

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: P675676

Luminaire Tested: **CCW-SA-1A-730-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675676
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-730-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SL4 distribution lens
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

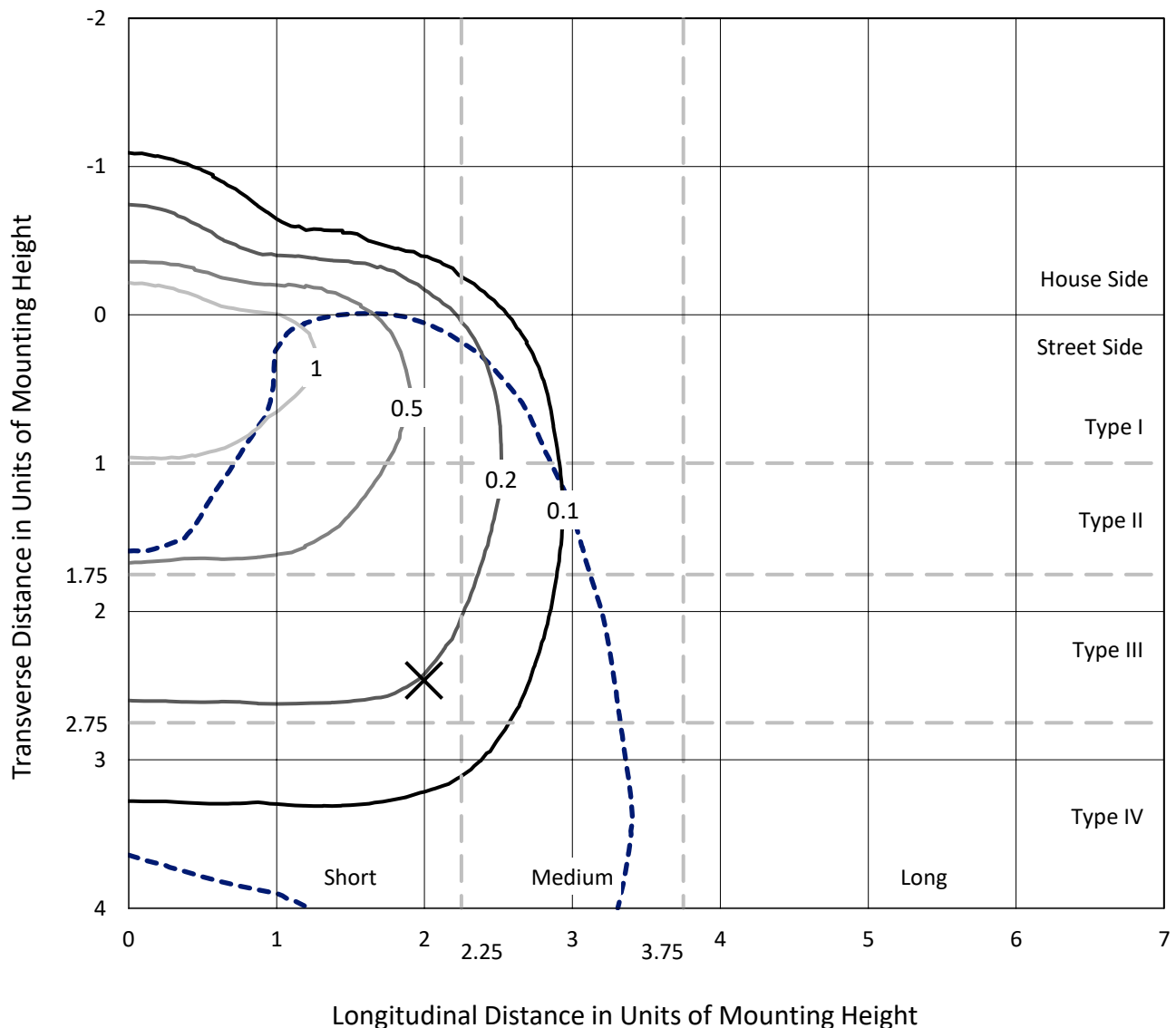
Lumens per Lamp: N/A
Luminaire Lumens: 2441.2 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

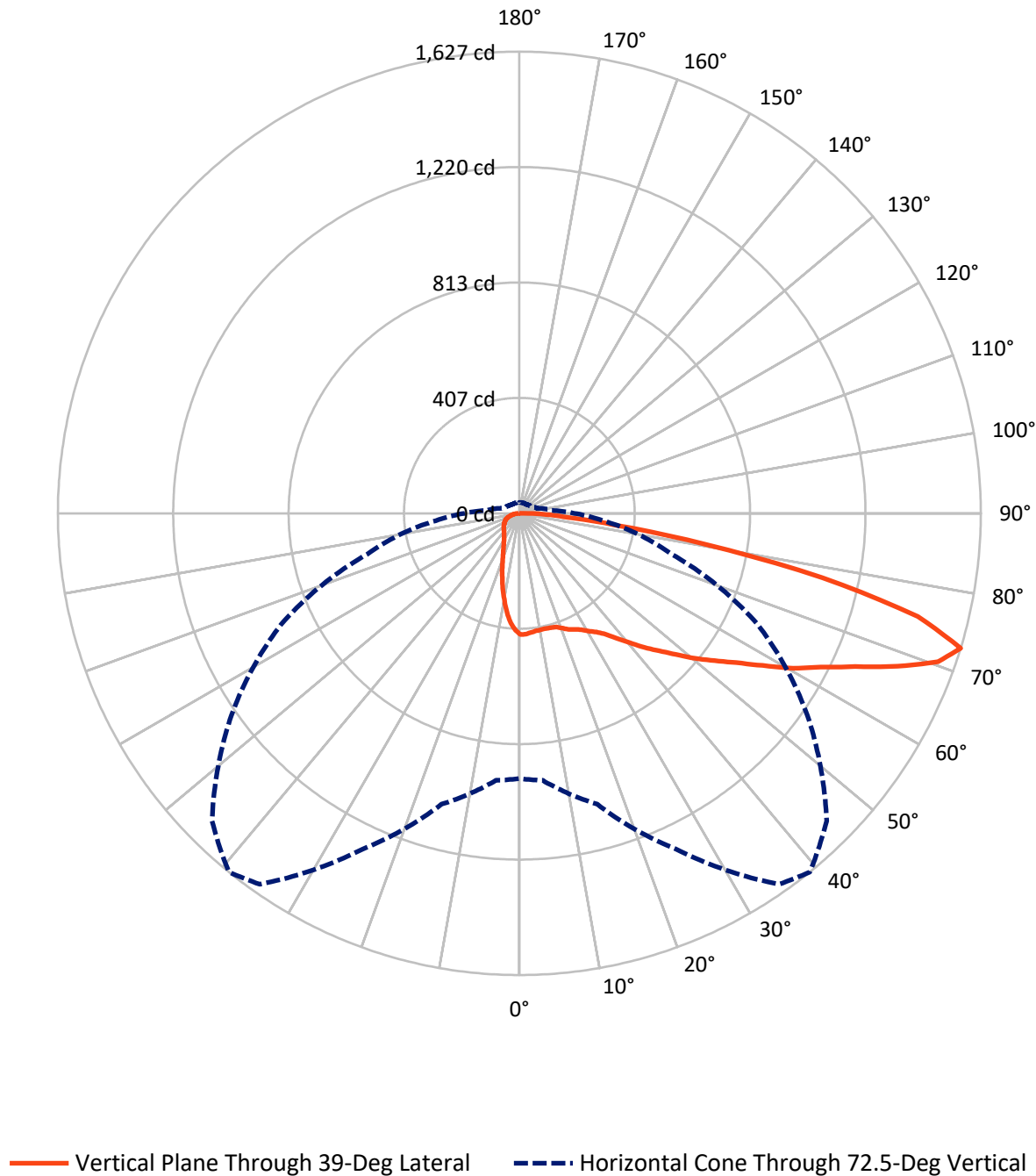
× Max cd
- - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	362.8	0.0	362.8
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	2078.4	0.0	2078.4
	% Fixture	85.1	0.0	85.1
Total	Lumens	2441.2	0.0	2441.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.8	1.5
10°-20°	96.4	3.9
20°-30°	146.8	6.0
30°-40°	214.8	8.8
40°-50°	328.8	13.5
50°-60°	482.3	19.8
60°-70°	615.1	25.2
70°-80°	444.4	18.2
80°-90°	75.0	3.1
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°	2441.2	100.0
0°-180°	2441.2	100.0

Coefficient of Utilization



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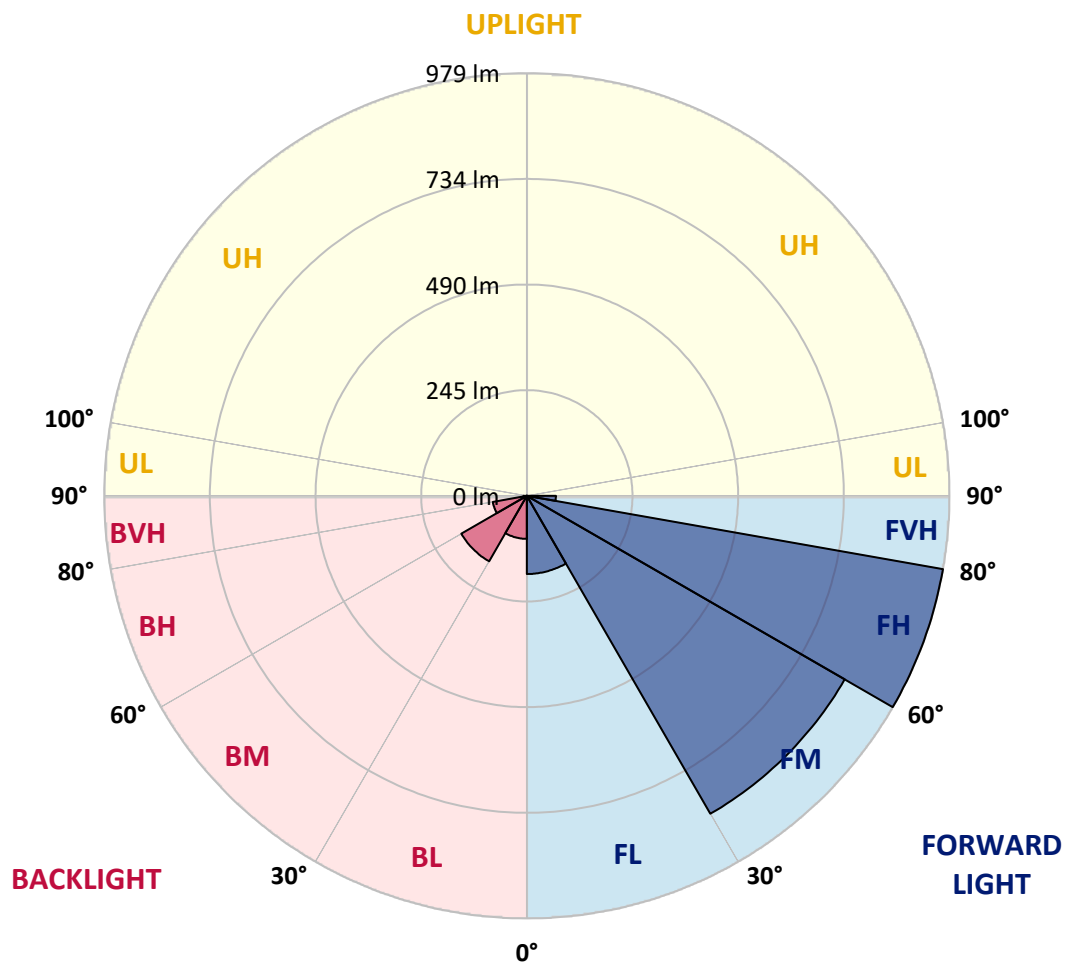
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	181.2	7.4			
FM	(30°-60°)	850.6	34.8			
FH	(60°-80°)	979.3	40.1			G1/1800
FVH	(80°-90°)	67.4	2.8			G1/100
