

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: P677404

Luminaire Tested: **CCW-SA-1A-730-U-SLR-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677404  
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-SLR-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
SLR distribution lens and House Side Shield  
Light Source: (16) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

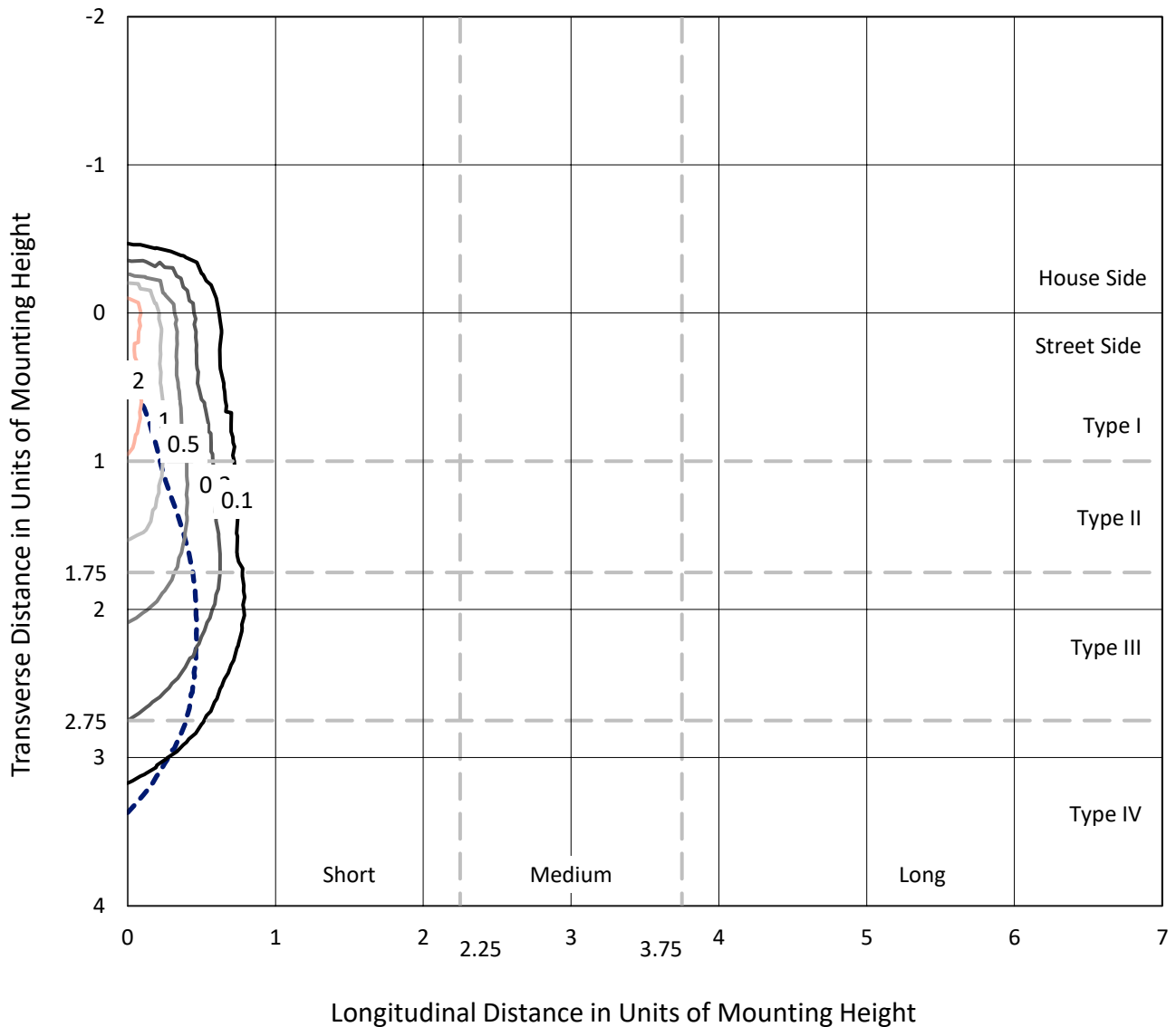
Lumens per Lamp: N/A  
Luminaire Lumens: 1790.3 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

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

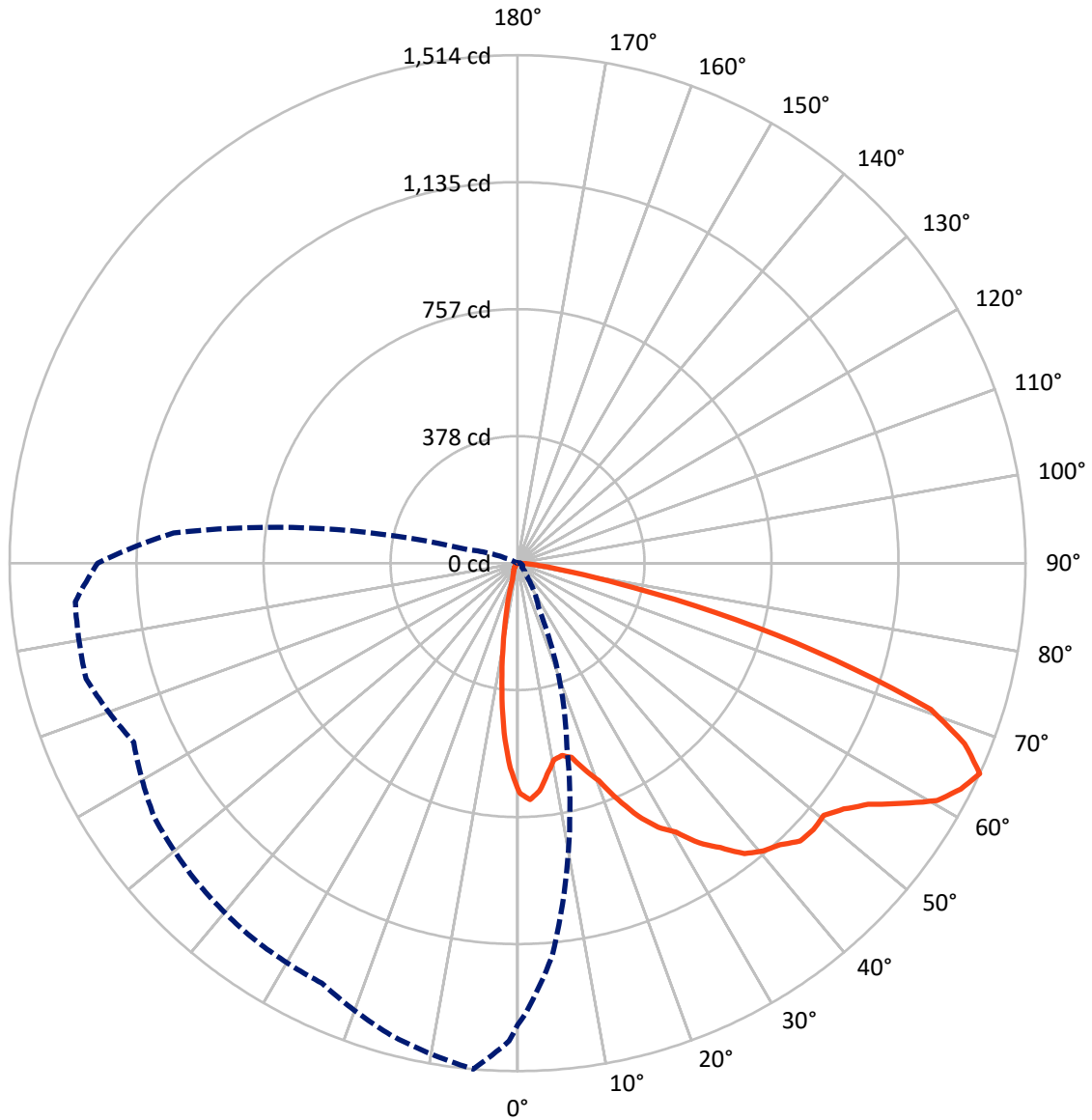
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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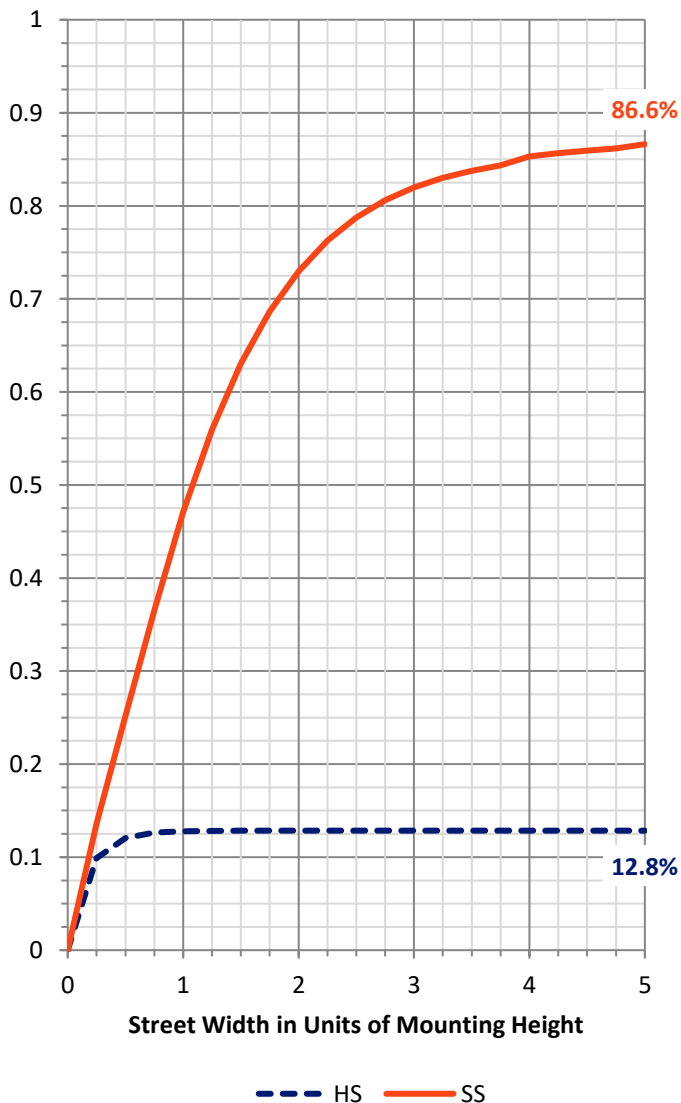
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	232.4	0.0	232.4
	% Fixture	13.0	0.0	13.0
<b>Street Side</b>	Lumens	1557.8	0.0	1557.8
	% Fixture	87.0	0.0	87.0
<b>Total</b>	Lumens	1790.3	0.0	1790.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.8	2.9
10°-20°	100.4	5.6
20°-30°	139.8	7.8
30°-40°	198.7	11.1
40°-50°	275.5	15.4
50°-60°	375.4	21.0
60°-70°	412.7	23.1
70°-80°	202.8	11.3
80°-90°	33.1	1.9
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°	1790.3	100.0
0°-180°	1790.3	100.0



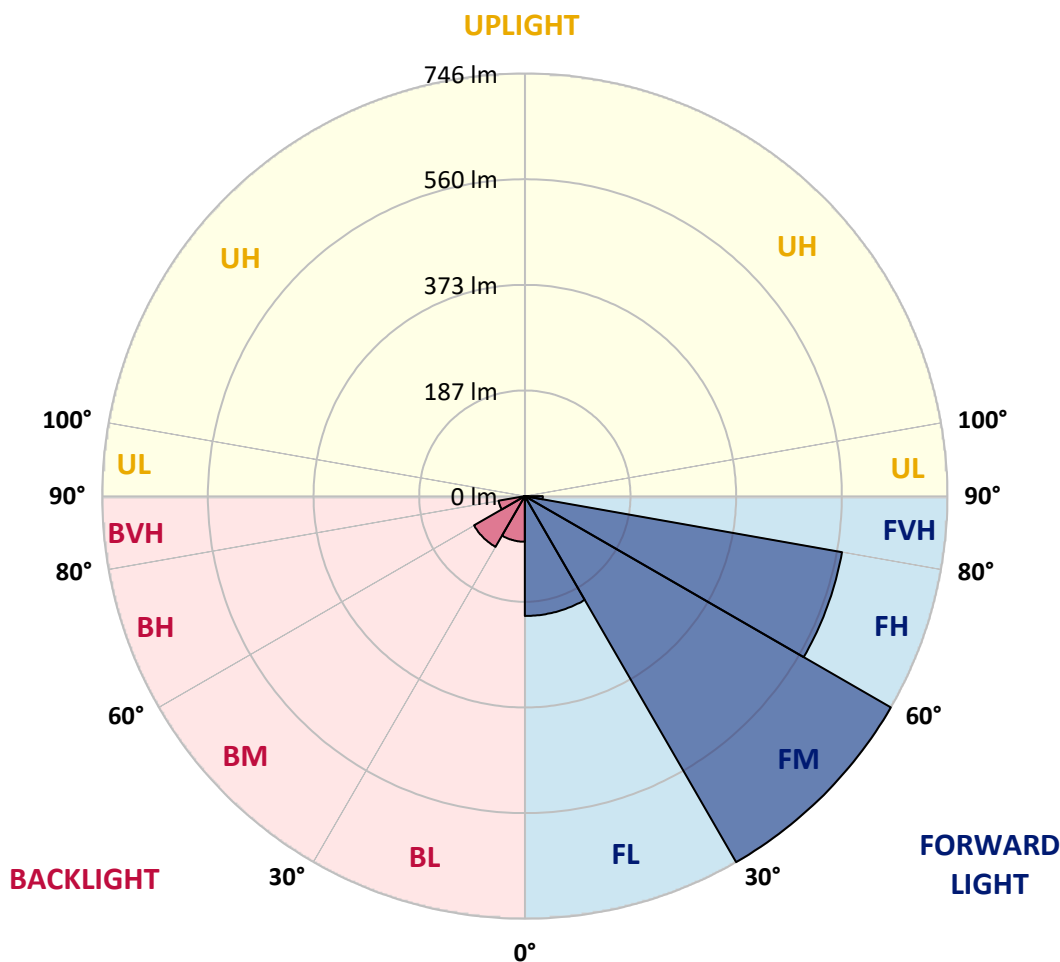
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	211.6	11.8			
FM (30°-60°)	746.1	41.7			
FH (60°-80°)	568.6	31.8			G0/660
FVH (80°-90°)	31.6	1.8			G1/100
BL (0°-30°)	80.5	4.5	B0/110		
BM (30°-60°)	103.5	5.8	B0/220		
