

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: P677177

Luminaire Tested: **CCW-SA-2A-827-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677177
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-827-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
SL4 distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

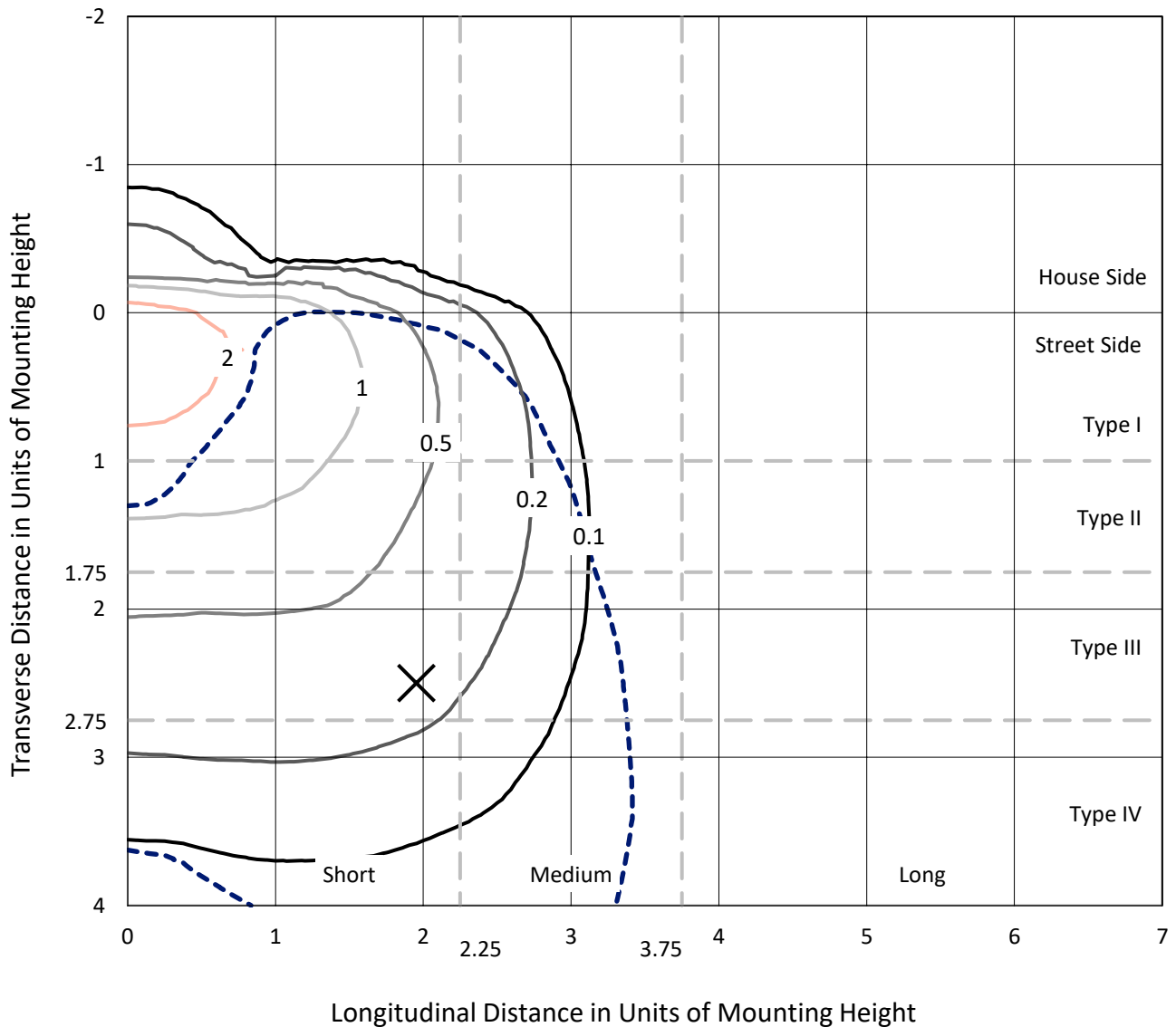
Lumens per Lamp: N/A
Luminaire Lumens: 3322.4 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

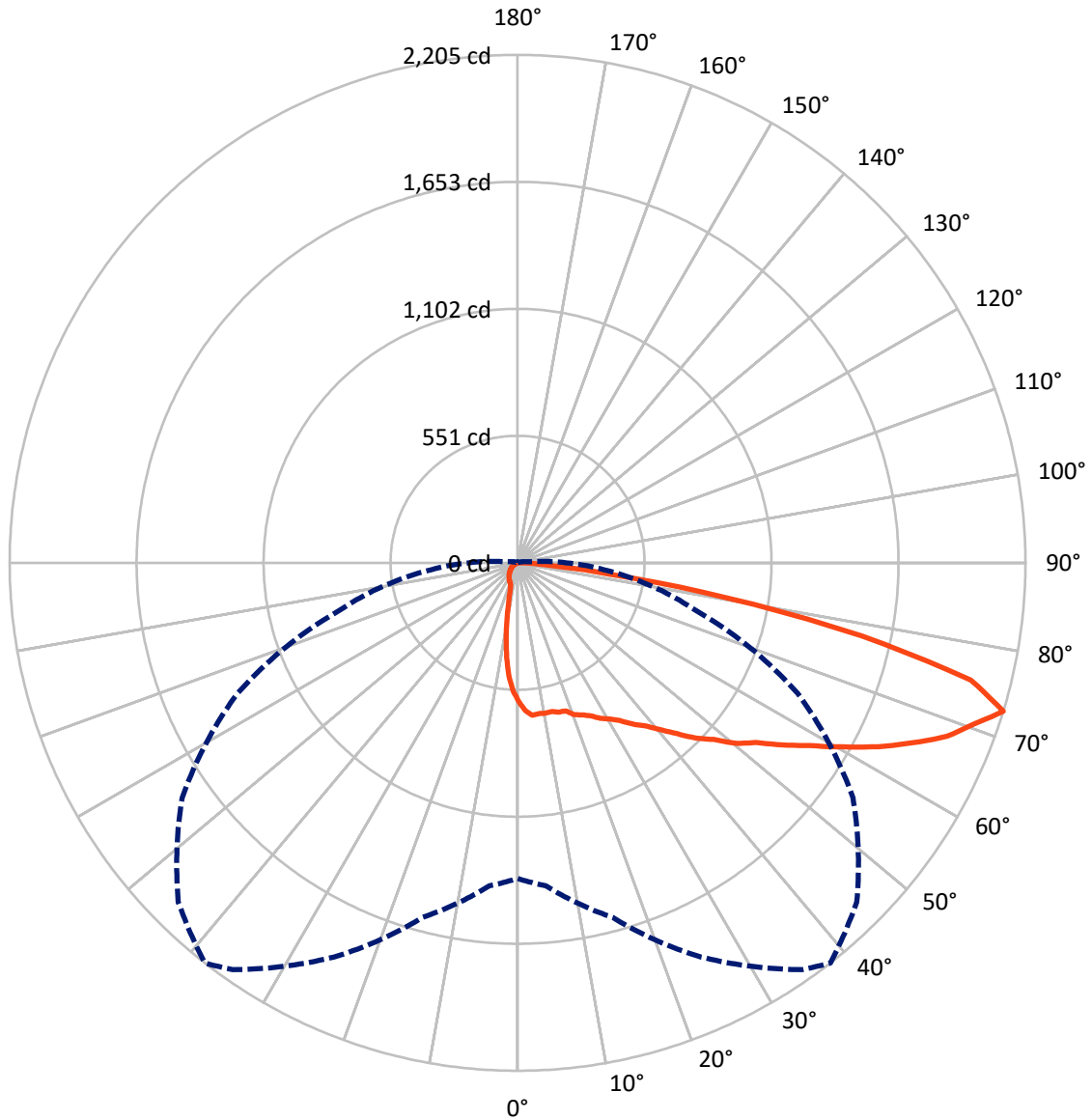
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	278.3	0.0	278.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3044.2	0.0	3044.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	3322.4	0.0	3322.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.6	1.6
10°-20°	128.8	3.9
20°-30°	206.4	6.2
30°-40°	311.6	9.4
40°-50°	474.3	14.3
50°-60°	667.8	20.1
60°-70°	815.7	24.6
70°-80°	592.3	17.8
80°-90°	72.9	2.2
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°	3322.4	100.0
0°-180°	3322.4	100.0

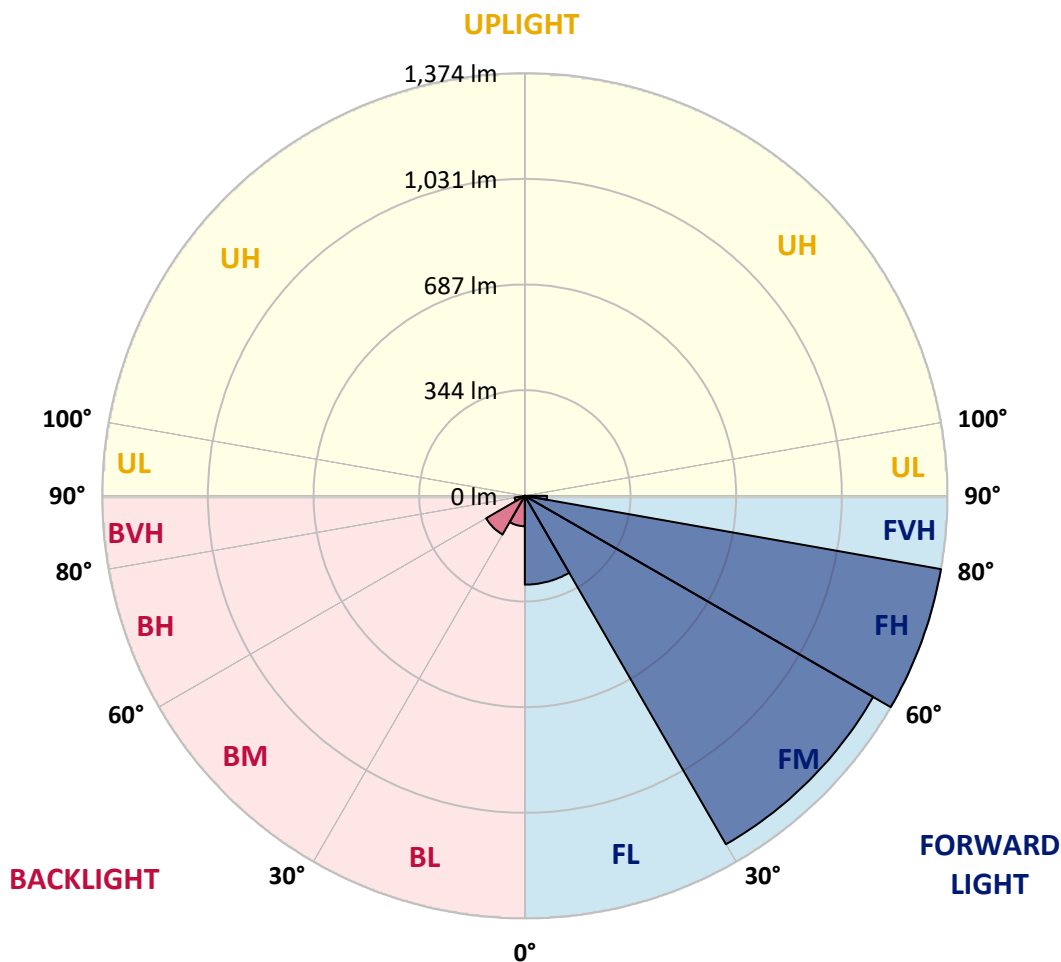


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	289.0	8.7			
FM (30°-60°)	1308.4	39.4			
FH (60°-80°)	1374.3	41.4			G1/1800
FVH (80°-90°)	72.6	2.2			G1/100
BL (0°-30°)	98.8	3.0	B0/110		
