

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: P677238

Luminaire Tested: **CCW-SA-1A-722-U-SLL-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677238  
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-SLL-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
SLL distribution lens and House Side Shield  
Light Source: (16) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

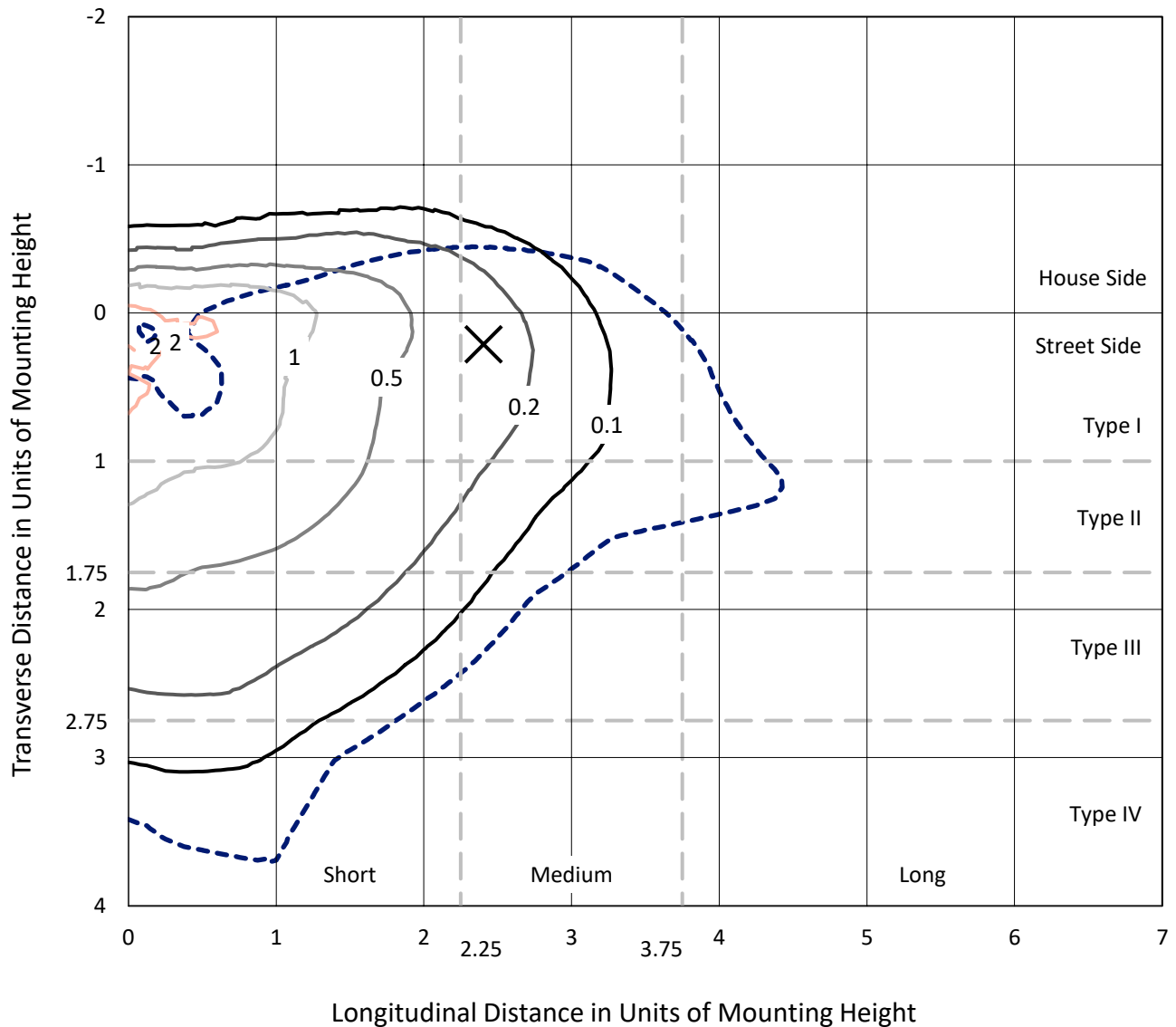
Lumens per Lamp: N/A  
Luminaire Lumens: 1462.1 lumens  
Efficiency: N/A  
Efficacy: 81.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B0 - U0 - G1

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

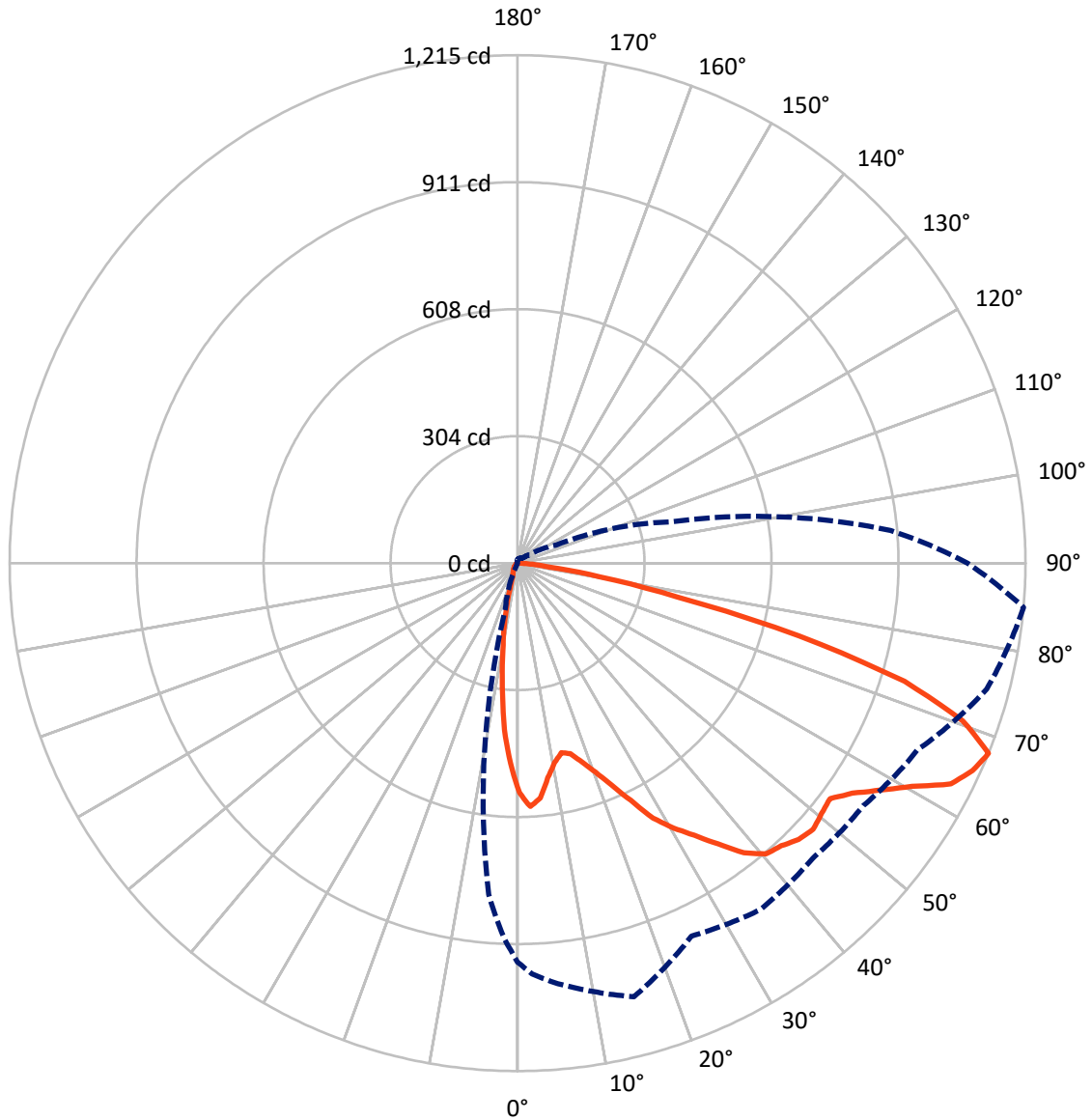
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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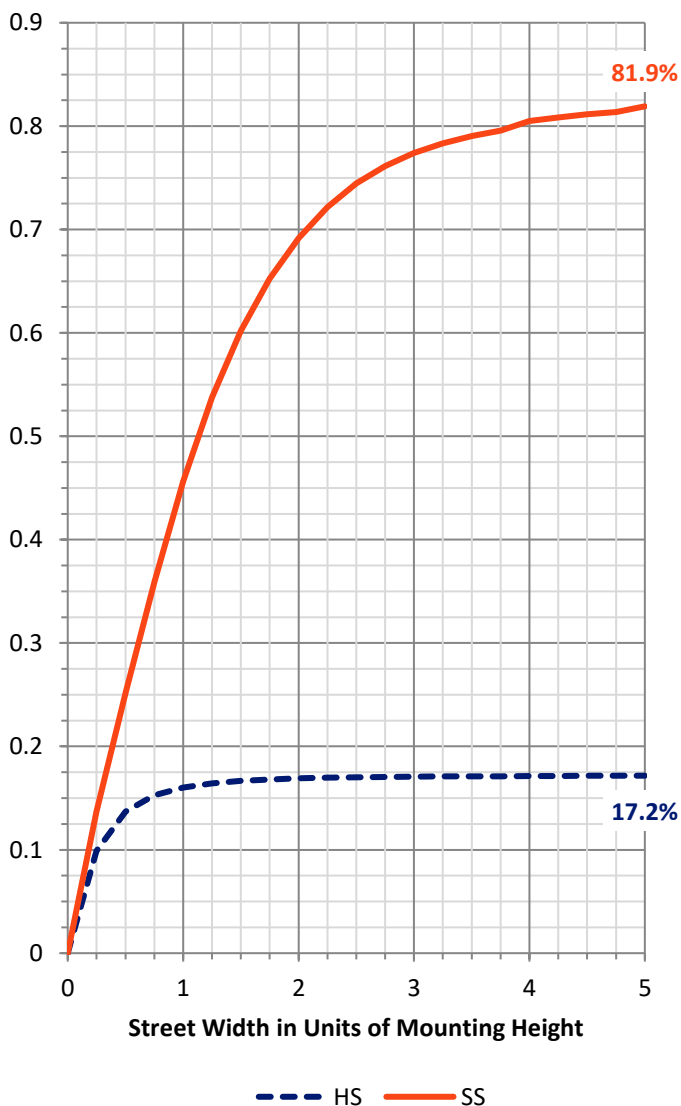
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	253.9	0.0	253.9
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	1208.2	0.0	1208.2
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	1462.1	0.0	1462.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.8	2.9
10°-20°	81.9	5.6
20°-30°	113.3	7.8
30°-40°	160.2	11.0
40°-50°	218.1	14.9
50°-60°	288.8	19.8
60°-70°	335.3	22.9
70°-80°	189.9	13.0
80°-90°	32.8	2.2
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°	1462.1	100.0
0°-180°	1462.1	100.0

