

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: P671358

Luminaire Tested: **CCP-SA-1B-727-U-SL3**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671358  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1B-727-U-SL3  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ SL3 distribution lens  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

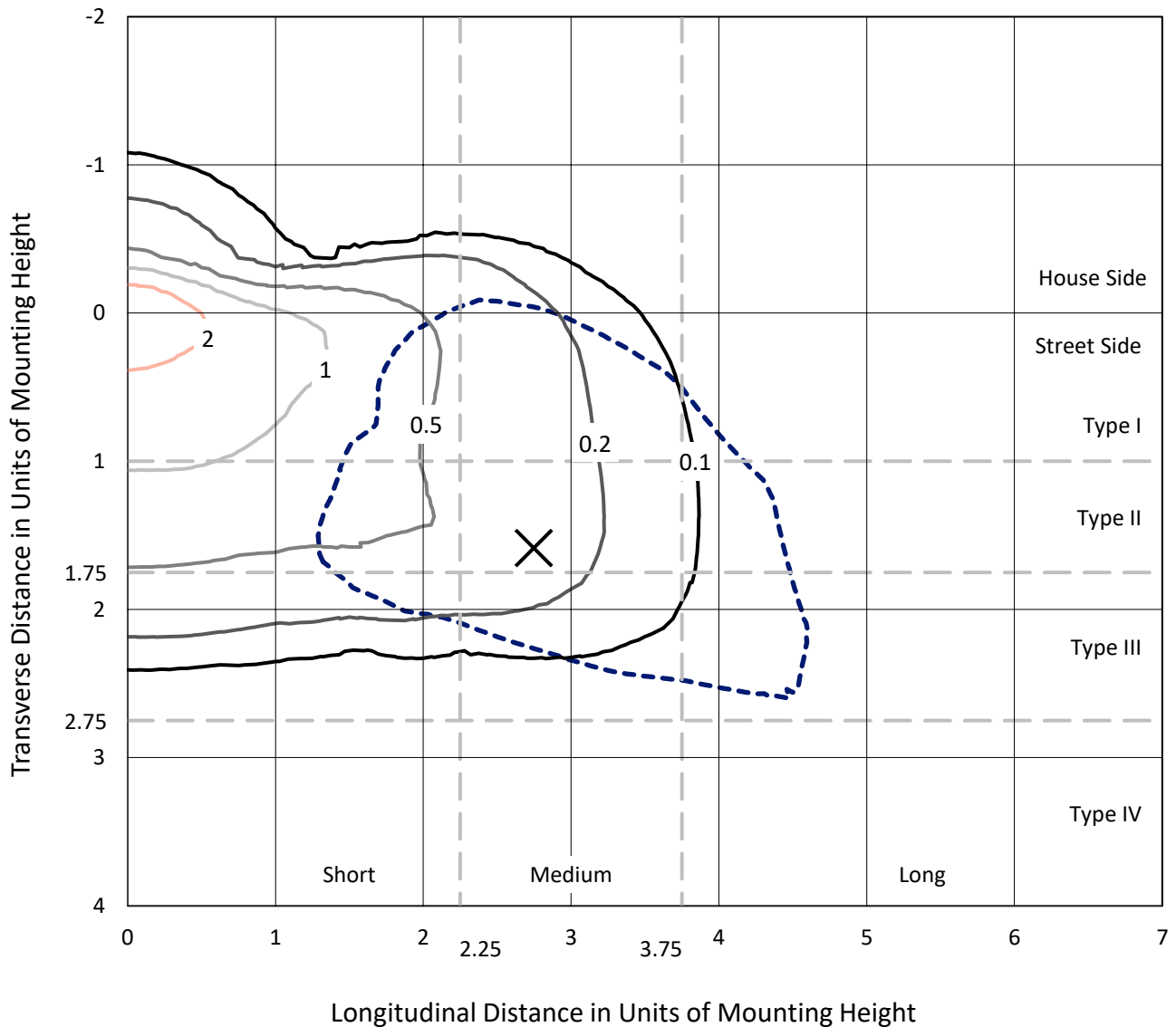
Lumens per Lamp: N/A  
Luminaire Lumens: 2855.7 lumens  
Efficiency: N/A  
Efficacy: 119.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 24  
Input Voltage (V): 120  
Input Current (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

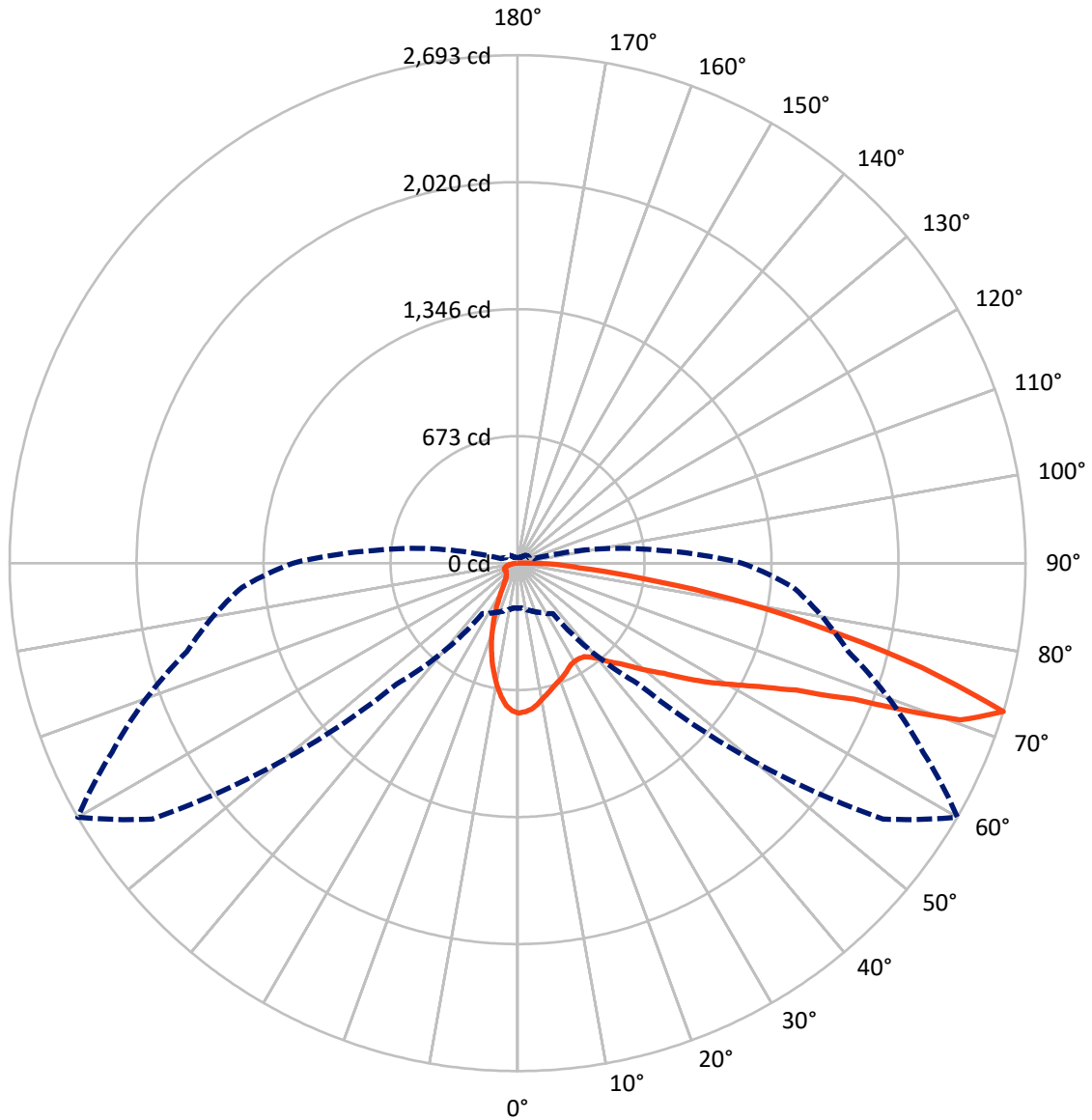
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.5 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	490.6	0.0	490.6
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	2365.2	0.0	2365.2
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	2855.7	0.0	2855.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.9	2.4
10°-20°	156.3	5.5
20°-30°	200.0	7.0
30°-40°	255.9	9.0
40°-50°	350.9	12.3
50°-60°	507.6	17.8
60°-70°	696.4	24.4
70°-80°	522.5	18.3
80°-90°	97.1	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°	2855.7	100.0
0°-180°	2855.7	100.0



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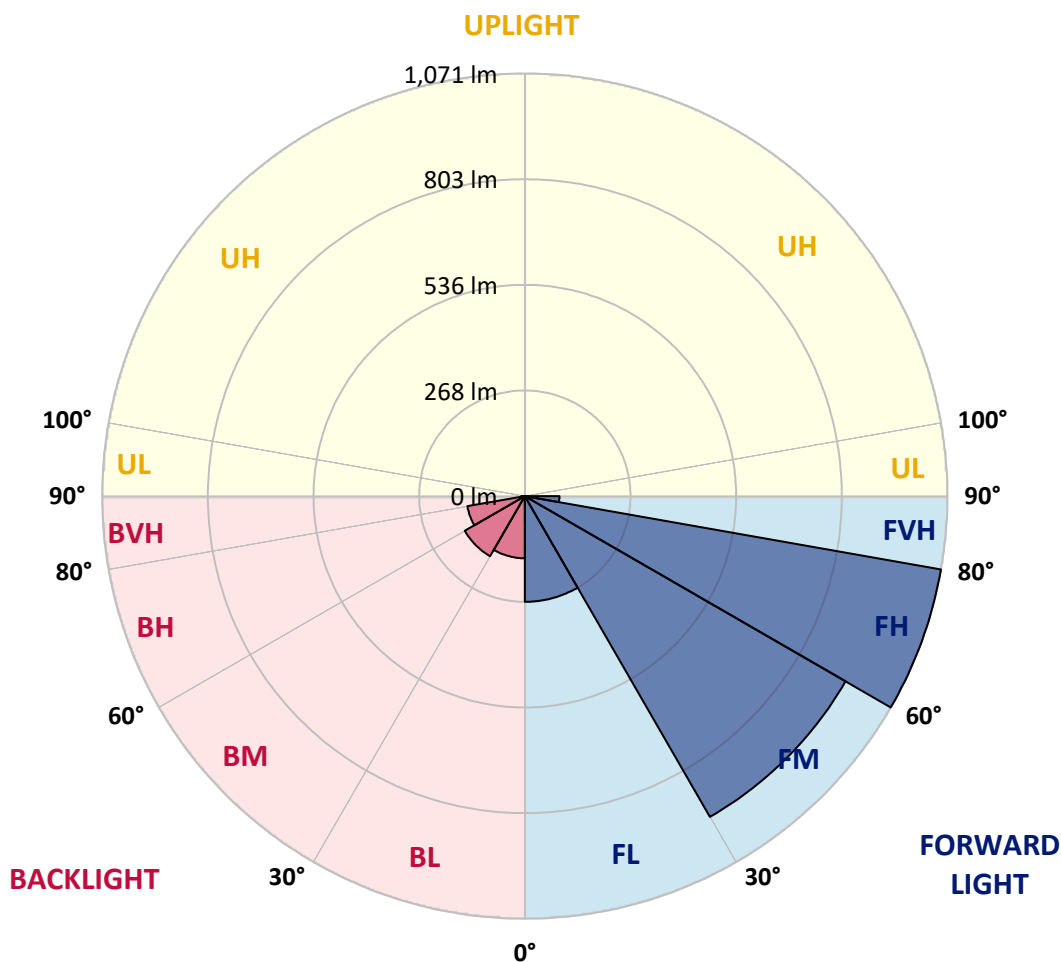
