

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: P675632

Luminaire Tested: **CCW-SA-1B-850-U-SL3**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675632  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1B-850-U-SL3  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
SL3 distribution lens  
Light Source: (16) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

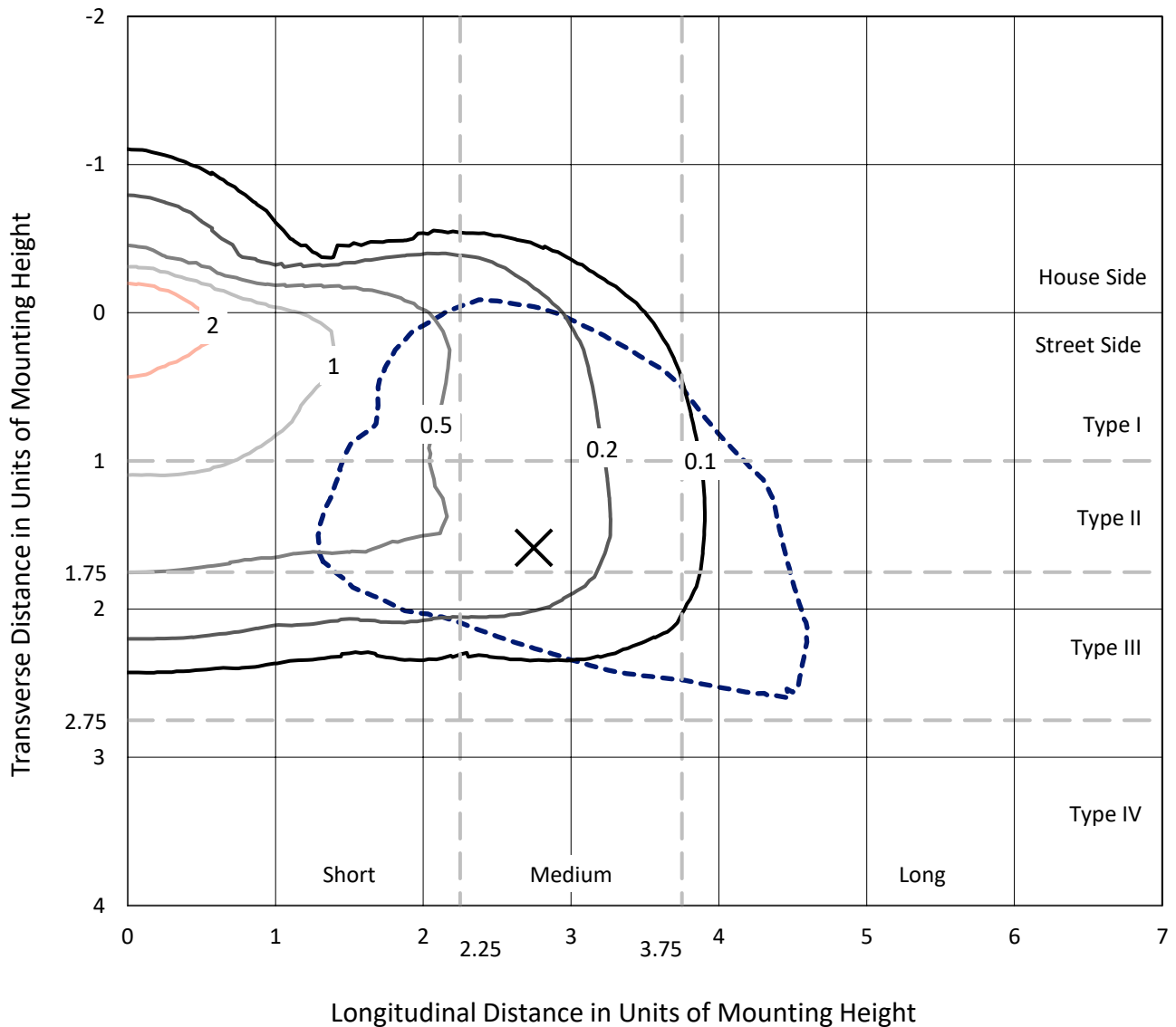
Lumens per Lamp: N/A  
Luminaire Lumens: 2979.7 lumens  
Efficiency: N/A  
Efficacy: 124.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 24  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

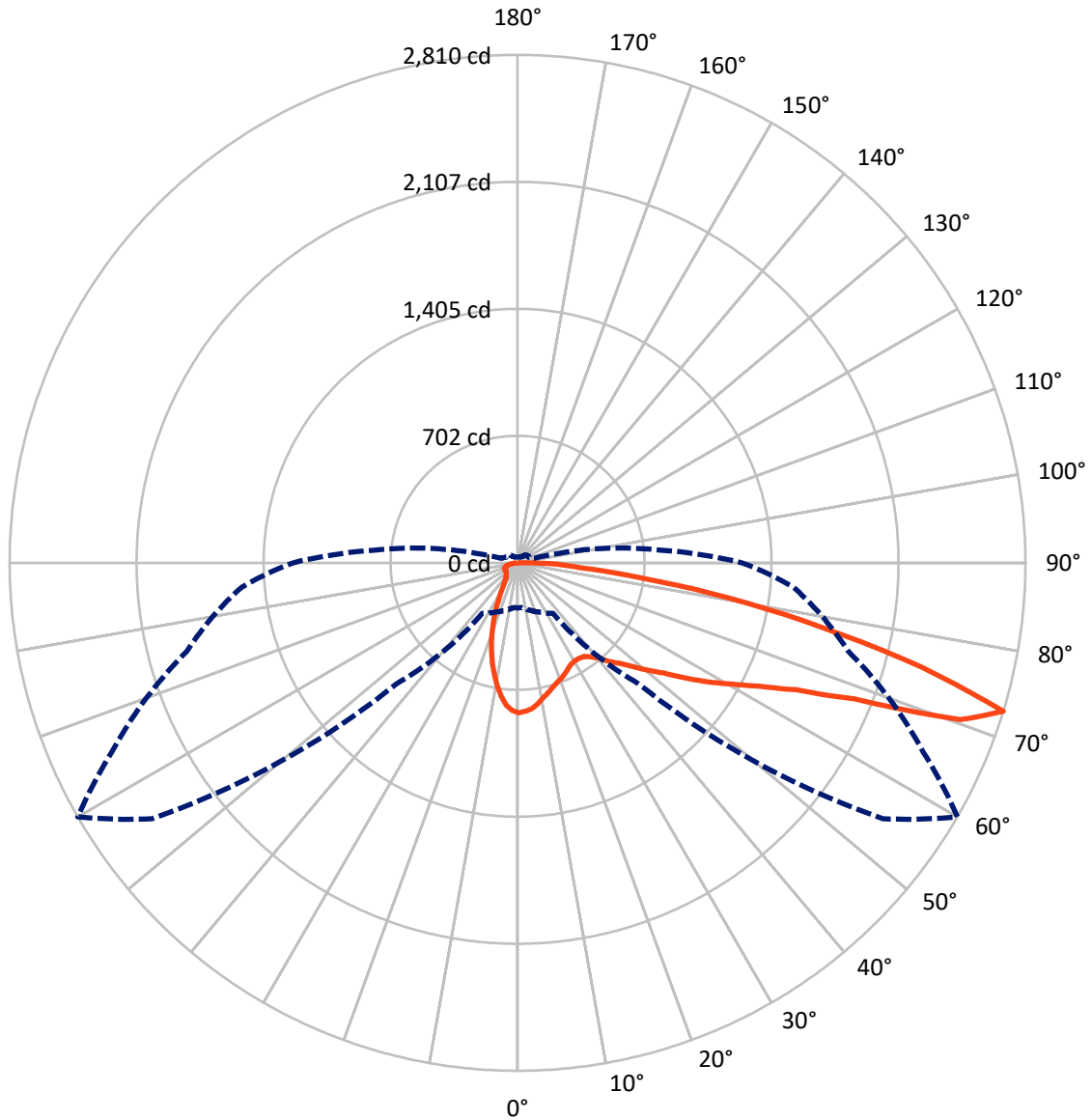
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.7 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	511.9	0.0	511.9
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	2467.8	0.0	2467.8
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	2979.7	0.0	2979.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.9	2.4
10°-20°	163.1	5.5
20°-30°	208.7	7.0
30°-40°	267.0	9.0
40°-50°	366.2	12.3
50°-60°	529.6	17.8
60°-70°	726.6	24.4
70°-80°	545.2	18.3
80°-90°	101.3	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°	2979.7	100.0
0°-180°	2979.7	100.0

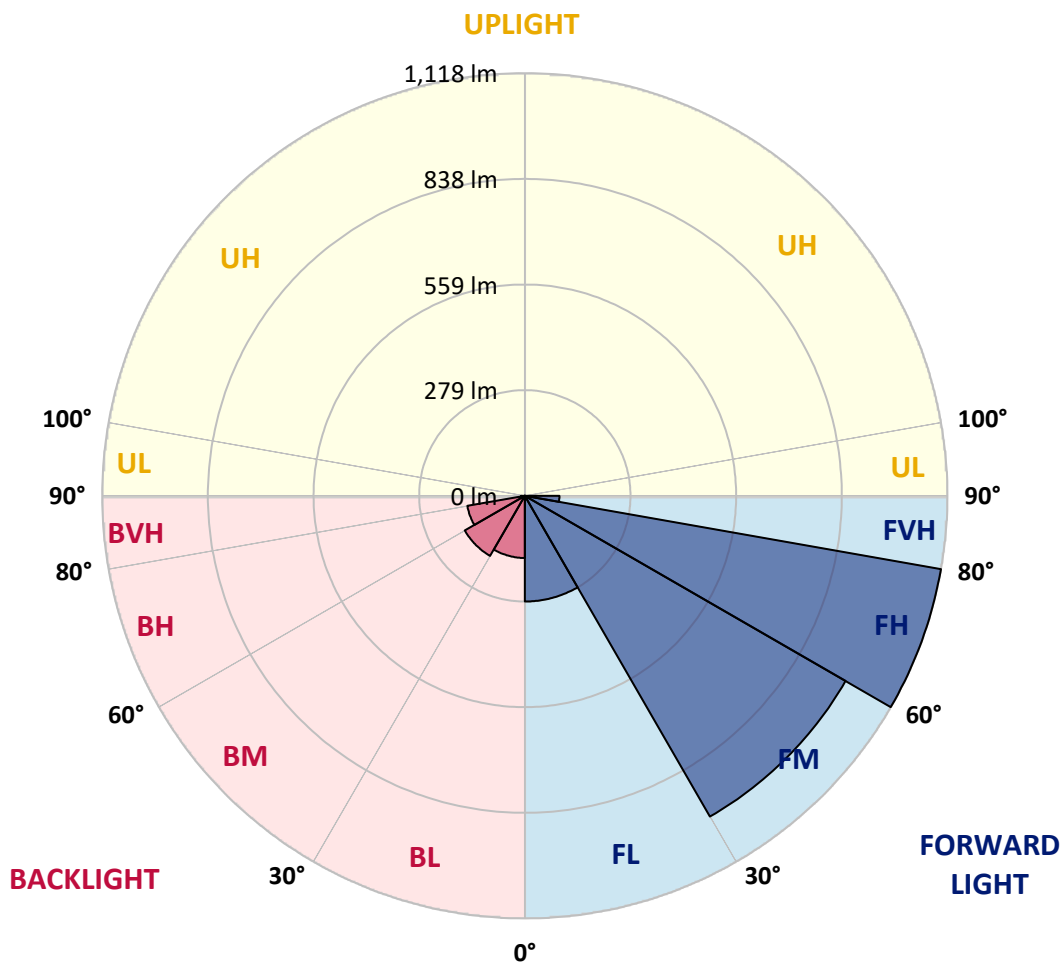


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	279.4	9.4			
