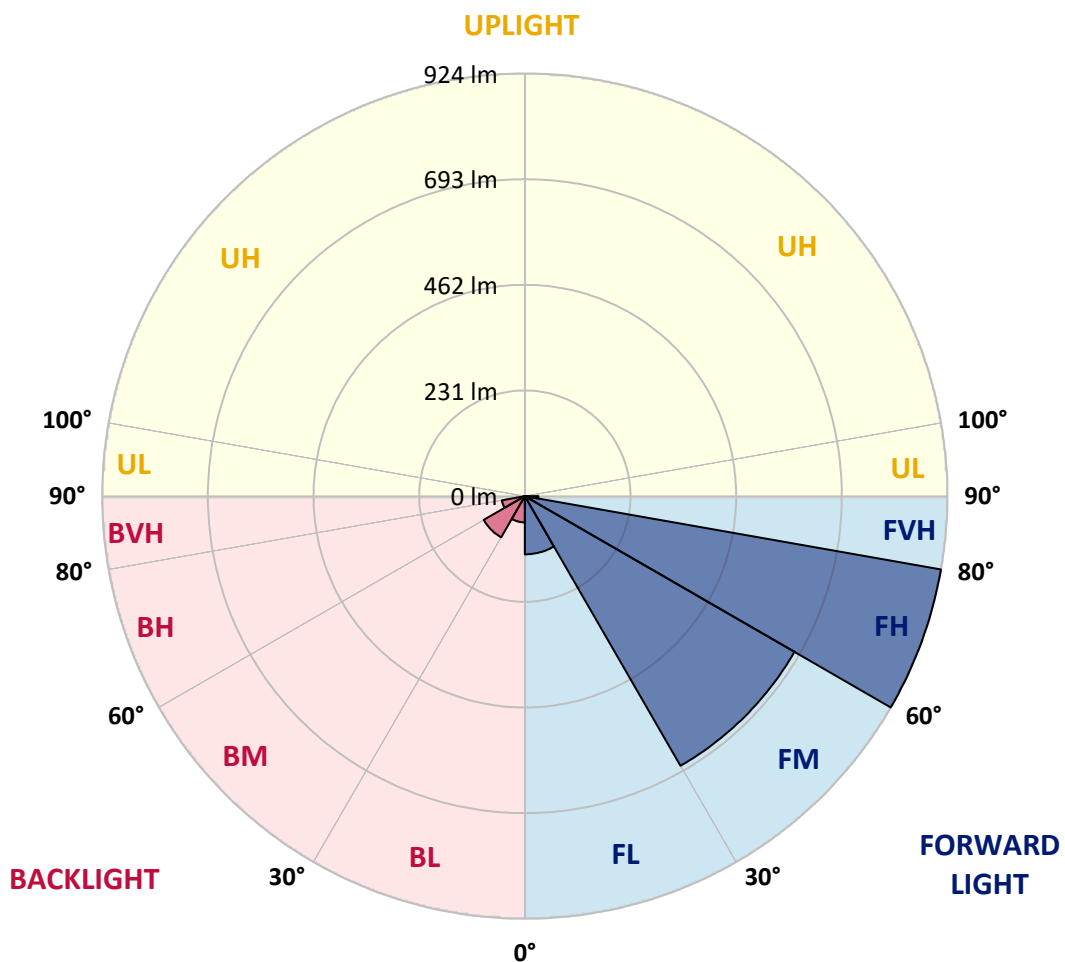
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	127.2	6.4			
FM (30°-60°)	680.6	34.5			
FH (60°-80°)	923.9	46.8			G1/1800
FVH (80°-90°)	29.5	1.5			G1/100
BL (0°-30°)	57.4	2.9	B0/110		
BM (30°-60°)	103.8	5.3	B0/220		
BH (60°-80°)	51.1	2.6	B0/110		G0/110
BVH (80°-90°)	0.2	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	211.0	211.0	211.0	211.0	211.0	211.0	211.0	211.0	211.0	211.0	211.0
2.5°	236.1	235.1	236.6	236.1	230.1	231.1	230.6	226.6	219.5	215.5	213.0
5°	263.3	265.8	263.8	259.3	255.8	248.7	247.7	241.2	230.1	223.0	215.5
7.5°	291.5	291.5	287.5	280.4	272.9	265.3	264.3	253.2	243.7	231.6	221.0
10°	312.7	310.1	307.1	299.6	291.0	280.9	275.9	267.8	257.3	242.7	229.1
12.5°	331.3	327.3	322.2	311.1	301.1	290.0	291.0	277.9	270.9	257.8	237.6
15°	341.9	338.3	333.8	323.7	308.1	303.1	301.1	293.0	280.4	267.3	248.2
17.5°	344.4	341.9	335.8	322.7	314.2	308.1	307.6	298.1	292.5	281.4	260.3
20°	339.3	334.8	330.3	321.7	313.7	311.6	310.1	310.1	303.1	288.5	267.8
22.5°	330.8	325.7	323.2	318.2	311.6	311.1	312.2	311.1	305.6	296.0	275.9
25°	324.2	321.7	317.7	316.2	312.2	319.7	318.2	316.7	315.2	304.1	288.5
27.5°	326.3	325.7	322.7	316.7	313.7	321.7	326.3	326.8	326.3	315.2	300.1
30°	327.3	324.7	321.7	320.2	321.2	329.3	329.3	340.3	335.8	324.7	311.6
32.5°	338.8	337.3	327.3	323.7	324.2	333.8	334.3	345.4	343.9	336.3	321.7
35°	363.5	353.4	338.8	328.8	328.8	341.4	337.3	353.4	357.5	345.4	328.8
37.5°	400.3	392.7	366.5	343.9	335.3	344.4	348.4	357.5	369.5	359.0	342.9
40°	473.3	471.8	434.5	385.7	351.9	360.0	361.5	375.6	383.6	369.0	364.5
42.5°	580.0	572.4	537.7	460.7	382.1	378.6	384.1	393.2	412.3	400.3	389.2
45°	684.2	680.7	646.0	559.9	437.0	415.9	412.8	429.0	457.2	444.1	435.5
