

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: P676645

Luminaire Tested: **CCW-SA-2A-850-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676645
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-850-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
T4FT distribution lens and House Side Shield
Light Source: (32) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

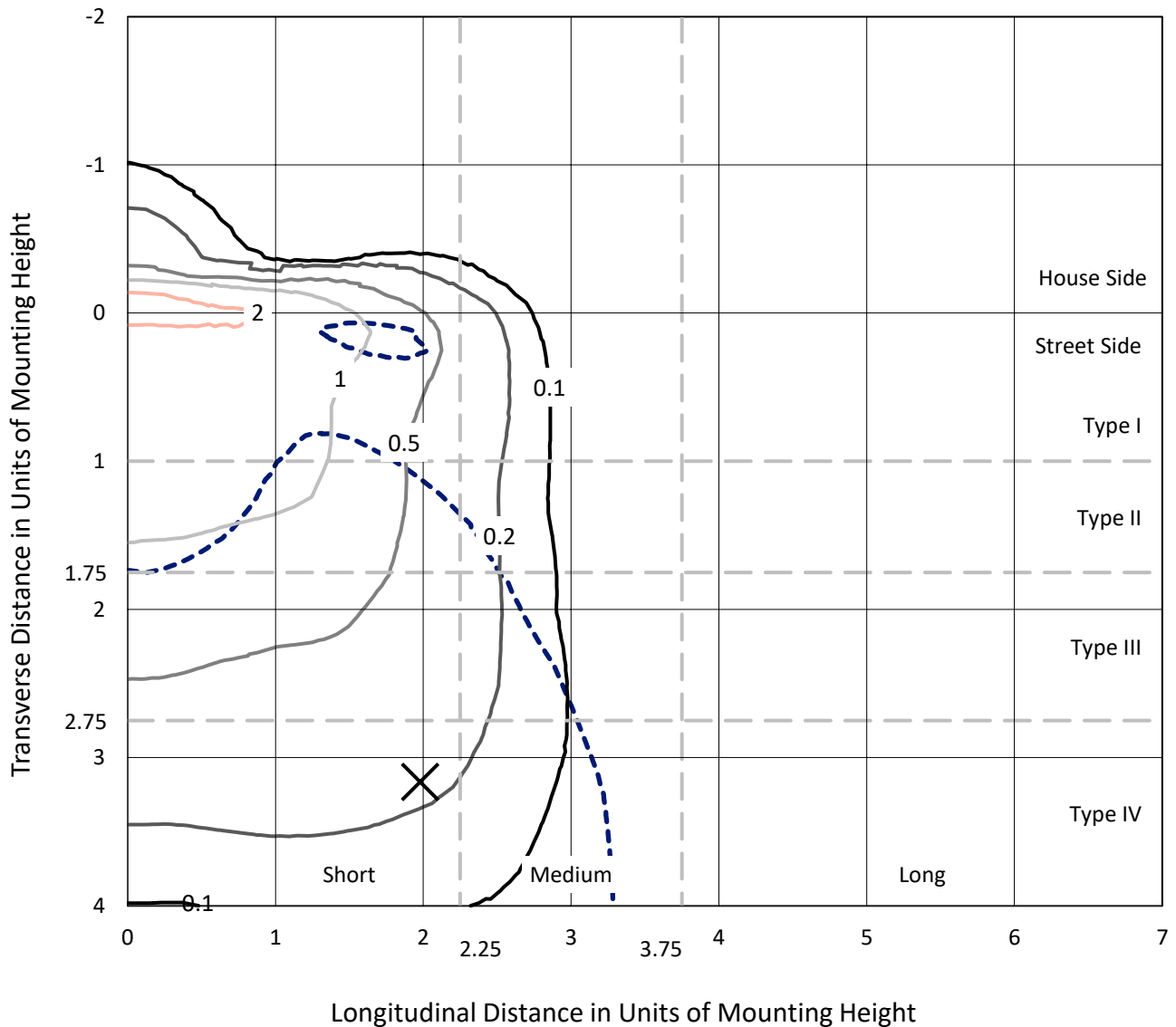
Lumens per Lamp: N/A
Luminaire Lumens: 3428.3 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2
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

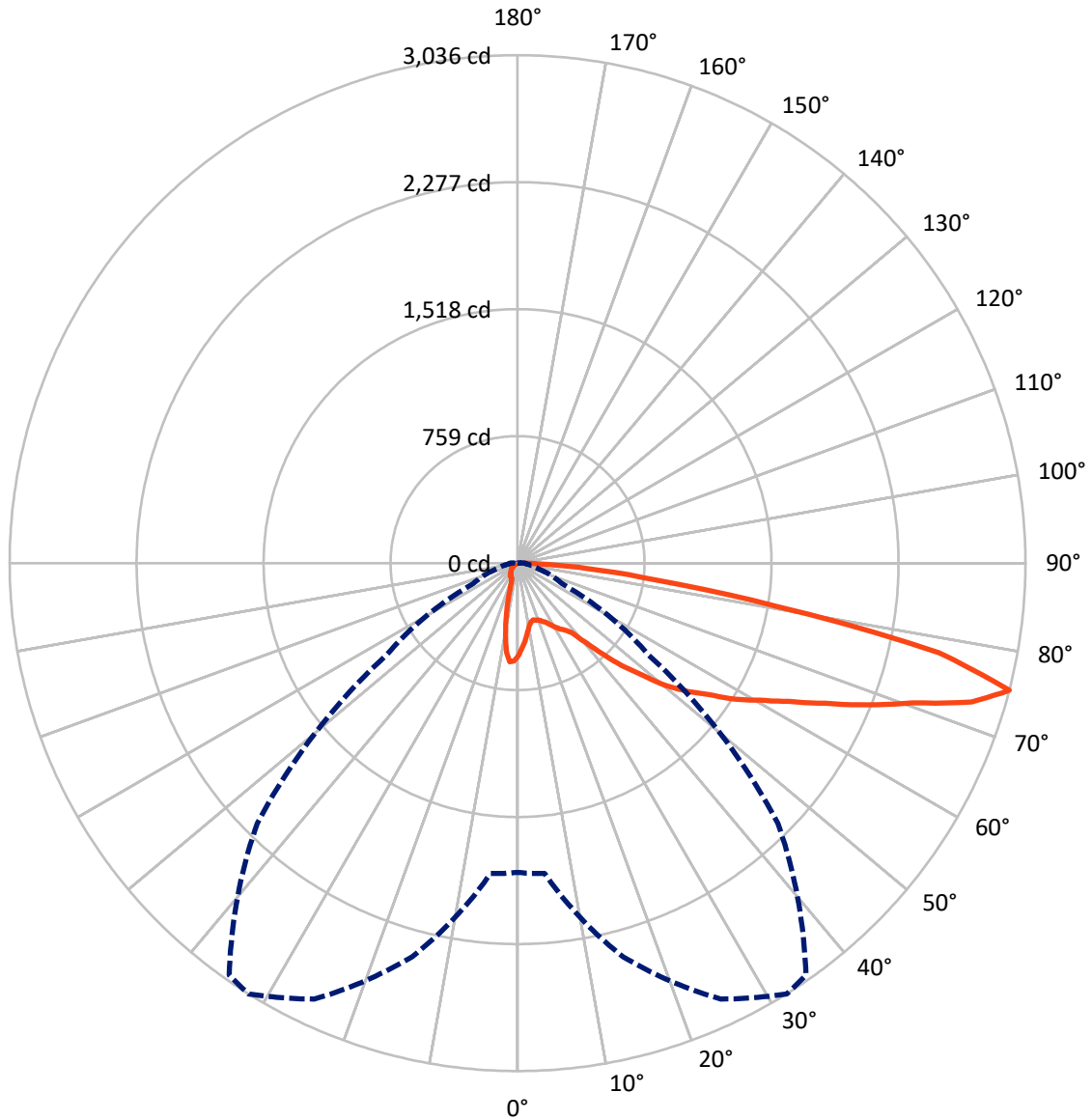
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.5 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	370.4	0.0	370.4
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	3058.0	0.0	3058.0
	% Fixture	89.2	0.0	89.2
Total	Lumens	3428.3	0.0	3428.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	1.4
10°-20°	110.4	3.2
20°-30°	165.4	4.8
30°-40°	253.8	7.4
40°-50°	443.9	12.9
50°-60°	693.9	20.2
60°-70°	897.1	26.2
70°-80°	730.6	21.3
80°-90°	84.6	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°	3428.3	100.0
0°-180°	3428.3	100.0



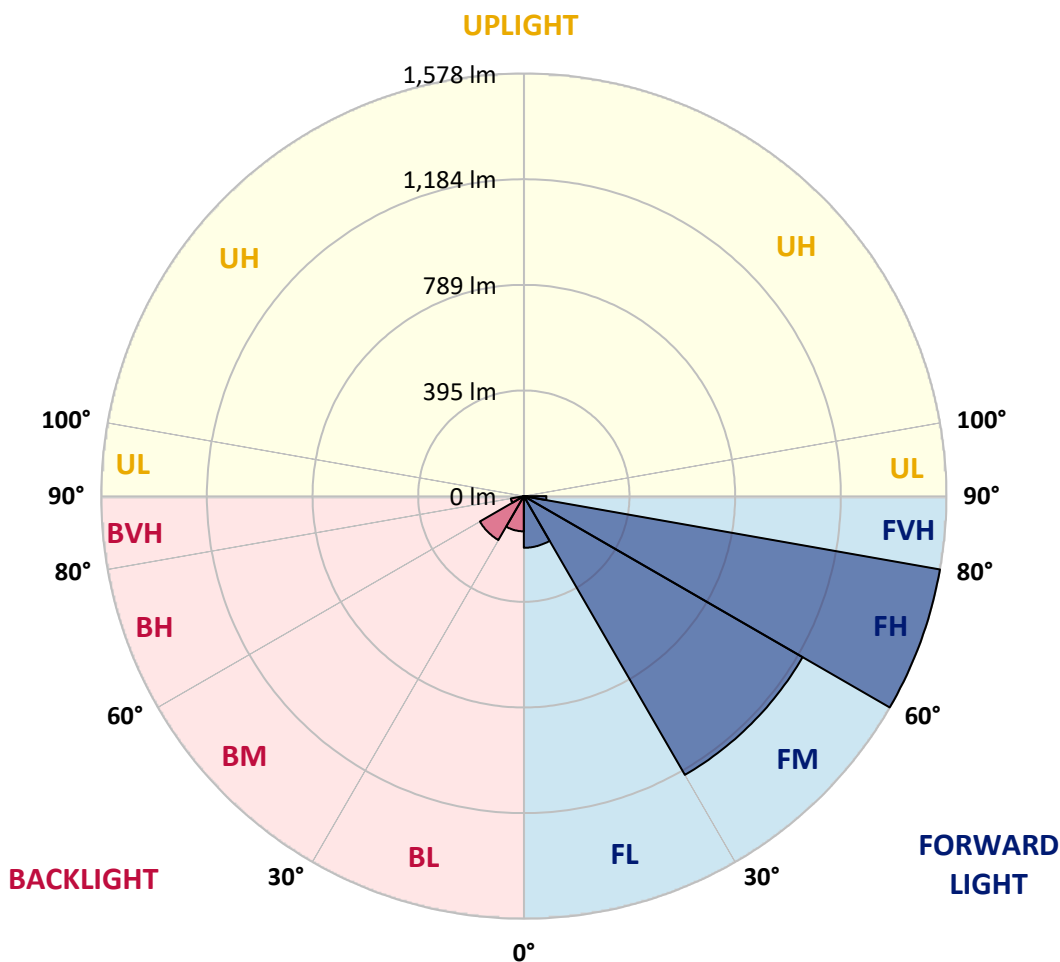
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	192.9	5.6			
