

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: P675654

Luminaire Tested: **CCW-SA-1A-722-U-SL4**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675654
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-722-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SL4 distribution lens
Light Source: (16) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

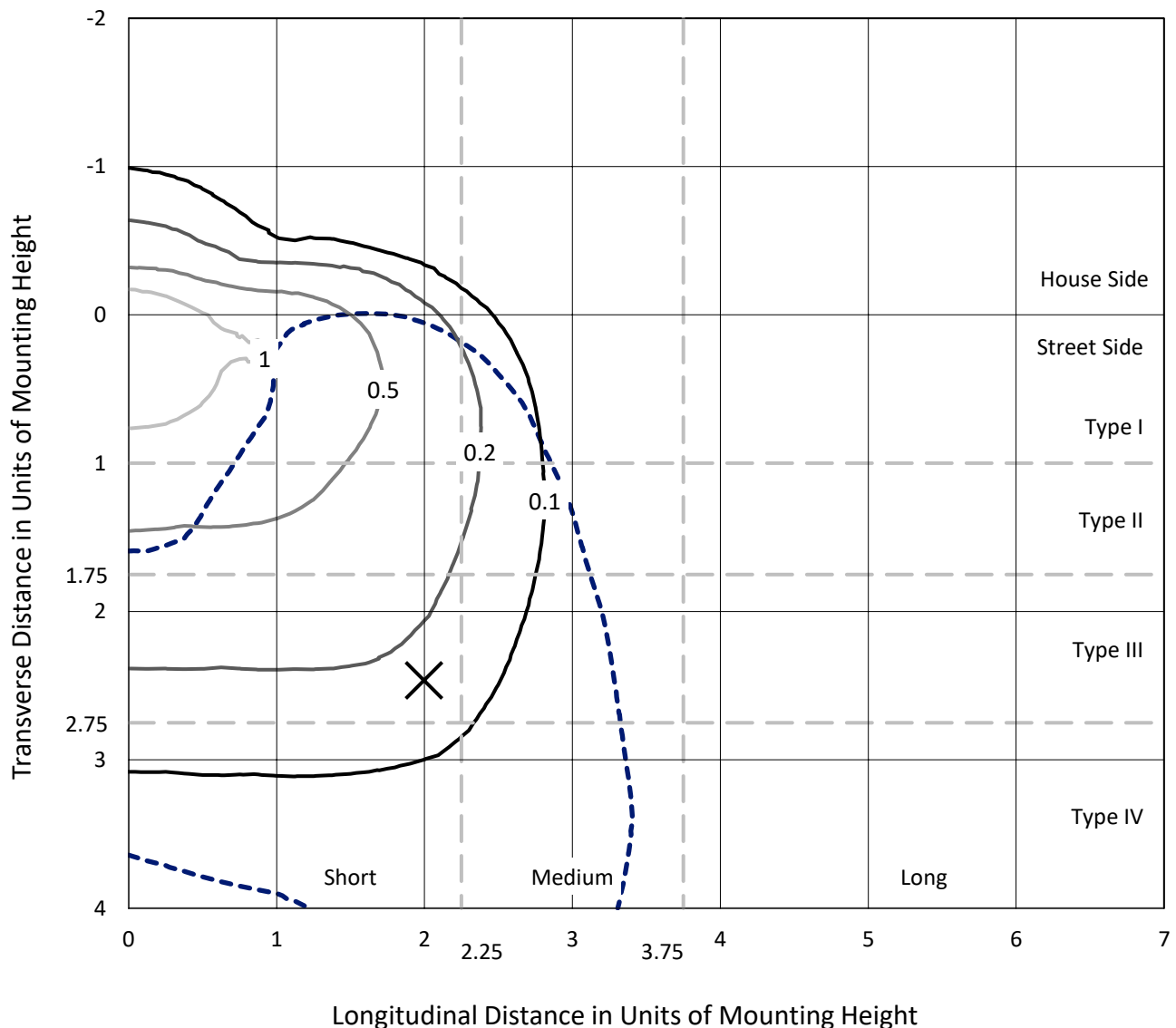
Lumens per Lamp: N/A
Luminaire Lumens: 1974.7 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

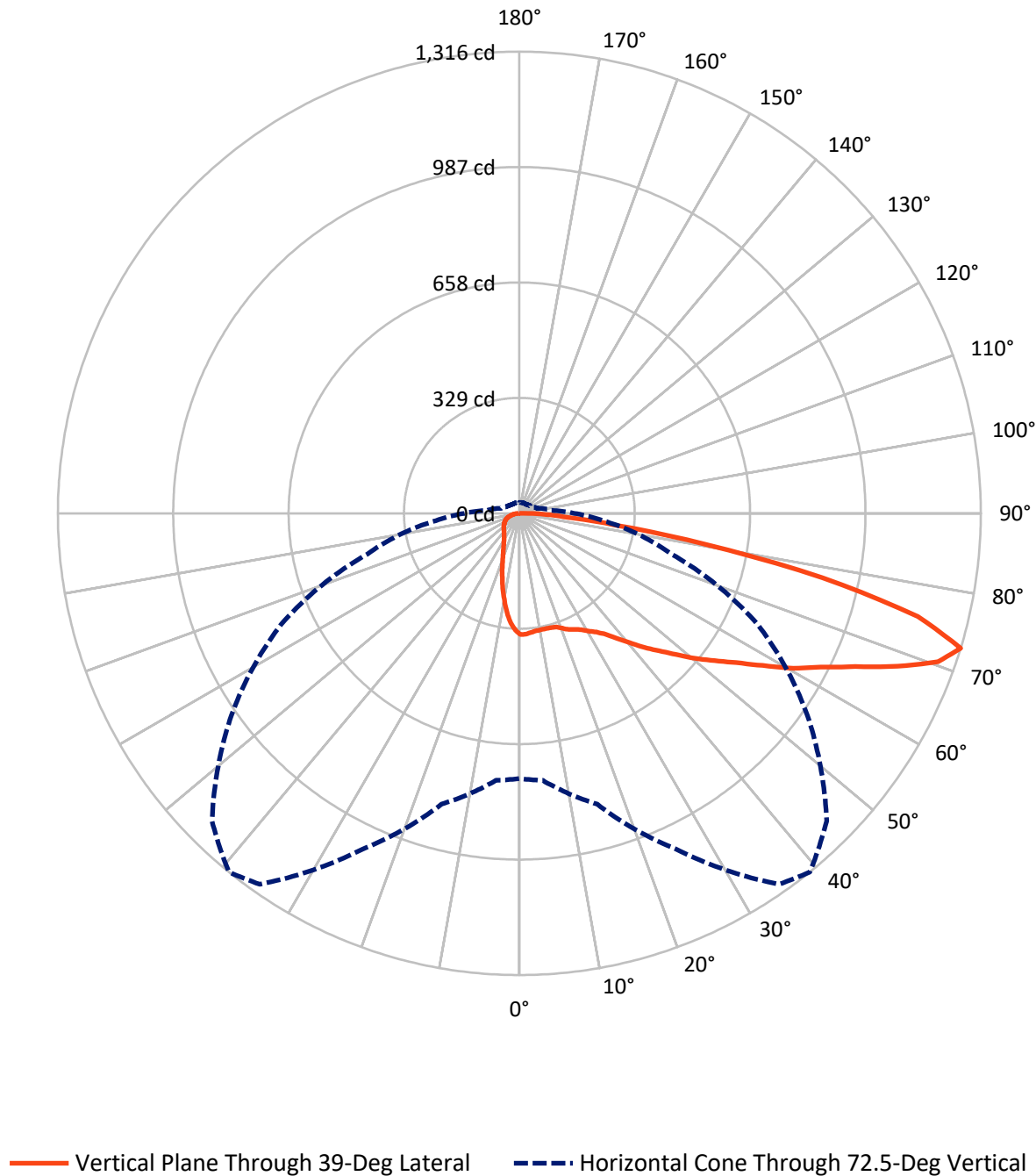
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.5 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	293.5	0.0	293.5
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	1681.3	0.0	1681.3
	% Fixture	85.1	0.0	85.1
Total	Lumens	1974.7	0.0	1974.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.5	1.5
10°-20°	78.0	3.9
20°-30°	118.8	6.0
30°-40°	173.7	8.8
40°-50°	266.0	13.5
50°-60°	390.1	19.8
60°-70°	497.5	25.2
70°-80°	359.5	18.2
80°-90°	60.6	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°	1974.7	100.0
0°-180°	1974.7	100.0

Coefficient of Utilization



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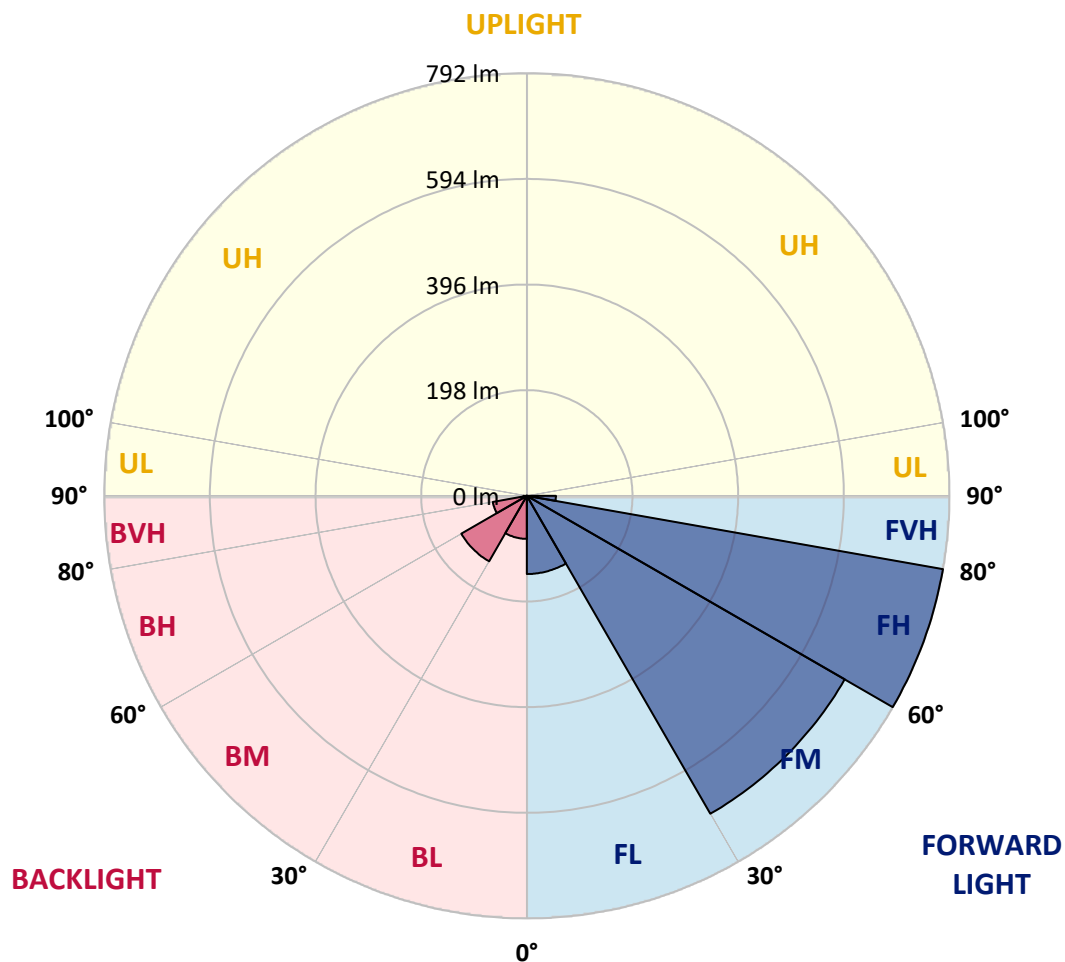
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	146.6	7.4			
FM	(30°-60°)	688.1	34.8			
