

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: P675621

Luminaire Tested: **CCW-SA-1B-840-U-SL3**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675621
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-840-U-SL3
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
SL3 distribution lens
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

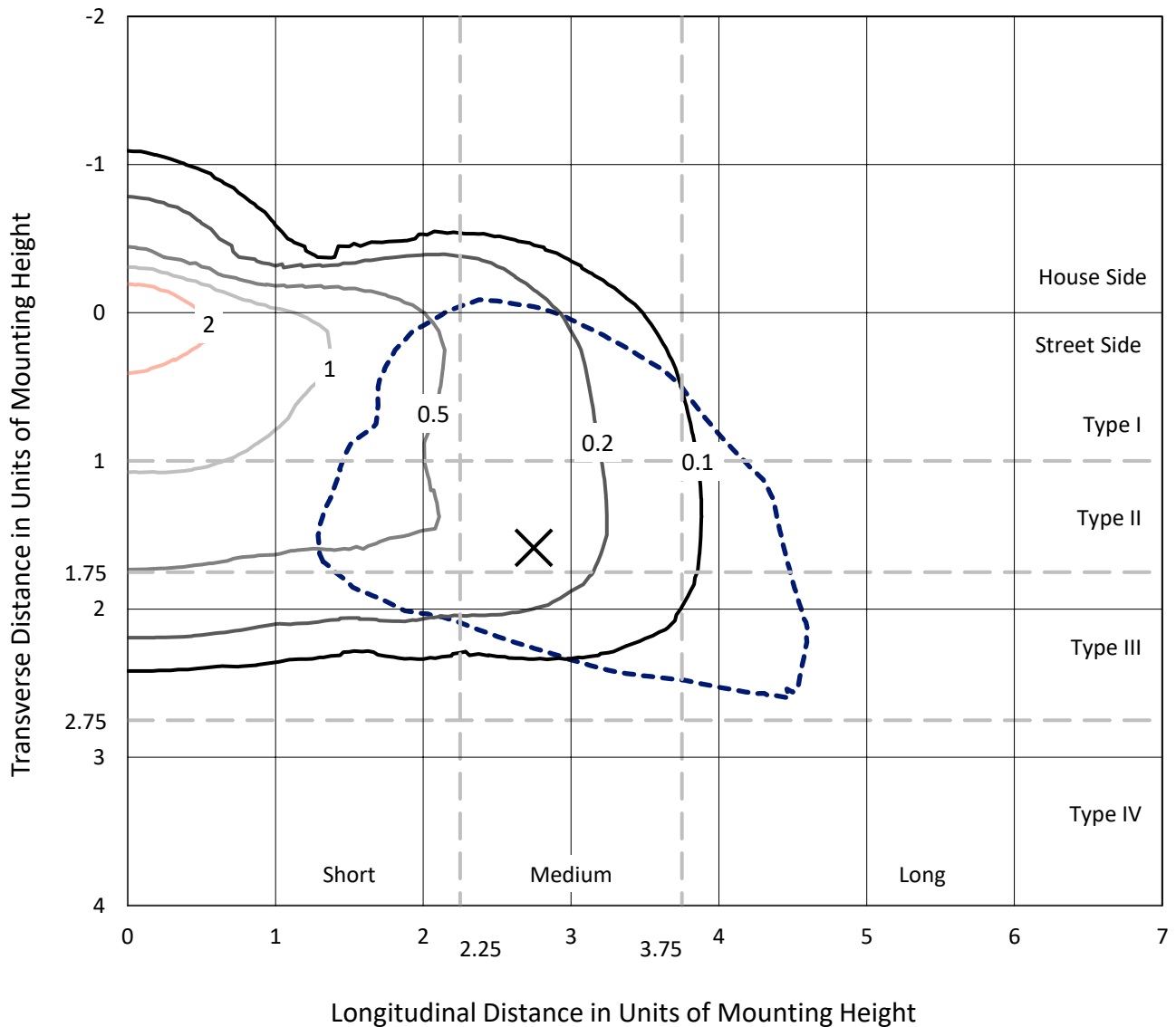
Lumens per Lamp: N/A
Luminaire Lumens: 2911.4 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

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

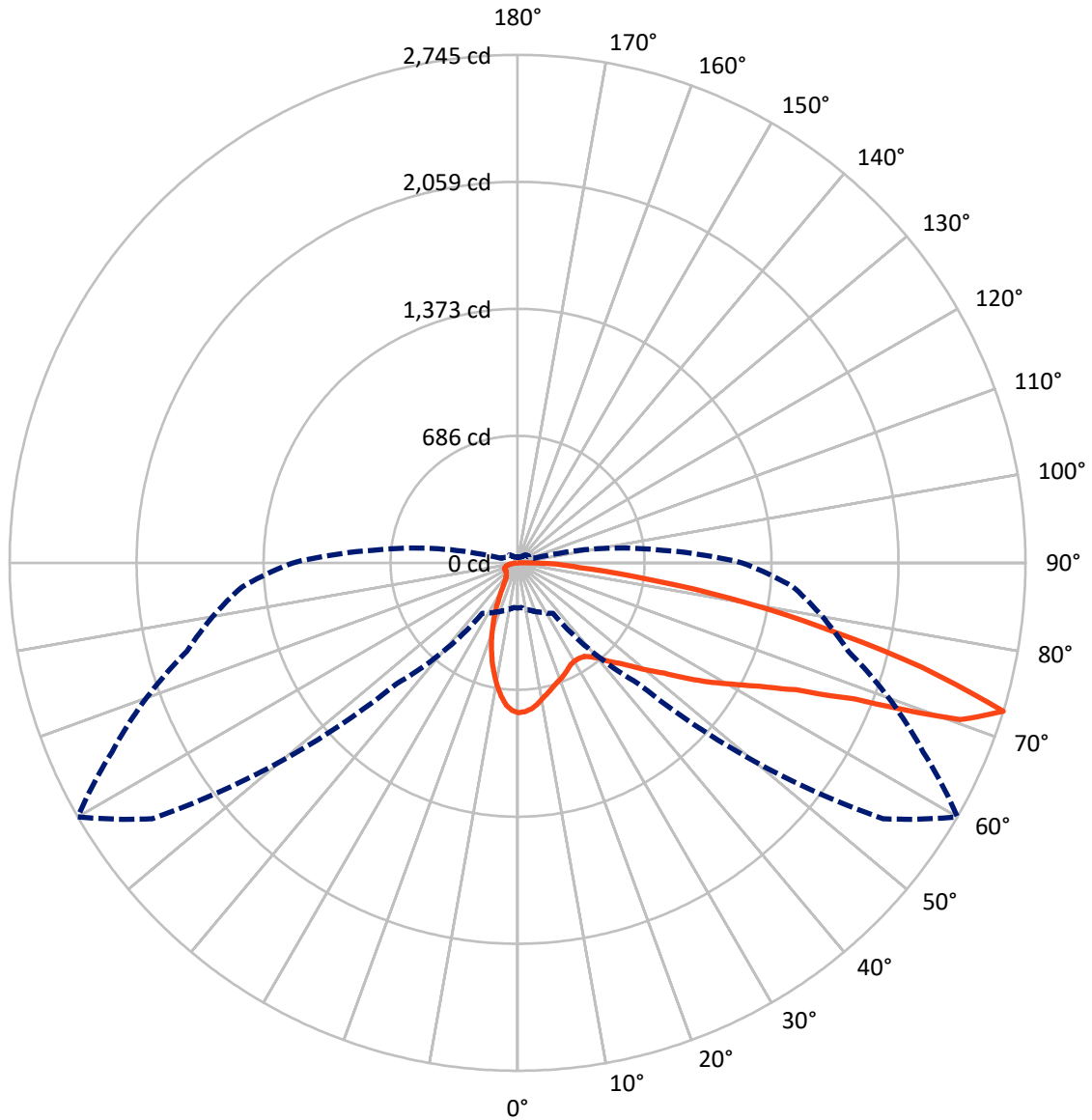
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.6 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
House Side	Lumens	500.1	0.0	500.1
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	2411.2	0.0	2411.2
	% Fixture	82.8	0.0	82.8
Total	Lumens	2911.4	0.0	2911.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	2.4
10°-20°	159.3	5.5
20°-30°	203.9	7.0
30°-40°	260.9	9.0
40°-50°	357.8	12.3
50°-60°	517.5	17.8
60°-70°	709.9	24.4
70°-80°	532.7	18.3
80°-90°	99.0	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°	2911.4	100.0
0°-180°	2911.4	100.0

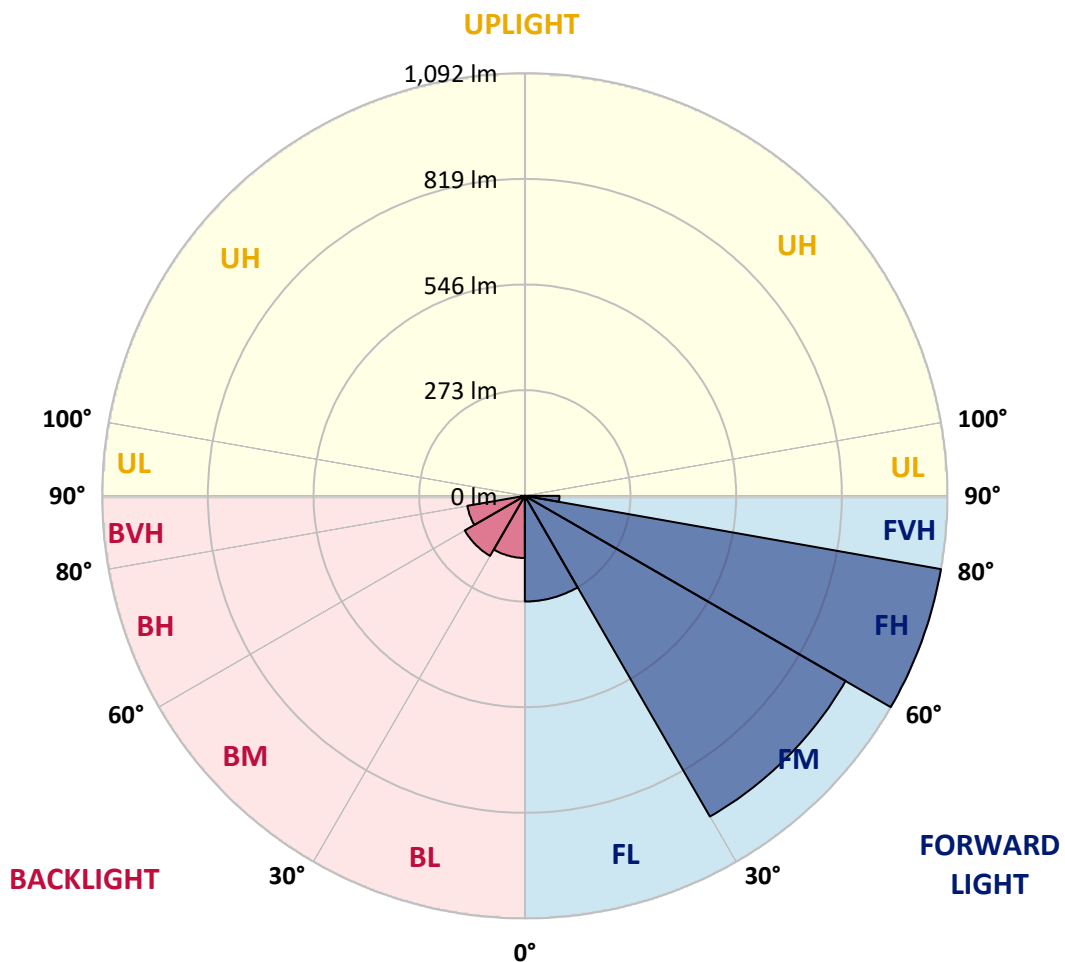


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	273.0	9.4			
FM	(30°-60°)	956.9	32.9			
FH	(60°-80°)	1091.9	37.5			G1/1800