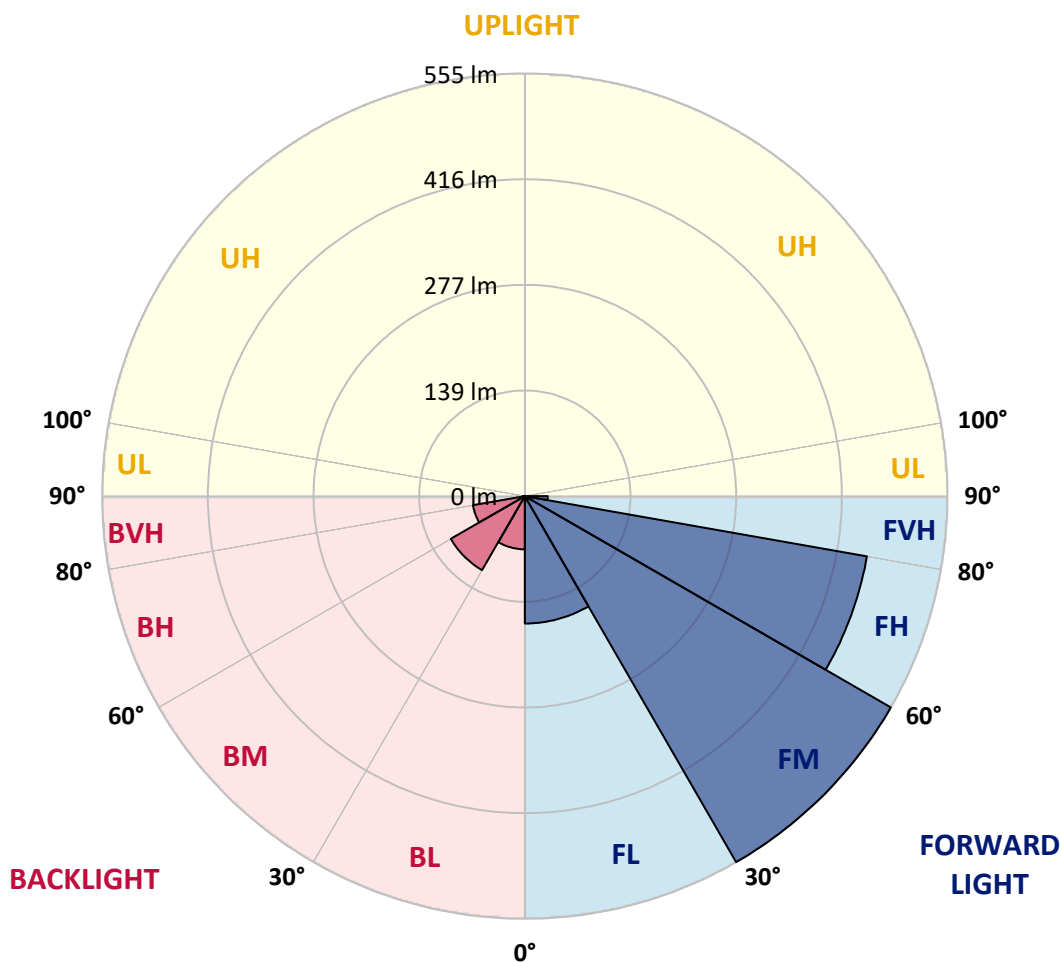


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	167.2	11.4			
FM (30°-60°)	554.9	38.0			
FH (60°-80°)	456.1	31.2			G0/660
FVH (80°-90°)	30.0	2.1			G1/100
BL (0°-30°)	69.8	4.8	B0/110		
BM (30°-60°)	112.2	7.7	B0/220		
BH (60°-80°)	69.1	4.7	B0/110		G0/110
BVH (80°-90°)	2.8	0.2			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	549.7	549.7	549.7	549.7	549.7	549.7	549.7	549.7	549.7	549.7	549.7
2.5°	571.2	583.3	583.7	589.2	594.6	594.6	607.5	604.4	593.1	591.1	582.9
5°	575.5	579.8	582.9	610.7	634.1	631.7	638.8	634.1	612.2	584.1	565.0
7.5°	538.4	543.1	555.6	602.8	634.5	645.0	658.3	629.0	606.0	555.2	518.5
10°	489.2	498.2	521.2	575.1	614.2	647.7	647.7	624.3	579.8	530.2	485.3
12.5°	461.9	479.9	492.3	547.0	597.8	620.8	620.0	607.5	578.6	516.2	465.4
15°	466.6	471.7	498.2	540.8	574.3	573.2	587.2	583.3	563.0	528.7	472.8
17.5°	488.1	495.9	518.9	540.8	556.8	552.1	551.7	570.4	571.6	549.7	500.5
20°	523.2	546.2	557.2	563.8	544.3	524.4	522.0	548.2	568.5	576.7	533.7
22.5°	579.4	594.6	616.9	582.9	532.2	507.2	502.5	531.4	572.4	608.7	576.7
25°	634.5	646.2	667.7	623.9	545.8	503.7	495.5	520.5	587.2	653.2	628.6
27.5°	692.6	702.8	705.1	654.0	553.3	496.6	486.9	520.5	599.7	676.6	690.7
30°	728.2	740.3	742.6	680.5	565.4	502.5	497.8	522.8	608.3	696.5	735.2
32.5°	768.0	771.1	769.2	685.2	578.6	519.7	500.2	538.4	618.1	720.4	775.8