FH	(60°-80°)	792.2	40.1			G1/1800
FVH	(80°-90°)	54.5	2.8			G1/100
BL	(0°-30°)	80.7	4.1	B0/110		
BM	(30°-60°)	141.8	7.2	B0/220		
BH	(60°-80°)	64.8	3.3	B0/110		G0/110
BVH	(80°-90°)	6.1	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°	345.7	345.7	345.7	345.7	345.7	345.7	345.7	345.7	345.7	345.7	345.7
2.5°	350.9	351.6	350.1	348.6	347.9	344.9	347.9	346.4	344.9	344.9	344.9
5°	346.4	347.2	347.2	345.7	346.4	341.2	340.5	341.2	339.0	337.5	336.8
7.5°	339.7	341.2	344.2	343.4	340.5	338.2	339.0	338.2	334.5	332.3	326.4
10°	334.5	336.0	337.5	339.0	338.2	337.5	336.8	333.8	333.1	327.9	321.9
12.5°	329.3	329.3	330.1	336.0	336.8	336.8	332.3	332.3	330.1	329.3	320.4
15°	324.2	326.4	332.3	333.8	336.8	338.2	336.0	336.0	332.3	327.1	320.4
17.5°	325.6	329.3	335.3	339.0	340.5	340.5	343.4	341.2	336.0	333.1	326.4
20°	333.1	333.8	341.2	347.9	349.4	349.4	346.4	344.2	340.5	335.3	326.4
22.5°	337.5	342.7	351.6	355.3	359.8	359.8	356.1	350.9	345.7	340.5	330.8
25°	356.8	357.5	361.2	367.2	369.4	366.4	362.7	356.8	350.1	344.9	336.0
27.5°	370.1	373.9	378.3	381.3	377.6	375.3	372.4	365.7	360.5	356.1	343.4
30°	394.6	390.2	393.1	394.6	387.9	389.4	381.3	375.3	369.4	369.4	355.3
32.5°	409.5	413.2	410.2	409.5	404.3	403.5	398.3	391.7	387.9	392.4	373.1
35°	435.4	433.2	433.2	432.5	426.5	422.8	422.8	410.9	414.7	424.3	400.6