47.5°	759.7	752.7	733.1	660.6	517.6	459.7	461.7	477.8	513.5	503.5	506.0
50°	817.6	814.1	793.5	753.7	619.3	528.6	524.6	540.7	589.1	595.6	602.7
52.5°	881.1	887.6	859.9	826.2	739.6	621.3	612.2	617.8	680.2	695.3	714.9
55°	942.0	952.6	924.9	920.3	865.5	724.0	722.5	709.4	789.9	792.0	802.5
57.5°	981.8	978.2	976.2	1000.9	991.3	841.8	834.3	821.2	894.2	881.1	912.8
60°	984.8	994.9	1028.6	1089.5	1106.6	980.3	969.2	933.4	984.3	953.1	1013.5
62.5°	1007.4	1015.5	1077.9	1162.0	1184.2	1102.1	1109.7	1019.0	1061.3	1036.7	1125.3
65°	950.1	975.2	1100.6	1218.4	1285.9	1225.5	1217.9	1129.3	1140.4	1117.2	1235.5
67.5°	898.2	907.8	1038.7	1235.5	1366.4	1349.3	1346.3	1227.0	1221.9	1179.1	1266.7
70°	730.0	741.6	871.0	1147.9	1393.6	1493.8	1486.8	1363.9	1277.3	1145.4	1106.6
72.5°	418.4	441.5	603.7	884.1	1252.1	1534.1	1540.6	1386.1	1211.9	963.1	739.1
75°	136.9	143.5	250.7	501.0	936.5	1338.2	1326.7	1191.2	977.7	635.9	333.8
77.5°	46.3	47.3	74.0	181.3	519.1	904.2	910.8	851.4	600.6	264.3	92.1
80°	23.7	25.2	36.3	68.0	213.5	492.4	503.0	485.3	251.7	78.0	22.2
82.5°	11.1	11.6	21.1	37.8	97.7	193.3	193.3	212.5	89.1	43.8	9.1
85°	4.0	4.0	11.1	21.6	41.3	64.4	64.9	65.5	46.8	32.7	4.0
87.5°	1.5	1.5	5.5	9.1	15.1	19.6	19.6	15.6	23.7	21.6	1.5
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°	211.0	211.0	211.0	211.0	211.0	211.0	211.0	211.0	211.0	211.0	211.0
2.5°	212.0	208.9	206.4	202.9	198.4	195.9	196.4	193.3	193.3	191.8	191.3
5°	212.0	208.9	202.4	196.4	192.3	187.3	184.8	182.8	182.8	181.8	182.3
7.5°	213.5	208.9	199.9	191.8	185.3	180.2	176.2	175.7	174.7	172.2	174.2
10°	222.5	216.0	200.9	189.8	182.3	176.7	169.7	167.7	164.6	160.1	160.6
12.5°	230.1	221.5	207.9	192.8	183.3	174.2	158.1	140.5	132.9	124.9	125.4
15°	241.2	229.1	210.5	196.9	183.3	154.1	124.9	102.2	90.1	84.1	84.1