BL	(0°-30°)	99.8	4.1	B0/110		
BM	(30°-60°)	175.3	7.2	B0/220		
BH	(60°-80°)	80.2	3.3	B0/110		G0/110
BVH	(80°-90°)	7.6	0.3			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	427.3	427.3	427.3	427.3	427.3	427.3	427.3	427.3	427.3	427.3	427.3
2.5°	433.7	434.7	432.8	431.0	430.1	426.4	430.1	428.2	426.4	426.4	426.4
5°	428.2	429.2	429.2	427.3	428.2	421.8	420.9	421.8	419.1	417.2	416.3
7.5°	420.0	421.8	425.5	424.6	420.9	418.2	419.1	418.2	413.6	410.8	403.5
10°	413.6	415.4	417.2	419.1	418.2	417.2	416.3	412.6	411.7	405.3	398.0
12.5°	407.1	407.1	408.1	415.4	416.3	416.3	410.8	410.8	408.1	407.1	396.1
15°	400.7	403.5	410.8	412.6	416.3	418.2	415.4	415.4	410.8	404.4	396.1
17.5°	402.6	407.1	414.5	419.1	420.9	420.9	424.6	421.8	415.4	411.7	403.5
20°	411.7	412.6	421.8	430.1	431.9	431.9	428.2	425.5	420.9	414.5	403.5
22.5°	417.2	423.7	434.7	439.2	444.7	444.7	440.2	433.7	427.3	420.9	409.0
25°	441.1	442.0	446.6	453.9	456.7	453.0	448.4	441.1	432.8	426.4	415.4
27.5°	457.6	462.2	467.7	471.3	466.8	464.0	460.3	452.1	445.7	440.2	424.6
30°	487.8	482.3	486.0	487.8	479.6	481.4	471.3	464.0	456.7	456.7	439.2
32.5°	506.2	510.8	507.1	506.2	499.8	498.8	492.4	484.2	479.6	485.1	461.2
35°	538.3	535.5	535.5	534.6	527.3	522.7	522.7	508.0	512.6	524.5	495.2
37.5°	554.8	553.9	559.4	564.0	556.6	559.4	556.6	550.2	552.0	573.1	537.4
