

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: P676619

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676619
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-835-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) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

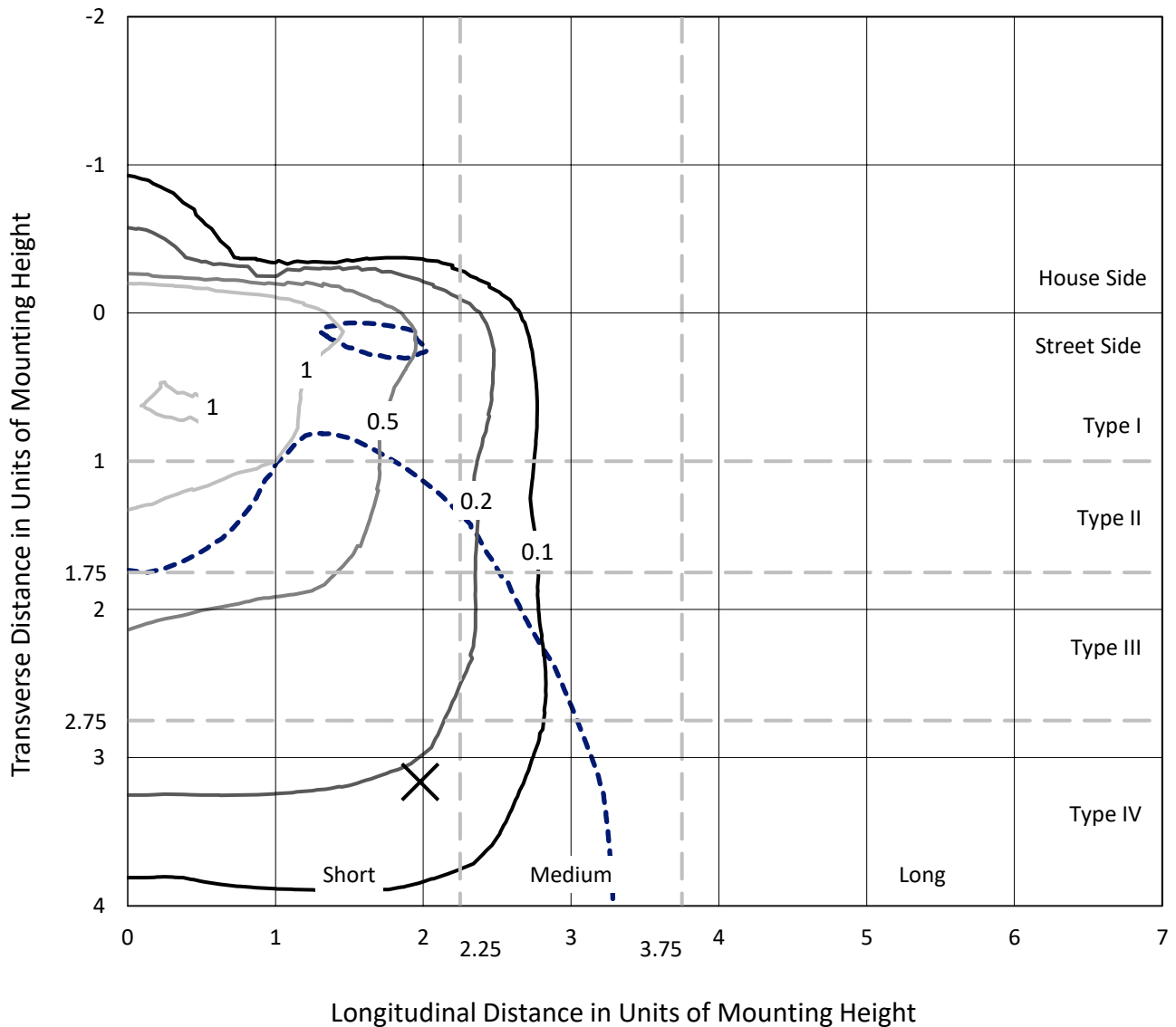
Lumens per Lamp: N/A
Luminaire Lumens: 2675.1 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 32
Input Voltage (V): 120
Input Current (A_{in}): 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

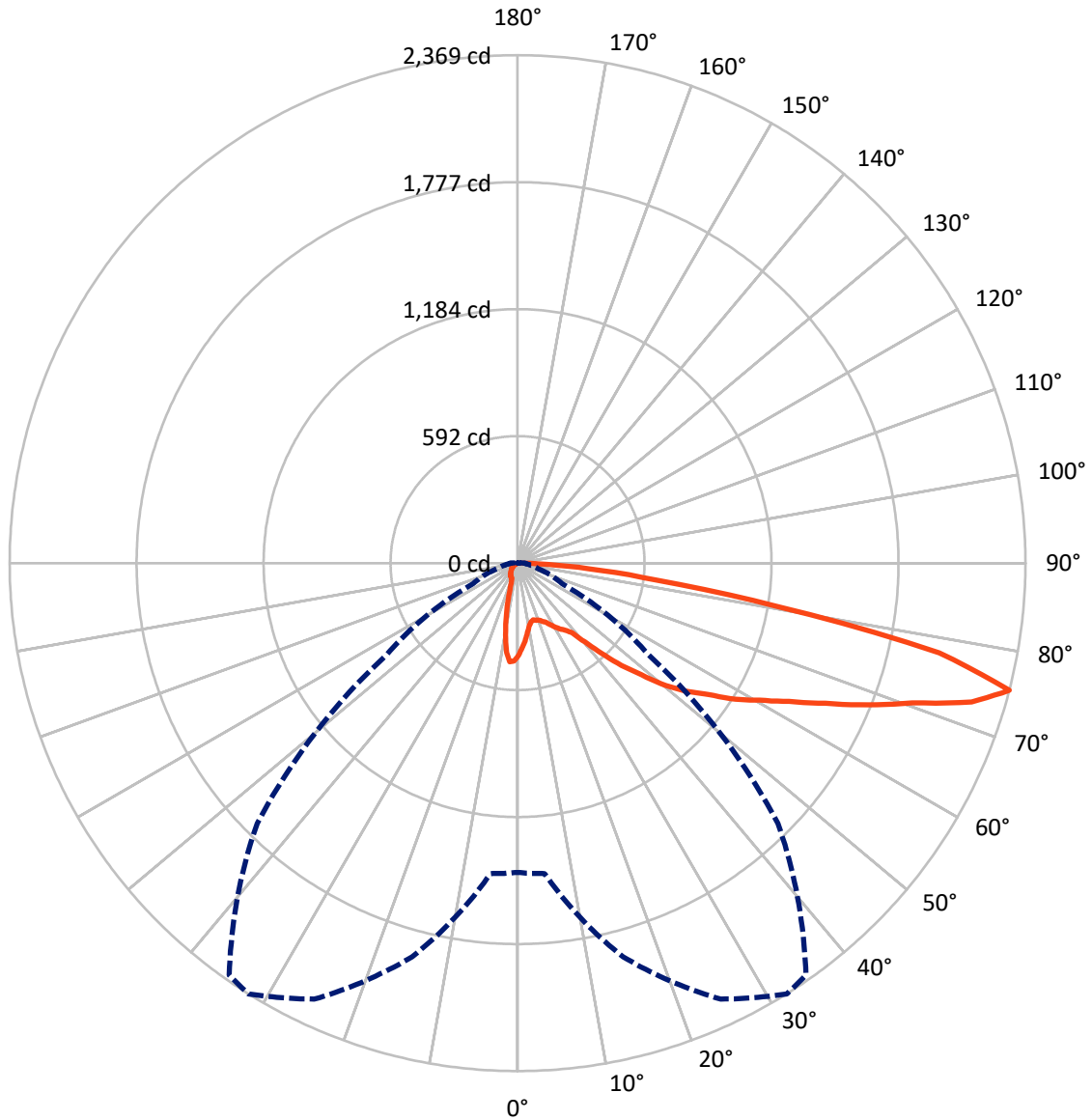
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.9 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	289.0	0.0	289.0
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	2386.1	0.0	2386.1
	% Fixture	89.2	0.0	89.2
Total	Lumens	2675.1	0.0	2675.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.0	1.4
10°-20°	86.2	3.2
20°-30°	129.0	4.8
30°-40°	198.1	7.4
40°-50°	346.4	12.9
50°-60°	541.4	20.2
60°-70°	700.0	26.2
70°-80°	570.1	21.3
80°-90°	66.0	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°	2675.1	100.0
0°-180°	2675.1	100.0



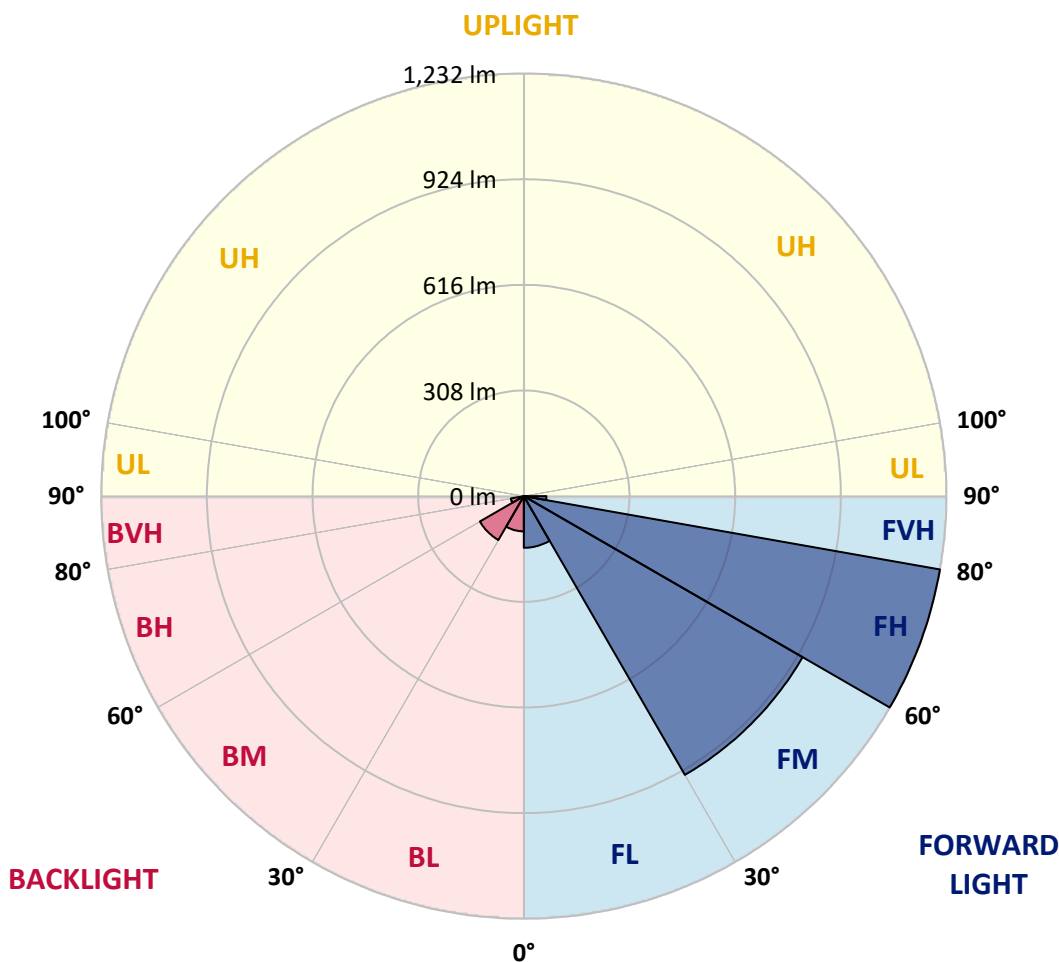
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	150.5	5.6			
FM (30°-60°)	938.0	35.1			
