

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: P676884

Luminaire Tested: **CCW-SA-1B-827-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676884
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-827-U-SL2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SL2 distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

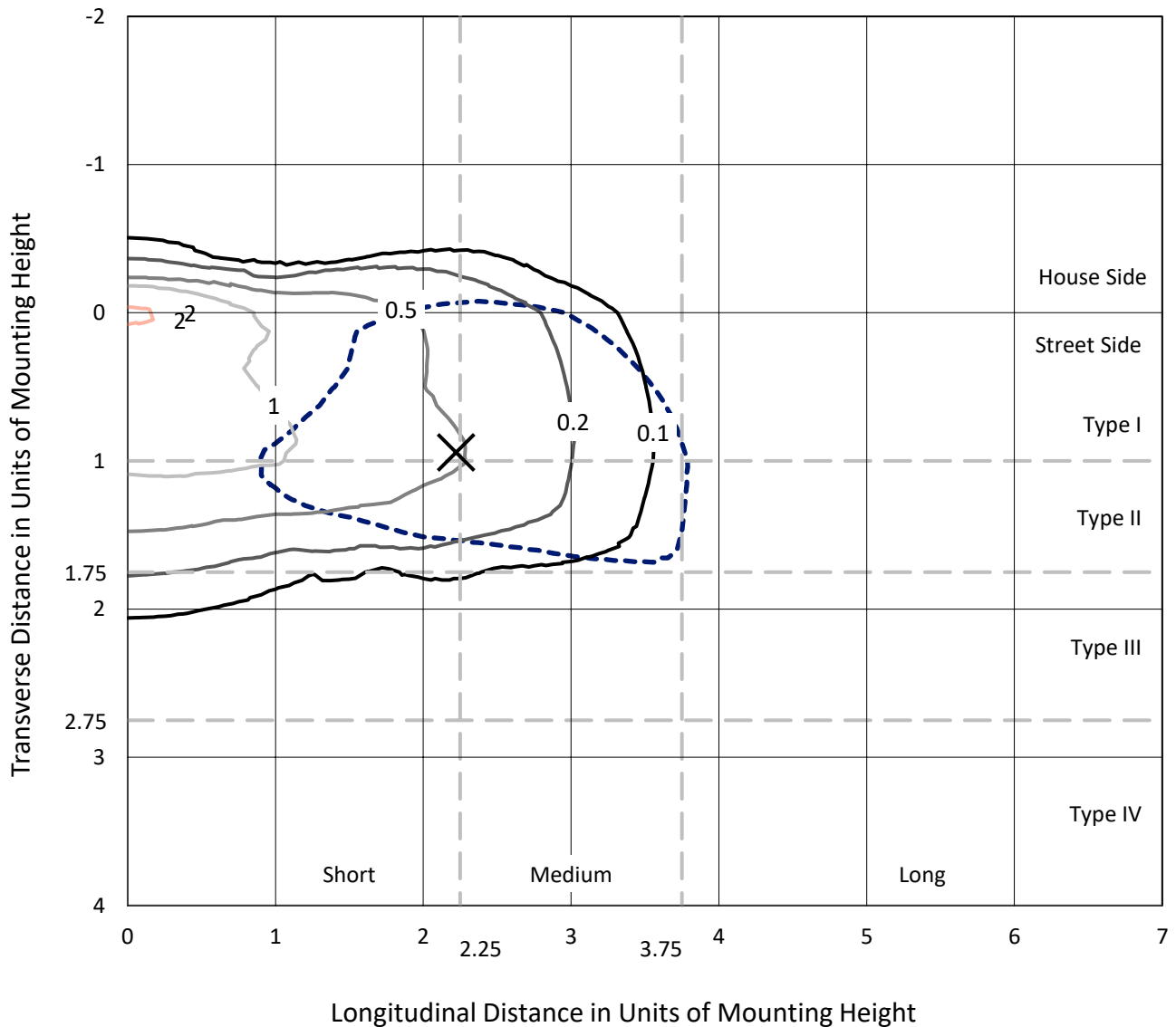
Lumens per Lamp: N/A
Luminaire Lumens: 2041.6 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 24
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

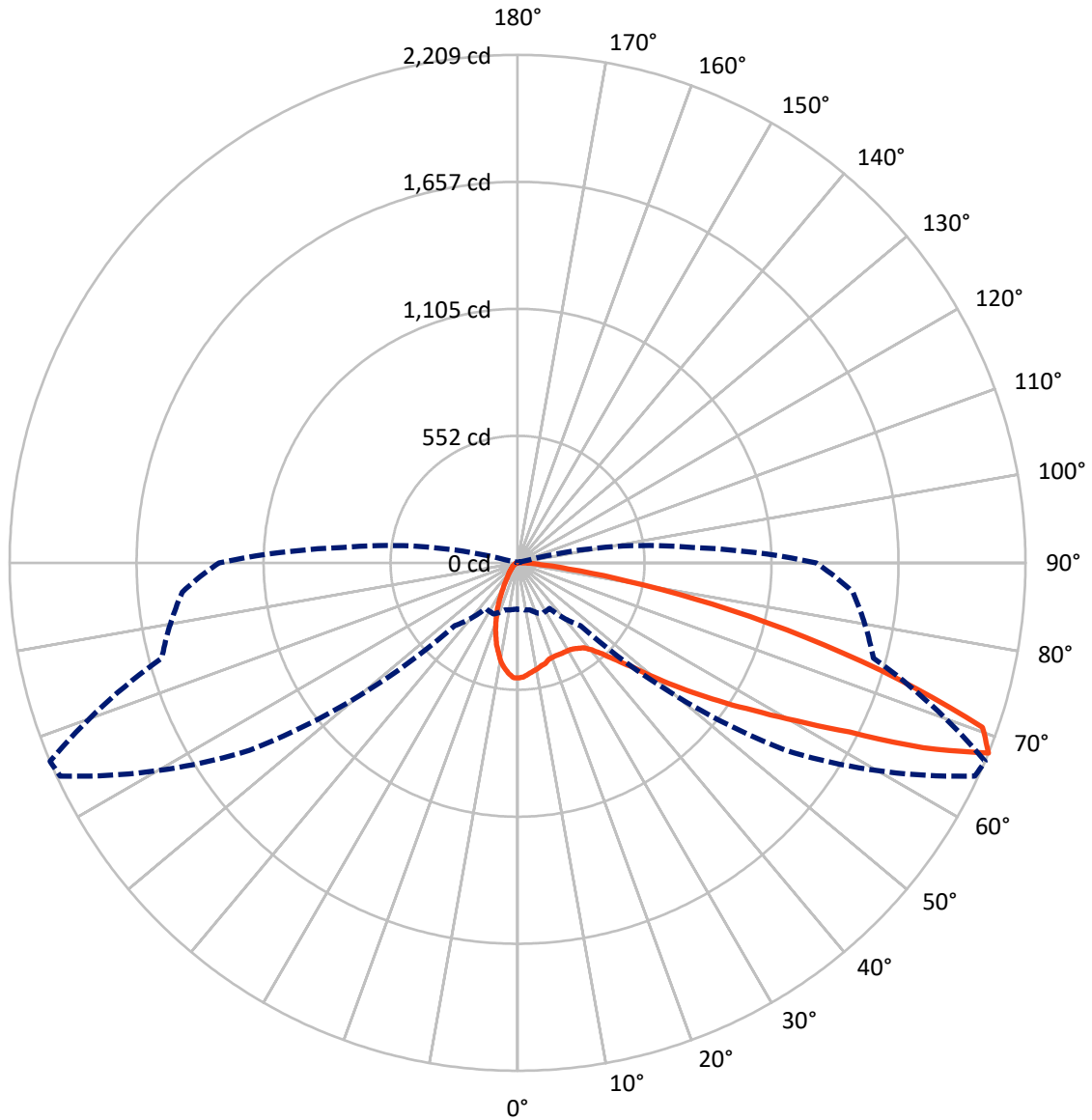
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	256.9	0.0	256.9
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	1784.6	0.0	1784.6
	% Fixture	87.4	0.0	87.4
Total	Lumens	2041.6	0.0	2041.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.2	2.1
10°-20°	93.7	4.6
20°-30°	133.3	6.5
30°-40°	194.1	9.5
40°-50°	300.4	14.7
50°-60°	461.0	22.6
60°-70°	499.7	24.5
70°-80°	281.9	13.8
80°-90°	35.4	1.7
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°	2041.6	100.0
0°-180°	2041.6	100.0

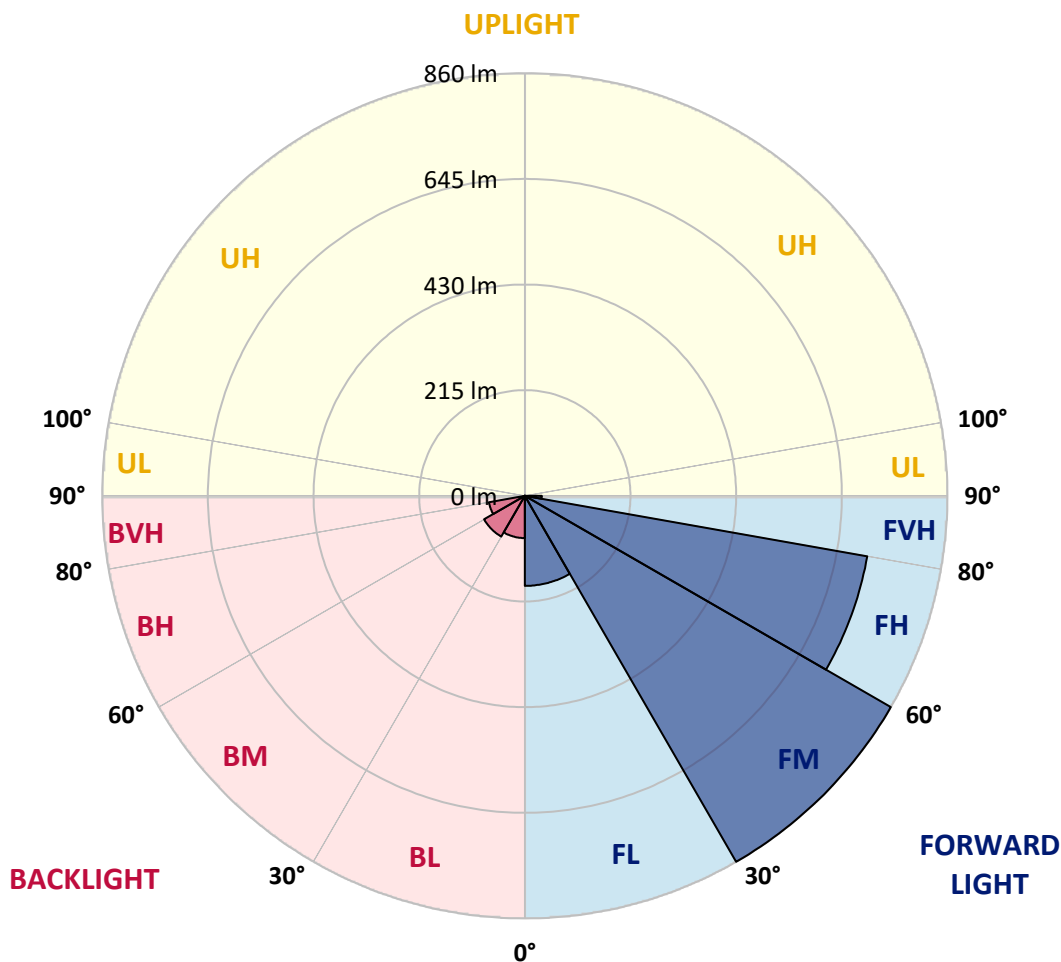


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	183.2	9.0			
FM (30°-60°)	859.7	42.1			
FH (60°-80°)	707.4	34.6			G1/1800
FVH (80°-90°)	34.4	1.7			G1/100
