

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: P676707

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676707
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-740-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA 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: 2491.7 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

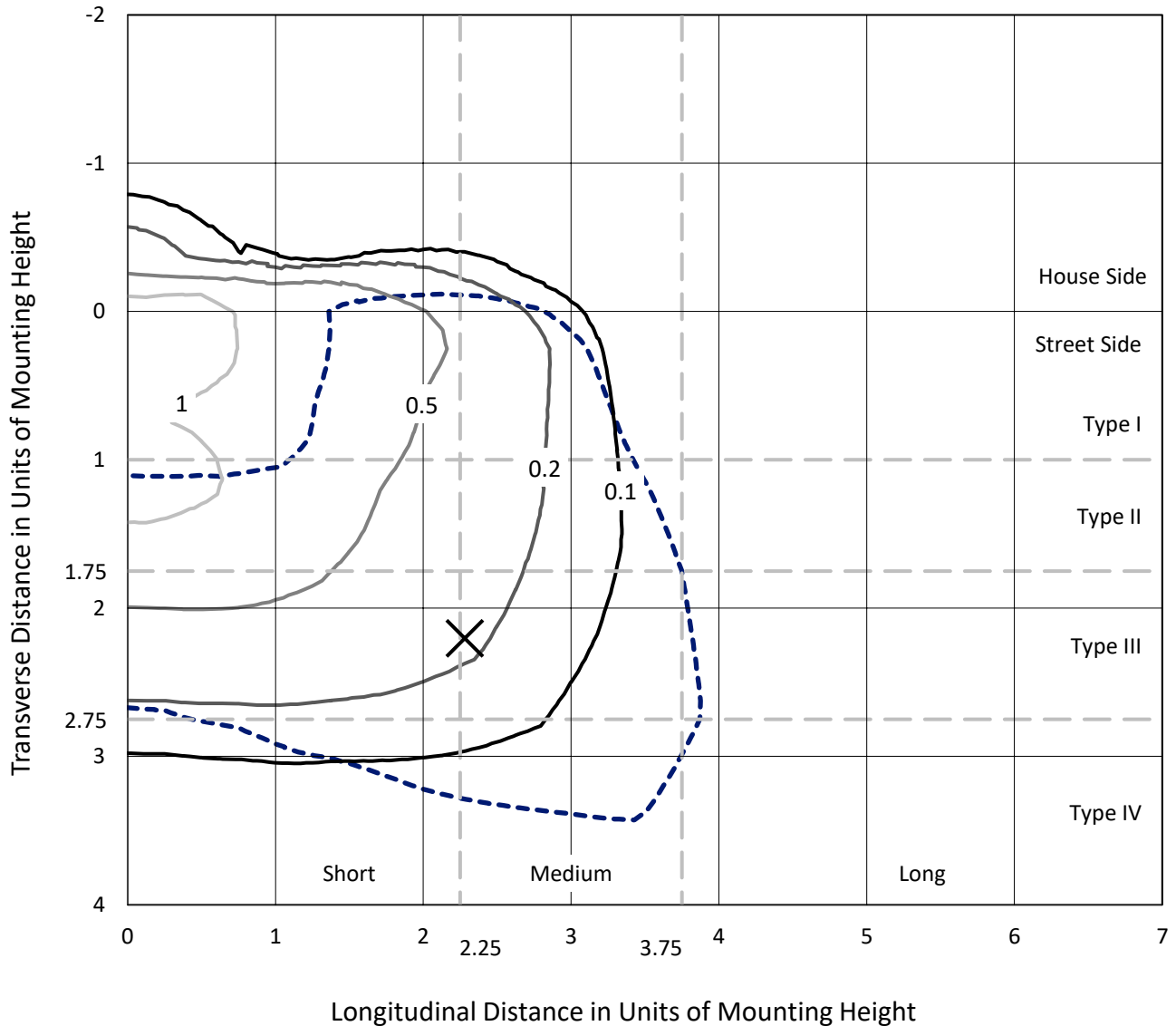
Input Watts (W): 24
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

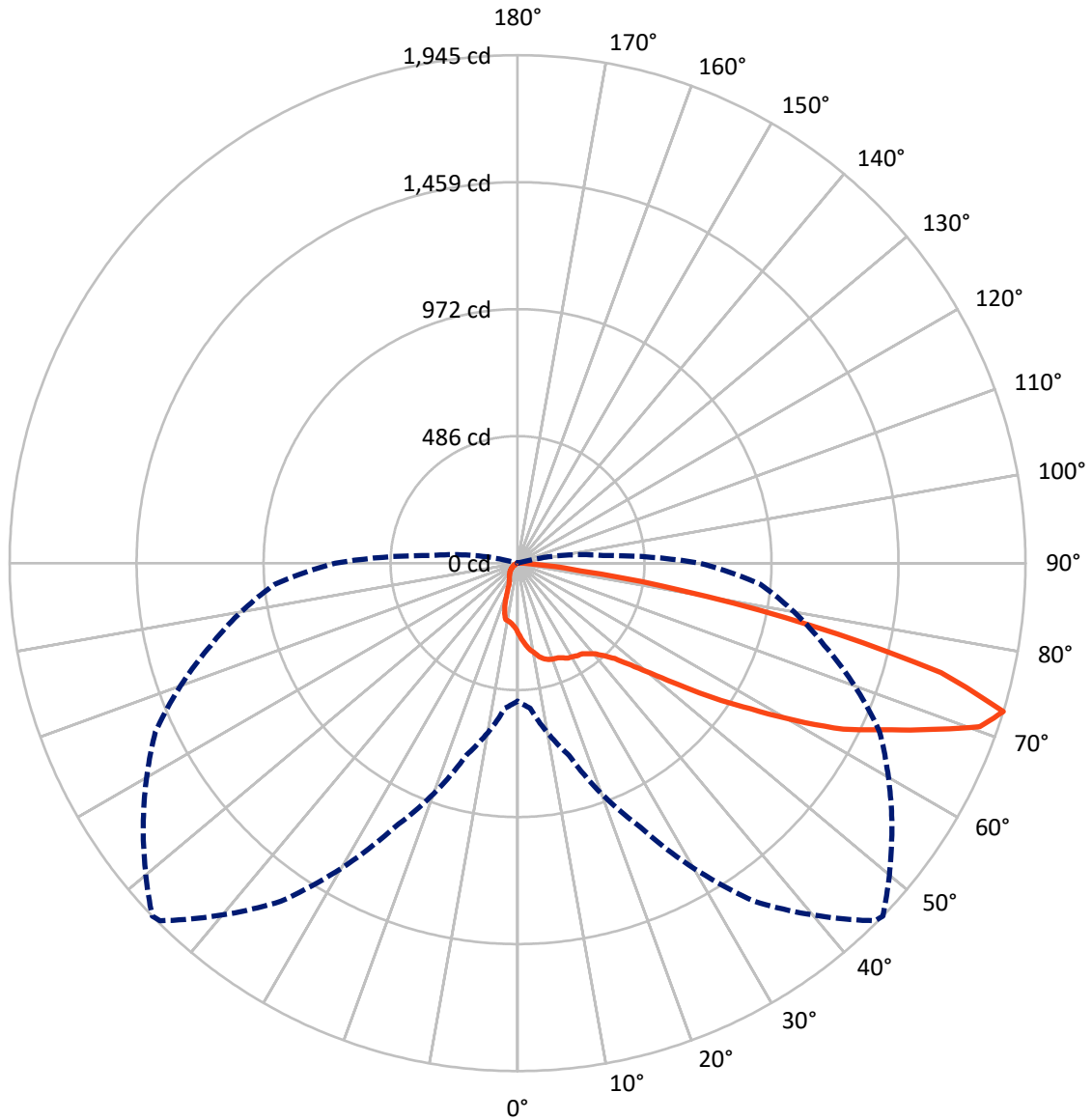
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.7 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	268.3	0.0	268.3
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	2223.5	0.0	2223.5
	% Fixture	89.2	0.0	89.2
Total	Lumens	2491.7	0.0	2491.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.7	1.1
10°-20°	80.5	3.2
20°-30°	126.0	5.1
30°-40°	176.4	7.1
40°-50°	290.9	11.7
50°-60°	522.9	21.0
60°-70°	757.9	30.4
70°-80°	473.0	19.0
80°-90°	37.5	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°	2491.7	100.0
0°-180°	2491.7	100.0

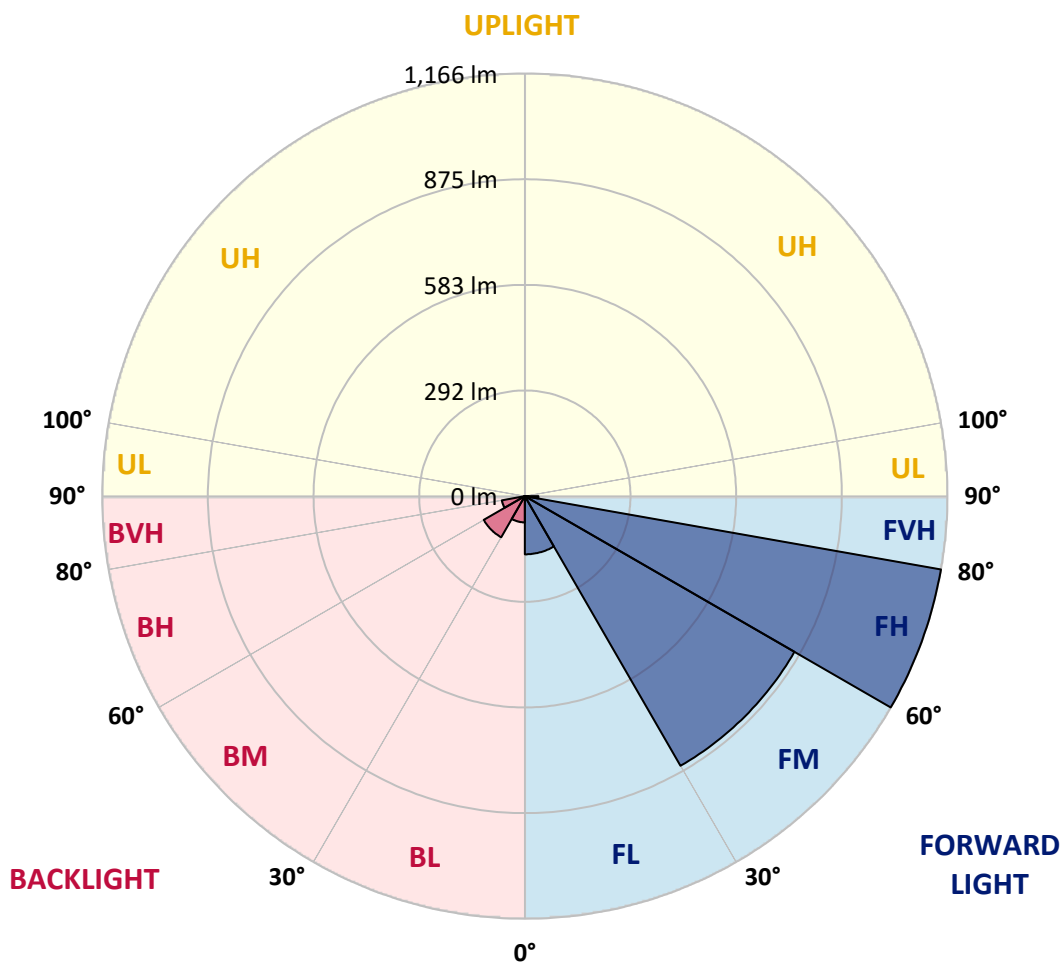


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	160.6	6.4			
FM (30°-60°)	859.2	34.5			
FH (60°-80°)	1166.4	46.8			G1/1800
FVH (80°-90°)	37.3	1.5			G1/100