35°	815.6	821.1	801.2	706.7	608.3	530.6	523.6	557.6	634.9	731.3	825.0
37.5°	851.9	869.1	824.2	714.9	614.2	553.6	554.8	597.4	646.6	744.6	879.3
40°	920.3	891.4	863.3	743.0	636.4	592.7	586.4	638.4	686.0	753.2	914.8
42.5°	957.8	942.5	878.5	745.7	670.8	646.6	648.1	684.8	706.7	777.4	924.6
45°	967.1	951.1	899.2	747.7	704.7	710.2	737.2	744.2	737.2	793.4	942.9
47.5°	990.9	956.2	896.8	773.9	759.8	780.9	815.2	830.5	778.5	787.5	951.5
50°	986.3	966.3	891.8	784.8	827.0	882.8	905.8	899.6	824.6	775.4	942.1
52.5°	966.7	945.3	907.4	814.5	889.8	957.4	989.4	973.8	865.6	802.7	935.9
55°	995.2	978.8	927.7	854.7	937.1	1023.0	1045.6	1033.9	916.0	828.1	971.4
57.5°	1026.1	1022.6	982.7	901.9	992.9	1090.5	1090.5	1076.1	959.7	864.8	1024.1
60°	1070.6	1078.4	1023.3	933.2	1012.0	1086.6	1143.2	1126.4	1003.8	929.3	1083.9
62.5°	1056.1	1081.1	1075.7	1000.3	1033.9	1105.7	1136.6	1149.1	1058.5	1007.7	1163.5
65°	1009.7	1036.2	1075.3	1044.4	1017.5	1059.3	1074.9	1112.8	1085.8	1081.5	1196.3
67.5°	954.2	983.1	1007.3	1074.1	984.3	1012.0	998.4	1010.5	1056.1	1162.3	1215.1
70°	833.2	860.9	899.2	1008.1	896.5	871.5	868.0	862.1	933.2	1133.5	1129.9
72.5°	685.2	698.1	761.4	819.5	663.4	658.7	664.1	657.5	739.9	1026.1	967.9
75°	513.0	525.9	561.8	629.4	451.7	424.8	456.0	486.9	565.0	796.5	695.4
77.5°	385.8	402.2	424.8	470.9	331.5	289.3	293.6	322.9	408.4	638.0	389.7
80°	250.3	248.3	292.1	324.1	249.5	257.3	246.4	267.8	296.0	341.2	199.1
