

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: P676597

Luminaire Tested: **CCW-SA-1C-827-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676597
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-827-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
T4FT distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

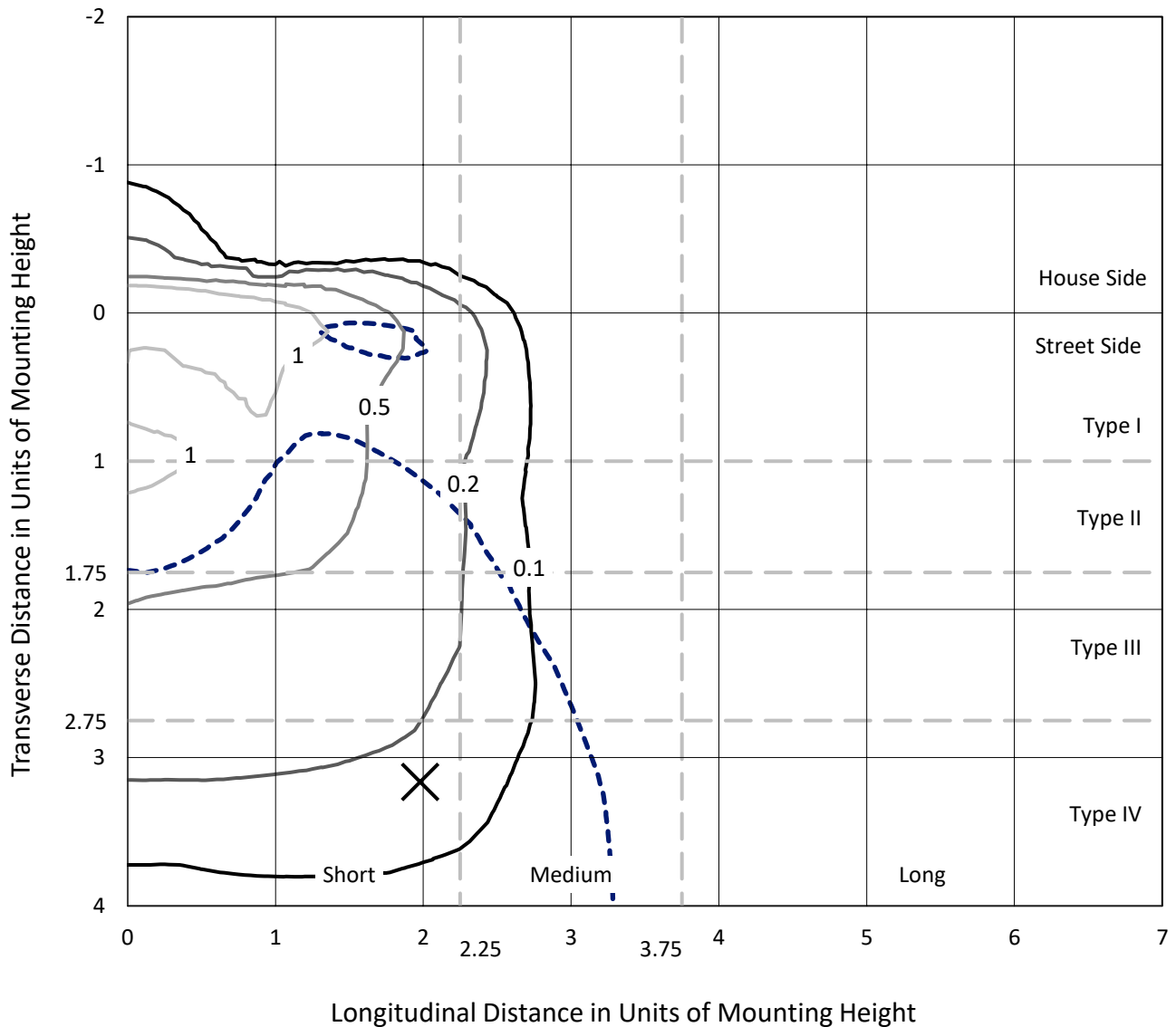
Lumens per Lamp: N/A
Luminaire Lumens: 2386.5 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 32
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

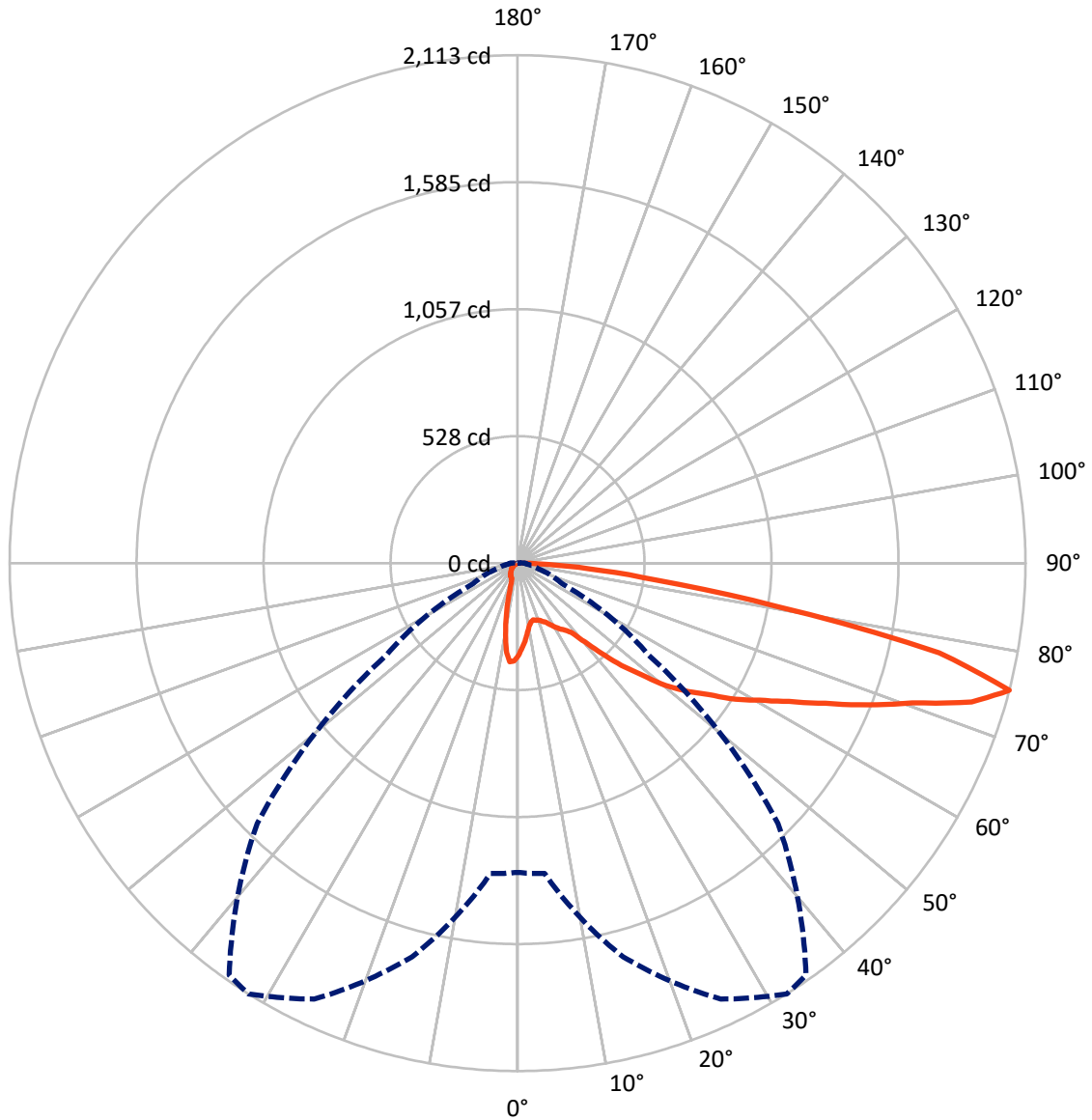
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	257.8	0.0	257.8
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	2128.7	0.0	2128.7
	% Fixture	89.2	0.0	89.2
Total	Lumens	2386.5	0.0	2386.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.9	1.4
10°-20°	76.9	3.2
20°-30°	115.1	4.8
30°-40°	176.7	7.4
40°-50°	309.0	12.9
50°-60°	483.0	20.2
60°-70°	624.5	26.2
70°-80°	508.6	21.3
80°-90°	58.9	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°	2386.5	100.0
0°-180°	2386.5	100.0



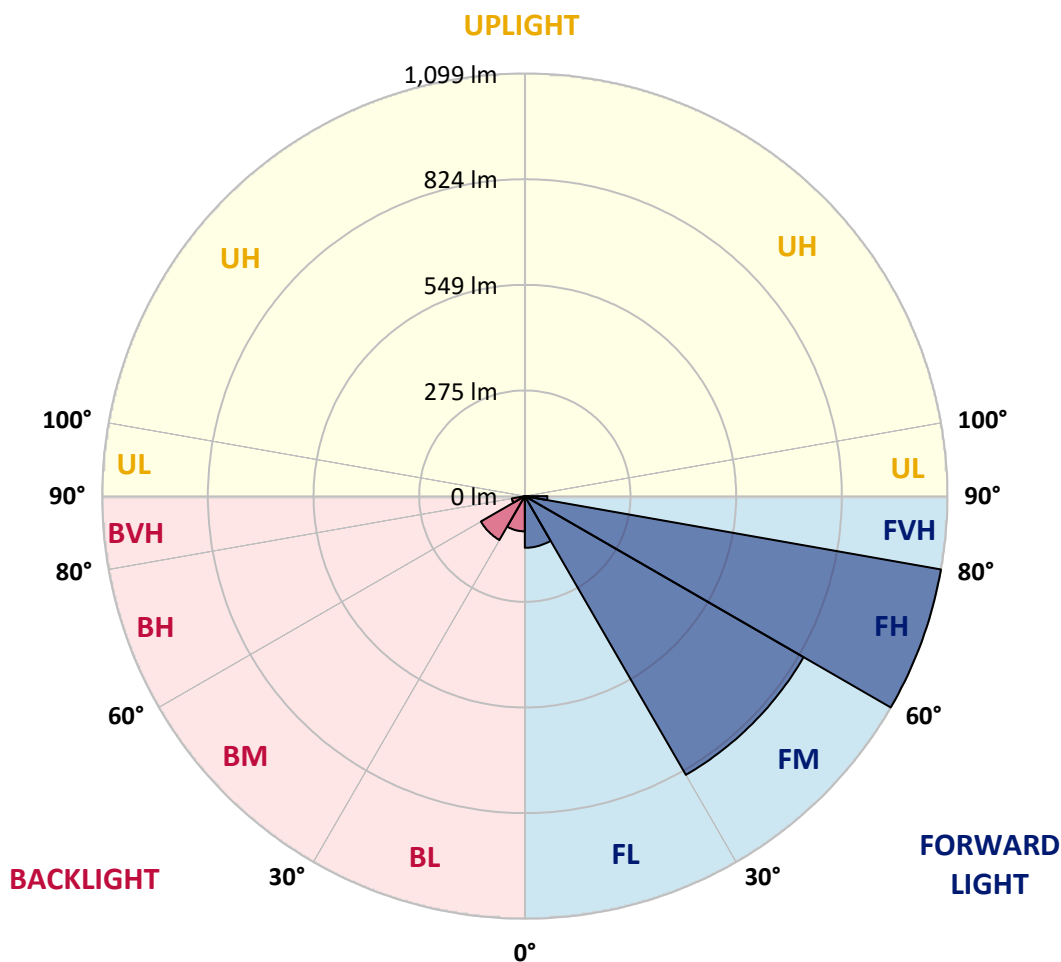
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	134.3	5.6			
FM (30°-60°)	836.8	35.1			
FH (60°-80°)	1098.8	46.0			G1/1800
