

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: P675620

Luminaire Tested: **CCW-SA-1A-840-U-SL3**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675620  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1A-840-U-SL3  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/  
SL3 distribution lens  
Light Source: (16) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

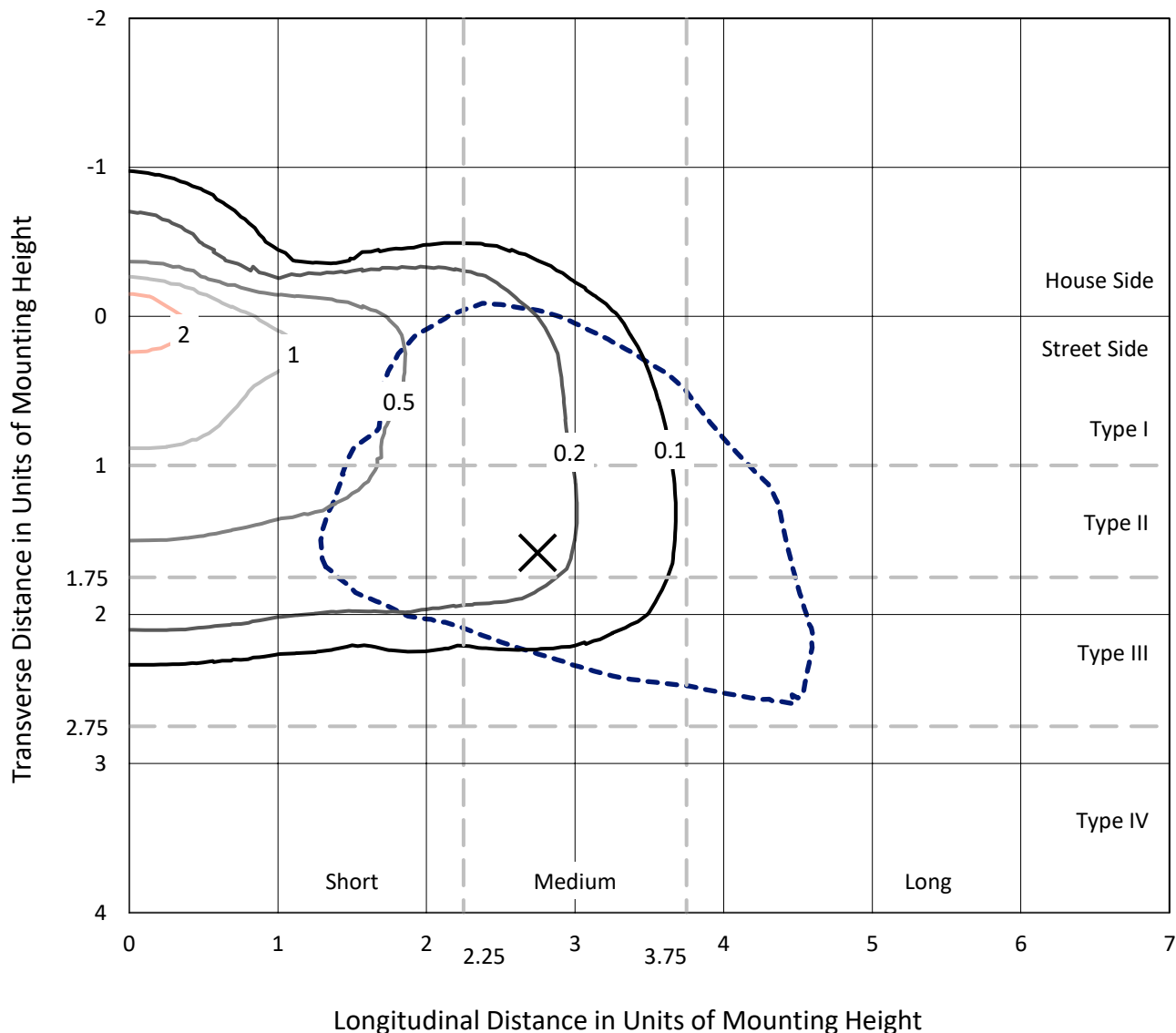
Lumens per Lamp: N/A  
Luminaire Lumens: 2306.3 lumens  
Efficiency: N/A  
Efficacy: 128.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 18  
Input Voltage (V): 120  
Input Current (Ain): 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

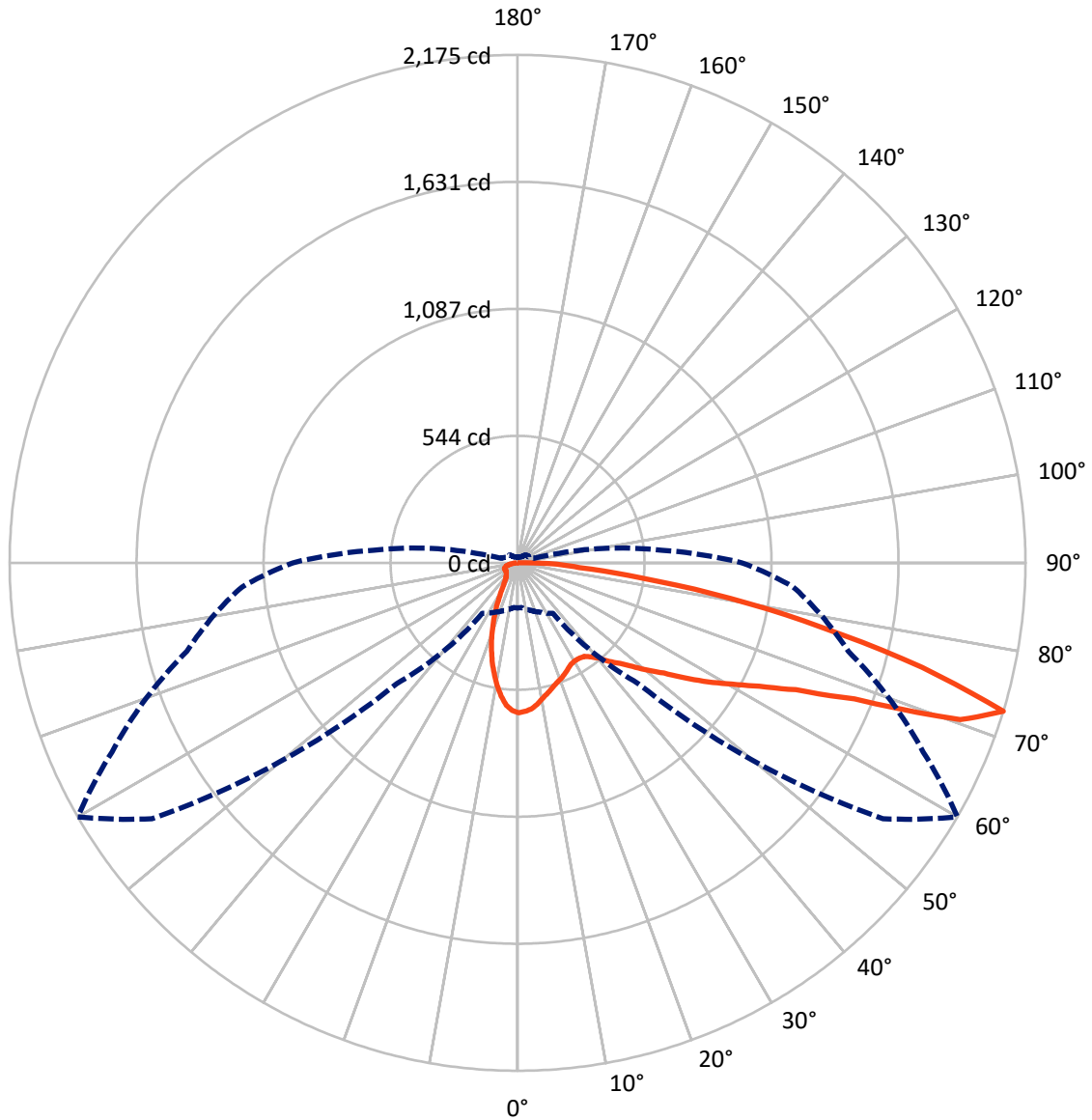
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	396.2	0.0	396.2
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	1910.1	0.0	1910.1
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	2306.3	0.0	2306.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.7	2.4
10°-20°	126.2	5.5
20°-30°	161.5	7.0
30°-40°	206.7	9.0
40°-50°	283.4	12.3
50°-60°	409.9	17.8
60°-70°	562.4	24.4
70°-80°	422.0	18.3
80°-90°	78.4	3.4
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°	2306.3	100.0
0°-180°	2306.3	100.0

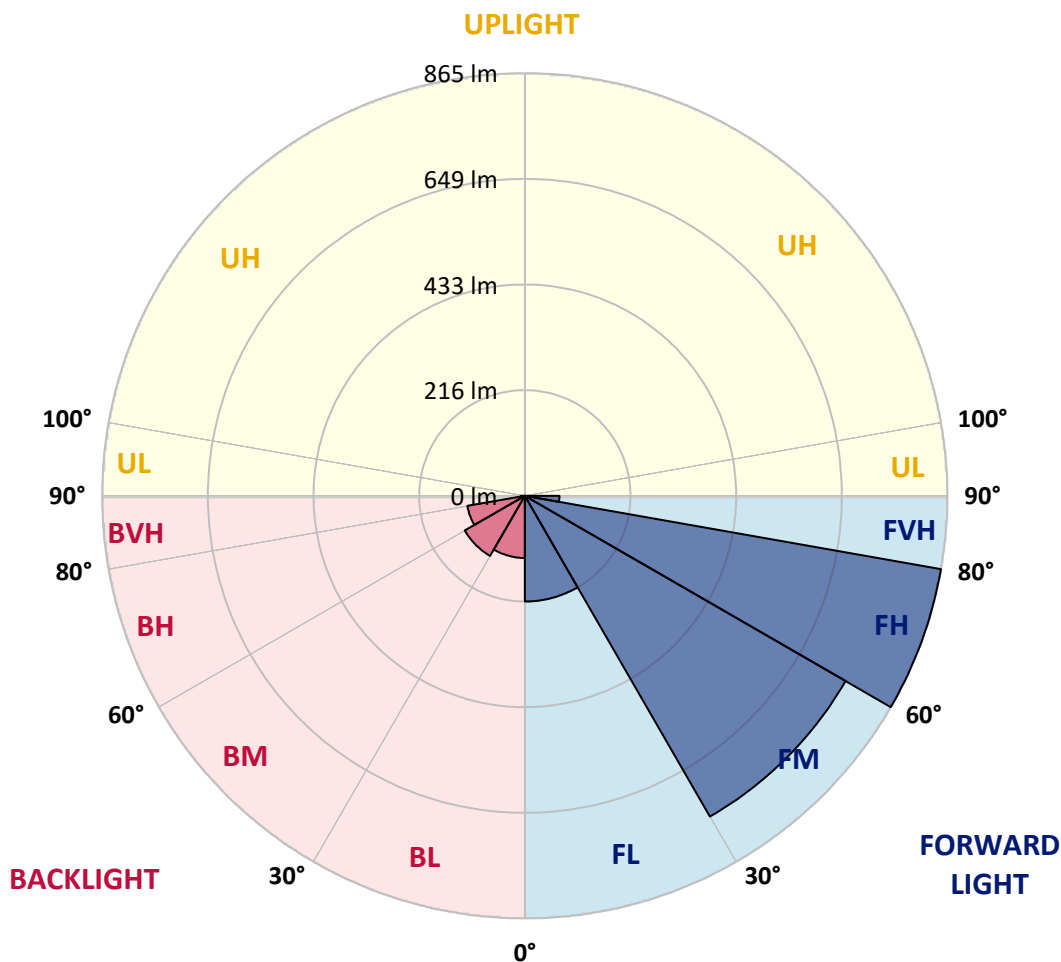


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	216.2	9.4			
