

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: P674879

Luminaire Tested: **CCW-SA-1B-830-U-T2**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P674879
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-830-U-T2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
T2 distribution lens
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2737.4 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - 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

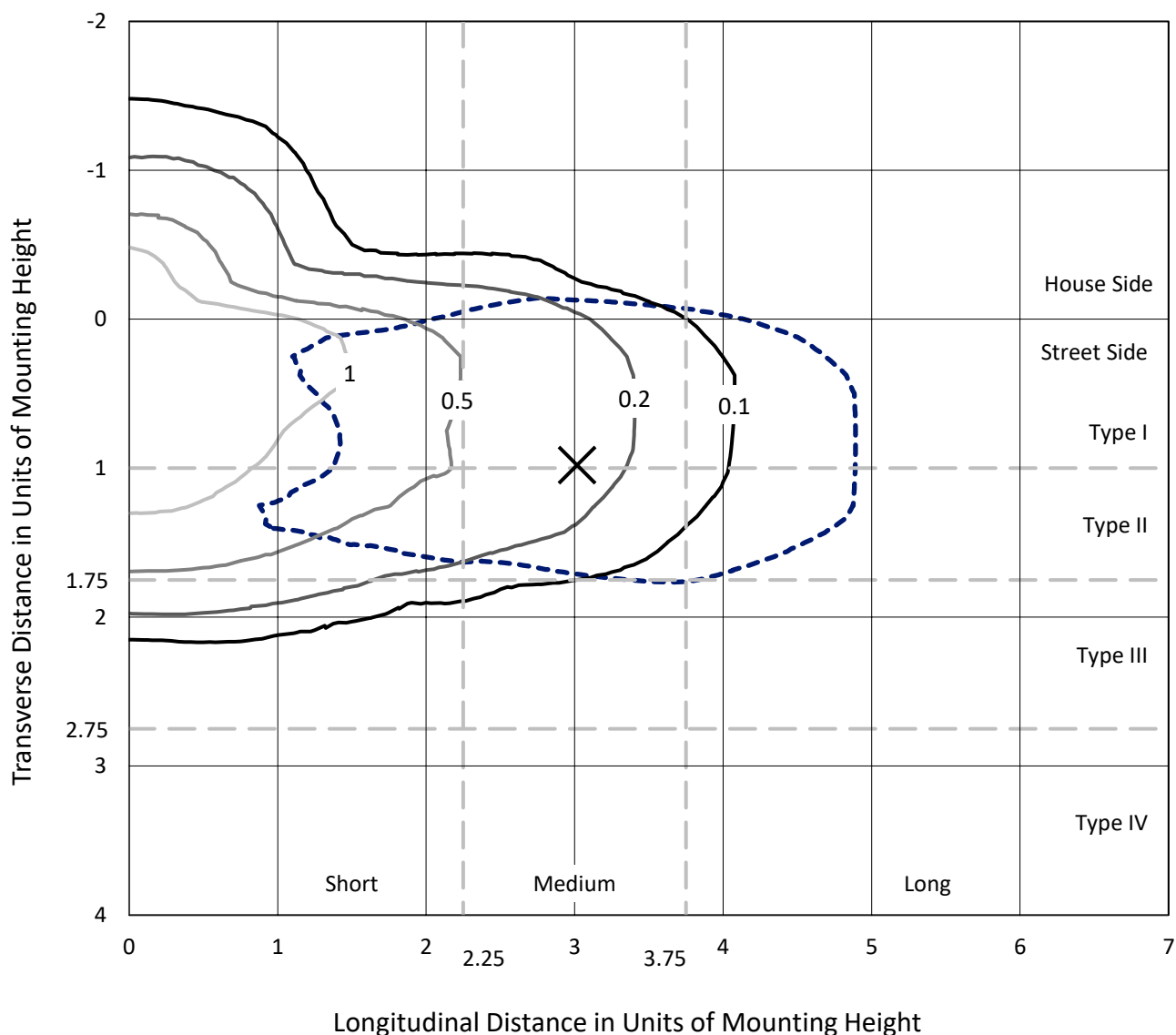
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

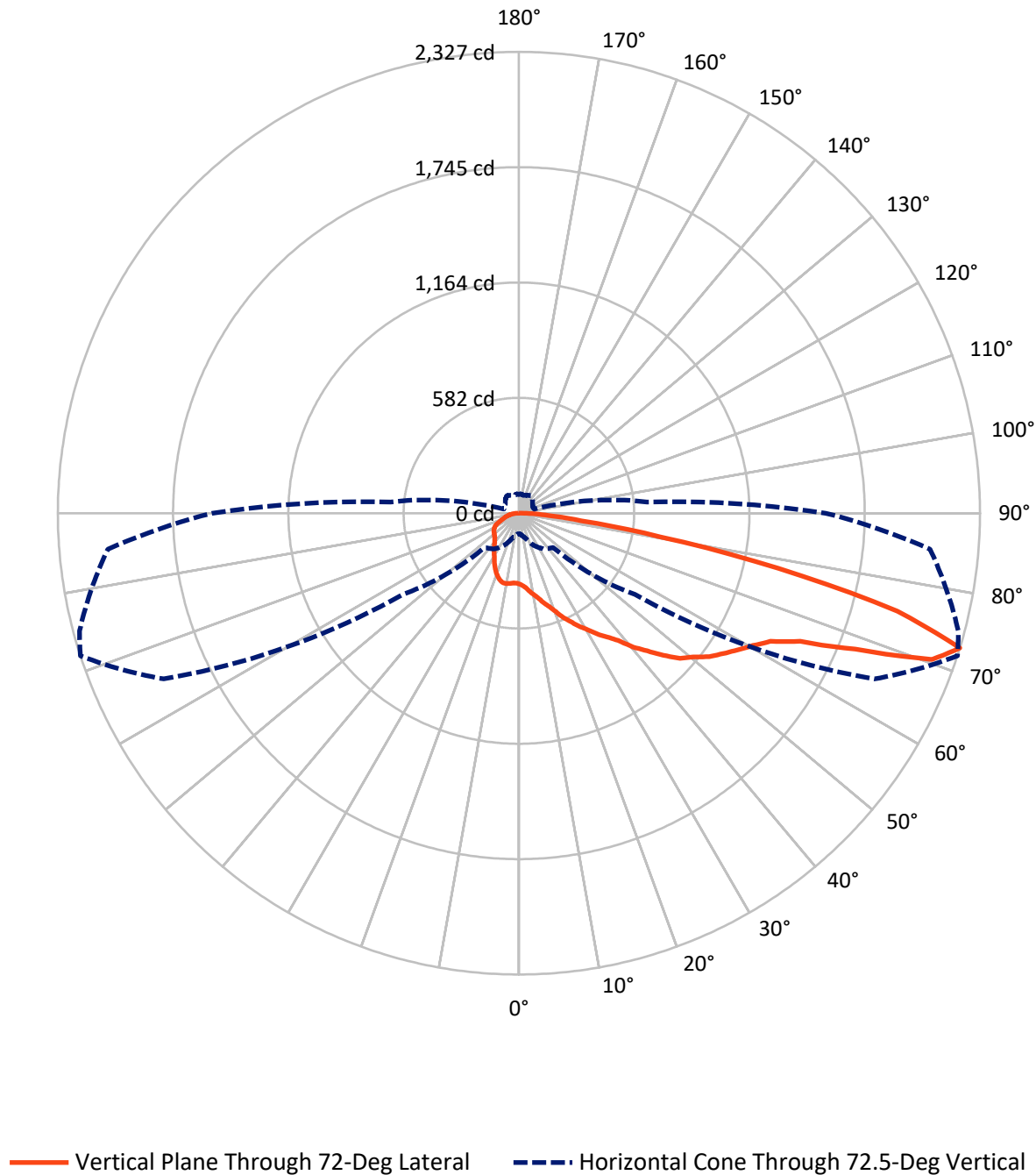
--- 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	576.1	0.0	576.1
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	2161.3	0.0	2161.3
	% Fixture	79.0	0.0	79.0
Total	Lumens	2737.4	0.0	2737.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.4	1.3
10°-20°	109.9	4.0
20°-30°	190.1	6.9
30°-40°	280.8	10.3
40°-50°	417.5	15.3
50°-60°	572.4	20.9
60°-70°	620.9	22.7
70°-80°	437.7	16.0
80°-90°	72.7	2.7
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°	2737.4	100.0
0°-180°	2737.4	100.0

Coefficient of Utilization



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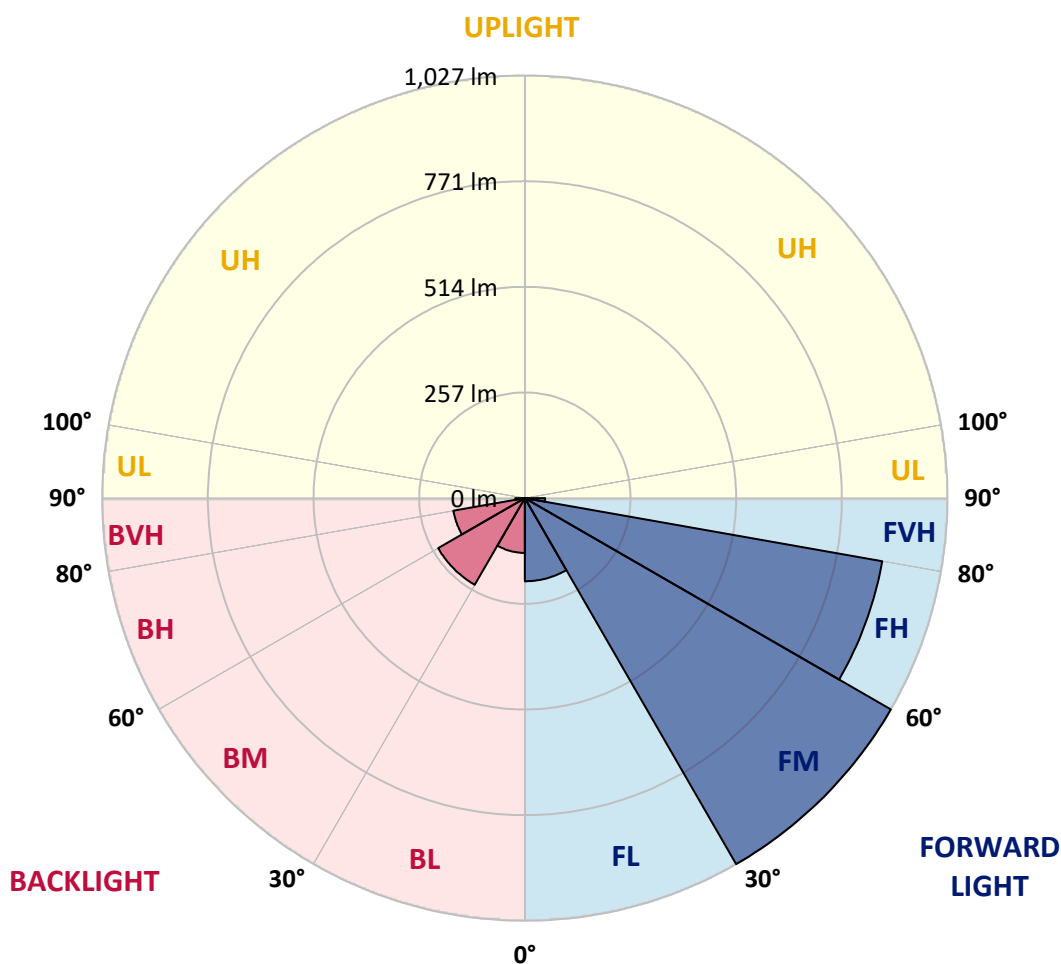
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	202.1	7.4			
FM	(30°-60°)	1027.4	37.5			
FH	(60°-80°)	882.2	32.2			G1/1800