BH (60°-80°)	47.0	2.6	B0/110		G0/110
BVH (80°-90°)	1.5	0.1			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°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4
2.5°	698.4	706.6	698.9	671.9	667.0	654.0	634.2	632.8	612.0	614.4	603.3
5°	656.4	664.6	648.2	612.5	579.2	552.7	536.7	508.2	502.0	488.0	488.0
7.5°	613.5	613.0	585.0	555.1	505.4	456.6	434.4	393.4	369.2	356.2	343.7
10°	577.8	570.0	552.7	490.9	436.8	386.1	358.6	331.6	306.5	284.8	263.1
12.5°	552.7	557.5	530.0	462.9	392.9	357.7	328.2	299.7	269.8	245.2	221.1
15°	565.7	558.0	525.6	456.6	385.7	337.4	298.3	263.5	230.2	197.9	179.6
17.5°	606.2	586.4	548.3	456.6	370.7	306.5	259.2	218.2	182.4	153.5	130.8
20°	660.8	638.1	597.1	473.5	359.6	283.8	219.1	167.5	130.3	103.3	85.9
22.5°	716.8	698.9	637.1	480.3	346.6	253.4	172.8	121.1	86.9	69.5	60.8
25°	783.9	758.8	691.2	507.3	327.2	224.0	136.1	84.5	64.7	55.5	50.2
27.5°	837.4	833.1	741.9	523.7	312.8	199.8	107.6	67.1	53.6	46.8	43.4
30°	905.0	881.4	803.6	556.5	296.4	172.3	89.8	60.3	49.2	42.0	39.6
32.5°	945.5	934.4	836.0	574.9	278.0	149.6	77.2	53.1	44.9	39.6	37.2
35°	1004.4	982.2	882.3	586.4	268.4	136.6	69.5	48.3	37.6	32.3	29.4
37.5°	1070.1	1061.9	937.8	586.0	254.4	128.9	64.2	44.9	35.7	29.9	26.5
40°	1137.2	1103.9	971.6	599.5	247.1	123.1	60.3	43.0	33.8	28.5	24.1
42.5°	1187.4	1149.2	1010.7	594.6	238.4	112.9	58.9	40.1	32.3	26.1	22.2
45°	1200.9	1187.4	1045.9	593.2	232.2	104.7	56.5	39.6	31.4	24.6	20.8
47.5°	1226.9	1217.8	1089.4	595.6	227.3	98.5	50.7	40.5	29.9	23.2	19.8
50°	1238.5	1222.1	1124.6	601.4	216.2	90.7	45.4	42.5	29.4	22.7	18.8