FM (30°-60°)	758.1	32.9			
FH (60°-80°)	865.0	37.5			G1/1800
FVH (80°-90°)	70.8	3.1			G1/100
BL (0°-30°)	127.2	5.5	B1/500		
BM (30°-60°)	142.0	6.2	B0/220		
BH (60°-80°)	119.4	5.2	B1/500		G1/500
BVH (80°-90°)	7.6	0.3			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	642.2	642.2	642.2	642.2	642.2	642.2	642.2	642.2	642.2	642.2	642.2
2.5°	628.5	634.5	636.2	636.2	641.3	635.3	643.9	637.0	638.8	641.3	639.6
5°	598.4	608.7	602.7	613.9	609.6	617.3	627.6	627.6	625.0	630.2	625.9
7.5°	569.2	565.8	576.1	576.1	582.9	593.3	601.8	610.4	611.3	613.0	612.1
10°	529.7	534.0	539.2	546.0	554.6	564.9	582.9	589.8	591.5	601.8	599.3
12.5°	497.1	503.1	506.5	520.3	528.0	542.6	563.2	572.6	573.5	588.1	588.1
15°	473.1	476.5	484.2	489.4	506.5	527.1	546.9	555.5	564.9	580.4	576.1
17.5°	456.7	461.0	464.5	471.3	487.7	504.8	535.7	540.9	552.0	574.4	569.2
20°	447.3	448.2	453.3	457.6	472.2	488.5	516.0	529.7	544.3	564.1	558.9
22.5°	449.0	445.6	444.7	450.7	453.3	468.8	502.2	516.8	537.4	560.6	552.0
25°	452.5	453.3	451.6	446.4	447.3	461.0	483.4	502.2	525.4	559.8	542.6
27.5°	461.0	465.3	458.5	453.3	448.2	453.3	476.5	490.2	516.0	564.1	541.7
30°	469.6	473.9	472.2	464.5	454.2	452.5	468.8	485.9	510.8	567.5	541.7
32.5°	482.5	488.5	482.5	485.1	473.1	465.3	471.3	486.8	516.0	579.5	542.6
35°	497.1	502.2	504.0	498.0	495.4	480.8	484.2	491.9	521.1	593.3	551.2