FVH	(80°-90°)	49.6	1.8			G1/100
BL	(0°-30°)	133.2	4.9	B1/500		
BM	(30°-60°)	243.3	8.9	B1/1000		
BH	(60°-80°)	176.5	6.4	B1/500		G1/500
BVH	(80°-90°)	23.1	0.8			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	357.6	357.6	357.6	357.6	357.6	357.6	357.6	357.6	357.6	357.6	357.6
2.5°	385.9	385.9	382.8	381.8	381.8	373.7	374.8	369.7	365.7	365.7	361.6
5°	406.1	404.0	404.0	404.0	399.0	396.0	395.0	385.9	378.8	379.8	367.7
7.5°	411.1	412.1	413.1	418.2	415.2	417.2	415.2	405.1	400.0	395.0	383.8
10°	414.1	416.2	416.2	423.2	423.2	428.3	431.3	427.3	418.2	413.1	395.0
12.5°	421.2	418.2	422.2	427.3	432.3	441.4	450.5	446.5	440.4	434.3	414.1
15°	421.2	422.2	425.3	433.3	441.4	450.5	466.7	472.7	469.7	458.6	437.4
17.5°	409.1	406.1	420.2	435.4	450.5	461.6	482.8	497.0	495.0	490.9	458.6
20°	410.1	413.1	418.2	431.3	455.6	475.8	502.0	525.3	530.3	528.3	486.9
22.5°	428.3	429.3	434.3	440.4	459.6	485.9	525.3	562.6	571.7	566.7	518.2
25°	446.5	454.5	454.5	458.6	465.7	492.9	540.4	592.9	606.1	607.1	550.5
27.5°	475.8	477.8	483.8	485.9	491.9	508.1	557.6	615.2	645.5	641.4	579.8
30°	510.1	511.1	515.2	513.1	514.1	534.3	573.7	640.4	681.8	682.8	611.1
32.5°	550.5	558.6	560.6	547.5	549.5	554.6	599.0	670.7	727.3	720.2	638.4
35°	610.1	613.1	607.1	601.0	585.9	582.8	625.3	701.0	766.7	774.8	678.8
37.5°	683.8	691.9	683.8	651.5	635.4	623.2	657.6	734.3	814.1	841.4	719.2