52.5°	1286.3	1271.8	1172.9	617.8	207.1	80.6	40.1	40.5	30.4	21.2	17.9
55°	1333.1	1316.7	1247.2	655.5	194.0	72.4	34.3	35.7	29.0	19.3	15.9
57.5°	1397.3	1370.3	1296.9	670.9	182.4	61.3	30.4	29.4	27.0	17.4	14.0
60°	1407.0	1418.1	1289.7	661.3	170.4	54.1	26.5	22.7	29.0	15.4	12.1
62.5°	1439.3	1393.0	1255.9	639.1	161.7	49.7	23.7	18.8	25.1	13.5	10.1
65°	1377.1	1342.8	1176.7	567.6	150.6	50.2	20.8	15.4	15.9	11.1	8.2
67.5°	1285.8	1258.8	1045.5	489.9	139.5	49.2	18.3	13.5	12.1	9.7	7.2
70°	1128.5	1070.1	888.1	397.7	123.1	45.9	15.4	12.1	10.1	7.7	5.3
72.5°	821.0	797.4	637.1	307.5	110.5	41.5	14.5	10.1	8.7	5.8	4.3
75°	552.7	513.6	402.1	201.8	88.8	36.2	12.1	9.2	6.8	4.3	3.4
77.5°	292.0	276.1	227.8	96.1	49.2	16.9	6.8	5.3	3.9	3.4	1.9
80°	126.5	112.5	98.5	39.1	17.4	7.7	4.3	2.9	2.4	1.9	1.0
82.5°	64.7	61.8	51.2	16.9	10.1	5.8	2.4	1.9	1.4	1.0	0.5
85°	31.9	32.8	27.0	5.3	5.8	3.4	0.5	0.5	0.0	0.0	0.0
87.5°	2.4	2.4	1.9	1.0	1.4	0.5	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4
2.5°	599.0	605.7	594.2	601.4	598.0	599.5	600.9	597.1	598.0	611.5	612.0
5°	479.8	492.8	488.0	494.7	506.3	500.5	505.8	504.9	505.8	507.8	516.5
7.5°	342.2	338.3	347.5	365.4	386.1	398.7	392.4	389.0	387.1	382.3	388.1
10°	258.2	256.3	253.9	259.2	272.7	286.7	294.4	281.4	274.2	265.0	261.6
12.5°	214.3	202.2	195.5	187.3	191.1	203.7	204.2	191.6	180.0	175.2	180.5
15°	168.9	160.7	148.7	137.1	131.3	140.9	132.7	120.7	105.7	103.8	103.3
17.5°	120.7	115.8	107.2	102.3	95.6	93.2	84.5	66.1	55.5	52.6	53.6
20°	82.1	78.2	77.7	73.4	70.5	68.5	54.5	42.5	39.1	39.6	40.1