37.5°	513.4	519.4	524.6	525.4	516.8	508.3	506.5	510.8	534.0	617.3	560.6
40°	524.6	528.0	538.3	546.9	549.5	537.4	536.6	536.6	557.2	638.8	577.8
42.5°	543.5	541.7	556.3	571.8	576.1	569.2	570.9	577.8	589.8	669.7	605.3
45°	552.9	551.2	568.4	594.1	613.9	610.4	612.1	614.7	625.9	718.6	651.6
47.5°	565.8	567.5	592.4	621.6	642.2	654.2	663.7	662.8	671.4	768.4	703.1
50°	578.7	582.1	612.1	643.0	679.1	699.7	713.4	722.9	731.5	820.8	762.4
52.5°	603.6	607.0	640.5	674.0	720.3	750.4	784.7	783.8	784.7	873.1	821.6
55°	639.6	640.5	660.2	698.9	761.5	816.5	863.7	868.8	854.2	938.4	889.4
57.5°	680.8	684.3	701.4	730.6	794.1	880.0	952.1	962.4	922.9	991.6	951.3
60°	719.5	722.0	748.6	782.1	850.8	959.8	1041.4	1053.4	1010.5	1056.9	1015.7
62.5°	675.7	688.5	735.8	812.2	950.4	1080.9	1154.7	1162.5	1095.5	1123.0	1084.3
65°	540.9	549.5	617.3	740.9	957.3	1300.7	1329.9	1309.3	1212.3	1208.0	1188.2
67.5°	301.3	308.2	354.6	484.2	806.2	1383.1	1706.8	1555.7	1393.4	1335.9	1329.0
70°	237.8	239.5	245.5	272.2	447.3	1219.1	2003.8	2010.7	1689.6	1511.9	1359.1
72.5°	193.2	192.3	210.3	233.5	264.4	731.5	1910.3	2174.7	1916.3	1465.5	1183.9
75°	147.7	150.2	173.4	206.9	242.1	344.3	1425.2	1789.2	1795.2	1365.9	998.5
77.5°	112.5	113.3	139.1	182.9	237.0	243.0	929.8	1333.3	1339.3	1057.7	550.3
80°	84.1	84.1	105.6	154.5	230.9	224.1	572.6	924.6	837.1	371.7	120.2