82.5°	144.5	146.4	164.8	185.9	173.7	198.7	143.3	239.3	211.2	139.0	74.2
85°	81.2	84.7	101.5	128.8	108.9	73.0	59.7	118.7	132.8	57.0	35.9
87.5°	8.2	7.0	13.7	48.8	29.7	12.1	18.0	28.5	32.0	21.5	10.5
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°	549.7	549.7	549.7	549.7	549.7	549.7	549.7	549.7	549.7	549.7	549.7
2.5°	571.2	571.2	561.5	545.1	538.4	526.7	510.7	515.8	510.3	490.4	485.3
5°	547.8	529.0	508.7	483.8	469.3	439.6	430.3	413.5	416.2	399.4	400.2
7.5°	499.0	484.1	449.8	417.0	388.5	362.7	326.4	312.7	299.5	292.8	300.6
10°	470.5	442.8	395.9	353.0	315.1	292.1	267.8	249.1	231.9	219.0	216.3
12.5°	449.8	425.2	368.6	316.3	286.6	267.8	245.6	219.8	203.0	180.8	174.1
15°	443.5	413.5	353.7	301.8	272.9	242.1	216.7	191.3	169.5	146.0	137.8
17.5°	465.0	430.3	353.4	290.1	249.5	216.3	181.2	152.7	130.4	108.9	103.9
20°	501.3	448.2	364.7	283.1	227.2	182.7	142.9	114.4	89.4	75.4	71.8
22.5°	542.7	478.7	365.8	264.3	205.0	149.1	104.2	75.4	61.3	54.7	52.7
25°	593.5	527.5	379.9	249.1	178.8	113.2	74.2	57.8	49.6	45.7	44.9
27.5°	635.2	561.5	395.1	233.1	153.1	83.9	58.2	47.2	42.9	39.0	38.7
30°	678.6	600.5	399.4	223.3	130.8	69.1	50.0	41.8	37.1	35.1	34.7
32.5°	716.5	643.1	413.1	207.3	109.7	60.9	45.3	37.5	34.4	31.2	30.8
35°	765.3	667.7	419.7	198.7	101.9	55.1	41.4	34.4	29.7	27.7	26.9
37.5°	817.6	691.5	424.0	192.1	95.3	51.5	39.0	32.4	28.1	25.4	24.6
