

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: P675013

Luminaire Tested: **CCW-SA-1C-827-U-T3**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675013  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1C-827-U-T3  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/  
T3 distribution lens  
Light Source: (16) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

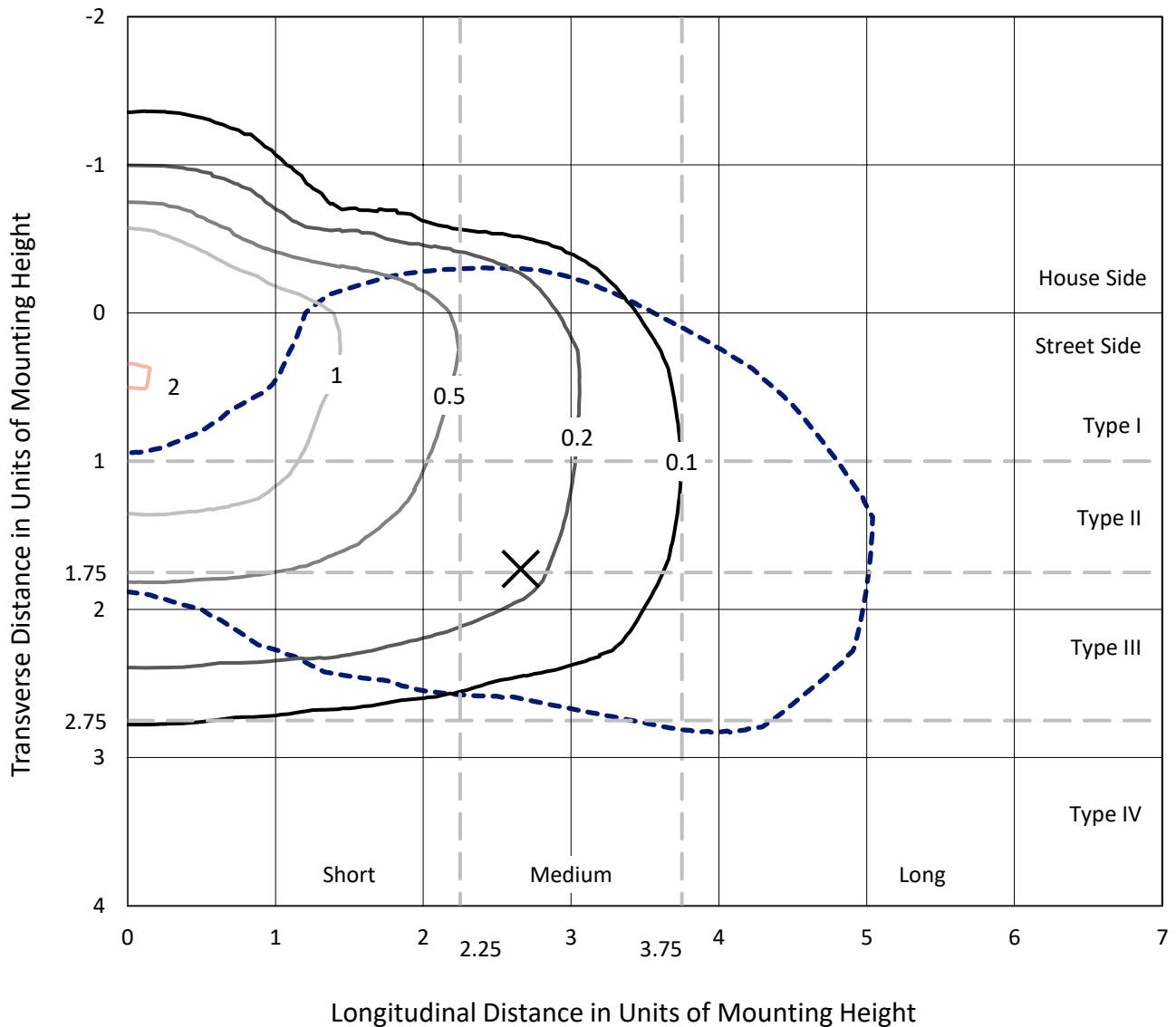
Lumens per Lamp: N/A  
Luminaire Lumens: 3358.1 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 32  
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

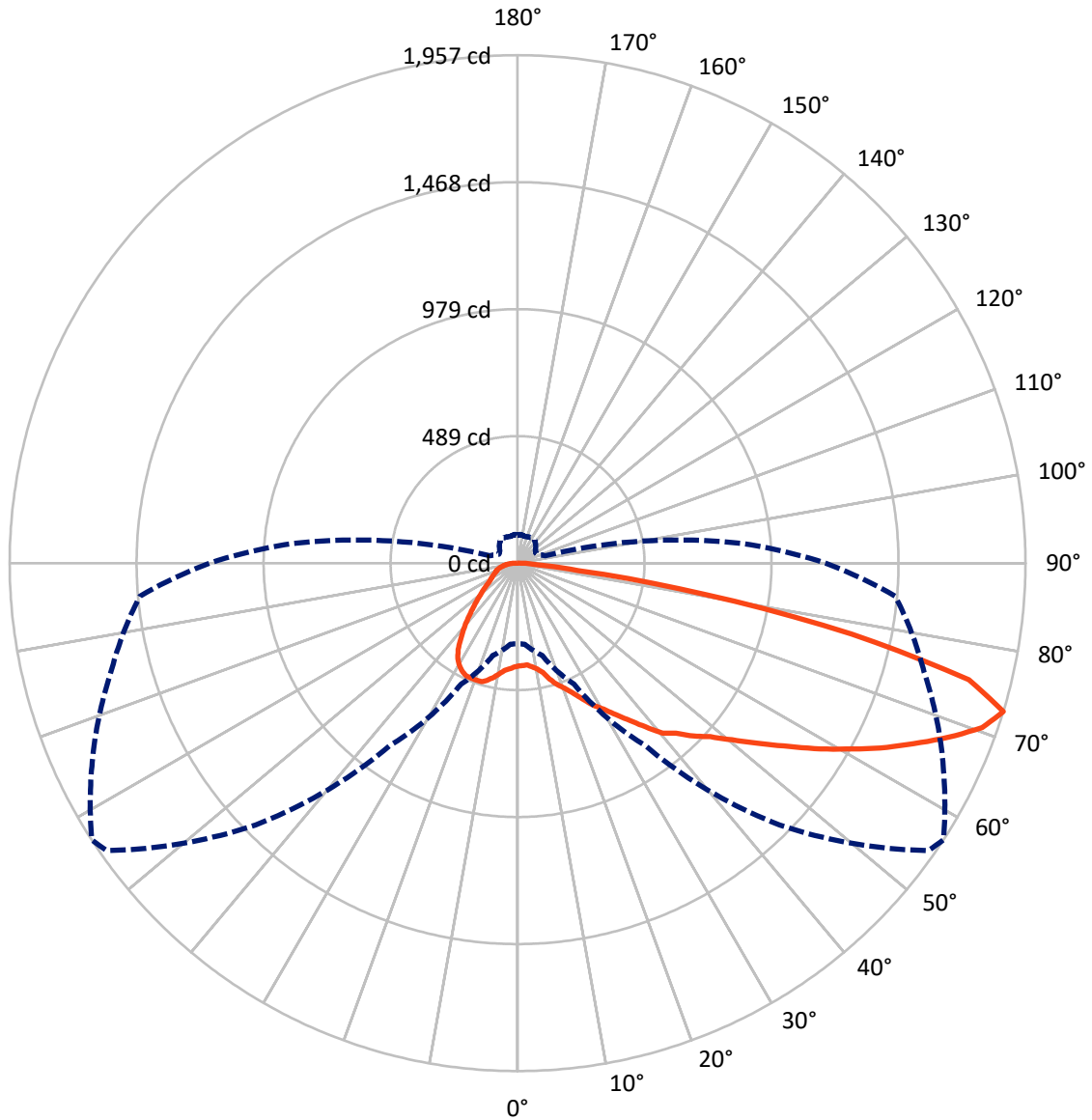
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2 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	784.2	0.0	784.2
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	2573.9	0.0	2573.9
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	3358.1	0.0	3358.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.3	1.2
10°-20°	132.6	3.9
20°-30°	242.4	7.2
30°-40°	355.6	10.6
40°-50°	489.6	14.6
50°-60°	671.4	20.0
60°-70°	809.4	24.1
70°-80°	539.2	16.1
80°-90°	78.5	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°	3358.1	100.0
0°-180°	3358.1	100.0



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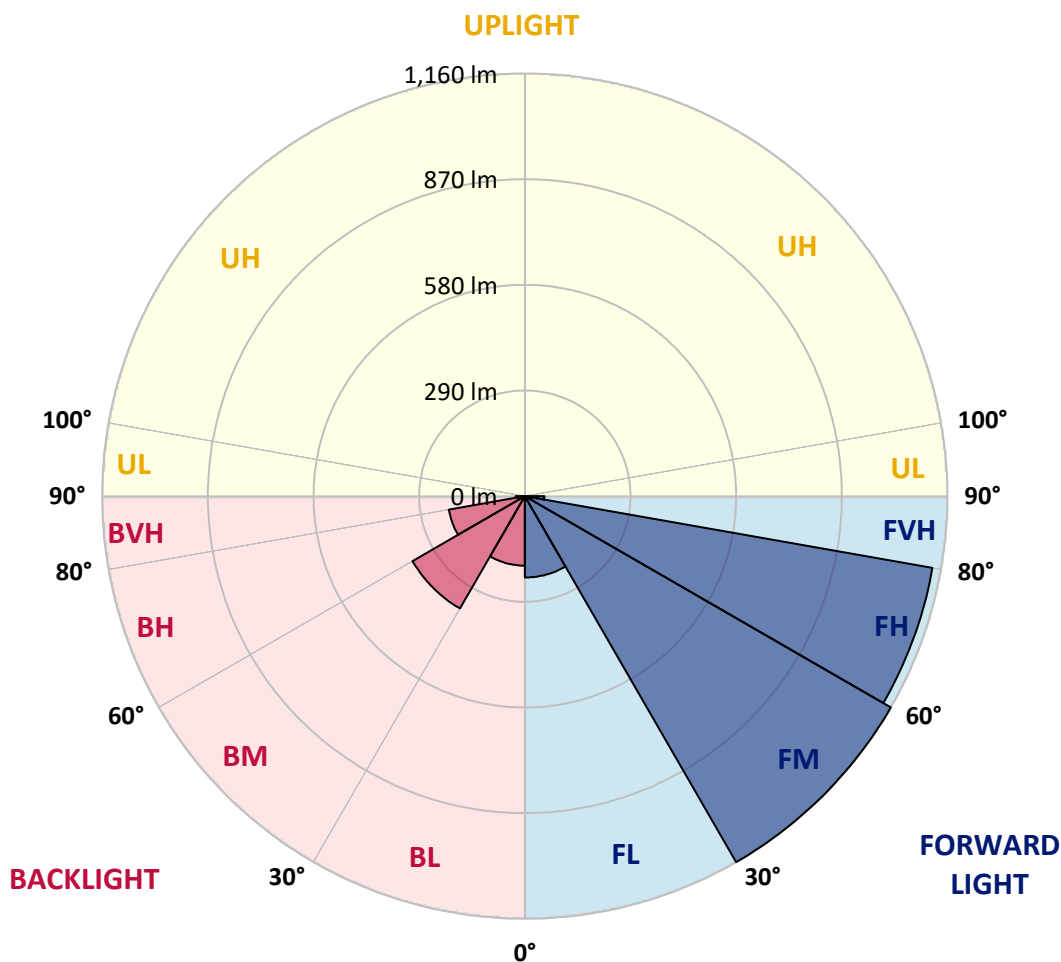
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	223.4	6.7			
FM (30°-60°)	1160.5	34.6			