BM (30°-60°)	145.3	4.4	B0/220		
BH (60°-80°)	33.7	1.0	B0/110		G0/110
BVH (80°-90°)	0.4	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°	35°	38°	45°	55°	65°	75°	85°
0°	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8
2.5°	660.1	660.1	666.3	660.1	657.7	642.9	643.7	635.9	628.1	617.2	607.1
5°	667.8	673.3	677.2	671.7	663.2	664.7	670.2	655.4	634.3	621.1	598.5
7.5°	664.7	676.4	673.3	670.2	664.7	660.8	653.0	646.8	636.7	624.2	597.7
10°	662.4	666.3	667.1	664.7	653.0	663.9	655.4	645.2	632.8	618.0	585.2
12.5°	653.8	653.8	660.8	655.4	656.9	662.4	658.5	656.2	642.9	630.4	601.6
15°	644.5	647.6	658.5	667.1	674.9	672.5	670.2	663.2	651.5	637.5	607.1
17.5°	646.8	648.4	665.5	681.1	677.2	675.6	688.1	673.3	661.6	646.0	611.7
20°	655.4	660.1	679.5	699.8	703.7	703.7	699.0	690.4	674.1	653.0	620.3
22.5°	663.9	665.5	697.5	723.2	727.1	716.9	720.8	695.9	680.3	668.6	628.9
25°	696.7	693.6	727.8	748.1	745.8	735.6	731.7	709.9	703.7	682.7	647.6
27.5°	741.1	727.8	761.4	773.8	761.4	764.5	753.6	730.2	716.9	704.5	656.2
30°	768.4	776.2	794.1	806.6	785.5	786.3	780.8	755.1	734.9	738.0	685.0
32.5°	810.5	815.9	829.2	834.6	818.2	816.7	811.2	791.0	776.2	773.0	724.0
35°	855.7	865.8	866.6	868.1	853.3	859.5	851.8	822.9	830.7	836.2	770.7
37.5°	900.1	890.7	906.3	913.3	897.0	897.0	899.3	879.8	893.8	910.2	836.9