40°	866.4	725.1	417.8	183.9	90.2	47.2	37.5	30.1	26.2	23.4	22.3
42.5°	903.9	757.8	415.8	176.1	84.7	45.7	35.5	28.9	24.6	21.5	21.1
45°	925.0	780.1	402.2	169.8	80.4	46.5	34.7	27.3	23.4	20.7	19.1
47.5°	919.9	797.3	405.7	167.9	74.6	43.3	34.4	26.2	21.5	19.1	18.0
50°	948.0	832.0	399.8	161.6	70.3	39.0	37.5	26.2	21.1	18.4	17.2
52.5°	952.7	863.7	412.3	150.3	63.6	35.9	37.1	25.8	20.3	17.6	16.0
55°	991.7	900.4	436.5	144.1	58.2	31.2	34.0	25.0	18.4	16.0	15.2
57.5°	1044.8	976.5	452.1	138.2	50.8	27.3	28.5	24.6	16.8	14.8	13.7
60°	1096.0	1007.0	453.3	127.7	43.7	24.6	22.3	24.6	15.6	13.3	12.1
62.5°	1134.2	1007.0	445.5	118.7	38.3	21.9	19.5	23.4	14.1	11.7	10.9
65°	1113.5	980.0	425.2	111.3	34.7	19.1	16.8	18.0	12.5	10.2	9.4
67.5°	1076.4	896.1	380.3	102.3	34.4	16.8	14.4	13.3	10.9	9.0	8.2
70°	1017.1	782.8	316.6	92.1	33.6	15.2	12.9	11.3	9.8	7.8	7.0
72.5°	819.5	646.6	260.0	86.3	32.8	13.3	10.9	9.8	8.2	6.6	5.9
75°	567.7	413.1	200.3	73.8	32.0	12.1	10.2	8.6	7.0	5.5	5.1
77.5°	340.5	276.0	129.2	55.4	21.1	9.8	8.6	6.6	5.9	4.7	4.3
80°	159.3	130.4	52.3	21.5	10.2	7.0	5.9	5.1	4.7	3.9	3.5
82.5°	62.5	55.1	25.4	12.5	8.2	5.5	4.7	4.3	3.9	3.1	2.7
85°	33.6	29.7	12.1	8.6	5.9	3.9	3.9	3.5	3.1	2.7	2.3
87.5°	7.4	5.5	5.1	5.1	4.3	3.1	3.1	2.7	2.3	2.0	1.6
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	549.7	549.7	549.7	549.7	549.7	549.7	549.7	549.7	549.7	549.7	549.7