FH (60°-80°)	1231.7	46.0			G1/1800
FVH (80°-90°)	65.9	2.5			G1/100
BL (0°-30°)	102.7	3.8	B0/110		
BM (30°-60°)	147.9	5.5	B0/220		
BH (60°-80°)	38.4	1.4	B0/110		G0/110
BVH (80°-90°)	0.1	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°	431.9	431.9	431.9	431.9	431.9	431.9	431.9	431.9	431.9	431.9	431.9
2.5°	387.4	392.9	392.2	395.6	396.3	398.3	403.1	403.1	416.9	426.5	432.6
5°	352.4	349.0	350.4	354.5	364.8	364.1	375.7	381.9	398.3	412.1	426.5
7.5°	309.2	308.5	311.3	320.9	328.4	334.6	346.9	362.7	384.6	405.2	430.6
10°	281.8	280.4	285.9	288.6	297.6	301.7	320.9	345.6	371.6	401.1	430.6
12.5°	275.6	270.8	273.6	272.9	281.1	283.2	301.7	331.8	363.4	399.7	436.1
15°	279.1	275.6	272.9	272.9	274.9	276.3	296.2	322.9	358.6	401.8	448.4
17.5°	290.0	288.0	279.7	271.5	280.4	280.4	292.8	320.9	359.3	407.9	463.5
20°	303.0	301.0	286.6	277.0	283.2	290.0	303.0	325.7	361.3	412.7	486.8
22.5°	317.4	317.4	297.6	286.6	294.8	295.5	318.8	340.8	369.6	425.1	501.9
25°	335.3	333.9	314.7	302.4	305.1	312.6	333.9	357.2	384.6	442.2	530.0
27.5°	358.6	356.5	333.9	321.6	325.0	333.2	357.2	380.5	398.3	449.1	554.0
30°	377.8	375.7	357.2	338.7	346.2	353.8	381.9	402.5	415.5	462.1	581.4
32.5°	381.9	378.5	366.1	357.9	366.1	380.5	402.5	423.7	443.6	495.0	633.5