37.5°	448.8	448.0	452.5	456.2	450.3	452.5	450.3	445.1	446.5	463.6	434.7
40°	462.1	467.3	476.2	477.7	481.4	484.4	482.9	482.2	488.1	515.5	480.7
42.5°	474.7	479.2	492.5	504.4	513.3	523.0	523.7	523.7	543.0	582.3	536.3
45°	491.1	494.8	513.3	537.0	551.9	558.6	564.5	571.2	597.1	643.9	595.6
47.5°	513.3	516.3	538.5	568.2	597.1	600.8	612.7	620.1	659.4	706.9	656.5
50°	545.2	543.0	560.8	603.8	632.0	649.8	666.9	680.2	718.8	770.7	703.9
52.5°	571.2	571.2	584.5	641.6	680.2	697.3	715.1	733.6	778.1	834.5	742.5
55°	615.7	611.2	619.4	678.7	734.4	750.7	784.8	800.4	843.4	882.0	775.2
57.5°	646.1	648.3	658.0	727.7	798.1	818.2	852.3	863.4	901.3	931.7	798.9
60°	686.1	678.7	699.5	781.8	868.6	896.8	925.0	931.7	959.9	963.6	810.0
62.5°	724.7	723.2	741.0	836.0	944.3	964.3	993.2	1000.7	1012.5	988.8	794.4
65°	748.4	758.1	791.5	895.3	1030.3	1052.6	1081.5	1066.7	1053.3	966.5	718.0
67.5°	781.1	785.5	836.7	959.9	1129.7	1163.1	1188.3	1129.7	1030.3	875.3	604.5
70°	788.5	800.4	867.1	1027.4	1232.1	1266.2	1267.7	1108.2	946.5	712.1	438.4
72.5°	755.9	764.0	858.2	1055.5	1290.7	1315.9	1239.5	1002.1	749.9	448.8	238.9
75°	635.7	658.7	747.0	968.8	1183.1	1173.5	1050.4	764.8	450.3	198.8	100.9
77.5°	442.8	443.6	535.6	704.7	885.7	883.5	749.2	443.6	192.9	80.1	59.3
80°	196.6	210.7	266.3	379.8	537.8	537.8	436.9	220.3	96.4	51.9	40.8