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	267.8	9.4			
FM (30°-60°)	938.6	32.9			
FH (60°-80°)	1071.1	37.5			G1/1800
FVH (80°-90°)	87.7	3.1			G1/100
BL (0°-30°)	157.5	5.5	B1/500		
BM (30°-60°)	175.8	6.2	B0/220		
BH (60°-80°)	147.8	5.2	B1/500		G1/500
BVH (80°-90°)	9.5	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°	795.2	795.2	795.2	795.2	795.2	795.2	795.2	795.2	795.2	795.2	795.2
2.5°	778.2	785.6	787.7	787.7	794.1	786.7	797.3	788.8	790.9	794.1	792.0
5°	741.0	753.7	746.3	760.1	754.8	764.3	777.1	777.1	773.9	780.3	775.0
7.5°	704.8	700.6	713.3	713.3	721.8	734.6	745.2	755.8	756.9	759.0	758.0
10°	655.9	661.2	667.6	676.1	686.7	699.5	721.8	730.3	732.5	745.2	742.0
12.5°	615.5	623.0	627.2	644.2	653.8	671.9	697.4	709.1	710.1	728.2	728.2
15°	585.8	590.0	599.6	606.0	627.2	652.7	677.2	687.8	699.5	718.6	713.3
17.5°	565.6	570.9	575.1	583.6	603.8	625.1	663.4	669.7	683.6	711.2	704.8
20°	553.9	554.9	561.3	566.6	584.7	604.9	638.9	655.9	674.0	698.4	692.1
22.5°	556.0	551.7	550.7	558.1	561.3	580.4	621.9	640.0	665.5	694.2	683.6
25°	560.2	561.3	559.2	552.8	553.9	570.9	598.5	621.9	650.6	693.1	671.9
27.5°	570.9	576.2	567.7	561.3	554.9	561.3	590.0	607.0	638.9	698.4	670.8
30°	581.5	586.8	584.7	575.1	562.4	560.2	580.4	601.7	632.5	702.7	670.8
32.5°	597.4	604.9	597.4	600.6	585.8	576.2	583.6	602.8	638.9	717.6	671.9