FVH (80°-90°)	58.8	2.5			G1/100
BL (0°-30°)	91.6	3.8	B0/110		
BM (30°-60°)	131.9	5.5	B0/220		
BH (60°-80°)	34.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	385.3	385.3	385.3	385.3	385.3	385.3	385.3	385.3	385.3	385.3	385.3
2.5°	345.6	350.5	349.9	352.9	353.5	355.4	359.7	359.7	371.9	380.5	386.0
5°	314.4	311.3	312.6	316.2	325.4	324.8	335.2	340.7	355.4	367.6	380.5
7.5°	275.9	275.2	277.7	286.3	293.0	298.5	309.5	323.6	343.1	361.5	384.1
10°	251.4	250.2	255.1	257.5	265.5	269.1	286.3	308.3	331.5	357.8	384.1
12.5°	245.9	241.6	244.1	243.4	250.8	252.6	269.1	296.0	324.2	356.6	389.0
15°	248.9	245.9	243.4	243.4	245.3	246.5	264.2	288.1	319.9	358.4	400.0
17.5°	258.7	256.9	249.6	242.2	250.2	250.2	261.2	286.3	320.5	363.9	413.5
20°	270.4	268.5	255.7	247.1	252.6	258.7	270.4	290.5	322.3	368.2	434.3
22.5°	283.2	283.2	265.5	255.7	263.0	263.6	284.4	304.0	329.7	379.2	447.7
25°	299.1	297.9	280.8	269.7	272.2	278.9	297.9	318.7	343.1	394.5	472.8
27.5°	319.9	318.1	297.9	286.9	289.9	297.3	318.7	339.5	355.4	400.6	494.2
30°	337.0	335.2	318.7	302.2	308.9	315.6	340.7	359.0	370.7	412.3	518.7
32.5°	340.7	337.6	326.6	319.3	326.6	339.5	359.0	378.0	395.7	441.6	565.2
35°	382.9	371.9	343.1	331.5	342.5	346.8	379.2	412.9	430.0	464.9	617.2