FH (60°-80°)	1136.5	33.8			G1/1800
FVH (80°-90°)	53.5	1.6			G1/100
BL (0°-30°)	190.9	5.7	B1/500		
BM (30°-60°)	356.2	10.6	B1/1000		
BH (60°-80°)	212.0	6.3	B1/500		G1/500
BVH (80°-90°)	25.1	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°	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4
2.5°	389.0	390.2	392.7	391.5	391.5	387.8	393.9	395.1	392.7	393.9	396.4
5°	389.0	391.5	395.1	392.7	393.9	392.7	390.2	393.9	393.9	395.1	398.8
7.5°	409.8	408.6	408.6	404.9	403.7	402.5	403.7	403.7	401.3	402.5	402.5
10°	433.1	433.1	430.6	430.6	428.2	422.1	415.9	414.7	411.0	412.3	412.3
12.5°	457.5	460.0	462.4	455.1	452.6	442.8	439.2	431.8	431.8	429.4	428.2
15°	488.1	484.4	486.9	484.4	478.3	468.5	462.4	463.6	455.1	452.6	449.0
17.5°	515.0	516.2	512.6	510.1	499.1	491.8	493.0	491.8	480.8	477.1	471.0
20°	546.8	545.6	545.6	538.3	528.5	518.7	515.0	513.8	516.2	508.9	494.2
22.5°	579.9	575.0	575.0	568.9	555.4	549.3	546.8	541.9	544.4	538.3	516.2
25°	606.8	606.8	615.3	603.1	595.8	583.5	578.6	579.9	581.1	568.9	543.2
27.5°	642.3	636.1	644.7	638.6	634.9	621.5	615.3	619.0	616.6	603.1	567.6
30°	687.5	688.7	683.8	675.3	670.4	660.6	656.9	653.3	656.9	639.8	594.5
32.5°	743.8	747.5	735.2	725.4	716.9	707.1	699.8	696.1	699.8	674.1	615.3
35°	808.6	812.3	802.5	791.5	781.7	757.2	751.1	745.0	731.6	690.0	634.9
37.5°	868.6	863.7	861.2	861.2	842.9	807.4	803.7	800.1	774.4	721.8	661.8
