

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: P677239

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677239  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1B-722-U-SLL-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/  
SLL distribution lens and House Side Shield  
Light Source: (16) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

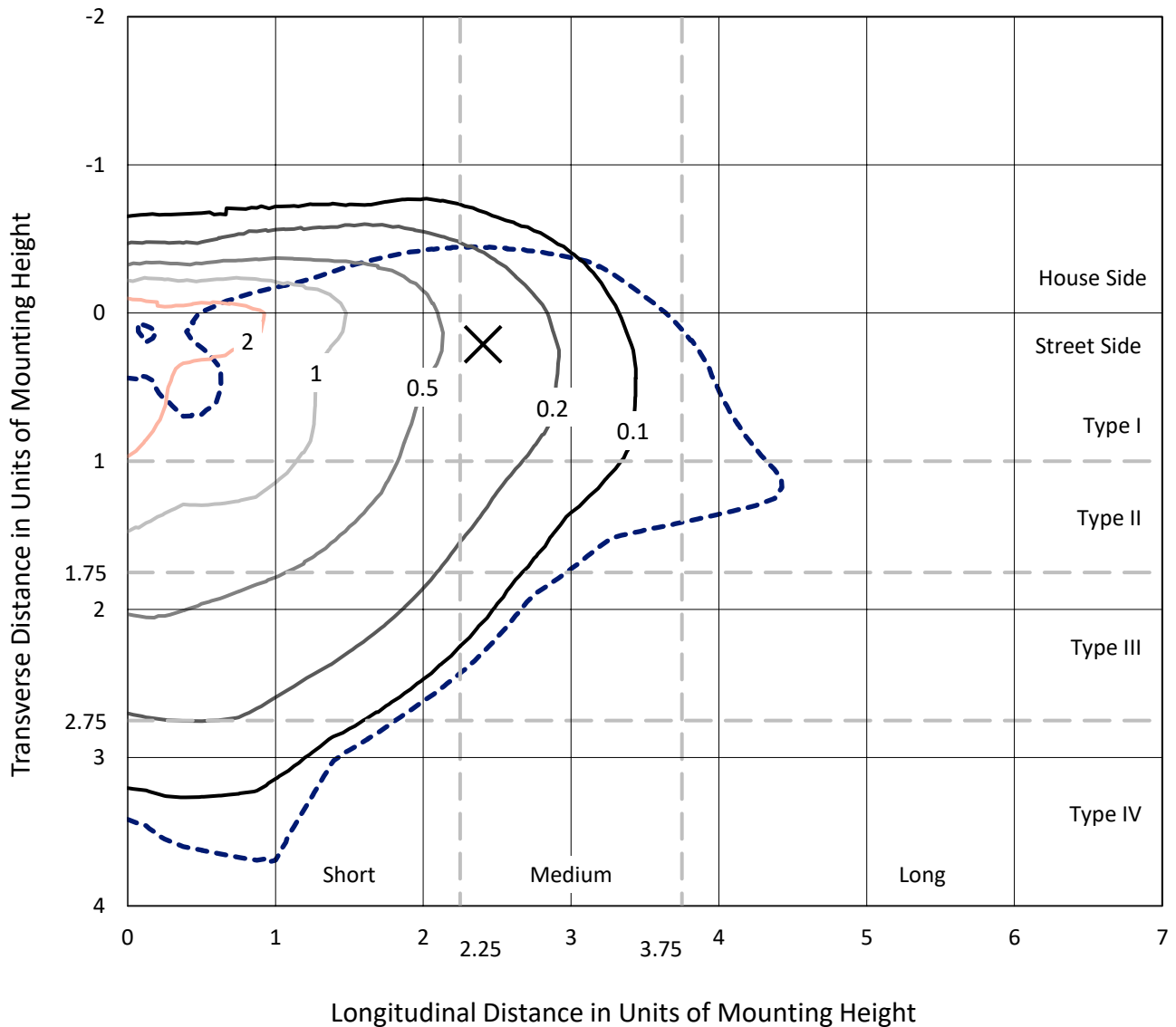
Lumens per Lamp: N/A  
Luminaire Lumens: 1845.7 lumens  
Efficiency: N/A  
Efficacy: 76.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B0 - U0 - G1