82.5°	48.1	51.5	70.4	117.6	209.5	215.5	322.8	529.7	353.7	101.3	55.8
85°	25.8	26.6	42.9	79.0	172.6	206.0	246.4	263.6	140.8	54.1	25.8
87.5°	9.4	9.4	19.7	40.4	109.0	152.8	195.7	168.3	80.7	24.9	12.9
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°	642.2	642.2	642.2	642.2	642.2	642.2	642.2	642.2	642.2	642.2	642.2
2.5°	641.3	637.9	635.3	637.9	628.5	624.2	629.3	626.7	621.6	619.0	617.3
5°	628.5	624.2	619.9	617.3	607.0	596.7	591.5	581.2	572.6	575.2	570.1
7.5°	614.7	610.4	597.5	585.5	564.9	544.3	534.9	520.3	515.1	510.8	508.3
10°	597.5	589.8	570.1	546.0	516.0	492.8	468.8	451.6	433.6	425.8	428.4
12.5°	576.1	571.8	540.9	504.0	461.9	423.3	394.9	367.5	343.4	330.5	327.1
15°	566.6	553.8	509.1	460.2	406.9	358.9	316.8	268.7	240.4	226.7	226.7
17.5°	556.3	532.3	479.1	412.1	351.1	289.3	230.1	186.3	164.0	156.3	156.3
20°	540.0	513.4	443.9	366.6	292.8	218.1	164.8	140.8	133.9	128.8	129.6
22.5°	528.0	495.4	411.2	322.0	231.8	162.3	129.6	121.9	119.3	117.6	118.5
25°	514.3	473.9	376.9	273.9	182.0	127.9	112.5	109.0	110.8	111.6	111.6
27.5°	503.1	455.9	341.7	222.4	137.4	108.2	101.3	100.4	103.9	105.6	106.5
30°	495.4	439.6	307.4	175.1	109.9	96.2	92.7	92.7	97.0	98.7	99.6
32.5°	487.7	425.8	270.4	133.9	93.6	85.9	85.0	85.9	88.4	88.4	89.3
35°	490.2	413.0	235.2	108.2	84.1	79.0	79.0	79.0	79.8	80.7	80.7