17.5°	247.2	237.1	217.5	199.4	168.7	125.4	88.6	69.0	67.0	68.0	68.0
20°	259.8	246.2	225.6	201.4	144.5	89.1	64.9	62.9	63.9	66.0	65.5
22.5°	267.8	254.3	231.6	192.3	111.8	63.9	60.9	59.9	60.9	63.4	63.4
25°	274.4	265.8	241.2	170.2	79.0	57.9	56.9	57.9	58.9	59.9	61.4
27.5°	290.5	275.9	247.7	141.5	56.9	53.9	54.9	55.4	55.4	56.9	57.4
30°	301.1	289.5	252.7	109.3	50.3	49.8	50.9	51.4	51.9	53.4	53.9
32.5°	311.1	307.1	246.2	74.0	47.3	46.3	45.8	46.3	48.3	49.8	49.3
35°	325.7	323.2	236.6	51.4	44.3	42.3	41.3	41.8	43.3	44.8	44.3
37.5°	343.4	345.9	213.5	44.8	41.3	38.8	36.8	36.8	37.3	38.8	39.3
40°	364.0	370.6	186.3	41.8	39.3	36.3	34.2	31.7	31.2	30.7	31.2
42.5°	401.8	409.3	155.6	39.8	36.3	32.7	29.7	26.7	24.2	22.7	22.7
45°	454.6	448.6	115.3	37.8	34.7	29.7	25.2	21.6	18.1	16.6	16.6
47.5°	527.6	507.0	79.0	35.7	32.2	26.2	21.1	16.6	13.6	12.1	12.1
50°	628.8	560.9	51.4	33.7	30.7	22.7	17.1	12.1	10.1	9.6	10.1
52.5°	724.5	615.7	40.8	31.2	27.7	19.6	13.1	10.1	9.1	8.6	8.6
55°	812.6	643.4	36.3	28.7	25.2	16.1	11.1	8.6	8.1	7.6	7.6
57.5°	887.1	653.0	31.2	25.2	20.1	12.6	9.1	7.6	6.5	6.0	6.0
60°	951.6	655.5	24.2	20.1	14.6	9.6	7.6	6.5	5.5	4.5	4.5
62.5°	1002.9	637.9	17.1	14.1	10.1	7.6	6.5	4.5	3.0	2.0	1.5
65°	1043.7	602.7	11.6	9.6	6.5	5.5	4.0	2.0	0.5	0.0	0.0
67.5°	995.9	522.6	9.1	7.0	4.5	3.5	2.0	0.5	0.0	0.0	0.0
70°	812.1	405.3	6.5	4.5	3.0	1.0	0.5	0.0	0.0	0.0	0.0
72.5°	552.8	261.3	5.0	3.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0
75°	248.2	93.6	3.5	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	60.4	22.2	2.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	16.1	5.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.0	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.5	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)