22.5°	60.8	58.9	56.5	56.0	53.6	51.2	40.1	35.7	33.3	33.3	34.8
25°	49.7	48.7	46.3	45.4	44.4	41.0	33.8	30.4	29.4	28.5	29.9
27.5°	42.5	42.0	40.5	39.1	38.1	34.8	29.4	26.5	25.6	25.6	25.6
30°	38.1	38.1	36.2	33.3	33.3	29.4	25.1	23.2	22.2	22.2	21.7
32.5°	35.7	34.8	32.3	30.4	29.0	25.1	22.2	20.3	18.8	18.8	19.3
35°	29.0	29.0	28.5	27.0	25.1	21.2	18.8	16.9	15.9	15.4	15.9
37.5°	25.6	24.1	22.2	22.7	21.7	18.3	15.9	14.5	13.0	13.0	13.0
40°	23.2	21.7	19.8	18.3	17.9	16.4	14.0	11.6	10.1	9.7	9.7
42.5°	20.8	19.8	16.9	14.5	14.0	14.0	10.6	8.7	7.2	7.2	7.2
45°	19.3	17.9	15.4	12.5	10.1	10.6	8.7	6.3	5.3	4.8	4.8
47.5°	18.3	16.9	13.5	10.6	7.7	7.7	6.3	4.3	3.4	2.9	2.9
50°	16.9	15.4	12.1	8.7	5.8	4.8	3.9	2.4	1.4	1.0	1.0
52.5°	15.9	14.5	10.6	7.2	4.8	3.4	2.4	0.5	0.0	0.0	0.0
55°	14.5	12.5	9.2	5.8	3.9	1.9	0.5	0.0	0.0	0.0	0.0
57.5°	12.5	11.1	7.2	4.3	2.4	0.5	0.0	0.0	0.0	0.0	0.0
60°	10.6	9.2	5.8	3.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8.7	7.7	4.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7.2	5.8	3.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6.3	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4.8	3.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3.4	2.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4
2.5°	614.0	628.4	641.9	645.8	656.4	685.9	685.9	699.9	725.0	734.1	736.1
5°	517.9	533.3	536.2	566.2	580.2	610.1	629.9	677.2	705.7	723.5	734.6
7.5°	393.9	399.2	410.3	438.3	465.8	502.0	539.6	600.0	650.2	670.4	708.1
10°	270.8	286.7	310.8	335.9	378.9	419.0	467.7	524.7	586.4	611.5	643.9
12.5°	182.4	204.7	243.3	279.0	318.6	359.1	405.4	481.7	551.7	586.4	618.8