35°	615.5	621.9	624.0	616.6	613.4	595.3	599.6	609.1	645.3	734.6	682.5
37.5°	635.7	643.2	649.5	650.6	640.0	629.3	627.2	632.5	661.2	764.3	694.2
40°	649.5	653.8	666.5	677.2	680.4	665.5	664.4	664.4	689.9	790.9	715.4
42.5°	672.9	670.8	688.9	708.0	713.3	704.8	706.9	715.4	730.3	829.2	749.5
45°	684.6	682.5	703.8	735.6	760.1	755.8	758.0	761.2	775.0	889.8	806.9
47.5°	700.6	702.7	733.5	769.7	795.2	810.1	821.8	820.7	831.3	951.4	870.7
50°	716.5	720.8	758.0	796.2	840.9	866.4	883.4	895.1	905.7	1016.3	944.0
52.5°	747.3	751.6	793.1	834.5	891.9	929.1	971.6	970.6	971.6	1081.1	1017.4
55°	792.0	793.1	817.5	865.3	942.9	1011.0	1069.5	1075.8	1057.8	1161.9	1101.3
57.5°	843.0	847.3	868.5	904.7	983.3	1089.6	1178.9	1191.7	1142.8	1227.8	1177.9
60°	890.9	894.0	927.0	968.5	1053.5	1188.5	1289.5	1304.4	1251.2	1308.6	1257.6
62.5°	836.6	852.6	911.1	1005.7	1176.8	1338.4	1429.8	1439.4	1356.5	1390.5	1342.7
65°	669.7	680.4	764.3	917.4	1185.3	1610.6	1646.7	1621.2	1501.1	1495.7	1471.3
67.5°	373.1	381.6	439.0	599.6	998.2	1712.6	2113.4	1926.3	1725.4	1654.1	1645.6
70°	294.5	296.6	304.0	337.0	553.9	1509.6	2481.2	2489.7	2092.1	1872.1	1682.8
72.5°	239.2	238.1	260.5	289.2	327.4	905.7	2365.3	2692.8	2372.8	1814.7	1466.0
75°	182.8	186.0	214.7	256.2	299.8	426.3	1764.7	2215.4	2222.9	1691.3	1236.4
77.5°	139.3	140.3	172.2	226.4	293.4	300.8	1151.3	1651.0	1658.4	1309.7	681.4
80°	104.2	104.2	130.8	191.4	286.0	277.5	709.1	1144.9	1036.5	460.3	148.8