FM (30°-60°)	1202.1	35.1			
FH (60°-80°)	1578.4	46.0			G1/1800
FVH (80°-90°)	84.5	2.5			G1/100
BL (0°-30°)	131.6	3.8	B1/500		
BM (30°-60°)	189.5	5.5	B0/220		
BH (60°-80°)	49.3	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: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6
2.5°	496.5	503.5	502.6	507.0	507.9	510.5	516.7	516.7	534.2	546.5	554.5
5°	451.6	447.3	449.0	454.3	467.5	466.6	481.5	489.4	510.5	528.1	546.5
7.5°	396.3	395.4	398.9	411.2	420.9	428.8	444.6	464.8	492.9	519.3	551.8
10°	361.1	359.4	366.4	369.9	381.3	386.6	411.2	442.9	476.2	514.0	551.8
12.5°	353.2	347.1	350.6	349.7	360.3	362.9	386.6	425.3	465.7	512.3	558.8
15°	357.6	353.2	349.7	349.7	352.4	354.1	379.6	413.9	459.6	514.9	574.7
17.5°	371.7	369.0	358.5	348.0	359.4	359.4	375.2	411.2	460.4	522.8	594.0
20°	388.4	385.7	367.3	355.0	362.9	371.7	388.4	417.4	463.1	529.0	623.9
22.5°	406.8	406.8	381.3	367.3	377.8	378.7	408.6	436.7	473.6	544.8	643.2
25°	429.7	427.9	403.3	387.5	391.0	400.7	427.9	457.8	492.9	566.8	679.2
27.5°	459.6	456.9	427.9	412.1	416.5	427.0	457.8	487.7	510.5	575.5	710.0
30°	484.2	481.5	457.8	434.1	443.7	453.4	489.4	515.8	532.5	592.2	745.1
32.5°	489.4	485.0	469.2	458.7	469.2	487.7	515.8	543.0	568.5	634.4	811.9
35°	550.1	534.2	492.9	476.2	492.1	498.2	544.8	593.1	617.7	667.8	886.6