15°	106.7	133.7	167.0	224.9	277.5	322.9	369.2	446.5	531.4	576.3	615.9
17.5°	54.1	62.3	89.8	140.0	209.5	283.8	352.8	451.3	546.9	601.9	634.7
20°	40.5	43.0	50.7	74.3	143.4	234.6	337.4	458.5	589.8	656.9	674.8
22.5°	35.2	37.2	40.5	48.3	80.6	179.6	315.7	476.4	648.2	711.5	749.1
25°	29.9	31.9	34.8	39.6	51.6	122.1	289.1	495.2	700.4	780.0	815.2
27.5°	26.1	27.5	30.4	34.3	42.0	77.7	243.3	520.3	780.0	863.0	872.2
30°	22.2	23.7	26.1	30.4	35.7	55.0	178.6	523.7	823.9	899.2	924.8
32.5°	19.3	19.8	22.7	26.5	29.9	43.4	125.5	527.1	856.3	946.0	951.3
35°	15.9	16.9	19.8	22.2	26.1	34.3	95.1	510.2	898.2	994.3	992.8
37.5°	13.0	14.5	16.4	18.3	21.2	29.0	75.8	478.8	950.9	1069.1	1023.7
40°	10.1	11.6	13.5	15.9	17.9	26.1	57.0	431.5	1005.9	1105.8	1057.5
42.5°	7.2	8.2	10.1	12.5	15.9	21.7	41.0	375.5	1027.6	1148.7	1098.1
45°	5.3	6.3	7.7	10.6	16.4	17.4	28.5	324.4	1050.8	1167.6	1088.9
47.5°	2.9	3.9	5.8	9.2	14.5	13.0	20.3	278.5	1077.3	1184.5	1096.1
50°	1.0	1.4	3.4	9.7	11.6	10.1	15.9	253.9	1103.4	1187.8	1110.6
52.5°	0.0	0.0	1.9	10.1	8.7	7.7	14.0	244.2	1096.6	1198.5	1101.4
55°	0.0	0.0	0.5	4.3	4.8	5.8	11.6	243.7	1144.4	1201.8	1151.6
57.5°	0.0	0.0	0.0	1.4	2.9	4.8	10.1	228.3	1174.8	1285.8	1219.2
60°	0.0	0.0	0.0	0.5	1.9	3.4	7.7	214.8	1205.7	1323.5	1291.6
62.5°	0.0	0.0	0.0	0.0	0.5	1.4	5.3	194.0	1143.4	1320.6	1361.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	153.5	1028.6	1251.6	1323.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.9	106.2	900.7	1164.7	1252.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.2	726.9	1021.3	1061.