82.5°	59.5	63.8	87.2	145.6	259.4	266.8	399.7	655.9	438.0	125.4	69.1
85°	31.9	33.0	53.2	97.8	213.7	255.1	305.1	326.4	174.3	67.0	31.9
87.5°	11.7	11.7	24.5	50.0	135.0	189.2	242.4	208.4	99.9	30.8	15.9
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°	795.2	795.2	795.2	795.2	795.2	795.2	795.2	795.2	795.2	795.2	795.2
2.5°	794.1	789.9	786.7	789.9	778.2	772.9	779.2	776.0	769.7	766.5	764.3
5°	778.2	772.9	767.5	764.3	751.6	738.8	732.5	719.7	709.1	712.3	705.9
7.5°	761.2	755.8	739.9	725.0	699.5	674.0	662.3	644.2	637.8	632.5	629.3
10°	739.9	730.3	705.9	676.1	638.9	610.2	580.4	559.2	536.9	527.3	530.5
12.5°	713.3	708.0	669.7	624.0	571.9	524.1	489.0	455.0	425.2	409.3	405.0
15°	701.6	685.7	630.4	569.8	503.9	444.4	392.3	332.7	297.7	280.7	280.7
17.5°	688.9	659.1	593.2	510.3	434.8	358.3	284.9	230.7	203.0	193.5	193.5
20°	668.7	635.7	549.6	453.9	362.5	270.0	204.1	174.3	165.8	159.5	160.5
22.5°	653.8	613.4	509.2	398.7	287.0	200.9	160.5	151.0	147.8	145.6	146.7
25°	636.8	586.8	466.7	339.1	225.4	158.4	139.3	135.0	137.1	138.2	138.2
27.5°	623.0	564.5	423.1	275.3	170.1	133.9	125.4	124.4	128.6	130.8	131.8
30°	613.4	544.3	380.6	216.9	136.1	119.1	114.8	114.8	120.1	122.3	123.3
32.5°	603.8	527.3	334.9	165.8	115.9	106.3	105.2	106.3	109.5	109.5	110.6
35°	607.0	511.3	291.3	133.9	104.2	97.8	97.8	97.8	98.9	99.9	99.9