35°	429.2	416.9	384.6	371.6	384.0	388.8	425.1	462.8	482.0	521.1	691.8
37.5°	519.7	508.1	465.5	429.2	412.1	417.5	464.9	511.5	530.0	569.8	755.6
40°	630.8	611.6	566.3	517.6	482.7	475.8	506.7	575.2	593.1	630.8	839.2
42.5°	757.6	739.1	669.2	611.6	575.9	567.0	571.8	649.3	664.4	687.0	894.1
45°	848.8	839.2	760.4	708.9	680.8	671.2	659.6	730.2	749.4	756.9	973.6
47.5°	901.6	894.7	850.9	815.9	778.2	767.9	775.4	842.6	829.6	835.8	1049.7
50°	972.2	954.4	894.7	905.7	898.2	895.4	908.5	937.9	918.7	900.9	1132.7
52.5°	1029.1	997.6	955.8	982.5	994.2	1004.4	1050.4	1072.3	986.6	959.2	1186.1
55°	1064.1	1033.9	1044.9	1069.6	1081.9	1129.2	1183.4	1166.9	1031.2	1005.8	1257.4
57.5°	1095.6	1097.7	1127.2	1134.7	1197.8	1206.0	1310.2	1256.8	1062.7	1048.3	1285.6
60°	1171.7	1164.2	1188.2	1236.9	1297.2	1343.1	1442.6	1317.1	1078.5	1070.3	1278.0
62.5°	1308.9	1262.2	1270.5	1332.2	1420.6	1470.7	1518.7	1344.5	1074.4	1073.7	1255.4
65°	1483.0	1429.5	1404.9	1462.4	1576.9	1647.6	1604.4	1375.4	1047.0	1066.2	1171.1
67.5°	1627.7	1628.4	1582.4	1614.7	1764.1	1779.2	1685.3	1369.2	1001.0	1006.5	965.4
70°	1794.3	1816.9	1776.5	1877.2	1952.0	1961.6	1777.8	1318.5	902.3	759.0	554.7
72.5°	1836.8	1848.5	1974.6	2129.6	2213.9	2216.6	1869.0	1149.1	593.8	335.3	172.1
75°	1442.6	1453.5	1900.6	2243.4	2368.8	2344.8	1716.8	746.0	231.1	98.0	41.1
