

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: P676809

Luminaire Tested: **CCW-SA-1D-722-U-SL2-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676809  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1D-722-U-SL2-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
SL2 distribution lens and House Side Shield  
Light Source: (16) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

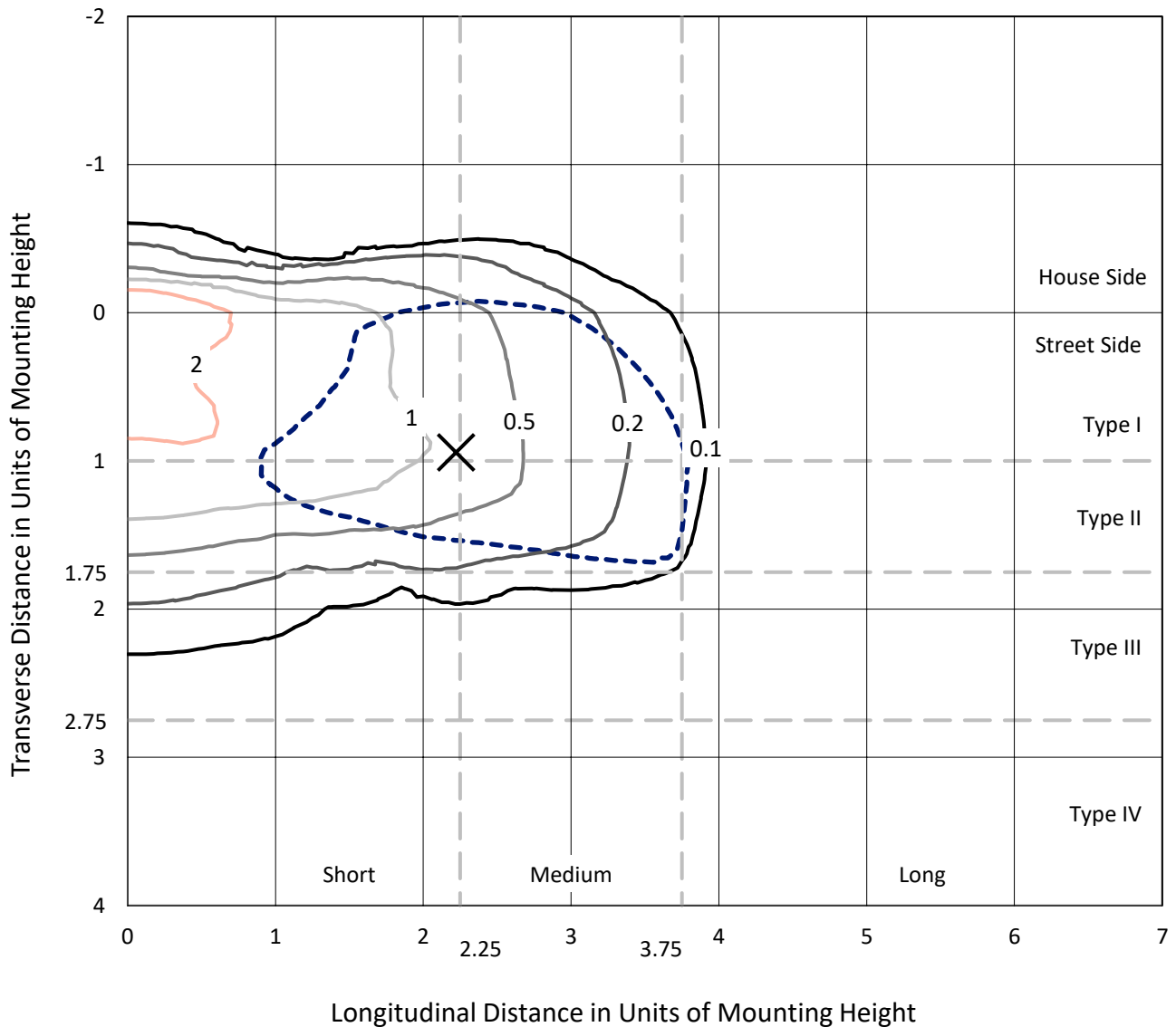
Lumens per Lamp: N/A  
Luminaire Lumens: 3303.4 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 44  
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

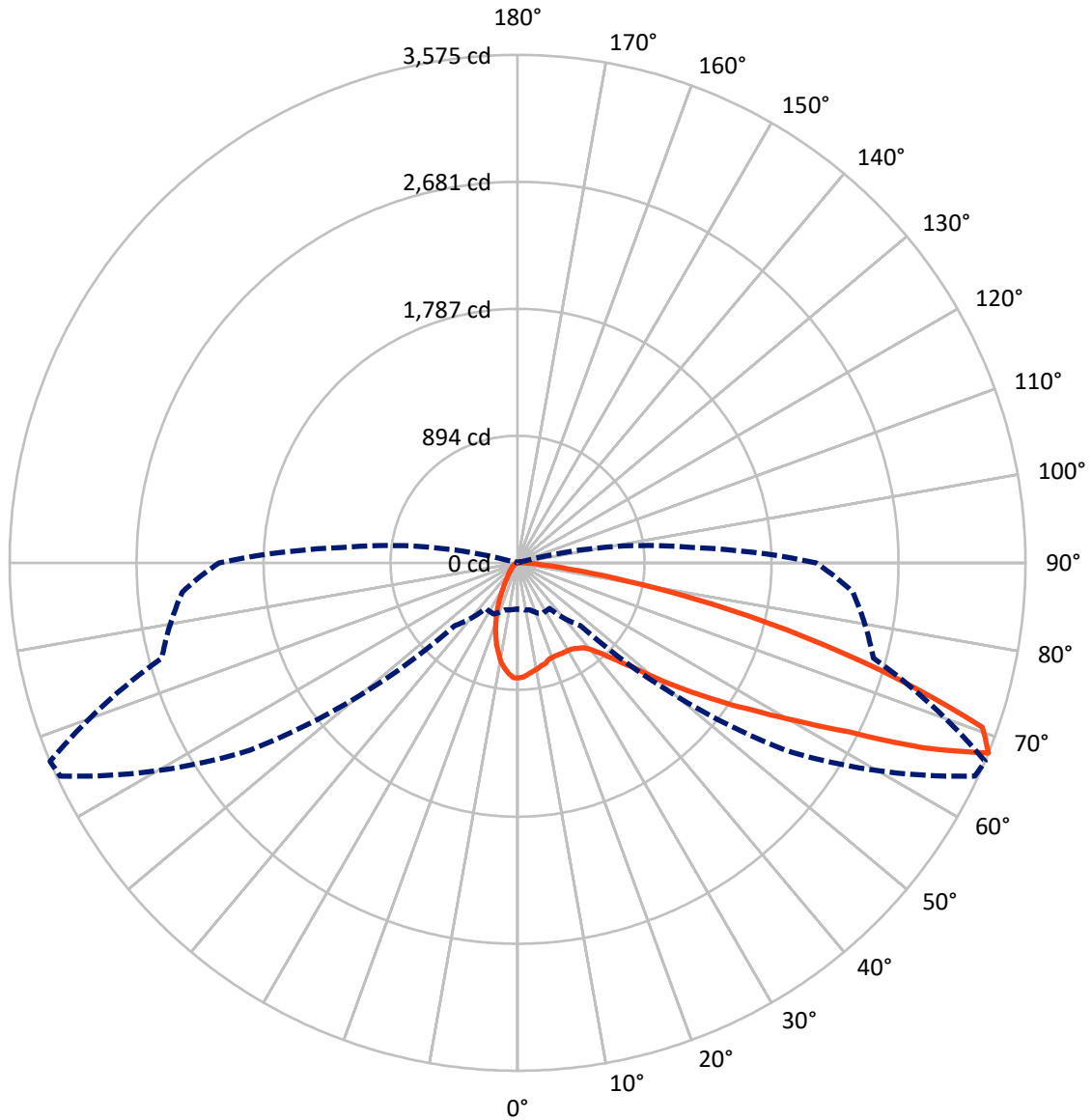
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.6 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
<b>House Side</b>	Lumens	415.8	0.0	415.8
	% Fixture	12.6	0.0	12.6
<b>Street Side</b>	Lumens	2887.7	0.0	2887.7
	% Fixture	87.4	0.0	87.4
<b>Total</b>	Lumens	3303.4	0.0	3303.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.3	2.1
10°-20°	151.7	4.6
20°-30°	215.7	6.5
30°-40°	314.0	9.5
40°-50°	486.0	14.7
50°-60°	745.9	22.6
60°-70°	808.5	24.5
70°-80°	456.1	13.8
80°-90°	57.3	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°	3303.4	100.0
0°-180°	3303.4	100.0

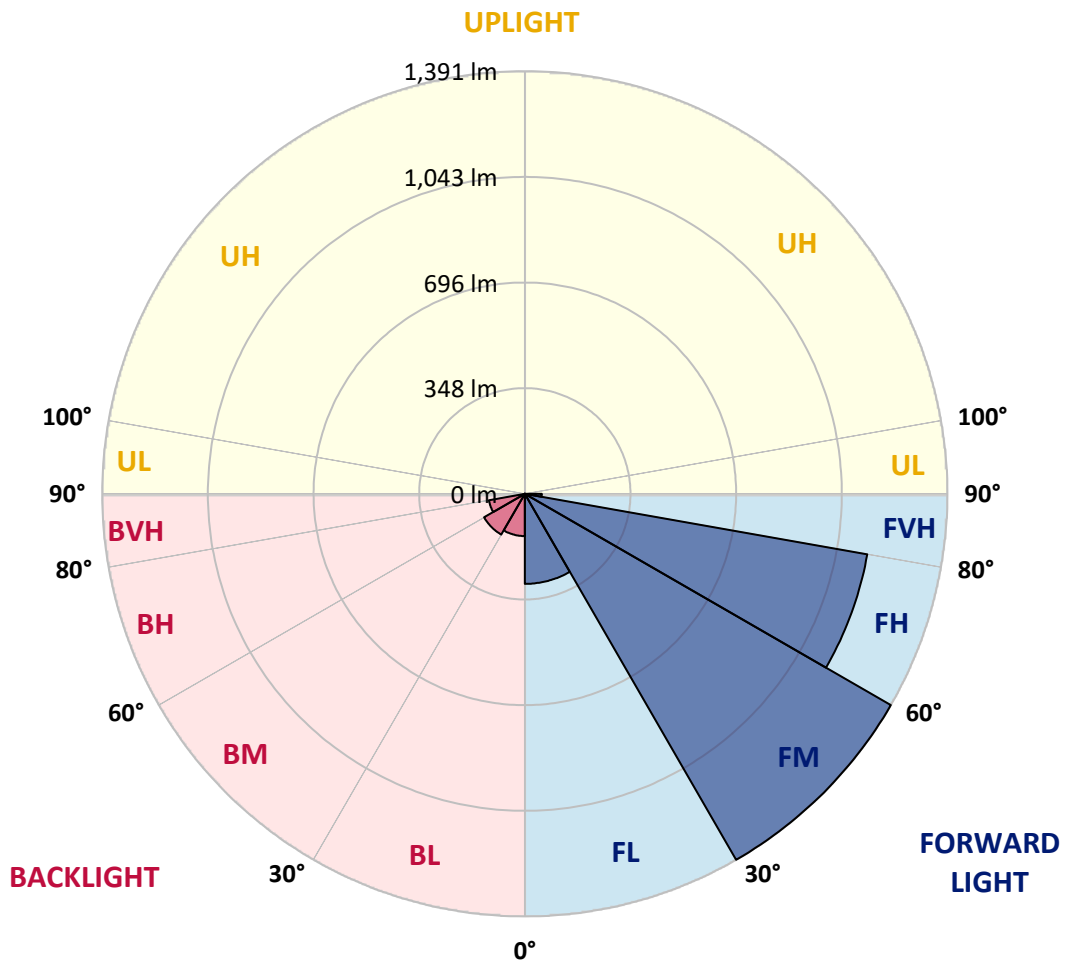


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	296.4	9.0			