40°	571.3	577.7	588.7	590.5	595.1	598.8	597.0	596.0	603.4	637.3	594.2
42.5°	586.9	592.4	608.9	623.6	634.6	646.5	647.4	647.4	671.2	719.8	663.0
45°	607.1	611.6	634.6	663.9	682.2	690.5	697.8	706.1	738.2	796.0	736.3
47.5°	634.6	638.2	665.7	702.4	738.2	742.8	757.4	766.6	815.2	873.9	811.5
50°	674.0	671.2	693.2	746.4	781.3	803.3	824.4	840.9	888.6	952.8	870.2
52.5°	706.1	706.1	722.6	793.2	840.9	862.0	884.0	906.9	961.9	1031.6	917.9
55°	761.1	755.6	765.7	839.1	907.8	928.0	970.2	989.4	1042.6	1090.3	958.3
57.5°	798.7	801.5	813.4	899.6	986.7	1011.4	1053.6	1067.4	1114.1	1151.7	987.6
60°	848.2	839.1	864.7	966.5	1073.8	1108.6	1143.5	1151.7	1186.6	1191.2	1001.4
62.5°	895.9	894.1	916.1	1033.5	1167.3	1192.1	1227.9	1237.0	1251.7	1222.4	982.1
65°	925.2	937.2	978.4	1106.8	1273.7	1301.2	1337.0	1318.6	1302.1	1194.8	887.7
67.5°	965.6	971.1	1034.4	1186.6	1396.6	1437.8	1469.0	1396.6	1273.7	1082.1	747.4
70°	974.8	989.4	1072.0	1270.0	1523.1	1565.3	1567.1	1370.0	1170.1	880.3	541.9
72.5°	934.4	944.5	1061.0	1304.9	1595.6	1626.8	1532.3	1238.9	927.1	554.8	295.3
75°	785.9	814.3	923.4	1197.6	1462.6	1450.7	1298.5	945.4	556.6	245.8	124.7
77.5°	547.4	548.4	662.1	871.1	1094.9	1092.1	926.2	548.4	238.4	99.0	73.4
80°	243.0	260.4	329.2	469.5	664.8	664.8	540.1	272.3	119.2	64.2	50.4
82.5°	143.1	148.6	176.1	219.2	323.7	341.1	258.6	181.6	81.6	40.3	31.2