BL (0°-30°)	72.5	2.9	B0/110		
BM (30°-60°)	131.0	5.3	B0/220		
BH (60°-80°)	64.5	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°	266.3	266.3	266.3	266.3	266.3	266.3	266.3	266.3	266.3	266.3	266.3
2.5°	298.1	296.8	298.7	298.1	290.5	291.7	291.1	286.0	277.1	272.0	268.8
5°	332.4	335.6	333.0	327.3	322.9	314.0	312.7	304.4	290.5	281.6	272.0
7.5°	368.0	368.0	362.9	354.0	344.5	334.9	333.7	319.7	307.6	292.4	279.0
10°	394.7	391.5	387.7	378.2	367.4	354.6	348.3	338.1	324.8	306.3	289.2
12.5°	418.2	413.1	406.8	392.8	380.1	366.1	367.4	350.8	341.9	325.4	300.0
15°	431.6	427.1	421.4	408.7	389.0	382.6	380.1	369.9	354.0	337.5	313.3
17.5°	434.7	431.6	423.9	407.4	396.6	389.0	388.3	376.3	369.3	355.3	328.6
20°	428.4	422.7	416.9	406.1	396.0	393.4	391.5	391.5	382.6	364.2	338.1
22.5°	417.6	411.2	408.0	401.7	393.4	392.8	394.1	392.8	385.8	373.7	348.3
25°	409.3	406.1	401.0	399.1	394.1	403.6	401.7	399.8	397.9	383.9	364.2
27.5°	411.8	411.2	407.4	399.8	396.0	406.1	411.8	412.5	411.8	397.9	378.8
30°	413.1	409.9	406.1	404.2	405.5	415.7	415.7	429.6	423.9	409.9	393.4
32.5°	427.7	425.8	413.1	408.7	409.3	421.4	422.0	436.0	434.1	424.6	406.1
35°	458.9	446.2	427.7	415.0	415.0	430.9	425.8	446.2	451.3	436.0	415.0
37.5°	505.3	495.7	462.7	434.1	423.3	434.7	439.8	451.3	466.5	453.2	432.8