40°	752.5	751.5	743.4	714.1	685.9	676.8	704.0	780.8	887.9	914.1	777.8
42.5°	808.1	805.1	800.0	777.8	751.5	736.4	757.6	829.3	949.5	1000.0	845.5
45°	856.6	852.5	853.5	828.3	803.0	811.1	811.1	884.9	1022.2	1084.9	923.2
47.5°	902.0	904.0	901.0	881.8	862.6	883.8	872.7	948.5	1093.9	1163.6	988.9
50°	954.6	958.6	948.5	936.4	919.2	940.4	926.3	1008.1	1140.4	1235.4	1067.7
52.5°	1004.0	1008.1	1017.2	1002.0	984.9	1002.0	969.7	1063.6	1202.0	1305.1	1128.3
55°	1016.2	1014.2	1064.7	1080.8	1089.9	1038.4	1008.1	1111.1	1250.5	1349.5	1197.0
57.5°	960.6	965.7	1034.4	1080.8	1177.8	1133.3	1051.5	1166.7	1301.0	1408.1	1260.6
60°	822.2	825.3	911.1	1021.2	1162.6	1222.2	1168.7	1238.4	1356.6	1457.6	1332.3
62.5°	549.5	572.7	679.8	852.5	1055.6	1246.5	1355.6	1359.6	1424.3	1520.2	1430.3
65°	289.9	301.0	384.9	524.2	800.0	1162.6	1531.3	1600.0	1559.6	1635.4	1571.7
67.5°	189.9	193.9	239.4	318.2	461.6	848.5	1551.5	2017.2	1831.3	1854.6	1798.0
70°	141.4	143.4	176.8	235.4	285.9	453.5	1271.7	2212.1	2211.1	2149.5	2066.7
72.5°	104.0	107.1	130.3	179.8	220.2	244.4	715.2	1978.8	2327.3	2296.0	2082.8
75°	81.8	83.8	96.0	139.4	177.8	160.6	362.6	1465.7	1973.8	2124.3	1906.1
77.5°	66.7	68.7	75.8	101.0	142.4	124.2	173.7	945.5	1338.4	1529.3	1458.6
80°	55.6	55.6	60.6	71.7	110.1	93.9	103.0	531.3	721.2	796.0	661.6
82.5°	47.5	46.5	50.5	52.5	81.8	67.7	66.7	240.4	317.2	336.4	248.5