FM (30°-60°)	979.4	32.9			
FH (60°-80°)	1117.6	37.5			G1/1800
FVH (80°-90°)	91.5	3.1			G1/100
BL (0°-30°)	164.3	5.5	B1/500		
BM (30°-60°)	183.4	6.2	B0/220		
BH (60°-80°)	154.2	5.2	B1/500		G1/500
BVH (80°-90°)	9.9	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°	829.7	829.7	829.7	829.7	829.7	829.7	829.7	829.7	829.7	829.7	829.7
2.5°	811.9	819.7	821.9	821.9	828.6	820.8	831.9	823.0	825.3	828.6	826.4
5°	773.1	786.4	778.7	793.1	787.5	797.5	810.8	810.8	807.5	814.2	808.6
7.5°	735.4	731.0	744.3	744.3	753.2	766.5	777.6	788.7	789.8	792.0	790.9
10°	684.4	689.9	696.6	705.5	716.6	729.9	753.2	762.0	764.2	777.6	774.2
12.5°	642.2	650.0	654.4	672.2	682.2	701.0	727.6	739.8	741.0	759.8	759.8
15°	611.2	615.6	625.6	632.3	654.4	681.1	706.6	717.7	729.9	749.8	744.3
17.5°	590.1	595.6	600.1	609.0	630.0	652.2	692.2	698.8	713.2	742.1	735.4
20°	577.9	579.0	585.7	591.2	610.1	631.1	666.6	684.4	703.2	728.8	722.1
22.5°	580.1	575.7	574.6	582.3	585.7	605.6	648.9	667.7	694.4	724.3	713.2
25°	584.6	585.7	583.4	576.8	577.9	595.6	624.5	648.9	678.8	723.2	701.0
27.5°	595.6	601.2	592.3	585.7	579.0	585.7	615.6	633.4	666.6	728.8	699.9
30°	606.7	612.3	610.1	600.1	586.8	584.6	605.6	627.8	660.0	733.2	699.9
32.5°	623.4	631.1	623.4	626.7	611.2	601.2	609.0	628.9	666.6	748.7	701.0
35°	642.2	648.9	651.1	643.3	640.0	621.2	625.6	635.6	673.3	766.5	712.1