FM (30°-60°)	1391.0	42.1			
FH (60°-80°)	1144.6	34.6			G1/1800
FVH (80°-90°)	55.7	1.7			G1/100
BL (0°-30°)	139.2	4.2	B1/500		
BM (30°-60°)	154.9	4.7	B0/220		
BH (60°-80°)	120.1	3.6	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	810.3	810.3	810.3	810.3	810.3	810.3	810.3	810.3	810.3	810.3	810.3
2.5°	775.2	779.2	784.8	792.8	798.3	795.1	797.5	811.1	803.9	810.3	807.1
5°	732.3	736.2	744.2	743.4	749.8	761.7	777.6	795.1	787.2	806.3	813.5
7.5°	687.7	686.1	686.1	702.8	716.3	733.1	741.8	770.5	771.3	788.0	805.5
10°	647.1	651.9	659.8	666.2	678.9	702.8	728.3	750.6	759.3	792.8	797.5
12.5°	622.4	624.8	634.4	639.9	656.7	679.7	706.8	735.5	742.6	776.8	799.9
15°	612.1	617.7	620.8	631.2	639.9	661.4	681.3	714.0	734.7	761.7	790.4
17.5°	620.0	617.7	619.2	622.4	632.8	651.9	673.4	706.0	713.2	758.5	801.5
20°	630.4	631.2	626.4	624.8	622.4	640.7	658.2	700.4	708.4	758.5	808.7
22.5°	658.2	649.5	658.2	645.5	632.8	640.7	657.4	701.2	706.8	757.7	815.8
25°	692.5	694.1	696.4	669.4	651.1	645.5	663.0	703.6	708.4	764.1	819.0
27.5°	741.0	748.2	736.2	722.7	686.1	658.2	662.2	702.0	710.8	760.9	827.0
30°	806.3	800.7	802.3	771.3	735.5	691.7	680.5	706.0	712.4	764.9	842.1
32.5°	862.8	856.4	867.6	856.4	799.9	739.4	702.0	714.0	721.1	774.5	854.8
35°	897.8	905.8	923.3	935.2	887.5	801.5	737.8	735.5	738.6	779.2	864.4