85°	30.3	31.3	47.5	45.5	53.5	46.5	37.4	114.1	149.5	152.5	92.9
87.5°	12.1	12.1	20.2	25.3	30.3	28.3	18.2	51.5	65.7	65.7	26.3
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°	357.6	357.6	357.6	357.6	357.6	357.6	357.6	357.6	357.6	357.6	357.6
2.5°	360.6	356.6	353.5	351.5	346.5	341.4	342.4	341.4	337.4	335.4	335.4
5°	364.6	360.6	355.6	347.5	342.4	336.4	338.4	334.3	330.3	333.3	328.3
7.5°	374.8	367.7	360.6	348.5	340.4	331.3	327.3	325.3	322.2	320.2	320.2
10°	388.9	378.8	365.7	347.5	334.3	320.2	318.2	314.1	311.1	311.1	310.1
12.5°	403.0	391.9	369.7	340.4	318.2	308.1	307.1	308.1	310.1	311.1	312.1
15°	421.2	403.0	368.7	327.3	305.1	301.0	306.1	310.1	314.1	318.2	317.2
17.5°	438.4	417.2	359.6	311.1	293.9	295.0	304.0	312.1	320.2	324.2	325.3
20°	461.6	430.3	346.5	291.9	282.8	291.9	304.0	314.1	323.2	328.3	329.3
22.5°	487.9	445.5	329.3	274.7	273.7	282.8	295.0	310.1	320.2	329.3	328.3
25°	511.1	455.6	307.1	260.6	262.6	268.7	282.8	299.0	309.1	319.2	316.2
27.5°	526.3	457.6	283.8	250.5	250.5	256.6	269.7	279.8	288.9	297.0	298.0
30°	543.4	453.5	257.6	237.4	237.4	245.5	250.5	256.6	261.6	263.6	265.7
32.5°	563.6	444.4	241.4	227.3	227.3	233.3	236.4	234.3	233.3	228.3	231.3
35°	582.8	431.3	223.2	214.1	218.2	221.2	220.2	214.1	208.1	199.0	196.0
37.5°	606.1	418.2	207.1	200.0	207.1	208.1	208.1	201.0	192.9	181.8	181.8
40°	641.4	408.1	193.9	190.9	198.0	197.0	191.9	186.9	189.9	183.8	183.8
