

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: P677138

Luminaire Tested: **CCW-SA-1A-740-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677138
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-740-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
SL4 distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

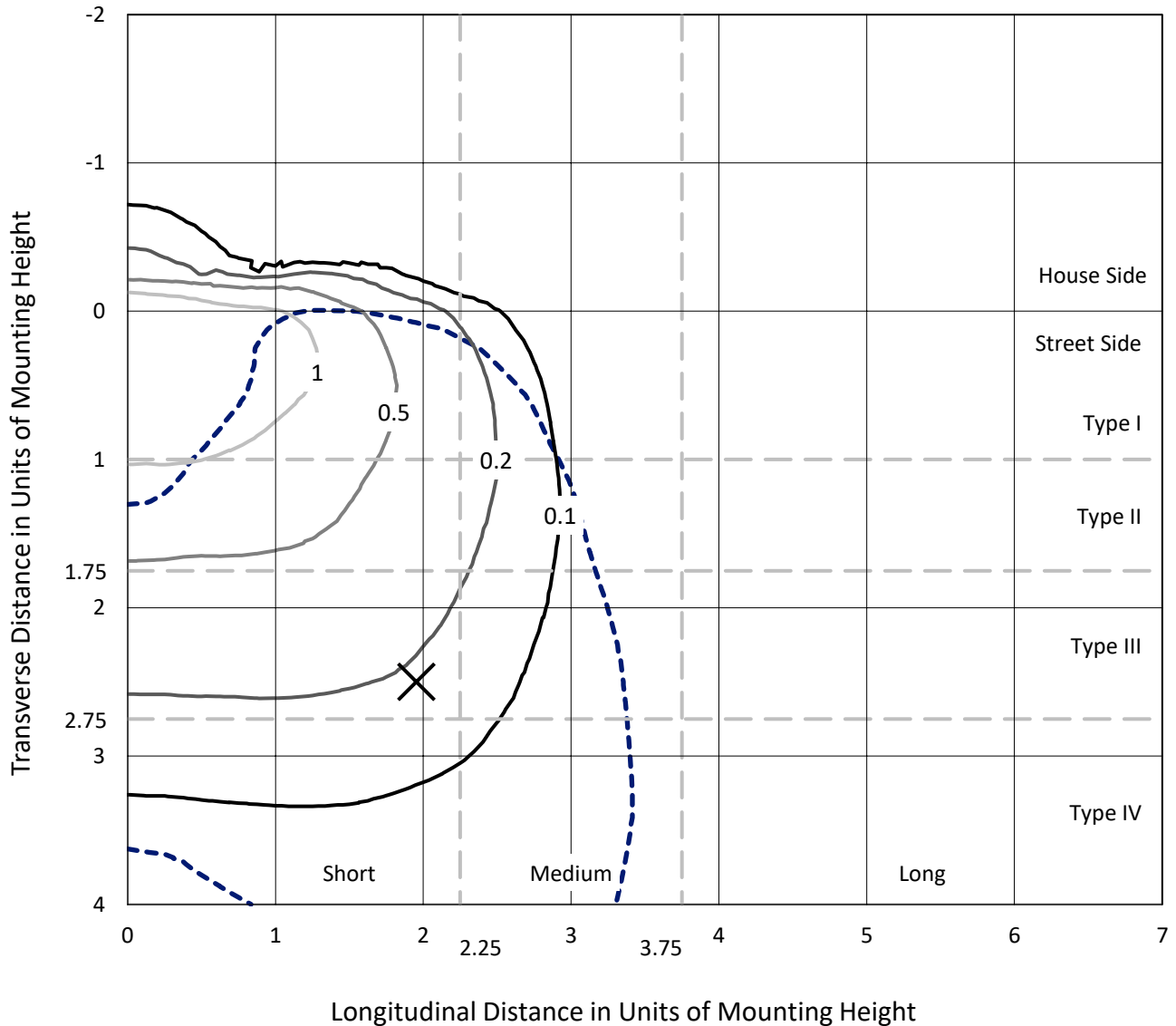
Lumens per Lamp: N/A
Luminaire Lumens: 2259.9 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 18
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

REPORT NUMBER: P677138
 CATALOG NUMBER: CCW-SA-1A-740-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