77.5°	804.9	808.4	1180.0	1813.5	2009.6	1912.9	1202.6	290.7	93.2	56.2	19.2
80°	220.1	258.5	437.4	894.1	1227.3	1204.6	572.5	94.6	60.3	43.9	8.9
82.5°	52.8	56.9	140.6	395.6	648.6	676.7	170.7	48.0	41.8	36.3	4.8
85°	19.2	21.3	43.2	192.7	333.2	305.8	51.4	24.0	30.9	28.1	2.1
87.5°	6.9	6.9	13.7	63.1	97.4	73.4	17.1	8.2	15.8	17.1	0.7
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°	431.9	431.9	431.9	431.9	431.9	431.9	431.9	431.9	431.9	431.9	431.9
2.5°	433.3	433.3	442.9	451.1	453.9	457.3	453.9	461.4	460.7	457.3	458.7
5°	434.0	446.3	454.6	460.1	462.8	462.1	463.5	455.3	450.5	447.0	443.6
7.5°	437.4	449.1	464.2	462.8	455.3	439.5	427.1	405.2	384.0	383.3	379.8
10°	449.1	459.4	468.3	462.8	435.4	387.4	348.3	318.8	292.1	279.7	281.1
12.5°	457.3	476.5	472.4	444.3	387.4	324.3	266.7	223.5	199.5	176.9	176.9
15°	474.5	481.3	479.9	417.5	328.4	253.0	183.1	139.2	113.8	103.5	102.2
17.5°	490.9	498.5	475.1	377.1	270.1	170.0	111.1	86.4	83.0	81.6	82.3
20°	511.5	512.2	471.0	336.6	202.9	107.6	79.5	77.5	78.2	77.5	77.5
22.5°	533.4	538.2	456.6	279.7	135.1	78.2	74.0	74.7	74.7	74.7	76.8
25°	562.2	554.7	434.0	225.6	88.4	72.0	72.0	72.7	72.7	72.7	73.4
27.5°	581.4	571.1	405.2	162.5	69.2	67.9	69.2	69.2	70.6	70.6	70.6
30°	621.2	594.4	368.9	104.9	62.4	64.4	65.8	67.2	67.9	69.2	69.9