37.5°	666.0	651.1	596.6	550.1	528.1	535.1	595.7	655.5	679.2	730.2	968.3
40°	808.4	783.8	725.8	663.4	618.6	609.8	649.3	737.2	760.1	808.4	1075.5
42.5°	970.9	947.2	857.6	783.8	738.1	726.7	732.8	832.1	851.4	880.4	1145.8
45°	1087.8	1075.5	974.5	908.6	872.5	860.2	845.3	935.8	960.4	970.1	1247.7
47.5°	1155.5	1146.7	1090.4	1045.6	997.3	984.1	993.8	1079.9	1063.2	1071.1	1345.3
50°	1246.0	1223.1	1146.7	1160.7	1151.1	1147.6	1164.3	1202.0	1177.4	1154.6	1451.6
52.5°	1318.9	1278.5	1224.9	1259.2	1274.1	1287.3	1346.1	1374.3	1264.4	1229.3	1520.1
55°	1363.7	1325.1	1339.1	1370.7	1386.6	1447.2	1516.6	1495.5	1321.5	1289.0	1611.5
57.5°	1404.1	1406.8	1444.6	1454.2	1535.1	1545.6	1679.2	1610.6	1362.0	1343.5	1647.5
60°	1501.7	1492.0	1522.8	1585.1	1662.5	1721.3	1848.8	1688.0	1382.2	1371.6	1637.9
62.5°	1677.4	1617.7	1628.2	1707.3	1820.6	1884.8	1946.3	1723.1	1376.9	1376.0	1608.9
65°	1900.6	1832.1	1800.4	1874.2	2021.0	2111.5	2056.1	1762.6	1341.8	1366.4	1500.8
67.5°	2086.0	2086.9	2028.0	2069.3	2260.9	2280.2	2159.8	1754.7	1282.9	1289.9	1237.2
70°	2299.5	2328.5	2276.7	2405.8	2501.6	2513.9	2278.4	1689.7	1156.4	972.7	710.9
72.5°	2354.0	2368.9	2530.6	2729.2	2837.3	2840.8	2395.3	1472.7	760.9	429.7	220.6
75°	1848.8	1862.8	2435.7	2875.1	3035.9	3005.1	2200.2	956.0	296.1	125.7	52.7