82.5°	115.7	120.2	142.4	177.3	261.8	275.9	209.2	146.9	66.0	32.6	25.2
85°	85.3	92.7	106.1	106.8	123.9	126.1	115.7	127.6	45.2	17.8	20.8
87.5°	63.8	68.2	84.6	70.5	66.0	62.3	71.2	130.6	17.1	8.9	6.7
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°	345.7	345.7	345.7	345.7	345.7	345.7	345.7	345.7	345.7	345.7	345.7
2.5°	342.0	342.0	340.5	337.5	337.5	331.6	333.1	334.5	330.8	330.8	331.6
5°	336.8	333.8	330.1	325.6	322.7	314.5	313.0	307.8	307.1	305.6	303.4
7.5°	326.4	321.9	315.3	308.6	298.9	291.5	282.6	275.2	272.2	270.0	269.3
10°	316.7	316.0	304.9	291.5	276.7	262.6	249.2	239.6	233.7	229.9	229.2
12.5°	316.7	310.8	295.2	276.7	255.2	234.4	217.3	204.0	195.8	189.9	187.7
15°	315.3	309.3	288.5	260.4	235.9	207.7	184.0	169.9	158.0	152.1	152.8
17.5°	316.7	307.8	278.9	248.5	214.4	184.0	155.8	138.7	126.8	122.4	121.7
20°	317.5	306.4	271.5	232.2	192.1	158.0	131.3	115.0	106.1	103.1	103.1
22.5°	316.0	301.9	260.4	212.9	172.8	136.5	114.2	100.1	94.2	90.5	92.0
25°	322.7	301.2	250.0	196.6	150.6	118.7	101.6	91.2	87.5	85.3	86.0
27.5°	324.2	301.2	241.8	178.0	131.3	105.3	92.0	85.3	82.3	80.9	80.1
30°	330.1	302.6	232.2	159.5	115.7	94.9	84.6	80.9	78.6	77.9	77.9
32.5°	346.4	307.1	221.8	143.9	102.4	86.0	79.4	76.4	74.9	74.2	74.9
35°	365.7	319.0	210.7	127.6	92.7	80.1	74.9	72.7	72.0	72.0	72.0
37.5°	395.4	336.8	201.0	114.2	84.6	74.2	70.5	69.7	69.0	69.7	69.7