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5	518.9	810.9	871.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	321.0	592.7	667.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	208.0	448.9	506.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	111.0	281.4	327.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.3	170.9	196.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.4	103.8	118.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.9	21.2
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°	359°	360°
0°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4
2.5°	737.0	751.0	756.3	748.1	749.1	732.2	729.8	706.1	696.5	698.4
5°	770.8	791.1	802.2	793.0	772.3	739.9	710.5	682.5	665.1	656.4
7.5°	763.1	785.8	799.8	808.5	784.8	732.7	687.8	635.2	613.0	613.5
10°	720.6	767.9	796.4	785.3	774.2	722.1	652.6	595.6	575.8	577.8
12.5°	686.4	739.0	755.9	764.5	741.9	700.4	653.5	588.4	566.2	552.7
15°	665.1	704.2	705.2	718.7	709.5	709.5	663.7	600.0	580.6	565.7
17.5°	665.1	673.8	672.8	677.7	693.1	711.5	689.2	646.8	608.6	606.2
20°	680.1	653.0	646.8	648.7	661.7	716.3	745.7	692.6	668.5	660.8
22.5°	714.8	655.5	617.3	610.6	650.6	715.8	781.9	765.0	723.0	716.8
25°	762.6	651.1	609.6	600.9	631.3	733.2	831.6	835.0	796.9	783.9
27.5°	808.0	670.4	608.6	606.7	646.8	729.3	865.9	891.0	848.0	837.4
30°	823.4	689.7	626.5	600.9	652.6	743.3	864.9	930.6	902.6	905.0
32.5°	841.8	709.0	628.4	618.3	677.2	766.0	892.5	994.3	974.0	945.5
35°	868.8	735.1	646.8	637.6	694.6	786.3	898.2	1041.1	1037.7	1004.4