37.5°	463.6	453.2	415.3	382.9	367.6	372.5	414.7	456.3	472.8	508.3	674.0
40°	562.7	545.6	505.2	461.8	430.6	424.5	452.0	513.2	529.1	562.7	748.7
42.5°	675.9	659.4	597.0	545.6	513.8	505.8	510.1	579.2	592.7	612.9	797.6
45°	757.2	748.7	678.3	632.5	607.4	598.8	588.4	651.4	668.5	675.3	868.6
47.5°	804.3	798.2	759.1	727.9	694.2	685.1	691.8	751.7	740.1	745.6	936.4
50°	867.3	851.4	798.2	808.0	801.3	798.8	810.4	836.7	819.6	803.7	1010.5
52.5°	918.1	890.0	852.6	876.5	886.9	896.1	937.1	956.6	880.2	855.7	1058.2
55°	949.3	922.4	932.2	954.2	965.2	1007.4	1055.7	1041.0	919.9	897.3	1121.8
57.5°	977.4	979.3	1005.6	1012.3	1068.6	1075.9	1168.9	1121.2	948.1	935.2	1146.9
60°	1045.3	1038.6	1060.0	1103.4	1157.3	1198.2	1286.9	1175.0	962.1	954.8	1140.1
62.5°	1167.7	1126.1	1133.4	1188.4	1267.4	1312.0	1354.8	1199.5	958.5	957.9	1119.9
65°	1323.0	1275.3	1253.3	1304.7	1406.8	1469.8	1431.3	1227.0	934.0	951.1	1044.7
67.5°	1452.1	1452.7	1411.7	1440.5	1573.8	1587.2	1503.5	1221.5	893.0	897.9	861.2
70°	1600.7	1620.9	1584.8	1674.7	1741.4	1750.0	1586.0	1176.2	804.9	677.1	494.8
72.5°	1638.6	1649.0	1761.6	1899.8	1975.0	1977.5	1667.4	1025.1	529.7	299.1	153.5
75°	1286.9	1296.7	1695.5	2001.3	2113.3	2091.9	1531.6	665.5	206.1	87.5	36.7