40°	429.5	356.1	192.1	103.8	78.6	70.5	66.8	66.8	66.0	66.8	67.5
42.5°	468.8	379.8	183.2	93.5	73.4	67.5	64.5	63.8	63.1	64.5	65.3
45°	523.0	412.4	177.3	87.5	69.7	64.5	61.6	61.6	60.8	60.8	62.3
47.5°	568.2	443.6	177.3	81.6	67.5	62.3	59.3	59.3	57.9	58.6	58.6
50°	606.0	470.3	181.0	80.1	64.5	60.1	57.9	56.4	55.6	55.6	55.6
52.5°	631.2	486.6	184.0	78.6	63.1	57.1	55.6	54.9	53.4	52.7	53.4
55°	656.5	497.7	184.7	78.6	60.8	54.1	52.7	52.7	51.2	50.4	50.4
57.5°	666.1	493.3	174.3	77.1	59.3	51.9	50.4	49.7	49.0	48.2	48.2
60°	661.7	477.0	151.3	73.4	57.9	50.4	47.5	47.5	47.5	46.0	46.7
62.5°	631.2	421.3	121.7	67.5	55.6	47.5	44.5	46.0	46.0	45.2	45.2
65°	551.1	347.9	98.7	62.3	52.7	45.2	42.3	44.5	45.2	44.5	43.8
67.5°	440.6	267.8	81.6	56.4	49.0	41.5	39.3	41.5	42.3	41.5	41.5
70°	302.6	172.8	66.0	50.4	43.8	37.8	35.6	37.1	37.1	37.8	37.8
72.5°	156.5	93.5	54.1	43.0	37.8	34.1	31.9	31.9	31.2	31.2	31.2
75°	77.9	63.8	45.2	36.3	31.9	28.9	27.4	26.0	26.0	26.0	26.0
77.5°	54.1	49.0	37.1	28.9	26.0	23.7	23.7	21.5	21.5	21.5	21.5
80°	40.8	38.6	28.2	22.3	20.0	18.5	18.5	17.8	17.8	17.1	17.1
82.5°	28.9	31.2	21.5	16.3	14.8	14.1	14.1	13.4	13.4	11.9	11.9
85°	23.0	26.0	16.3	11.9	11.1	9.6	9.6	8.9	8.9	8.2	7.4
87.5°	6.7	14.1	6.7	4.5	4.5	4.5	4.5	3.7	3.7	3.0	3.0
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)