

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: P674945

Luminaire Tested: **CCW-SA-1A-727-U-T3**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674945  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1A-727-U-T3  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/  
T3 distribution lens  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

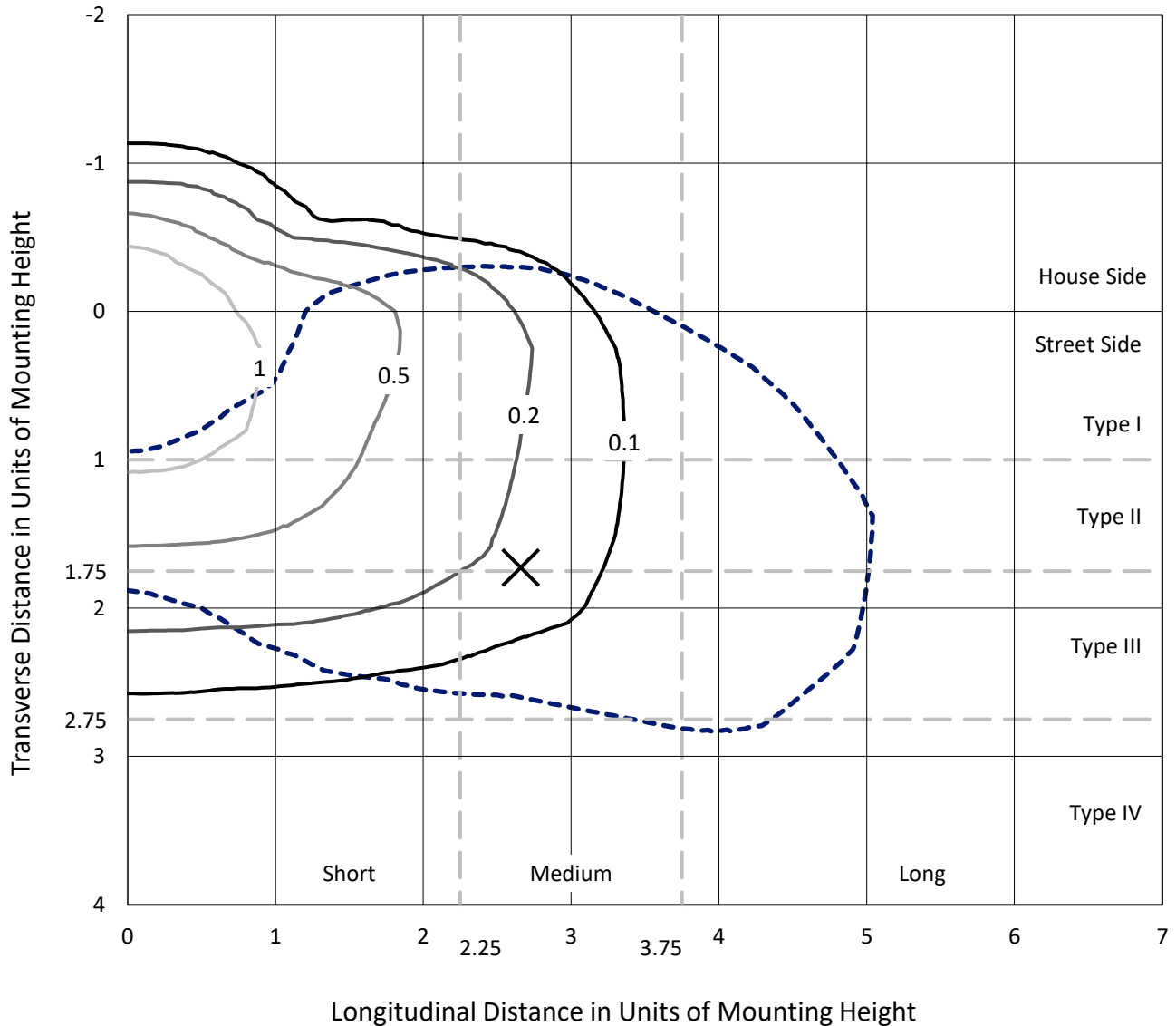
Lumens per Lamp: N/A  
Luminaire Lumens: 2311.7 lumens  
Efficiency: N/A  
Efficacy: 128.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

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

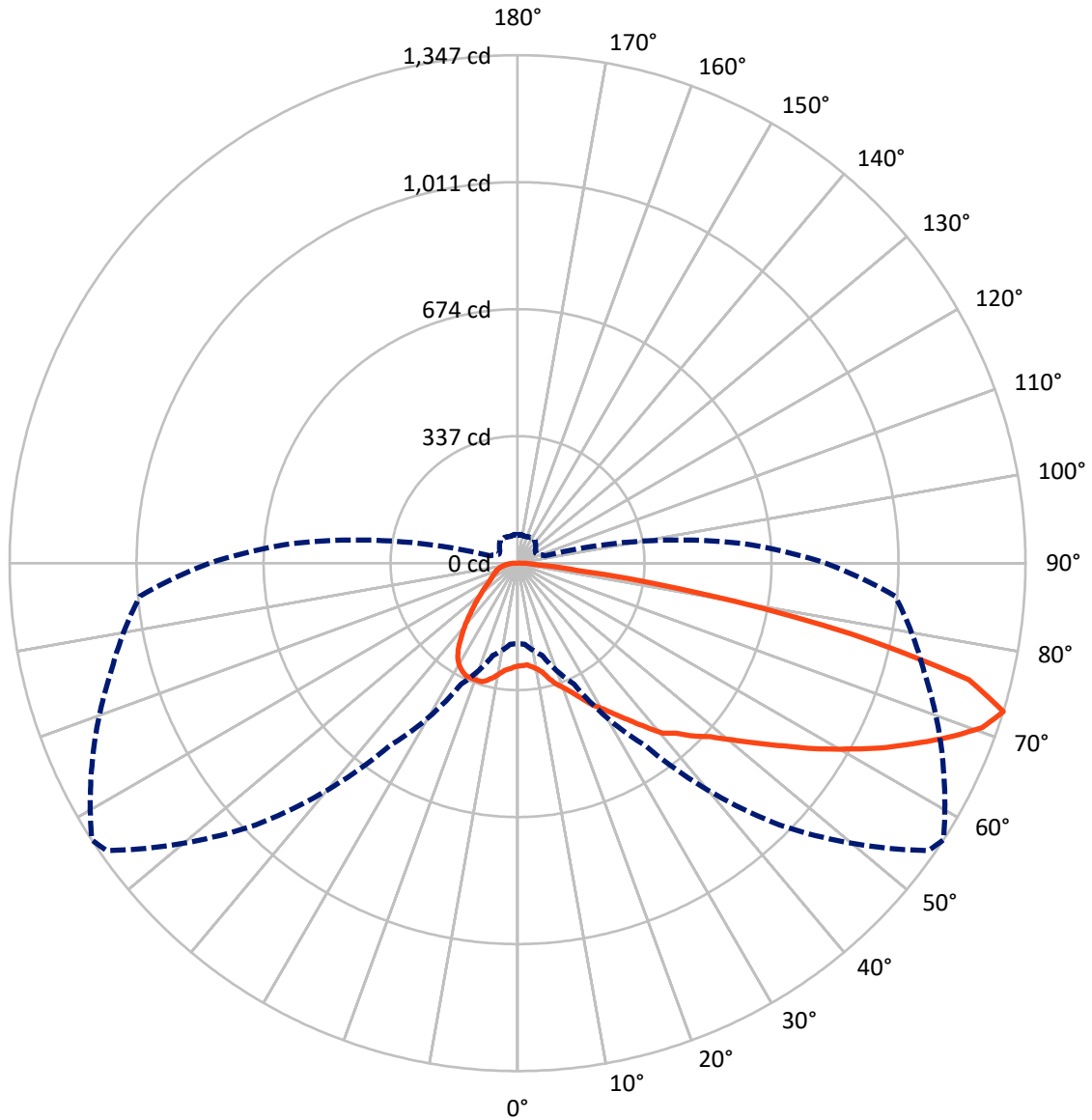
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	539.9	0.0	539.9
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	1771.8	0.0	1771.8
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	2311.7	0.0	2311.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.1	1.2
10°-20°	91.3	3.9
20°-30°	166.9	7.2
30°-40°	244.8	10.6
40°-50°	337.1	14.6
50°-60°	462.2	20.0
60°-70°	557.2	24.1
70°-80°	371.2	16.1
80°-90°	54.1	2.3
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°	2311.7	100.0
0°-180°	2311.7	100.0



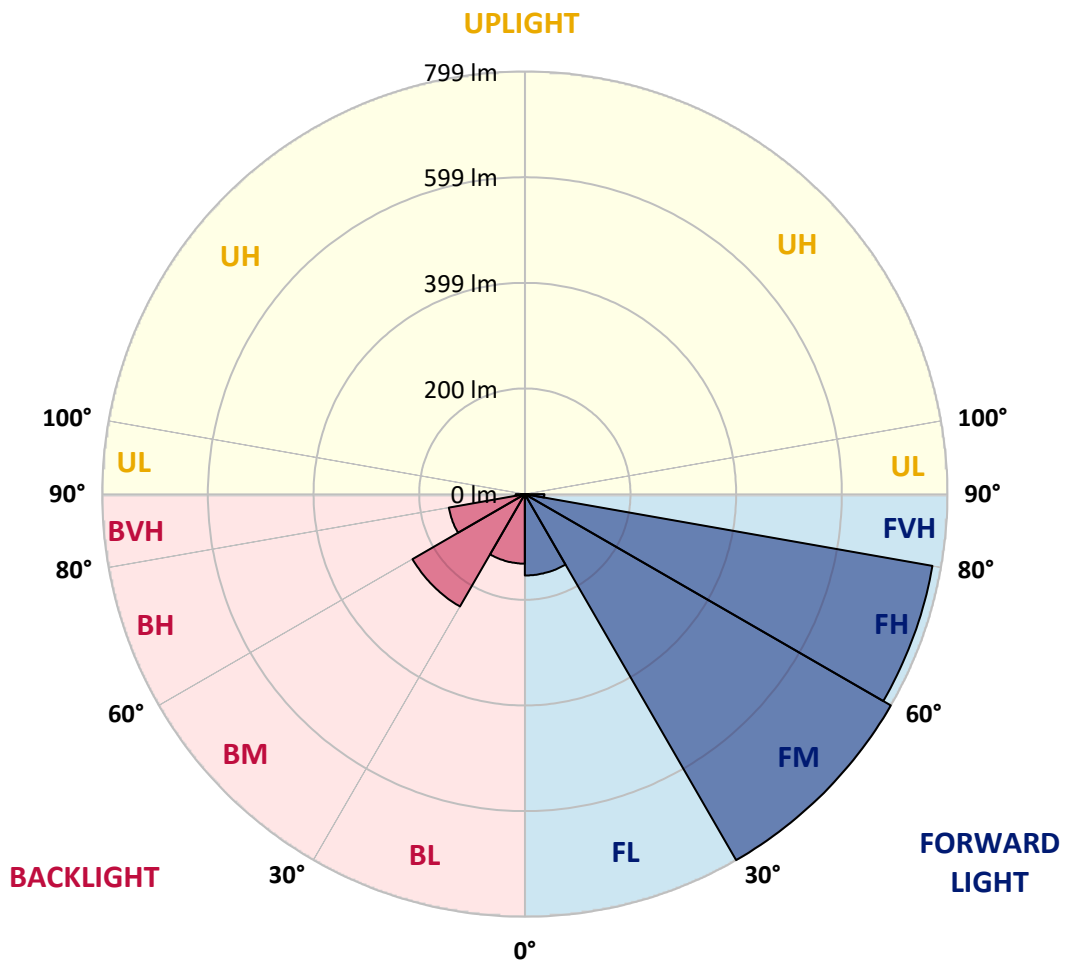
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	153.8	6.7			
FM (30°-60°)	798.9	34.6			
FH (60°-80°)	782.4	33.8			G1/1800