40°	597.4	595.5	548.5	486.8	444.3	454.4	456.3	474.1	484.3	465.9	460.2
42.5°	732.2	722.6	678.8	581.5	482.4	477.9	484.9	496.4	520.5	505.3	491.3
45°	863.7	859.3	815.4	706.8	551.7	525.0	521.2	541.5	577.1	560.6	549.8
47.5°	959.1	950.2	925.4	833.9	653.4	580.3	582.8	603.2	648.3	635.6	638.7
50°	1032.2	1027.7	1001.7	951.4	781.7	667.3	662.3	682.6	743.6	751.9	760.8
52.5°	1112.2	1120.5	1085.5	1043.0	933.6	784.3	772.8	779.8	858.7	877.7	902.5
55°	1189.1	1202.5	1167.5	1161.8	1092.5	913.9	912.0	895.5	997.2	999.7	1013.1
57.5°	1239.4	1234.9	1232.4	1263.5	1251.4	1062.7	1053.1	1036.6	1128.8	1112.2	1152.3
60°	1243.2	1255.9	1298.5	1375.4	1397.0	1237.4	1223.5	1178.3	1242.5	1203.1	1279.4
62.5°	1271.8	1281.9	1360.7	1466.9	1494.9	1391.3	1400.8	1286.4	1339.8	1308.6	1420.5
65°	1199.3	1231.1	1389.4	1538.1	1623.2	1547.0	1537.4	1425.6	1439.6	1410.3	1559.7
67.5°	1133.9	1145.9	1311.2	1559.7	1724.9	1703.3	1699.5	1548.9	1542.5	1488.5	1599.1
70°	921.6	936.2	1099.5	1449.1	1759.3	1885.7	1876.8	1721.8	1612.4	1445.9	1397.0
72.5°	528.2	557.4	762.0	1116.1	1580.7	1936.6	1944.8	1749.7	1529.8	1215.8	933.0
75°	172.9	181.1	316.5	632.4	1182.2	1689.3	1674.7	1503.8	1234.3	802.7	421.4
77.5°	58.5	59.7	93.4	228.8	655.3	1141.5	1149.7	1074.7	758.2	333.7	116.3