85°	105.5	114.6	131.1	132.0	153.1	155.9	143.1	157.7	55.9	22.0	25.7
87.5°	78.9	84.4	104.5	87.1	81.6	77.0	88.0	161.4	21.1	11.0	8.3
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°	427.3	427.3	427.3	427.3	427.3	427.3	427.3	427.3	427.3	427.3	427.3
2.5°	422.7	422.7	420.9	417.2	417.2	409.9	411.7	413.6	409.0	409.0	409.9
5°	416.3	412.6	408.1	402.6	398.9	388.8	387.0	380.6	379.6	377.8	375.1
7.5°	403.5	398.0	389.7	381.5	369.5	360.4	349.4	340.2	336.5	333.8	332.9
10°	391.6	390.6	376.9	360.4	342.0	324.6	308.1	296.2	288.9	284.3	283.4
12.5°	391.6	384.2	365.0	342.0	315.4	289.8	268.7	252.2	242.1	234.8	232.0
15°	389.7	382.4	356.7	321.9	291.6	256.8	227.4	210.0	195.3	188.0	188.9
17.5°	391.6	380.6	344.8	307.2	265.0	227.4	192.6	171.5	156.8	151.3	150.4
20°	392.5	378.7	335.6	287.0	237.5	195.3	162.3	142.1	131.1	127.5	127.5
22.5°	390.6	373.2	321.9	263.2	213.7	168.7	141.2	123.8	116.5	111.9	113.7
25°	398.9	372.3	309.0	243.0	186.2	146.7	125.6	112.8	108.2	105.5	106.4
27.5°	400.7	372.3	298.9	220.1	162.3	130.2	113.7	105.5	101.8	100.0	99.0
30°	408.1	374.1	287.0	197.2	143.1	117.4	104.5	100.0	97.2	96.3	96.3
32.5°	428.2	379.6	274.2	177.9	126.5	106.4	98.1	94.5	92.6	91.7	92.6
35°	452.1	394.3	260.4	157.7	114.6	99.0	92.6	89.9	88.9	88.9	88.9
37.5°	488.8	416.3	248.5	141.2	104.5	91.7	87.1	86.2	85.3	86.2	86.2