BL (0°-30°)	86.0	4.2	B0/110		
BM (30°-60°)	95.7	4.7	B0/220		
BH (60°-80°)	74.2	3.6	B0/110		G0/110
BVH (80°-90°)	1.0	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	500.8	500.8	500.8	500.8	500.8	500.8	500.8	500.8	500.8	500.8	500.8
2.5°	479.1	481.6	485.0	489.9	493.4	491.4	492.9	501.2	496.8	500.8	498.8
5°	452.5	455.0	459.9	459.4	463.4	470.7	480.6	491.4	486.5	498.3	502.7
7.5°	425.0	424.0	424.0	434.3	442.7	453.0	458.5	476.2	476.7	487.0	497.8
10°	399.9	402.9	407.8	411.7	419.6	434.3	450.1	463.9	469.3	489.9	492.9
12.5°	384.7	386.1	392.0	395.5	405.8	420.1	436.8	454.5	458.9	480.1	494.4
15°	378.3	381.7	383.7	390.1	395.5	408.8	421.1	441.2	454.0	470.7	488.5
17.5°	383.2	381.7	382.7	384.7	391.1	402.9	416.1	436.3	440.7	468.8	495.3
20°	389.6	390.1	387.1	386.1	384.7	396.0	406.8	432.9	437.8	468.8	499.8
22.5°	406.8	401.4	406.8	398.9	391.1	396.0	406.3	433.4	436.8	468.3	504.2
25°	428.0	428.9	430.4	413.7	402.4	398.9	409.8	434.8	437.8	472.2	506.2
27.5°	458.0	462.4	455.0	446.6	424.0	406.8	409.3	433.9	439.3	470.3	511.1
30°	498.3	494.9	495.8	476.7	454.5	427.5	420.6	436.3	440.3	472.7	520.4
32.5°	533.2	529.3	536.2	529.3	494.4	457.0	433.9	441.2	445.7	478.6	528.3
35°	554.9	559.8	570.6	578.0	548.5	495.3	456.0	454.5	456.5	481.6	534.2