40°	917.2	921.1	948.4	942.9	962.4	950.7	959.3	954.6	966.3	1003.7	930.5
42.5°	935.1	939.8	976.4	986.6	1010.0	1013.8	1026.3	1027.1	1061.4	1122.9	1020.1
45°	969.4	961.6	1011.5	1036.4	1074.6	1085.5	1100.3	1112.8	1166.6	1239.1	1122.2
47.5°	1000.6	989.7	1046.6	1096.5	1143.2	1145.5	1186.1	1199.3	1263.2	1345.8	1223.5
50°	1044.2	1048.1	1072.3	1158.0	1205.6	1232.8	1260.9	1304.5	1375.4	1463.5	1296.7
52.5°	1089.4	1085.5	1126.1	1210.2	1285.0	1295.2	1358.3	1407.4	1484.5	1550.8	1329.5
55°	1144.8	1149.4	1165.0	1275.7	1370.8	1394.9	1465.8	1517.3	1601.4	1588.2	1340.4
57.5°	1200.1	1195.4	1230.5	1348.9	1478.3	1496.2	1590.5	1620.9	1677.8	1613.1	1313.1
60°	1254.6	1263.2	1278.0	1431.5	1596.0	1622.5	1697.3	1712.9	1725.3	1624.8	1292.1
62.5°	1317.0	1296.7	1342.7	1518.8	1702.0	1757.3	1816.5	1754.9	1744.0	1603.8	1243.7
65°	1348.2	1354.4	1414.4	1618.6	1843.0	1883.5	1891.3	1811.8	1755.7	1557.0	1198.5
67.5°	1396.5	1405.0	1481.4	1720.7	1987.9	2010.5	1982.5	1863.3	1745.6	1496.2	1035.7
70°	1402.7	1423.7	1571.0	1827.4	2079.1	2098.6	2076.8	1897.6	1663.8	1257.0	766.8
72.5°	1370.0	1407.4	1592.9	1888.2	2155.5	2204.6	2082.2	1776.8	1341.1	801.9	392.8
75°	1034.9	1066.1	1458.0	1797.8	2019.9	2031.6	1828.2	1356.0	763.7	273.5	100.5
77.5°	536.1	589.9	973.3	1373.9	1539.1	1526.6	1272.6	798.8	262.6	71.7	40.5