37.5°	663.3	671.1	677.7	678.8	667.7	656.7	654.4	660.0	689.9	797.5	724.3
40°	677.7	682.2	695.5	706.6	709.9	694.4	693.3	693.3	719.9	825.3	746.5
42.5°	702.1	699.9	718.8	738.7	744.3	735.4	737.6	746.5	762.0	865.2	782.0
45°	714.3	712.1	734.3	767.6	793.1	788.7	790.9	794.2	808.6	928.4	841.9
47.5°	731.0	733.2	765.4	803.1	829.7	845.2	857.4	856.3	867.4	992.7	908.4
50°	747.6	752.0	790.9	830.8	877.4	904.0	921.8	934.0	945.1	1060.4	985.0
52.5°	779.8	784.2	827.5	870.7	930.6	969.5	1013.8	1012.7	1013.8	1128.1	1061.5
55°	826.4	827.5	853.0	902.9	983.9	1054.9	1115.9	1122.5	1103.7	1212.4	1149.1
57.5°	879.6	884.0	906.2	943.9	1026.0	1136.9	1230.1	1243.4	1192.4	1281.1	1229.0
60°	929.5	932.9	967.2	1010.5	1099.2	1240.1	1345.5	1361.0	1305.5	1365.4	1312.2
62.5°	873.0	889.6	950.6	1049.3	1227.9	1396.5	1491.9	1501.9	1415.4	1450.9	1400.9
65°	698.8	709.9	797.5	957.3	1236.8	1680.5	1718.2	1691.6	1566.2	1560.7	1535.2
67.5°	389.3	398.2	458.1	625.6	1041.6	1786.9	2205.1	2009.9	1800.3	1725.9	1717.1
70°	307.3	309.5	317.2	351.6	577.9	1575.1	2588.9	2597.8	2182.9	1953.3	1755.9
72.5°	249.6	248.5	271.8	301.7	341.6	945.1	2468.0	2809.6	2475.8	1893.4	1529.6
75°	190.8	194.1	224.1	267.3	312.8	444.8	1841.3	2311.6	2319.4	1764.8	1290.0
77.5°	145.3	146.4	179.7	236.3	306.1	313.9	1201.3	1722.6	1730.4	1366.6	711.0
80°	108.7	108.7	136.4	199.7	298.4	289.5	739.8	1194.6	1081.5	480.3	155.3