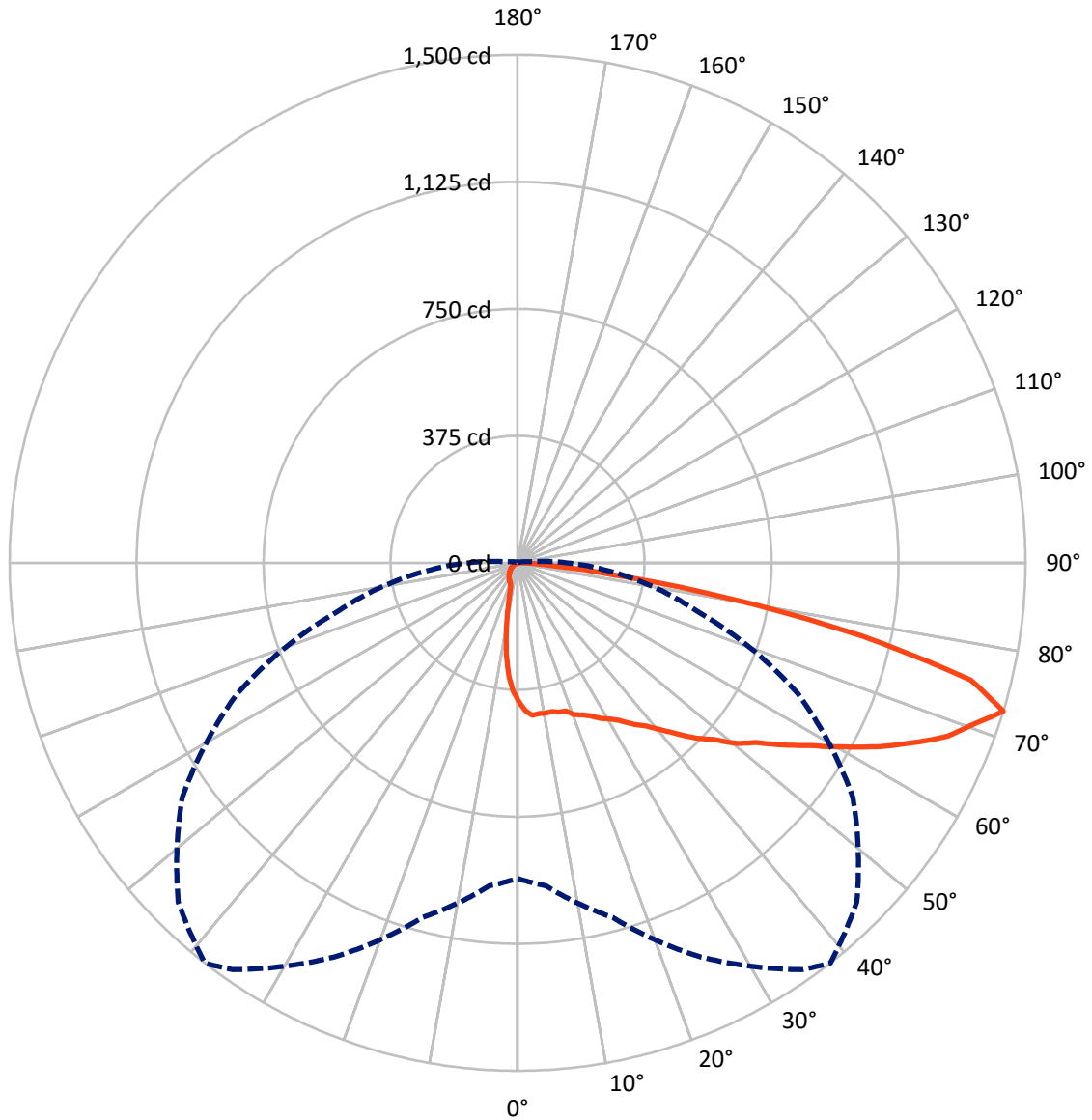
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2 fc
 Type IV - Short - N/A