77.5°	1031.6	1036.0	1512.2	2324.1	2575.4	2451.5	1541.2	372.6	119.5	72.1	24.6
80°	282.1	331.3	560.6	1145.8	1572.8	1543.9	733.7	121.3	77.3	56.2	11.4
82.5°	67.7	72.9	180.1	507.0	831.2	867.3	218.8	61.5	53.6	46.6	6.2
85°	24.6	27.2	55.4	246.9	427.0	391.9	65.9	30.8	39.5	36.0	2.6
87.5°	8.8	8.8	17.6	80.8	124.8	94.0	22.0	10.5	20.2	22.0	0.9
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°	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6
2.5°	555.3	555.3	567.6	578.2	581.7	586.1	581.7	591.4	590.5	586.1	587.8
5°	556.2	572.0	582.6	589.6	593.1	592.2	594.0	583.4	577.3	572.9	568.5
7.5°	560.6	575.5	594.9	593.1	583.4	563.2	547.4	519.3	492.1	491.2	486.8
10°	575.5	588.7	600.1	593.1	558.0	496.5	446.4	408.6	374.3	358.5	360.3
12.5°	586.1	610.7	605.4	569.4	496.5	415.6	341.8	286.5	255.7	226.7	226.7
15°	608.1	616.8	615.1	535.1	420.9	324.2	234.6	178.4	145.9	132.7	130.9
17.5°	629.1	638.8	608.9	483.3	346.2	217.9	142.3	110.7	106.3	104.6	105.4
20°	655.5	656.4	603.7	431.4	260.1	138.0	101.9	99.3	100.2	99.3	99.3
22.5°	683.6	689.8	585.2	358.5	173.1	100.2	94.9	95.8	95.8	95.8	98.4
25°	720.5	710.9	556.2	289.1	113.4	92.3	92.3	93.1	93.1	93.1	94.0
27.5°	745.1	731.9	519.3	208.2	88.7	87.0	88.7	88.7	90.5	90.5	90.5
30°	796.1	761.8	472.7	134.4	80.0	82.6	84.4	86.1	87.0	88.7	89.6