80°	307.8	321.1	425.5	771.5	967.9	920.3	703.7	344.4	115.3	35.8	26.5
82.5°	152.0	170.7	229.1	345.2	483.9	398.2	264.2	206.5	64.7	19.5	23.4
85°	32.7	34.3	116.9	165.2	196.4	129.4	90.4	173.8	23.4	11.7	22.6
87.5°	23.4	22.6	32.7	74.0	54.5	33.5	53.8	91.2	5.5	5.5	4.7
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°	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8
2.5°	600.8	593.8	586.0	571.2	567.3	565.0	551.7	551.0	548.6	543.2	540.8
5°	584.5	572.8	558.0	542.4	529.9	507.3	480.0	466.0	448.9	449.6	444.2
7.5°	582.1	560.3	539.3	506.5	466.8	424.7	382.6	355.4	335.9	324.2	326.5
10°	571.2	554.8	520.6	459.8	395.9	332.0	278.2	237.7	214.3	196.4	201.8
12.5°	575.9	543.9	495.6	414.6	323.4	244.7	177.7	138.7	121.6	115.3	116.9
15°	572.8	543.9	480.8	365.5	254.0	166.0	115.3	102.9	99.7	99.7	98.2
17.5°	582.1	550.2	455.9	317.2	182.4	110.7	99.0	96.6	94.3	94.3	94.3
20°	595.4	553.3	438.7	263.4	128.6	97.4	92.7	91.2	90.4	90.4	89.6
22.5°	596.2	550.2	406.8	204.2	99.0	92.0	88.1	87.3	87.3	85.7	85.7
25°	600.8	553.3	372.5	153.5	92.0	86.5	83.4	82.6	83.4	82.6	81.8
27.5°	612.5	558.7	338.2	112.2	86.5	81.8	79.5	78.7	78.7	78.7	77.1
30°	627.3	558.7	300.0	92.7	81.8	77.1	74.8	74.0	73.3	73.3	73.3
32.5°	658.5	576.7	253.3	82.6	75.6	71.7	69.4	69.4	68.6	68.6	67.8