REPORT NUMBER: P677138
CATALOG NUMBER: CCW-SA-1A-740-U-SL4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P677138
 CATALOG NUMBER: CCW-SA-1A-740-U-SL4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	189.3	0.0	189.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	2070.6	0.0	2070.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	2259.9	0.0	2259.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.8	1.6
10°-20°	87.6	3.9
20°-30°	140.4	6.2
30°-40°	212.0	9.4
40°-50°	322.6	14.3
50°-60°	454.2	20.1
60°-70°	554.8	24.6
70°-80°	402.9	17.8
80°-90°	49.6	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°	2259.9	100.0
0°-180°	2259.9	100.0



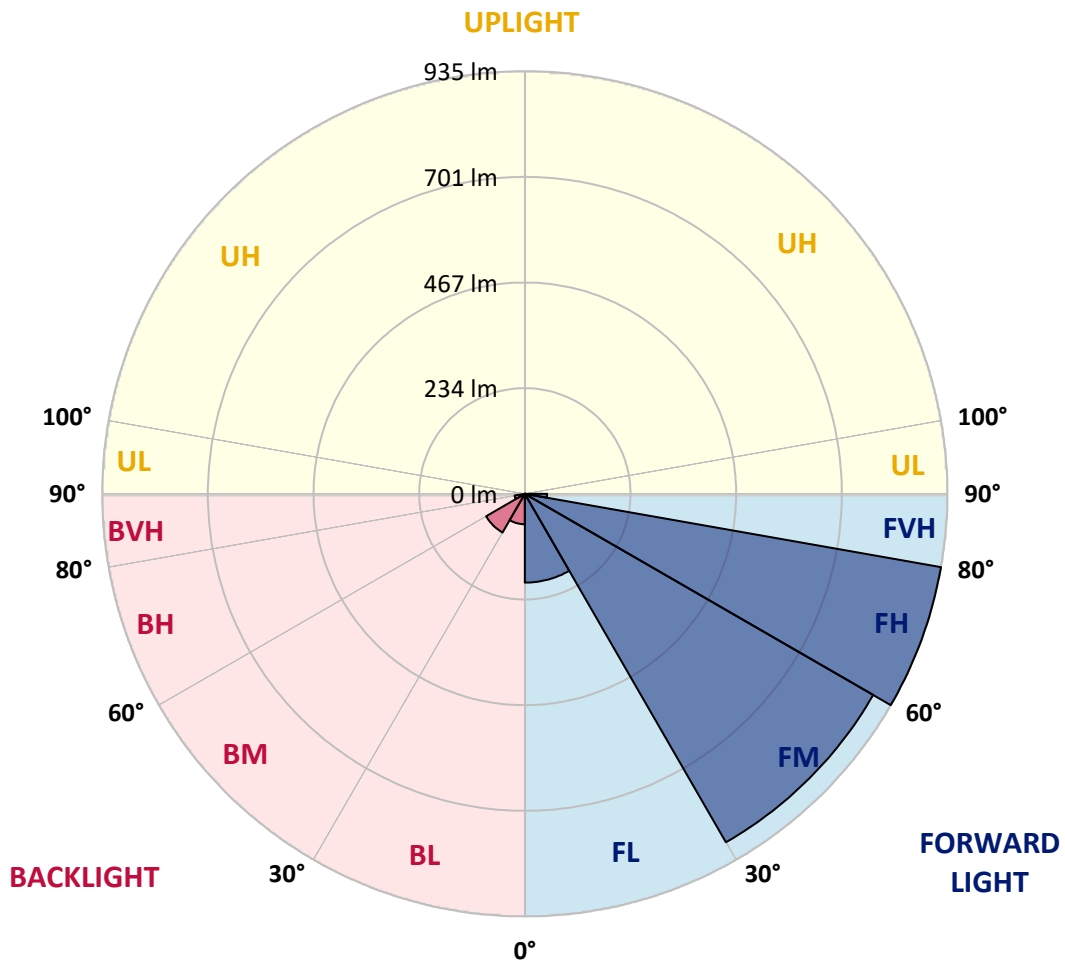
REPORT NUMBER: P677138
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	196.6	8.7			
FM (30°-60°)	889.9	39.4			
FH (60°-80°)	934.7	41.4			G1/1800
FVH (80°-90°)	49.4	2.2			G1/100
BL (0°-30°)	67.2	3.0	B0/110		
BM (30°-60°)	98.9	4.4	B0/220		
BH (60°-80°)	22.9	1.0	B0/110		G0/110
BVH (80°-90°)	0.3	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