40°	908.9	915.1	912.6	910.2	907.7	874.7	867.3	861.2	818.4	769.5	699.8
42.5°	954.2	950.5	960.3	964.0	955.4	945.6	916.3	895.5	857.6	818.4	756.0
45°	1008.0	1005.6	1009.3	1022.7	1010.5	1014.1	965.2	950.5	902.8	879.6	827.0
47.5°	1055.7	1061.9	1080.2	1083.9	1074.1	1091.2	1022.7	999.5	968.9	950.5	900.4
50°	1076.5	1083.9	1125.5	1151.2	1152.4	1179.3	1080.2	1070.4	1028.8	1036.2	992.1
52.5°	1059.4	1082.7	1132.8	1200.1	1241.7	1268.6	1156.1	1151.2	1113.2	1136.5	1092.4
55°	1075.3	1097.3	1130.4	1224.6	1329.8	1335.9	1261.3	1242.9	1205.0	1236.8	1196.4
57.5°	1082.7	1070.4	1132.8	1251.5	1394.6	1410.5	1361.6	1348.1	1318.8	1349.3	1326.1
60°	1025.2	1039.8	1098.6	1244.1	1398.3	1490.0	1474.1	1454.6	1427.6	1455.8	1442.3
62.5°	960.3	970.1	1033.7	1200.1	1419.1	1547.5	1583.0	1568.3	1530.4	1554.9	1578.1
65°	878.4	879.6	950.5	1121.8	1378.7	1580.6	1678.4	1677.2	1650.3	1644.2	1680.9
67.5°	778.0	787.8	844.1	1038.6	1323.7	1617.3	1772.6	1791.0	1737.1	1689.4	1702.9
70°	597.0	606.8	660.6	851.4	1211.1	1606.2	1888.8	1898.6	1793.4	1672.3	1638.1
72.5°	310.7	313.2	368.2	513.8	858.8	1426.4	1931.7	1957.3	1808.1	1622.1	1460.7
75°	102.8	102.8	126.0	195.7	404.9	912.6	1749.4	1795.9	1735.9	1497.4	1195.2
77.5°	61.2	62.4	74.6	97.9	161.5	364.6	1233.1	1315.1	1420.3	1273.5	873.5
80°	44.0	45.3	56.3	67.3	96.6	117.4	619.0	732.8	872.2	819.6	466.1
82.5°	33.0	33.0	44.0	50.2	66.1	69.7	172.5	236.1	376.8	293.6	128.5