FVH (80°-90°)	36.8	1.6			G1/100
BL (0°-30°)	131.4	5.7	B1/500		
BM (30°-60°)	245.2	10.6	B1/1000		
BH (60°-80°)	146.0	6.3	B1/500		G1/500
BVH (80°-90°)	17.2	0.7			G1/100
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°	57°	65°	75°	85°
0°	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9
2.5°	267.8	268.6	270.3	269.5	269.5	267.0	271.2	272.0	270.3	271.2	272.9
5°	267.8	269.5	272.0	270.3	271.2	270.3	268.6	271.2	271.2	272.0	274.5
7.5°	282.1	281.3	281.3	278.8	277.9	277.1	277.9	277.9	276.2	277.1	277.1
10°	298.1	298.1	296.4	296.4	294.8	290.5	286.3	285.5	283.0	283.8	283.8
12.5°	315.0	316.6	318.3	313.3	311.6	304.9	302.3	297.3	297.3	295.6	294.8
15°	336.0	333.5	335.2	333.5	329.3	322.5	318.3	319.2	313.3	311.6	309.1
17.5°	354.5	355.4	352.9	351.2	343.6	338.5	339.4	338.5	331.0	328.4	324.2
20°	376.4	375.6	375.6	370.5	363.8	357.1	354.5	353.7	355.4	350.3	340.2
22.5°	399.2	395.8	395.8	391.6	382.3	378.1	376.4	373.1	374.8	370.5	355.4
25°	417.7	417.7	423.6	415.2	410.1	401.7	398.3	399.2	400.0	391.6	373.9
27.5°	442.1	437.9	443.8	439.6	437.1	427.8	423.6	426.1	424.4	415.2	390.8
30°	473.3	474.1	470.8	464.9	461.5	454.8	452.2	449.7	452.2	440.4	409.3
32.5°	512.0	514.6	506.1	499.4	493.5	486.8	481.7	479.2	481.7	464.0	423.6
35°	556.7	559.2	552.5	544.9	538.1	521.3	517.1	512.9	503.6	475.0	437.1