37.5°	951.9	966.3	980.6	1010.8	969.5	877.9	794.4	763.3	757.7	802.3	869.2
40°	1010.8	1006.9	1049.1	1084.9	1083.3	985.4	873.1	812.7	804.7	838.9	901.0
42.5°	1060.2	1056.2	1103.2	1162.1	1168.4	1088.8	963.1	882.7	875.5	895.4	940.0
45°	1124.7	1127.9	1183.6	1253.6	1276.7	1225.8	1084.9	983.0	979.0	972.6	1014.0
47.5°	1182.0	1199.5	1247.2	1330.0	1413.6	1367.4	1228.1	1129.4	1101.6	1087.3	1128.6
50°	1221.8	1237.7	1295.8	1384.1	1537.0	1566.4	1388.9	1285.4	1286.2	1251.2	1273.5
52.5°	1221.8	1221.0	1267.9	1384.1	1622.9	1774.2	1603.8	1482.0	1488.4	1451.8	1453.4
55°	1104.0	1101.6	1158.9	1282.3	1613.4	1973.9	1929.4	1731.2	1715.3	1644.4	1651.6
57.5°	889.1	894.6	938.4	1086.5	1489.2	2067.1	2317.0	2011.3	1957.2	1810.8	1810.8
60°	648.7	643.9	676.6	780.0	1193.1	2032.0	2635.4	2341.7	2256.5	1948.5	1927.8
62.5°	493.5	492.7	501.4	536.5	756.9	1771.8	2772.3	2761.9	2623.4	2083.8	2054.3
65°	398.8	400.4	412.3	437.0	462.4	1208.2	2699.8	3263.4	3136.8	2285.2	2188.8
67.5°	325.5	329.5	343.8	397.2	391.6	625.6	2299.5	3550.7	3574.6	2592.4	2369.5
70°	250.7	257.1	273.8	349.4	377.3	416.3	1594.3	3407.4	3471.1	2783.4	2260.5
72.5°	170.3	169.5	205.4	283.4	381.3	381.3	887.5	2744.4	2804.9	2566.1	1963.6
75°	92.3	97.9	136.1	214.1	349.4	368.5	505.4	2008.2	2093.3	1995.4	1518.7
77.5°	50.1	50.9	75.6	140.1	290.5	351.8	337.5	1365.8	1399.3	1203.5	831.8