42.5°	678.8	404.0	181.8	182.8	185.9	186.9	181.8	175.8	187.9	180.8	181.8
45°	725.3	407.1	173.7	172.7	179.8	178.8	175.8	170.7	174.7	156.6	151.5
47.5°	768.7	413.1	169.7	165.7	173.7	175.8	171.7	160.6	154.5	143.4	141.4
50°	808.1	426.3	165.7	157.6	165.7	169.7	162.6	150.5	143.4	136.4	136.4
52.5°	845.5	445.5	163.6	148.5	155.6	160.6	156.6	144.4	136.4	133.3	130.3
55°	883.8	462.6	160.6	142.4	144.4	154.5	153.5	137.4	129.3	129.3	128.3
57.5°	938.4	485.9	156.6	132.3	136.4	147.5	147.5	134.3	125.3	126.3	127.3
60°	993.9	513.1	152.5	122.2	125.3	140.4	142.4	130.3	122.2	123.2	122.2
62.5°	1082.8	563.6	144.4	110.1	116.2	131.3	136.4	125.3	118.2	120.2	120.2
65°	1217.2	650.5	127.3	100.0	107.1	123.2	130.3	120.2	112.1	118.2	116.2
67.5°	1433.3	769.7	107.1	91.9	101.0	115.2	123.2	114.1	107.1	116.2	113.1
70°	1627.3	828.3	91.9	84.8	91.9	106.1	115.2	108.1	101.0	110.1	106.1
72.5°	1548.5	649.5	79.8	76.8	83.8	96.0	107.1	100.0	92.9	98.0	93.9
75°	1336.4	517.2	69.7	68.7	74.7	86.9	98.0	92.9	85.9	87.9	85.9
77.5°	1013.1	427.3	59.6	58.6	63.6	77.8	87.9	83.8	76.8	75.8	75.8
80°	452.5	210.1	49.5	49.5	52.5	66.7	74.7	72.7	65.7	64.6	63.6
82.5°	148.5	79.8	40.4	38.4	42.4	55.6	66.7	64.6	57.6	55.6	53.5
85°	59.6	38.4	29.3	29.3	33.3	46.5	59.6	55.6	46.5	41.4	41.4
87.5°	20.2	16.2	15.2	15.2	21.2	31.3	44.4	37.4	33.3	29.3	30.3
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)