37.5°	588.3	597.2	606.0	624.7	599.1	542.6	490.9	471.7	468.3	495.8	537.2
40°	624.7	622.3	648.3	670.5	669.5	609.0	539.6	502.2	497.3	518.5	556.8
42.5°	655.2	652.8	681.8	718.2	722.1	672.9	595.2	545.5	541.1	553.4	580.9
45°	695.1	697.0	731.5	774.7	789.0	757.5	670.5	607.5	605.0	601.1	626.7
47.5°	730.5	741.3	770.8	822.0	873.6	845.1	759.0	698.0	680.8	671.9	697.5
50°	755.1	764.9	800.8	855.4	949.9	968.1	858.4	794.4	794.9	773.3	787.0
52.5°	755.1	754.6	783.6	855.4	1003.0	1096.4	991.2	915.9	919.9	897.2	898.2
55°	682.3	680.8	716.2	792.5	997.1	1219.9	1192.4	1069.9	1060.0	1016.3	1020.7
57.5°	549.5	552.9	579.9	671.4	920.3	1277.5	1431.9	1243.0	1209.6	1119.1	1119.1
60°	400.9	397.9	418.1	482.1	737.4	1255.8	1628.7	1447.2	1394.5	1204.2	1191.4
62.5°	305.0	304.5	309.9	331.5	467.8	1095.0	1713.3	1706.9	1621.3	1287.8	1269.6
65°	246.4	247.4	254.8	270.1	285.8	746.7	1668.5	2016.8	1938.6	1412.2	1352.7
67.5°	201.2	203.6	212.5	245.5	242.0	386.6	1421.1	2194.4	2209.1	1602.1	1464.4
70°	154.9	158.9	169.2	215.9	233.2	257.3	985.3	2105.8	2145.2	1720.2	1397.0
72.5°	105.3	104.8	126.9	175.1	235.6	235.6	548.5	1696.1	1733.5	1585.9	1213.5
75°	57.1	60.5	84.1	132.3	215.9	227.7	312.4	1241.1	1293.7	1233.2	938.5
77.5°	31.0	31.5	46.7	86.6	179.5	217.4	208.6	844.1	864.8	743.8	514.0
80°	16.2	16.7	24.6	56.6	124.0	201.7	173.6	503.2	483.5	285.3	169.7