85°	34.3	34.3	34.3	35.5	45.3	40.4	72.2	77.1	110.1	96.6	35.5
87.5°	12.2	13.5	34.3	23.2	23.2	17.1	28.1	30.6	39.1	40.4	13.5
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°	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4
2.5°	397.6	397.6	398.8	398.8	401.3	403.7	407.4	404.9	404.9	406.1	404.9
5°	396.4	397.6	401.3	407.4	409.8	411.0	418.4	418.4	418.4	420.8	420.8
7.5°	401.3	403.7	409.8	415.9	417.2	420.8	430.6	433.1	439.2	441.6	442.8
10°	413.5	417.2	422.1	429.4	434.3	439.2	446.5	455.1	453.9	461.2	462.4
12.5°	431.8	430.6	439.2	446.5	451.4	458.8	461.2	461.2	461.2	461.2	463.6
15°	446.5	449.0	456.3	461.2	467.3	466.1	461.2	456.3	457.5	456.3	456.3
17.5°	468.5	468.5	474.7	475.9	478.3	466.1	458.8	458.8	462.4	462.4	460.0
20°	490.6	489.3	491.8	490.6	474.7	460.0	458.8	460.0	461.2	460.0	458.8
22.5°	511.4	508.9	505.2	500.3	472.2	458.8	456.3	450.2	444.1	444.1	440.4
25°	529.7	527.3	517.5	502.8	471.0	451.4	439.2	424.5	417.2	413.5	418.4
27.5°	546.8	541.9	528.5	502.8	460.0	431.8	408.6	390.2	384.1	379.2	384.1
30°	570.1	561.5	543.2	499.1	442.8	401.3	369.4	347.4	341.3	334.0	336.4
32.5°	590.9	571.3	555.4	488.1	420.8	367.0	330.3	308.3	297.3	291.2	296.0
35°	612.9	593.3	560.3	471.0	386.6	325.4	288.7	267.9	259.3	250.8	250.8
37.5°	634.9	623.9	567.6	439.2	345.0	286.3	253.2	237.3	222.6	206.7	206.7
40°	681.4	666.7	576.2	402.5	303.4	248.3	225.1	204.3	189.6	167.6	166.4