32.5°	835.6	788.2	414.7	89.6	72.9	74.7	79.1	82.6	86.1	85.2	85.2
35°	907.7	831.2	361.1	71.2	66.8	66.8	71.2	77.3	82.6	84.4	84.4
37.5°	990.3	866.4	286.5	65.0	61.5	61.5	64.1	71.2	78.2	81.7	80.0
40°	1058.8	906.8	211.8	60.6	57.1	57.1	58.9	64.1	72.1	78.2	79.1
42.5°	1107.1	936.7	143.2	56.2	53.6	52.7	55.4	58.0	64.1	72.9	74.7
45°	1151.1	952.5	88.7	51.8	50.1	50.1	50.1	52.7	57.1	65.0	66.8
47.5°	1229.3	970.1	64.1	48.3	45.7	46.6	47.4	48.3	51.8	53.6	54.5
50°	1295.2	983.2	52.7	44.8	43.1	43.9	43.9	43.9	45.7	43.1	43.1
52.5°	1345.3	970.1	44.8	41.3	39.5	40.4	39.5	39.5	37.8	34.3	34.3
55°	1382.2	946.3	36.0	37.8	37.8	37.8	36.0	33.4	29.9	27.2	27.2
57.5°	1391.8	905.9	28.1	31.6	34.3	34.3	30.8	27.2	22.8	20.2	19.3
60°	1376.9	818.1	21.1	22.8	26.4	27.2	24.6	20.2	15.8	13.2	13.2
62.5°	1323.3	748.6	16.7	14.9	19.3	20.2	17.6	13.2	8.8	6.2	5.3
65°	1221.4	641.4	12.3	10.5	13.2	14.1	11.4	6.2	2.6	0.9	0.0
67.5°	979.7	483.3	7.9	7.0	8.8	8.8	5.3	1.8	0.0	0.0	0.0
70°	542.1	271.5	5.3	3.5	4.4	2.6	0.9	0.0	0.0	0.0	0.0
72.5°	156.4	77.3	2.6	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	42.2	18.5	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	18.5	7.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	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)