82.5°	7.4	7.9	12.3	35.4	79.2	158.9	150.0	243.0	224.3	79.7	51.6
85°	3.0	3.0	5.4	21.2	46.2	78.2	128.4	122.0	101.8	24.1	25.6
87.5°	1.0	1.0	1.5	8.4	18.7	46.7	68.4	64.4	44.3	8.9	13.8
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°	500.8	500.8	500.8	500.8	500.8	500.8	500.8	500.8	500.8	500.8	500.8
2.5°	496.8	502.2	500.8	499.8	490.4	489.4	488.5	479.6	482.6	475.2	480.1
5°	499.8	502.7	494.9	480.1	466.8	452.1	440.7	432.9	418.6	413.2	412.2
7.5°	496.8	496.8	480.6	457.0	430.9	406.8	376.3	354.7	338.4	326.1	330.6
10°	492.9	487.0	470.3	428.4	381.2	344.8	301.0	269.1	245.0	237.1	232.2
12.5°	492.9	482.6	445.2	388.1	327.1	272.0	219.9	178.1	154.9	141.2	139.2
15°	488.5	473.2	427.0	350.2	274.5	199.7	140.2	104.3	84.6	79.2	77.2
17.5°	489.4	471.2	399.9	305.5	213.0	132.8	85.6	65.9	61.0	58.5	59.0
20°	491.4	471.2	375.8	261.7	153.5	82.6	59.0	55.6	53.1	52.1	52.6
22.5°	497.8	461.9	351.2	216.9	103.8	59.5	52.1	48.7	46.7	45.3	44.8
25°	498.8	460.4	327.6	172.7	71.3	50.2	45.7	41.8	39.4	37.4	36.9
27.5°	497.3	454.0	294.6	128.4	53.6	44.8	38.9	34.9	31.5	30.0	29.5
30°	502.7	442.2	266.6	92.5	45.3	38.9	33.0	28.5	25.6	23.6	23.6
32.5°	503.2	431.9	235.6	65.9	41.3	34.4	28.0	23.1	20.2	19.2	19.2
35°	503.7	422.5	201.2	50.2	36.9	29.5	23.1	19.2	17.2	15.7	15.7