FVH	(80°-90°)	89.4	3.1			G1/100
BL	(0°-30°)	160.5	5.5	B1/500		
BM	(30°-60°)	179.2	6.2	B0/220		
BH	(60°-80°)	150.7	5.2	B1/500		G1/500
BVH	(80°-90°)	9.6	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°	810.7	810.7	810.7	810.7	810.7	810.7	810.7	810.7	810.7	810.7	810.7
2.5°	793.3	800.9	803.1	803.1	809.6	802.0	812.8	804.2	806.3	809.6	807.4
5°	755.4	768.4	760.8	774.9	769.5	779.2	792.3	792.3	789.0	795.5	790.1
7.5°	718.6	714.2	727.2	727.2	735.9	748.9	759.7	770.6	771.7	773.8	772.7
10°	668.7	674.1	680.6	689.3	700.1	713.1	735.9	744.6	746.7	759.7	756.5
12.5°	627.5	635.1	639.4	656.8	666.5	685.0	711.0	722.9	724.0	742.4	742.4
15°	597.2	601.5	611.3	617.8	639.4	665.4	690.4	701.2	713.1	732.6	727.2
17.5°	576.6	582.0	586.3	595.0	615.6	637.3	676.3	682.8	696.9	725.1	718.6
20°	564.7	565.7	572.2	577.7	596.1	616.7	651.4	668.7	687.1	712.1	705.5
22.5°	566.8	562.5	561.4	569.0	572.2	591.8	634.0	652.4	678.5	707.7	696.9
25°	571.2	572.2	570.1	563.6	564.7	582.0	610.2	634.0	663.3	706.6	685.0
27.5°	582.0	587.4	578.7	572.2	565.7	572.2	601.5	618.8	651.4	712.1	683.9
30°	592.8	598.3	596.1	586.3	573.3	571.2	591.8	613.4	644.9	716.4	683.9
32.5°	609.1	616.7	609.1	612.3	597.2	587.4	595.0	614.5	651.4	731.6	685.0
35°	627.5	634.0	636.2	628.6	625.3	606.9	611.3	621.0	657.9	748.9	695.8
37.5°	648.1	655.7	662.2	663.3	652.4	641.6	639.4	644.9	674.1	779.2	707.7