82.5°	62.1	66.6	91.0	152.0	270.6	278.4	417.1	684.4	457.0	130.9	72.1
85°	33.3	34.4	55.5	102.0	223.0	266.2	318.3	340.5	181.9	69.9	33.3
87.5°	12.2	12.2	25.5	52.1	140.9	197.4	252.9	217.4	104.3	32.2	16.6
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°	829.7	829.7	829.7	829.7	829.7	829.7	829.7	829.7	829.7	829.7	829.7
2.5°	828.6	824.1	820.8	824.1	811.9	806.4	813.1	809.7	803.1	799.7	797.5
5°	811.9	806.4	800.9	797.5	784.2	770.9	764.2	750.9	739.8	743.2	736.5
7.5°	794.2	788.7	772.0	756.5	729.9	703.2	691.0	672.2	665.5	660.0	656.7
10°	772.0	762.0	736.5	705.5	666.6	636.7	605.6	583.4	560.2	550.2	553.5
12.5°	744.3	738.7	698.8	651.1	596.8	546.8	510.2	474.7	443.7	427.0	422.6
15°	732.1	715.4	657.8	594.5	525.8	463.7	409.3	347.2	310.6	292.8	292.8
17.5°	718.8	687.7	618.9	532.4	453.7	373.8	297.3	240.7	211.9	201.9	201.9
20°	697.7	663.3	573.5	473.6	378.2	281.7	213.0	181.9	173.0	166.4	167.5
22.5°	682.2	640.0	531.3	416.0	299.5	209.6	167.5	157.5	154.2	152.0	153.1
25°	664.4	612.3	486.9	353.8	235.2	165.3	145.3	140.9	143.1	144.2	144.2
27.5°	650.0	589.0	441.5	287.3	177.5	139.8	130.9	129.8	134.2	136.4	137.5
30°	640.0	567.9	397.1	226.3	142.0	124.2	119.8	119.8	125.3	127.6	128.7
32.5°	630.0	550.2	349.4	173.0	120.9	110.9	109.8	110.9	114.2	114.2	115.4
35°	633.4	533.5	303.9	139.8	108.7	102.0	102.0	102.0	103.2	104.3	104.3