80°	29.9	31.8	45.8	85.8	269.5	621.6	634.9	612.7	317.8	98.5	28.0
82.5°	14.0	14.6	26.7	47.7	123.3	244.1	244.1	268.2	112.5	55.3	11.4
85°	5.1	5.1	14.0	27.3	52.1	81.4	82.0	82.6	59.1	41.3	5.1
87.5°	1.9	1.9	7.0	11.4	19.1	24.8	24.8	19.7	29.9	27.3	1.9
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°	266.3	266.3	266.3	266.3	266.3	266.3	266.3	266.3	266.3	266.3	266.3
2.5°	267.6	263.8	260.6	256.1	250.4	247.2	247.9	244.1	244.1	242.2	241.5
5°	267.6	263.8	255.5	247.9	242.8	236.4	233.3	230.7	230.7	229.4	230.1
7.5°	269.5	263.8	252.3	242.2	233.9	227.5	222.4	221.8	220.5	217.4	219.9
10°	280.9	272.7	253.6	239.6	230.1	223.1	214.2	211.6	207.8	202.1	202.7
12.5°	290.5	279.6	262.5	243.4	231.3	219.9	199.6	177.3	167.8	157.6	158.3
15°	304.4	289.2	265.7	248.5	231.3	194.5	157.6	129.0	113.8	106.1	106.1
17.5°	312.1	299.4	274.6	251.7	212.9	158.3	111.9	87.1	84.5	85.8	85.8
20°	328.0	310.8	284.7	254.2	182.4	112.5	82.0	79.4	80.7	83.3	82.6
22.5°	338.1	321.0	292.4	242.8	141.1	80.7	76.9	75.6	76.9	80.1	80.1
25°	346.4	335.6	304.4	214.8	99.8	73.1	71.8	73.1	74.4	75.6	77.5
27.5°	366.7	348.3	312.7	178.6	71.8	68.0	69.3	69.9	69.9	71.8	72.5
30°	380.1	365.5	319.1	137.9	63.6	62.9	64.2	64.8	65.5	67.4	68.0
32.5°	392.8	387.7	310.8	93.4	59.7	58.5	57.8	58.5	61.0	62.9	62.3