37.5°	597.9	594.6	592.9	592.9	580.2	555.8	553.3	550.8	533.1	496.9	455.6
40°	625.7	629.9	628.2	626.6	624.9	602.1	597.1	592.9	563.4	529.7	481.7
42.5°	656.9	654.4	661.1	663.6	657.7	651.0	630.8	616.5	590.3	563.4	520.4
45°	693.9	692.2	694.8	704.0	695.6	698.1	664.5	654.4	621.5	605.5	569.3
47.5°	726.8	731.0	743.6	746.1	739.4	751.2	704.0	688.0	667.0	654.4	619.8
50°	741.1	746.1	774.8	792.5	793.3	811.8	743.6	736.9	708.2	713.3	683.0
52.5°	729.3	745.3	779.8	826.1	854.8	873.3	795.8	792.5	766.4	782.4	752.0
55°	740.3	755.4	778.1	843.0	915.4	919.6	868.3	855.6	829.5	851.4	823.6
57.5°	745.3	736.9	779.8	861.5	960.1	971.0	937.3	928.1	907.8	928.9	912.9
60°	705.7	715.8	756.3	856.5	962.6	1025.7	1014.8	1001.3	982.8	1002.2	992.9
62.5°	661.1	667.8	711.6	826.1	976.9	1065.3	1089.7	1079.6	1053.5	1070.4	1086.4
65°	604.7	605.5	654.4	772.3	949.1	1088.1	1155.4	1154.6	1136.1	1131.9	1157.1
67.5°	535.6	542.3	581.1	715.0	911.2	1113.3	1220.3	1232.9	1195.9	1163.0	1172.3
70°	411.0	417.7	454.8	586.1	833.7	1105.7	1300.3	1307.0	1234.6	1151.2	1127.6
72.5°	213.9	215.6	253.5	353.7	591.2	981.9	1329.8	1347.4	1244.7	1116.7	1005.5
75°	70.7	70.7	86.7	134.7	278.8	628.2	1204.3	1236.3	1195.0	1030.8	822.8
77.5°	42.1	42.9	51.4	67.4	111.2	251.0	848.9	905.3	977.7	876.7	601.3
80°	30.3	31.2	38.7	46.3	66.5	80.8	426.1	504.4	600.5	564.2	320.9
82.5°	22.7	22.7	30.3	34.5	45.5	48.0	118.7	162.5	259.4	202.1	88.4