40°	662.2	666.5	679.5	690.4	693.6	678.5	677.4	677.4	703.4	806.3	729.4
42.5°	686.0	683.9	702.3	721.8	727.2	718.6	720.7	729.4	744.6	845.4	764.1
45°	698.0	695.8	717.5	750.0	774.9	770.6	772.7	776.0	790.1	907.1	822.6
47.5°	714.2	716.4	747.8	784.7	810.7	825.8	837.8	836.7	847.5	970.0	887.6
50°	730.5	734.8	772.7	811.8	857.3	883.3	900.6	912.6	923.4	1036.1	962.4
52.5°	761.9	766.2	808.5	850.8	909.3	947.2	990.6	989.5	990.6	1102.2	1037.2
55°	807.4	808.5	833.4	882.2	961.3	1030.7	1090.3	1096.8	1078.4	1184.6	1122.8
57.5°	859.4	863.8	885.5	922.3	1002.5	1110.9	1201.9	1214.9	1165.1	1251.8	1200.8
60°	908.2	911.5	945.1	987.3	1074.0	1211.7	1314.6	1329.8	1275.6	1334.1	1282.1
62.5°	852.9	869.2	928.8	1025.3	1199.8	1364.5	1457.7	1467.5	1382.9	1417.6	1368.8
65°	682.8	693.6	779.2	935.3	1208.4	1641.9	1678.8	1652.8	1530.3	1524.9	1500.0
67.5°	380.4	389.1	447.6	611.3	1017.7	1746.0	2154.6	1963.8	1759.0	1686.4	1677.7
70°	300.2	302.4	310.0	343.6	564.7	1539.0	2529.6	2538.2	2132.9	1908.6	1715.6
72.5°	243.9	242.8	265.5	294.8	333.8	923.4	2411.4	2745.2	2419.0	1850.0	1494.5
75°	186.4	189.7	218.9	261.2	305.6	434.6	1799.1	2258.6	2266.2	1724.3	1260.5
77.5°	142.0	143.1	175.6	230.8	299.1	306.7	1173.7	1683.1	1690.7	1335.2	694.7
80°	106.2	106.2	133.3	195.1	291.5	282.9	722.9	1167.2	1056.7	469.3	151.7