35°	411.2	408.0	298.7	64.8	55.9	53.4	52.1	52.8	54.7	56.6	55.9
37.5°	433.5	436.6	269.5	56.6	52.1	48.9	46.4	46.4	47.0	48.9	49.6
40°	459.5	467.8	235.2	52.8	49.6	45.8	43.2	40.0	39.4	38.8	39.4
42.5°	507.2	516.7	196.4	50.2	45.8	41.3	37.5	33.7	30.5	28.6	28.6
45°	573.9	566.3	145.5	47.7	43.9	37.5	31.8	27.3	22.9	21.0	21.0
47.5°	666.1	640.0	99.8	45.1	40.7	33.0	26.7	21.0	17.2	15.3	15.3
50°	793.8	708.0	64.8	42.6	38.8	28.6	21.6	15.3	12.7	12.1	12.7
52.5°	914.6	777.3	51.5	39.4	35.0	24.8	16.5	12.7	11.4	10.8	10.8
55°	1025.8	812.3	45.8	36.2	31.8	20.3	14.0	10.8	10.2	9.5	9.5
57.5°	1119.9	824.3	39.4	31.8	25.4	15.9	11.4	9.5	8.3	7.6	7.6
60°	1201.2	827.5	30.5	25.4	18.4	12.1	9.5	8.3	7.0	5.7	5.7
62.5°	1266.1	805.3	21.6	17.8	12.7	9.5	8.3	5.7	3.8	2.5	1.9
65°	1317.5	760.8	14.6	12.1	8.3	7.0	5.1	2.5	0.6	0.0	0.0
67.5°	1257.2	659.7	11.4	8.9	5.7	4.4	2.5	0.6	0.0	0.0	0.0
70°	1025.2	511.6	8.3	5.7	3.8	1.3	0.6	0.0	0.0	0.0	0.0
72.5°	697.9	329.9	6.4	3.8	1.9	0.6	0.0	0.0	0.0	0.0	0.0
75°	313.3	118.2	4.4	2.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	76.3	28.0	3.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	20.3	7.0	1.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.6	2.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.6	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)