85°	23.6	23.6	23.6	24.4	31.2	27.8	49.7	53.1	75.8	66.5	24.4
87.5°	8.4	9.3	23.6	16.0	16.0	11.8	19.4	21.1	26.9	27.8	9.3
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°	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9
2.5°	273.7	273.7	274.5	274.5	276.2	277.9	280.4	278.8	278.8	279.6	278.8
5°	272.9	273.7	276.2	280.4	282.1	283.0	288.0	288.0	288.0	289.7	289.7
7.5°	276.2	277.9	282.1	286.3	287.2	289.7	296.4	298.1	302.3	304.0	304.9
10°	284.6	287.2	290.5	295.6	299.0	302.3	307.4	313.3	312.4	317.5	318.3
12.5°	297.3	296.4	302.3	307.4	310.8	315.8	317.5	317.5	317.5	317.5	319.2
15°	307.4	309.1	314.1	317.5	321.7	320.9	317.5	314.1	315.0	314.1	314.1
17.5°	322.5	322.5	326.8	327.6	329.3	320.9	315.8	315.8	318.3	318.3	316.6
20°	337.7	336.9	338.5	337.7	326.8	316.6	315.8	316.6	317.5	316.6	315.8
22.5°	352.0	350.3	347.8	344.4	325.1	315.8	314.1	309.9	305.7	305.7	303.2
25°	364.7	363.0	356.2	346.1	324.2	310.8	302.3	292.2	287.2	284.6	288.0
27.5°	376.4	373.1	363.8	346.1	316.6	297.3	281.3	268.6	264.4	261.1	264.4
30°	392.4	386.5	373.9	343.6	304.9	276.2	254.3	239.2	235.0	229.9	231.6
32.5°	406.8	393.3	382.3	336.0	289.7	252.6	227.4	212.2	204.6	200.4	203.8
35°	421.9	408.4	385.7	324.2	266.1	224.0	198.7	184.4	178.5	172.6	172.6
37.5°	437.1	429.5	390.8	302.3	237.5	197.1	174.3	163.4	153.3	142.3	142.3