37.5°	613.4	507.1	244.5	112.7	95.7	91.4	91.4	90.4	91.4	90.4	91.4
40°	619.8	500.7	202.0	99.9	90.4	87.2	86.1	84.0	82.9	82.9	84.0
42.5°	646.3	509.2	165.8	91.4	86.1	84.0	80.8	78.7	77.6	77.6	77.6
45°	680.4	525.2	137.1	87.2	82.9	77.6	75.5	74.4	72.3	73.4	74.4
47.5°	731.4	549.6	120.1	84.0	79.7	73.4	71.2	69.1	69.1	71.2	71.2
50°	798.4	590.0	109.5	80.8	76.5	70.2	67.0	65.9	65.9	69.1	69.1
52.5°	870.7	636.8	105.2	79.7	73.4	67.0	63.8	62.7	62.7	67.0	67.0
55°	942.9	694.2	108.4	79.7	71.2	63.8	60.6	58.5	59.5	62.7	62.7
57.5°	1022.7	755.8	124.4	79.7	69.1	62.7	58.5	55.3	56.3	57.4	57.4
60°	1109.8	836.6	152.0	79.7	68.0	60.6	55.3	51.0	51.0	52.1	52.1
62.5°	1198.1	916.4	191.4	80.8	69.1	59.5	51.0	46.8	45.7	46.8	46.8
65°	1314.0	1043.9	230.7	80.8	72.3	57.4	47.8	42.5	41.5	41.5	42.5
67.5°	1476.6	1135.4	178.6	77.6	74.4	57.4	44.6	39.3	37.2	37.2	37.2
70°	1390.5	957.8	113.7	72.3	71.2	59.5	42.5	36.1	34.0	33.0	33.0
72.5°	1190.6	766.5	91.4	68.0	65.9	58.5	40.4	34.0	30.8	29.8	29.8
75°	954.6	604.9	79.7	61.7	57.4	48.9	37.2	30.8	28.7	26.6	26.6
77.5°	467.8	253.0	60.6	54.2	48.9	37.2	33.0	28.7	25.5	23.4	23.4
80°	116.9	88.2	44.6	42.5	36.1	28.7	26.6	24.5	22.3	20.2	20.2
82.5°	62.7	52.1	31.9	28.7	24.5	20.2	20.2	19.1	18.1	15.9	14.9
85°	31.9	30.8	21.3	19.1	15.9	12.8	13.8	13.8	12.8	9.6	9.6
87.5°	17.0	17.0	10.6	8.5	7.4	6.4	6.4	6.4	5.3	4.3	4.3
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)