40°	530.9	440.2	237.5	128.4	97.2	87.1	82.5	82.5	81.6	82.5	83.4
42.5°	579.5	469.5	226.5	115.5	90.8	83.4	79.8	78.9	77.9	79.8	80.7
45°	646.5	509.8	219.2	108.2	86.2	79.8	76.1	76.1	75.2	75.2	77.0
47.5°	702.4	548.4	219.2	100.9	83.4	77.0	73.4	73.4	71.5	72.4	72.4
50°	749.2	581.4	223.7	99.0	79.8	74.3	71.5	69.7	68.8	68.8	68.8
52.5°	780.4	601.5	227.4	97.2	77.9	70.6	68.8	67.9	66.0	65.1	66.0
55°	811.5	615.3	228.3	97.2	75.2	66.9	65.1	65.1	63.3	62.4	62.4
57.5°	823.5	609.8	215.5	95.4	73.4	64.2	62.4	61.4	60.5	59.6	59.6
60°	818.0	589.6	187.1	90.8	71.5	62.4	58.7	58.7	58.7	56.9	57.8
62.5°	780.4	520.9	150.4	83.4	68.8	58.7	55.0	56.9	56.9	55.9	55.9
65°	681.3	430.1	122.0	77.0	65.1	55.9	52.3	55.0	55.9	55.0	54.1
67.5°	544.7	331.0	100.9	69.7	60.5	51.4	48.6	51.4	52.3	51.4	51.4
70°	374.1	213.7	81.6	62.4	54.1	46.8	44.0	45.8	45.8	46.8	46.8
72.5°	193.5	115.5	66.9	53.2	46.8	42.2	39.4	39.4	38.5	38.5	38.5
75°	96.3	78.9	55.9	44.9	39.4	35.8	33.9	32.1	32.1	32.1	32.1
77.5°	66.9	60.5	45.8	35.8	32.1	29.3	29.3	26.6	26.6	26.6	26.6
80°	50.4	47.7	34.8	27.5	24.8	22.9	22.9	22.0	22.0	21.1	21.1
82.5°	35.8	38.5	26.6	20.2	18.3	17.4	17.4	16.5	16.5	14.7	14.7
85°	28.4	32.1	20.2	14.7	13.8	11.9	11.9	11.0	11.0	10.1	9.2
87.5°	8.3	17.4	8.3	5.5	5.5	5.5	5.5	4.6	4.6	3.7	3.7
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)