40°	469.1	459.0	396.7	277.1	208.9	171.0	155.0	140.6	130.5	115.4	114.5
42.5°	502.8	480.9	396.7	246.8	183.6	152.4	137.3	122.1	103.6	94.3	95.2
45°	545.7	520.4	385.7	219.8	158.3	137.3	120.4	101.1	92.6	86.7	86.7
47.5°	599.6	560.0	372.2	190.3	138.1	123.8	102.7	91.0	85.1	80.0	79.2
50°	663.6	596.2	355.4	165.1	121.3	111.2	93.5	84.2	79.2	75.8	75.8
52.5°	731.0	649.3	343.6	142.3	107.8	94.3	86.7	80.8	76.6	74.1	73.3
55°	799.2	702.4	335.2	117.9	95.2	86.7	85.1	80.0	78.3	75.8	74.1
57.5°	875.8	746.1	333.5	101.1	85.1	83.4	86.7	82.5	80.0	77.5	75.0
60°	958.4	805.1	318.3	87.6	80.0	81.7	84.2	80.0	78.3	75.8	74.1
62.5°	1040.1	848.9	277.1	77.5	75.0	76.6	80.0	76.6	74.1	75.0	75.8
65°	1073.7	852.3	214.7	69.9	69.1	69.9	75.0	74.1	71.6	76.6	76.6
67.5°	1040.1	821.9	151.6	63.2	63.2	67.4	75.8	77.5	75.0	81.7	80.8
70°	963.4	747.0	102.7	59.0	60.6	71.6	78.3	76.6	73.3	81.7	80.0
72.5°	817.7	597.9	75.0	54.7	57.3	68.2	77.5	75.8	73.3	76.6	73.3
75°	613.9	425.3	59.0	49.7	50.5	61.5	80.0	75.8	69.1	67.4	64.8
77.5°	410.1	262.8	45.5	43.8	43.8	53.9	76.6	70.7	62.3	59.8	59.0
80°	195.4	105.3	36.2	37.1	37.9	46.3	69.9	63.2	56.4	53.1	53.1
82.5°	62.3	39.6	30.3	30.3	30.3	37.9	58.1	53.1	48.8	46.3	42.1
85°	21.9	21.9	26.1	26.9	24.4	27.8	48.0	45.5	40.4	33.7	32.8
87.5°	8.4	12.6	17.7	21.1	15.2	19.4	34.5	32.0	29.5	21.9	21.1
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)