37.5°	892.0	760.7	684.9	686.4	747.7	819.1	923.8	1098.6	1092.8	1070.1
40°	908.4	796.4	744.3	748.1	794.0	855.8	969.2	1127.5	1170.5	1137.2
42.5°	910.8	828.3	812.3	843.2	886.2	912.7	987.5	1147.3	1209.1	1187.4
45°	920.0	878.9	923.3	946.0	981.3	962.9	986.6	1181.1	1212.0	1200.9
47.5°	955.7	971.1	1027.1	1096.1	1108.7	1048.4	1009.7	1186.4	1228.4	1226.9
50°	992.8	1070.1	1148.7	1194.6	1210.5	1107.2	1031.5	1182.1	1250.1	1238.5
52.5°	1034.4	1156.0	1269.4	1325.9	1317.2	1172.4	1056.1	1217.3	1290.2	1286.3
55°	1060.4	1194.6	1347.1	1425.8	1419.0	1245.3	1134.3	1268.0	1342.8	1333.1
57.5°	1129.4	1257.3	1424.4	1461.0	1478.9	1340.9	1188.8	1351.0	1386.7	1397.3
60°	1186.4	1298.4	1444.6	1497.7	1504.0	1397.8	1284.4	1436.4	1442.7	1407.0
62.5°	1269.9	1314.3	1401.7	1449.5	1481.8	1430.1	1370.3	1482.3	1441.7	1439.3
65°	1331.2	1262.2	1321.5	1348.1	1368.8	1380.9	1456.7	1513.6	1423.9	1377.1
67.5°	1296.9	1163.7	1152.6	1154.1	1160.3	1233.2	1427.7	1436.9	1324.4	1285.8
70°	1141.5	954.7	939.8	951.3	920.0	1007.8	1310.4	1306.1	1168.5	1128.5
72.5°	923.3	696.0	670.4	686.4	693.6	786.7	1102.4	990.4	852.4	821.0
75°	733.7	510.2	430.5	469.2	493.8	572.9	861.1	672.8	595.1	552.7
77.5°	576.3	386.1	335.0	319.5	342.2	416.5	626.5	353.3	311.8	292.0
80°	365.4	283.8	307.9	285.7	295.4	297.3	326.3	160.7	127.9	126.5
82.5°	220.1	194.0	230.7	126.9	231.2	206.6	135.6	72.9	64.7	64.7
85°	155.9	120.2	79.6	51.6	102.8	113.4	52.6	37.6	32.8	31.9
87.5°	78.2	37.2	17.9	11.6	13.0	21.2	6.3	2.9	2.9	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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