77.5°	718.1	721.1	1052.7	1617.8	1792.8	1706.5	1072.8	259.3	83.2	50.2	17.1
80°	196.3	230.6	390.2	797.6	1094.9	1074.7	510.7	84.4	53.8	39.1	8.0
82.5°	47.1	50.8	125.4	352.9	578.6	603.7	152.3	42.8	37.3	32.4	4.3
85°	17.1	19.0	38.5	171.9	297.3	272.8	45.9	21.4	27.5	25.1	1.8
87.5°	6.1	6.1	12.2	56.3	86.9	65.4	15.3	7.3	14.1	15.3	0.6
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°	385.3	385.3	385.3	385.3	385.3	385.3	385.3	385.3	385.3	385.3	385.3
2.5°	386.6	386.6	395.1	402.5	404.9	408.0	404.9	411.6	411.0	408.0	409.2
5°	387.2	398.2	405.5	410.4	412.9	412.3	413.5	406.1	401.9	398.8	395.7
7.5°	390.2	400.6	414.1	412.9	406.1	392.1	381.1	361.5	342.5	341.9	338.9
10°	400.6	409.8	417.8	412.9	388.4	345.6	310.7	284.4	260.6	249.6	250.8
12.5°	408.0	425.1	421.4	396.4	345.6	289.3	237.9	199.4	178.0	157.8	157.8
15°	423.3	429.4	428.2	372.5	293.0	225.7	163.3	124.2	101.5	92.4	91.1
17.5°	437.9	444.7	423.9	336.4	241.0	151.7	99.1	77.1	74.0	72.8	73.4
20°	456.3	456.9	420.2	300.3	181.1	96.0	71.0	69.1	69.7	69.1	69.1
22.5°	475.9	480.2	407.4	249.6	120.5	69.7	66.1	66.7	66.7	66.7	68.5
25°	501.6	494.8	387.2	201.2	78.9	64.2	64.2	64.8	64.8	64.8	65.4
27.5°	518.7	509.5	361.5	145.0	61.8	60.6	61.8	61.8	63.0	63.0	63.0
30°	554.2	530.3	329.1	93.6	55.7	57.5	58.7	59.9	60.6	61.8	62.4