35°	697.5	589.1	205.7	76.4	70.1	66.2	63.9	63.9	63.1	63.1	62.3
37.5°	745.8	620.3	157.4	71.7	64.7	60.8	58.4	58.4	58.4	57.7	57.7
40°	814.4	652.3	116.9	65.5	59.2	55.3	53.8	53.0	52.2	52.2	50.7
42.5°	887.6	701.4	87.3	60.8	54.5	51.4	49.1	46.8	46.8	44.4	44.4
45°	967.1	744.2	70.9	55.3	49.9	46.0	43.6	42.1	39.7	38.2	38.2
47.5°	1045.0	770.7	62.3	49.1	45.2	42.1	39.7	36.6	33.5	32.7	32.0
50°	1108.1	778.5	55.3	44.4	41.3	38.2	35.1	31.2	28.1	26.5	25.7
52.5°	1108.1	735.6	49.9	39.7	37.4	34.3	30.4	25.7	21.8	20.3	19.5
55°	1108.1	667.8	44.4	36.6	33.5	31.2	25.7	21.0	17.1	14.8	14.0
57.5°	1091.8	586.0	39.7	32.7	29.6	26.5	21.8	16.4	12.5	10.1	10.1
60°	1046.6	500.3	34.3	28.8	25.7	21.8	17.1	11.7	7.8	5.5	5.5
62.5°	988.9	398.2	29.6	24.2	21.0	17.9	13.2	7.8	3.1	1.6	1.6
65°	888.4	293.8	25.7	20.3	16.4	13.2	8.6	3.1	0.0	0.0	0.0
67.5°	733.3	196.4	20.3	16.4	14.0	9.4	5.5	0.8	0.0	0.0	0.0
70°	515.9	111.4	15.6	11.7	10.1	6.2	1.6	0.0	0.0	0.0	0.0
72.5°	212.0	49.1	10.9	8.6	7.0	3.1	0.0	0.0	0.0	0.0	0.0
75°	57.7	21.8	7.0	4.7	3.9	0.8	0.0	0.0	0.0	0.0	0.0
77.5°	33.5	14.8	3.1	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	26.5	7.0	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	26.5	3.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	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)