2.5°	482.6	488.4	479.1	484.9	476.7	483.0	483.8	477.9	479.5	487.3	490.8
5°	411.1	407.2	398.6	395.9	396.3	391.2	393.2	395.9	400.2	402.5	409.6
7.5°	296.3	305.3	304.9	311.6	312.0	311.2	305.7	294.0	297.9	294.8	298.7
10°	212.0	215.9	223.3	227.6	235.4	231.1	218.6	214.0	211.6	211.2	215.1
12.5°	169.5	160.1	159.3	160.9	164.8	159.7	153.4	148.0	150.7	156.2	160.5
15°	131.2	123.4	113.2	111.7	112.4	110.1	103.5	96.4	98.4	103.9	107.0
17.5°	100.7	91.8	84.7	80.0	78.5	70.3	60.5	54.7	53.1	52.7	55.4
20°	67.9	66.4	65.2	59.3	59.3	47.6	39.4	35.1	35.1	35.9	36.3
22.5°	50.8	48.8	49.2	48.0	44.9	35.5	31.2	30.1	30.1	30.8	30.8
25°	44.1	41.4	40.6	40.2	37.1	30.5	27.3	26.2	26.2	26.9	26.9
27.5°	37.5	36.7	35.5	34.0	31.2	26.2	24.2	23.0	23.4	23.8	23.4
30°	34.4	32.4	30.8	30.8	27.7	23.4	21.9	21.1	20.3	21.1	21.5
32.5°	30.5	29.3	28.5	27.3	23.8	20.7	19.1	18.4	18.0	18.0	18.4
35°	26.2	26.2	25.4	23.8	20.7	18.7	16.8	16.0	15.6	16.0	16.0
37.5°	23.4	22.3	22.6	21.1	18.4	16.4	14.4	13.7	13.7	13.3	13.7
40°	21.9	19.9	18.7	18.0	16.4	14.1	12.5	11.7	11.3	11.3	11.3
42.5°	19.5	18.0	15.6	15.2	14.8	12.1	10.2	9.8	9.4	9.0	9.0
45°	18.4	16.0	14.1	12.1	12.1	10.2	8.6	7.8	7.4	7.0	7.4
47.5°	16.8	14.4	12.1	10.2	9.8	8.2	6.6	5.9	5.5	5.5	5.5
50°	16.0	12.9	10.5	8.6	7.4	6.6	5.1	4.3	3.9	3.9	3.9
52.5°	14.8	12.1	9.4	7.4	5.9	5.1	3.9	3.1	2.7	2.7	2.7
55°	13.3	10.9	8.2	6.2	5.1	3.9	2.7	2.0	1.6	1.6	1.6
57.5°	12.5	9.8	7.0	5.5	3.9	2.7	1.6	1.2	1.2	0.8	1.2