REPORT NUMBER: P677138

CATALOG NUMBER: CCW-SA-1A-740-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7
2.5°	449.0	449.0	453.2	449.0	447.4	437.3	437.8	432.5	427.2	419.8	412.9
5°	454.3	458.0	460.6	456.9	451.1	452.1	455.8	445.8	431.5	422.5	407.1
7.5°	452.1	460.1	458.0	455.8	452.1	449.5	444.2	439.9	433.1	424.6	406.5
10°	450.5	453.2	453.7	452.1	444.2	451.6	445.8	438.9	430.4	420.3	398.1
12.5°	444.7	444.7	449.5	445.8	446.8	450.5	447.9	446.3	437.3	428.8	409.2
15°	438.4	440.5	447.9	453.7	459.0	457.4	455.8	451.1	443.1	433.6	412.9
17.5°	439.9	441.0	452.7	463.3	460.6	459.6	468.0	458.0	450.0	439.4	416.1
20°	445.8	449.0	462.2	476.0	478.6	478.6	475.5	469.6	458.5	444.2	421.9
22.5°	451.6	452.7	474.4	491.9	494.5	487.6	490.3	473.3	462.7	454.8	427.8
25°	473.9	471.7	495.1	508.8	507.3	500.4	497.7	482.9	478.6	464.3	440.5
27.5°	504.1	495.1	517.9	526.3	517.9	520.0	512.6	496.7	487.6	479.2	446.3
30°	522.6	527.9	540.1	548.6	534.3	534.8	531.1	513.6	499.8	502.0	465.9
32.5°	551.3	555.0	564.0	567.7	556.6	555.5	551.8	538.0	527.9	525.8	492.4
35°	582.0	588.9	589.4	590.5	580.4	584.6	579.3	559.7	565.0	568.7	524.2
37.5°	612.2	605.8	616.5	621.2	610.1	610.1	611.7	598.4	608.0	619.1	569.3
40°	623.9	626.5	645.1	641.4	654.6	646.7	652.5	649.3	657.3	682.7	632.9
42.5°	636.1	639.2	664.2	671.0	686.9	689.6	698.1	698.6	721.9	763.8	693.8
45°	659.4	654.1	688.0	705.0	730.9	738.4	748.4	756.9	793.5	842.8	763.3
47.5°	680.6	673.2	711.9	745.8	777.6	779.2	806.7	815.8	859.2	915.4	832.2
50°	710.3	712.9	729.4	787.7	820.0	838.5	857.6	887.3	935.5	995.4	882.0
52.5°	741.0	738.4	765.9	823.2	874.1	880.9	923.9	957.3	1009.7	1054.8	904.3
55°	778.6	781.8	792.4	867.7	932.4	948.8	997.0	1032.0	1089.3	1080.2	911.7
57.5°	816.3	813.1	837.0	917.5	1005.5	1017.7	1081.8	1102.5	1141.2	1097.2	893.1
60°	853.4	859.2	869.3	973.7	1085.5	1103.6	1154.5	1165.1	1173.5	1105.2	878.8
62.5°	895.8	882.0	913.3	1033.1	1157.6	1195.3	1235.6	1193.7	1186.3	1090.8	846.0
65°	917.0	921.2	962.0	1100.9	1253.6	1281.1	1286.4	1232.4	1194.2	1059.0	815.2
67.5°	949.9	955.7	1007.6	1170.4	1352.2	1367.5	1348.5	1267.4	1187.3	1017.7	704.4
70°	954.1	968.4	1068.6	1243.0	1414.2	1427.4	1412.6	1290.7	1131.7	855.0	521.6
72.5°	931.8	957.3	1083.4	1284.3	1466.1	1499.5	1416.3	1208.5	912.2	545.4	267.1
75°	703.9	725.1	991.7	1222.8	1373.9	1381.8	1243.5	922.3	519.5	186.0	68.4
77.5°	364.7	401.2	662.0	934.5	1046.9	1038.4	865.6	543.3	178.6	48.8	27.6
80°	209.4	218.4	289.4	524.8	658.3	626.0	478.6	234.3	78.4	24.4	18.0
82.5°	103.4	116.1	155.8	234.8	329.2	270.9	179.7	140.5	44.0	13.3	15.9
85°	22.3	23.3	79.5	112.4	133.6	88.0	61.5	118.2	15.9	8.0	15.4
87.5°	15.9	15.4	22.3	50.4	37.1	22.8	36.6	62.0	3.7	3.7	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P677138