80°	26.3	27.1	39.8	91.5	200.6	326.3	281.0	814.2	782.4	461.6	274.6
82.5°	11.9	12.7	19.9	57.3	128.1	257.1	242.8	393.2	362.9	128.9	83.6
85°	4.8	4.8	8.8	34.2	74.8	126.6	207.7	197.4	164.8	39.0	41.4
87.5°	1.6	1.6	2.4	13.5	30.2	75.6	110.6	104.3	71.6	14.3	22.3
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°	810.3	810.3	810.3	810.3	810.3	810.3	810.3	810.3	810.3	810.3	810.3
2.5°	803.9	812.7	810.3	808.7	793.6	792.0	790.4	776.0	780.8	768.9	776.8
5°	808.7	813.5	800.7	776.8	755.3	731.5	713.2	700.4	677.3	668.6	667.0
7.5°	803.9	803.9	777.6	739.4	697.2	658.2	608.9	573.9	547.6	527.7	534.9
10°	797.5	788.0	760.9	693.3	616.9	558.0	487.1	435.4	396.4	383.6	375.7
12.5°	797.5	780.8	720.3	628.0	529.3	440.2	355.8	288.1	250.7	228.4	225.3
15°	790.4	765.7	690.9	566.7	444.1	323.2	226.8	168.7	136.9	128.1	125.0
17.5°	792.0	762.5	647.1	494.3	344.6	214.9	138.5	106.7	98.7	94.7	95.5
20°	795.1	762.5	608.1	423.4	248.3	133.7	95.5	89.9	86.0	84.4	85.2
22.5°	805.5	747.4	568.3	351.0	167.9	96.3	84.4	78.8	75.6	73.2	72.4
25°	807.1	745.0	530.1	279.4	115.4	81.2	74.0	67.7	63.7	60.5	59.7
27.5°	804.7	734.7	476.8	207.7	86.8	72.4	62.9	56.5	50.9	48.6	47.8
30°	813.5	715.6	431.4	149.6	73.2	62.9	53.3	46.2	41.4	38.2	38.2
32.5°	814.2	698.8	381.3	106.7	66.9	55.7	45.4	37.4	32.6	31.0	31.0
35°	815.0	683.7	325.5	81.2	59.7	47.8	37.4	31.0	27.9	25.5	25.5