60°	11.3	8.6	5.9	4.3	3.1	2.0	1.2	0.4	0.4	0.4	0.4
62.5°	9.8	7.4	5.1	3.5	2.3	1.2	0.4	0.0	0.0	0.0	0.0
65°	8.2	5.9	3.9	2.7	1.6	0.4	0.0	0.0	0.0	0.0	0.0
67.5°	7.0	5.1	3.1	2.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	6.2	4.3	2.3	1.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5.1	3.5	2.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4.3	2.7	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.5	2.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.7	1.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	549.7	549.7	549.7	549.7	549.7	549.7	549.7	549.7	549.7	549.7
2.5°	495.9	493.5	505.2	524.4	534.1	553.3	557.9	570.0	566.9	571.2
5°	410.4	415.0	432.2	460.3	470.5	498.2	524.4	550.5	567.3	575.5
7.5°	304.5	320.2	341.2	367.0	393.2	429.5	474.0	504.5	520.8	538.4
10°	226.8	243.6	267.8	293.2	335.8	376.4	420.9	458.8	472.8	489.2
12.5°	178.4	204.6	232.7	260.0	285.4	324.1	379.1	434.2	449.4	461.9
15°	124.2	156.2	196.4	231.9	267.5	301.0	358.0	424.8	445.5	466.6
17.5°	68.7	94.1	140.2	190.1	242.5	294.0	365.1	442.0	473.2	488.1
20°	39.8	50.0	82.8	142.1	211.2	278.8	368.6	474.4	515.8	523.2
22.5°	32.8	36.3	46.9	89.0	173.0	269.0	386.5	519.7	561.8	579.4
25°	28.1	30.8	36.3	53.5	130.8	248.3	397.9	576.3	615.3	634.5
27.5°	25.0	27.7	32.0	39.4	89.0	219.8	416.6	627.4	666.5	692.6
30°	21.9	24.2	28.5	33.6	61.7	187.8	432.6	664.9	720.0	728.2