32.5°	581.7	548.7	288.7	62.4	50.8	52.0	55.0	57.5	59.9	59.3	59.3
35°	631.8	578.6	251.4	49.5	46.5	46.5	49.5	53.8	57.5	58.7	58.7
37.5°	689.3	603.1	199.4	45.3	42.8	42.8	44.7	49.5	54.4	56.9	55.7
40°	737.0	631.2	147.4	42.2	39.8	39.8	41.0	44.7	50.2	54.4	55.0
42.5°	770.7	652.0	99.7	39.1	37.3	36.7	38.5	40.4	44.7	50.8	52.0
45°	801.3	663.0	61.8	36.1	34.9	34.9	34.9	36.7	39.8	45.3	46.5
47.5°	855.7	675.3	44.7	33.6	31.8	32.4	33.0	33.6	36.1	37.3	37.9
50°	901.6	684.4	36.7	31.2	30.0	30.6	30.6	30.6	31.8	30.0	30.0
52.5°	936.4	675.3	31.2	28.7	27.5	28.1	27.5	27.5	26.3	23.9	23.9
55°	962.1	658.8	25.1	26.3	26.3	26.3	25.1	23.2	20.8	19.0	19.0
57.5°	968.9	630.6	19.6	22.0	23.9	23.9	21.4	19.0	15.9	14.1	13.5
60°	958.5	569.5	14.7	15.9	18.3	19.0	17.1	14.1	11.0	9.2	9.2
62.5°	921.2	521.1	11.6	10.4	13.5	14.1	12.2	9.2	6.1	4.3	3.7
65°	850.2	446.5	8.6	7.3	9.2	9.8	8.0	4.3	1.8	0.6	0.0
67.5°	682.0	336.4	5.5	4.9	6.1	6.1	3.7	1.2	0.0	0.0	0.0
70°	377.4	189.0	3.7	2.4	3.1	1.8	0.6	0.0	0.0	0.0	0.0
72.5°	108.9	53.8	1.8	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	29.4	12.8	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.8	4.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.6	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)