42.5°	730.3	698.5	576.2	358.4	266.7	221.4	199.4	177.4	150.5	137.0	138.2
45°	792.7	756.0	560.3	319.3	230.0	199.4	174.9	146.8	134.6	126.0	126.0
47.5°	871.0	813.5	540.7	276.5	200.6	179.8	149.2	132.1	123.6	116.2	115.0
50°	964.0	866.1	516.2	239.8	176.2	161.5	135.8	122.3	115.0	110.1	110.1
52.5°	1061.9	943.2	499.1	206.7	156.6	137.0	126.0	117.4	111.3	107.7	106.4
55°	1160.9	1020.3	486.9	171.3	138.2	126.0	123.6	116.2	113.8	110.1	107.7
57.5°	1272.3	1083.9	484.4	146.8	123.6	121.1	126.0	119.9	116.2	112.5	108.9
60°	1392.2	1169.5	462.4	127.2	116.2	118.7	122.3	116.2	113.8	110.1	107.7
62.5°	1510.8	1233.1	402.5	112.5	108.9	111.3	116.2	111.3	107.7	108.9	110.1
65°	1559.8	1238.0	312.0	101.5	100.3	101.5	108.9	107.7	104.0	111.3	111.3
67.5°	1510.8	1194.0	220.2	91.8	91.8	97.9	110.1	112.5	108.9	118.7	117.4
70°	1399.5	1085.1	149.2	85.6	88.1	104.0	113.8	111.3	106.4	118.7	116.2
72.5°	1187.9	868.6	108.9	79.5	83.2	99.1	112.5	110.1	106.4	111.3	106.4
75°	891.8	617.8	85.6	72.2	73.4	89.3	116.2	110.1	100.3	97.9	94.2
77.5°	595.8	381.7	66.1	63.6	63.6	78.3	111.3	102.8	90.5	86.9	85.6
80°	283.8	152.9	52.6	53.8	55.1	67.3	101.5	91.8	82.0	77.1	77.1
82.5°	90.5	57.5	44.0	44.0	44.0	55.1	84.4	77.1	71.0	67.3	61.2
85°	31.8	31.8	37.9	39.1	35.5	40.4	69.7	66.1	58.7	48.9	47.7
87.5°	12.2	18.4	25.7	30.6	22.0	28.1	50.2	46.5	42.8	31.8	30.6
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)