32.5°	652.0	615.0	323.6	69.9	56.9	58.3	61.7	64.4	67.2	66.5	66.5
35°	708.3	648.6	281.8	55.5	52.1	52.1	55.5	60.3	64.4	65.8	65.8
37.5°	772.7	676.0	223.5	50.7	48.0	48.0	50.1	55.5	61.0	63.8	62.4
40°	826.2	707.6	165.2	47.3	44.6	44.6	45.9	50.1	56.2	61.0	61.7
42.5°	863.9	730.9	111.8	43.9	41.8	41.1	43.2	45.3	50.1	56.9	58.3
45°	898.2	743.2	69.2	40.5	39.1	39.1	39.1	41.1	44.6	50.7	52.1
47.5°	959.2	756.9	50.1	37.7	35.7	36.3	37.0	37.7	40.5	41.8	42.5
50°	1010.6	767.2	41.1	35.0	33.6	34.3	34.3	34.3	35.7	33.6	33.6
52.5°	1049.7	756.9	35.0	32.2	30.9	31.5	30.9	30.9	29.5	26.7	26.7
55°	1078.5	738.4	28.1	29.5	29.5	29.5	28.1	26.1	23.3	21.3	21.3
57.5°	1086.0	706.9	21.9	24.7	26.7	26.7	24.0	21.3	17.8	15.8	15.1
60°	1074.4	638.3	16.5	17.8	20.6	21.3	19.2	15.8	12.3	10.3	10.3
62.5°	1032.6	584.2	13.0	11.7	15.1	15.8	13.7	10.3	6.9	4.8	4.1
65°	953.0	500.5	9.6	8.2	10.3	11.0	8.9	4.8	2.1	0.7	0.0
67.5°	764.5	377.1	6.2	5.5	6.9	6.9	4.1	1.4	0.0	0.0	0.0
70°	423.0	211.9	4.1	2.7	3.4	2.1	0.7	0.0	0.0	0.0	0.0
72.5°	122.0	60.3	2.1	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	32.9	14.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	14.4	5.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	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)