37.5°	640.0	529.1	255.1	117.6	99.8	95.4	95.4	94.3	95.4	94.3	95.4
40°	646.7	522.4	210.8	104.3	94.3	91.0	89.8	87.6	86.5	86.5	87.6
42.5°	674.4	531.3	173.0	95.4	89.8	87.6	84.3	82.1	81.0	81.0	81.0
45°	709.9	548.0	143.1	91.0	86.5	81.0	78.8	77.6	75.4	76.5	77.6
47.5°	763.1	573.5	125.3	87.6	83.2	76.5	74.3	72.1	72.1	74.3	74.3
50°	833.0	615.6	114.2	84.3	79.9	73.2	69.9	68.8	68.8	72.1	72.1
52.5°	908.4	664.4	109.8	83.2	76.5	69.9	66.6	65.4	65.4	69.9	69.9
55°	983.9	724.3	113.1	83.2	74.3	66.6	63.2	61.0	62.1	65.4	65.4
57.5°	1067.1	788.7	129.8	83.2	72.1	65.4	61.0	57.7	58.8	59.9	59.9
60°	1158.0	873.0	158.6	83.2	71.0	63.2	57.7	53.2	53.2	54.4	54.4
62.5°	1250.1	956.1	199.7	84.3	72.1	62.1	53.2	48.8	47.7	48.8	48.8
65°	1371.0	1089.2	240.7	84.3	75.4	59.9	49.9	44.4	43.3	43.3	44.4
67.5°	1540.7	1184.6	186.3	81.0	77.6	59.9	46.6	41.0	38.8	38.8	38.8
70°	1450.9	999.4	118.7	75.4	74.3	62.1	44.4	37.7	35.5	34.4	34.4
72.5°	1242.3	799.7	95.4	71.0	68.8	61.0	42.2	35.5	32.2	31.1	31.1
75°	996.1	631.1	83.2	64.3	59.9	51.0	38.8	32.2	29.9	27.7	27.7
77.5°	488.1	264.0	63.2	56.6	51.0	38.8	34.4	29.9	26.6	24.4	24.4
80°	122.0	92.1	46.6	44.4	37.7	29.9	27.7	25.5	23.3	21.1	21.1
82.5°	65.4	54.4	33.3	29.9	25.5	21.1	21.1	20.0	18.9	16.6	15.5
85°	33.3	32.2	22.2	20.0	16.6	13.3	14.4	14.4	13.3	10.0	10.0
87.5°	17.7	17.7	11.1	8.9	7.8	6.7	6.7	6.7	5.5	4.4	4.4
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)