32.5°	19.5	21.5	24.6	28.9	45.7	142.5	445.5	703.6	750.0	768.0
35°	16.8	19.1	21.1	24.6	34.7	107.4	437.7	733.6	794.2	815.6
37.5°	14.8	16.4	18.4	20.7	29.3	83.9	421.7	769.6	832.0	851.9
40°	12.5	13.7	16.0	18.4	26.6	64.8	403.3	812.9	885.1	920.3
42.5°	10.5	11.7	13.3	17.2	21.9	48.0	366.2	846.5	928.1	957.8
45°	8.2	9.8	12.1	17.2	17.6	35.5	328.0	871.5	952.3	967.1
47.5°	6.2	7.8	11.7	14.8	14.1	24.6	282.7	900.0	977.3	990.9
50°	4.7	6.2	13.3	12.9	11.7	18.7	254.2	919.9	978.8	986.3
52.5°	3.1	4.7	10.9	9.8	9.8	16.4	246.4	919.1	982.7	966.7
55°	2.3	3.5	6.2	7.0	8.6	14.4	239.3	948.4	983.9	995.2
57.5°	1.6	2.7	4.3	5.5	7.4	12.5	224.9	983.5	1020.2	1026.1
60°	0.8	2.0	3.1	4.3	6.2	10.9	204.6	1009.3	1064.3	1070.6
62.5°	0.4	1.2	2.3	3.5	5.1	8.6	183.5	968.3	1045.2	1056.1
65°	0.0	0.8	1.6	2.3	3.1	6.2	149.1	874.2	969.5	1009.7
67.5°	0.0	0.0	0.8	1.6	2.0	4.7	112.4	795.3	899.6	954.2
70°	0.0	0.0	0.4	0.4	1.2	3.5	71.8	658.7	803.1	833.2
72.5°	0.0	0.0	0.0	0.0	0.4	2.3	41.8	489.2	629.4	685.2
75°	0.0	0.0	0.0	0.0	0.0	2.0	21.1	314.7	438.1	513.0
77.5°	0.0	0.0	0.0	0.0	0.0	1.6	11.3	203.0	322.9	385.8
80°	0.0	0.0	0.0	0.0	0.0	0.4	6.6	117.9	206.5	250.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.7	57.8	123.4	144.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	30.8	61.7	81.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	4.3	8.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)