37.5°	505.2	415.7	169.7	42.3	33.0	25.1	19.2	15.7	13.8	13.3	13.3
40°	508.1	406.3	136.7	37.4	28.5	21.2	16.2	13.3	11.3	10.8	10.3
42.5°	516.0	403.8	109.2	33.4	25.6	17.7	13.3	10.8	9.3	8.4	7.9
45°	548.5	410.2	84.6	31.0	21.6	14.8	11.3	8.9	6.9	6.4	5.9
47.5°	601.6	431.4	66.9	27.5	18.2	12.3	9.3	6.9	5.4	4.9	4.4
50°	682.3	479.6	54.6	24.6	15.2	10.3	7.4	5.4	3.9	3.4	3.4
52.5°	788.0	544.5	47.2	21.6	12.3	8.9	5.9	3.9	3.0	2.5	2.5
55°	896.2	621.3	44.3	18.7	10.3	7.4	4.4	3.0	2.0	1.5	1.5
57.5°	995.6	671.0	42.8	15.2	8.9	5.4	3.4	2.0	1.0	0.5	0.5
60°	1057.6	707.4	38.4	12.3	6.9	4.4	2.5	1.0	0.5	0.0	0.0
62.5°	1139.2	744.2	31.5	9.3	4.9	3.0	1.5	0.5	0.0	0.0	0.0
65°	1247.0	785.6	24.6	7.4	3.9	2.0	1.0	0.5	0.0	0.0	0.0
67.5°	1298.6	763.9	16.7	5.4	2.5	1.0	0.5	0.0	0.0	0.0	0.0
70°	1195.3	643.4	11.8	3.9	1.5	0.5	0.5	0.0	0.0	0.0	0.0
72.5°	1005.0	504.2	8.9	2.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0
75°	740.8	315.3	6.9	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	393.0	117.6	4.9	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	116.1	34.4	3.4	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	38.4	10.3	2.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.7	3.9	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.3	1.5	1.0	1.0	0.5	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)