82.5°	60.7	65.0	88.9	148.5	264.4	272.0	407.5	668.7	446.5	127.9	70.4
85°	32.5	33.6	54.2	99.7	217.8	260.1	311.0	332.7	177.7	68.3	32.5
87.5°	11.9	11.9	24.9	50.9	137.6	192.9	247.1	212.4	101.9	31.4	16.3
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°	810.7	810.7	810.7	810.7	810.7	810.7	810.7	810.7	810.7	810.7	810.7
2.5°	809.6	805.3	802.0	805.3	793.3	787.9	794.4	791.2	784.7	781.4	779.2
5°	793.3	787.9	782.5	779.2	766.2	753.2	746.7	733.7	722.9	726.1	719.6
7.5°	776.0	770.6	754.3	739.1	713.1	687.1	675.2	656.8	650.3	644.9	641.6
10°	754.3	744.6	719.6	689.3	651.4	622.1	591.8	570.1	547.3	537.6	540.8
12.5°	727.2	721.8	682.8	636.2	583.1	534.3	498.5	463.9	433.5	417.3	412.9
15°	715.3	699.0	642.7	580.9	513.7	453.0	399.9	339.2	303.5	286.1	286.1
17.5°	702.3	672.0	604.8	520.2	443.3	365.2	290.5	235.2	207.0	197.3	197.3
20°	681.7	648.1	560.3	462.8	369.6	275.3	208.1	177.7	169.1	162.6	163.7
22.5°	666.5	625.3	519.1	406.4	292.6	204.8	163.7	153.9	150.6	148.5	149.6
25°	649.2	598.3	475.8	345.7	229.8	161.5	142.0	137.6	139.8	140.9	140.9
27.5°	635.1	575.5	431.3	280.7	173.4	136.6	127.9	126.8	131.1	133.3	134.4
30°	625.3	554.9	388.0	221.1	138.7	121.4	117.0	117.0	122.5	124.6	125.7
32.5°	615.6	537.6	341.4	169.1	118.1	108.4	107.3	108.4	111.6	111.6	112.7
35°	618.8	521.3	297.0	136.6	106.2	99.7	99.7	99.7	100.8	101.9	101.9
37.5°	625.3	517.0	249.3	114.9	97.5	93.2	93.2	92.1	93.2	92.1	93.2