CATALOG NUMBER: CCW-SA-1A-740-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7
2.5°	408.7	403.9	398.6	388.5	385.9	384.3	375.3	374.7	373.2	369.4	367.9
5°	397.5	389.6	379.5	368.9	360.4	345.1	326.5	317.0	305.3	305.8	302.1
7.5°	395.9	381.1	366.8	344.5	317.5	288.9	260.3	241.7	228.5	220.5	222.1
10°	388.5	377.4	354.1	312.7	269.3	225.8	189.2	161.7	145.8	133.6	137.3
12.5°	391.7	370.0	337.1	282.0	220.0	166.4	120.9	94.3	82.7	78.4	79.5
15°	389.6	370.0	327.0	248.6	172.8	112.9	78.4	70.0	67.8	67.8	66.8
17.5°	395.9	374.2	310.1	215.7	124.0	75.3	67.3	65.7	64.1	64.1	64.1
20°	405.0	376.3	298.4	179.2	87.5	66.3	63.1	62.0	61.5	61.5	61.0
22.5°	405.5	374.2	276.7	138.9	67.3	62.5	59.9	59.4	59.4	58.3	58.3
25°	408.7	376.3	253.4	104.4	62.5	58.8	56.7	56.2	56.7	56.2	55.7
27.5°	416.6	380.0	230.0	76.3	58.8	55.7	54.1	53.5	53.5	53.5	52.5
30°	426.7	380.0	204.1	63.1	55.7	52.5	50.9	50.4	49.8	49.8	49.8
32.5°	447.9	392.2	172.3	56.2	51.4	48.8	47.2	47.2	46.6	46.6	46.1
35°	474.4	400.7	139.9	51.9	47.7	45.1	43.5	43.5	42.9	42.9	42.4
37.5°	507.3	421.9	107.1	48.8	44.0	41.3	39.8	39.8	39.8	39.2	39.2
40°	553.9	443.7	79.5	44.5	40.3	37.6	36.6	36.0	35.5	35.5	34.5
42.5°	603.7	477.0	59.4	41.3	37.1	35.0	33.4	31.8	31.8	30.2	30.2
45°	657.8	506.2	48.2	37.6	33.9	31.3	29.7	28.6	27.0	26.0	26.0
47.5°	710.8	524.2	42.4	33.4	30.7	28.6	27.0	24.9	22.8	22.3	21.7
50°	753.7	529.5	37.6	30.2	28.1	26.0	23.9	21.2	19.1	18.0	17.5
52.5°	753.7	500.4	33.9	27.0	25.4	23.3	20.7	17.5	14.8	13.8	13.3
55°	753.7	454.3	30.2	24.9	22.8	21.2	17.5	14.3	11.7	10.1	9.5
57.5°	742.6	398.6	27.0	22.3	20.1	18.0	14.8	11.1	8.5	6.9	6.9
60°	711.9	340.3	23.3	19.6	17.5	14.8	11.7	8.0	5.3	3.7	3.7
62.5°	672.6	270.9	20.1	16.4	14.3	12.2	9.0	5.3	2.1	1.1	1.1
65°	604.3	199.8	17.5	13.8	11.1	9.0	5.8	2.1	0.0	0.0	0.0
67.5°	498.8	133.6	13.8	11.1	9.5	6.4	3.7	0.5	0.0	0.0	0.0
70°	350.9	75.8	10.6	8.0	6.9	4.2	1.1	0.0	0.0	0.0	0.0
72.5°	144.2	33.4	7.4	5.8	4.8	2.1	0.0	0.0	0.0	0.0	0.0
75°	39.2	14.8	4.8	3.2	2.7	0.5	0.0	0.0	0.0	0.0	0.0
77.5°	22.8	10.1	2.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	18.0	4.8	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.0	2.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	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)