37.5°	495.4	409.5	197.5	91.0	77.3	73.8	73.8	73.0	73.8	73.0	73.8
40°	500.5	404.4	163.1	80.7	73.0	70.4	69.5	67.8	67.0	67.0	67.8
42.5°	522.0	411.2	133.9	73.8	69.5	67.8	65.2	63.5	62.7	62.7	62.7
45°	549.5	424.1	110.8	70.4	67.0	62.7	61.0	60.1	58.4	59.2	60.1
47.5°	590.7	443.9	97.0	67.8	64.4	59.2	57.5	55.8	55.8	57.5	57.5
50°	644.8	476.5	88.4	65.2	61.8	56.7	54.1	53.2	53.2	55.8	55.8
52.5°	703.1	514.3	85.0	64.4	59.2	54.1	51.5	50.7	50.7	54.1	54.1
55°	761.5	560.6	87.6	64.4	57.5	51.5	48.9	47.2	48.1	50.7	50.7
57.5°	825.9	610.4	100.4	64.4	55.8	50.7	47.2	44.6	45.5	46.4	46.4
60°	896.3	675.7	122.8	64.4	54.9	48.9	44.6	41.2	41.2	42.1	42.1
62.5°	967.6	740.1	154.5	65.2	55.8	48.1	41.2	37.8	36.9	37.8	37.8
65°	1061.2	843.1	186.3	65.2	58.4	46.4	38.6	34.3	33.5	33.5	34.3
67.5°	1192.5	916.9	144.2	62.7	60.1	46.4	36.1	31.8	30.0	30.0	30.0
70°	1123.0	773.5	91.9	58.4	57.5	48.1	34.3	29.2	27.5	26.6	26.6
72.5°	961.6	619.0	73.8	54.9	53.2	47.2	32.6	27.5	24.9	24.0	24.0
75°	771.0	488.5	64.4	49.8	46.4	39.5	30.0	24.9	23.2	21.5	21.5
77.5°	377.8	204.3	48.9	43.8	39.5	30.0	26.6	23.2	20.6	18.9	18.9
80°	94.4	71.3	36.1	34.3	29.2	23.2	21.5	19.7	18.0	16.3	16.3
82.5°	50.7	42.1	25.8	23.2	19.7	16.3	16.3	15.5	14.6	12.9	12.0
85°	25.8	24.9	17.2	15.5	12.9	10.3	11.2	11.2	10.3	7.7	7.7
87.5°	13.7	13.7	8.6	6.9	6.0	5.2	5.2	5.2	4.3	3.4	3.4
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)