40°	631.9	510.5	205.9	101.9	92.1	88.9	87.8	85.6	84.5	84.5	85.6
42.5°	658.9	519.1	169.1	93.2	87.8	85.6	82.4	80.2	79.1	79.1	79.1
45°	693.6	535.4	139.8	88.9	84.5	79.1	76.9	75.9	73.7	74.8	75.9
47.5°	745.6	560.3	122.5	85.6	81.3	74.8	72.6	70.4	70.4	72.6	72.6
50°	813.9	601.5	111.6	82.4	78.0	71.5	68.3	67.2	67.2	70.4	70.4
52.5°	887.6	649.2	107.3	81.3	74.8	68.3	65.0	63.9	63.9	68.3	68.3
55°	961.3	707.7	110.5	81.3	72.6	65.0	61.8	59.6	60.7	63.9	63.9
57.5°	1042.6	770.6	126.8	81.3	70.4	63.9	59.6	56.4	57.4	58.5	58.5
60°	1131.5	852.9	155.0	81.3	69.4	61.8	56.4	52.0	52.0	53.1	53.1
62.5°	1221.4	934.2	195.1	82.4	70.4	60.7	52.0	47.7	46.6	47.7	47.7
65°	1339.6	1064.3	235.2	82.4	73.7	58.5	48.8	43.4	42.3	42.3	43.4
67.5°	1505.4	1157.5	182.1	79.1	75.9	58.5	45.5	40.1	37.9	37.9	37.9
70°	1417.6	976.5	116.0	73.7	72.6	60.7	43.4	36.8	34.7	33.6	33.6
72.5°	1213.8	781.4	93.2	69.4	67.2	59.6	41.2	34.7	31.4	30.3	30.3
75°	973.2	616.7	81.3	62.9	58.5	49.9	37.9	31.4	29.3	27.1	27.1
77.5°	476.9	257.9	61.8	55.3	49.9	37.9	33.6	29.3	26.0	23.8	23.8
80°	119.2	90.0	45.5	43.4	36.8	29.3	27.1	24.9	22.8	20.6	20.6
82.5°	63.9	53.1	32.5	29.3	24.9	20.6	20.6	19.5	18.4	16.3	15.2
85°	32.5	31.4	21.7	19.5	16.3	13.0	14.1	14.1	13.0	9.8	9.8
87.5°	17.3	17.3	10.8	8.7	7.6	6.5	6.5	6.5	5.4	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)