37.5°	817.4	672.6	274.6	68.5	53.3	40.6	31.0	25.5	22.3	21.5	21.5
40°	822.2	657.4	221.3	60.5	46.2	34.2	26.3	21.5	18.3	17.5	16.7
42.5°	834.9	653.5	176.7	54.1	41.4	28.7	21.5	17.5	15.1	13.5	12.7
45°	887.5	663.8	136.9	50.1	35.0	23.9	18.3	14.3	11.1	10.3	9.6
47.5°	973.4	698.0	108.2	44.6	29.4	19.9	15.1	11.1	8.8	8.0	7.2
50°	1104.0	776.0	88.3	39.8	24.7	16.7	11.9	8.8	6.4	5.6	5.6
52.5°	1275.1	881.1	76.4	35.0	19.9	14.3	9.6	6.4	4.8	4.0	4.0
55°	1450.2	1005.3	71.6	30.2	16.7	11.9	7.2	4.8	3.2	2.4	2.4
57.5°	1611.0	1085.7	69.2	24.7	14.3	8.8	5.6	3.2	1.6	0.8	0.8
60°	1711.3	1144.6	62.1	19.9	11.1	7.2	4.0	1.6	0.8	0.0	0.0
62.5°	1843.4	1204.3	50.9	15.1	8.0	4.8	2.4	0.8	0.0	0.0	0.0
65°	2017.7	1271.1	39.8	11.9	6.4	3.2	1.6	0.8	0.0	0.0	0.0
67.5°	2101.3	1236.1	27.1	8.8	4.0	1.6	0.8	0.0	0.0	0.0	0.0
70°	1934.1	1041.1	19.1	6.4	2.4	0.8	0.8	0.0	0.0	0.0	0.0
72.5°	1626.1	815.8	14.3	4.0	1.6	0.8	0.0	0.0	0.0	0.0	0.0
75°	1198.7	510.2	11.1	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	636.0	190.2	8.0	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	187.8	55.7	5.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	62.1	16.7	3.2	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.8	6.4	1.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.3	2.4	1.6	1.6	0.8	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)