Input Watts (W): 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

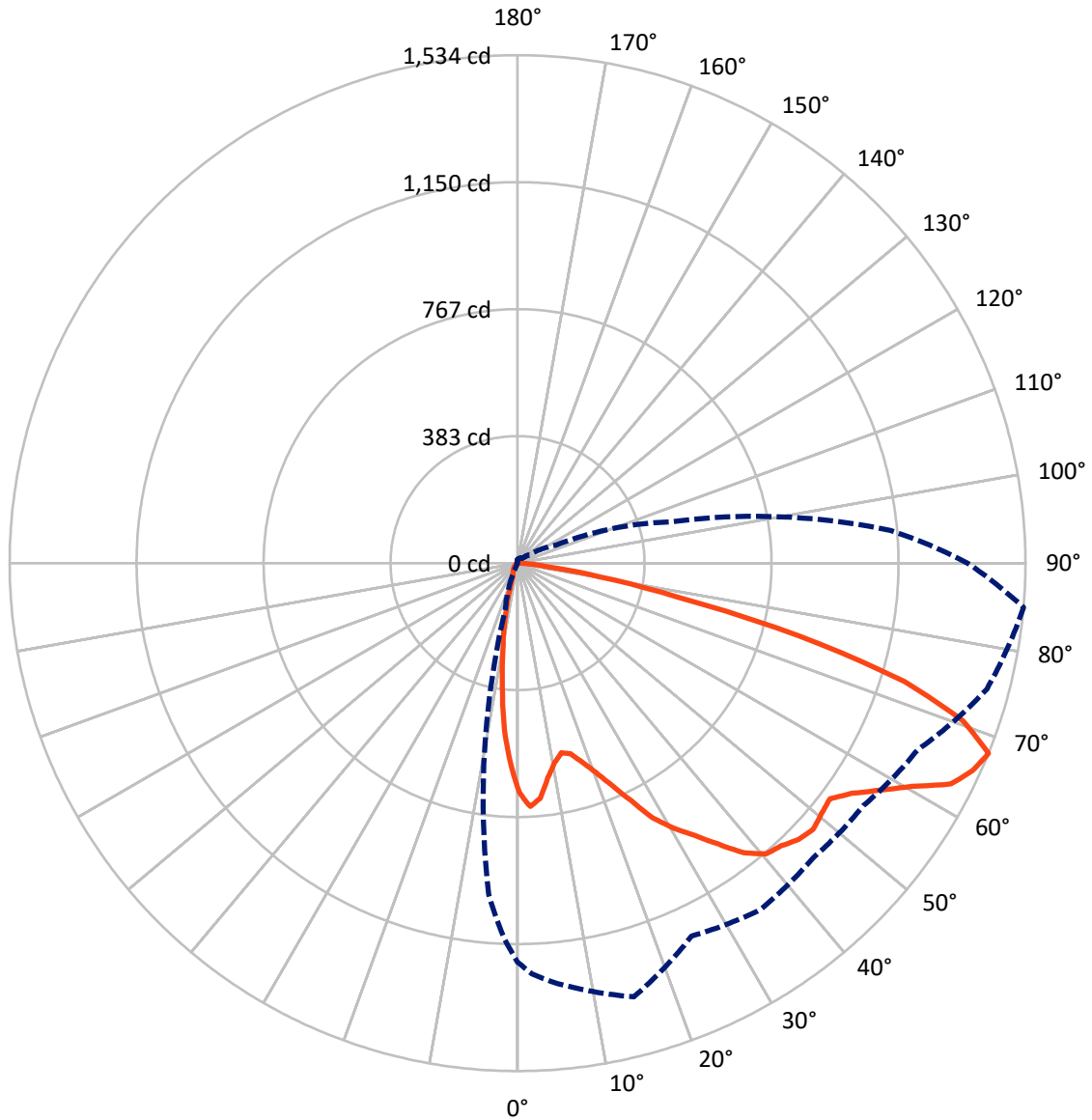
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.5 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	320.5	0.0	320.5
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	1525.2	0.0	1525.2
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	1845.7	0.0	1845.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.7	2.9
10°-20°	103.4	5.6
20°-30°	143.1	7.8
30°-40°	202.2	11.0
40°-50°	275.3	14.9
50°-60°	364.6	19.8
60°-70°	423.3	22.9
70°-80°	239.7	13.0
80°-90°	41.4	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°	1845.7	100.0
0°-180°	1845.7	100.0

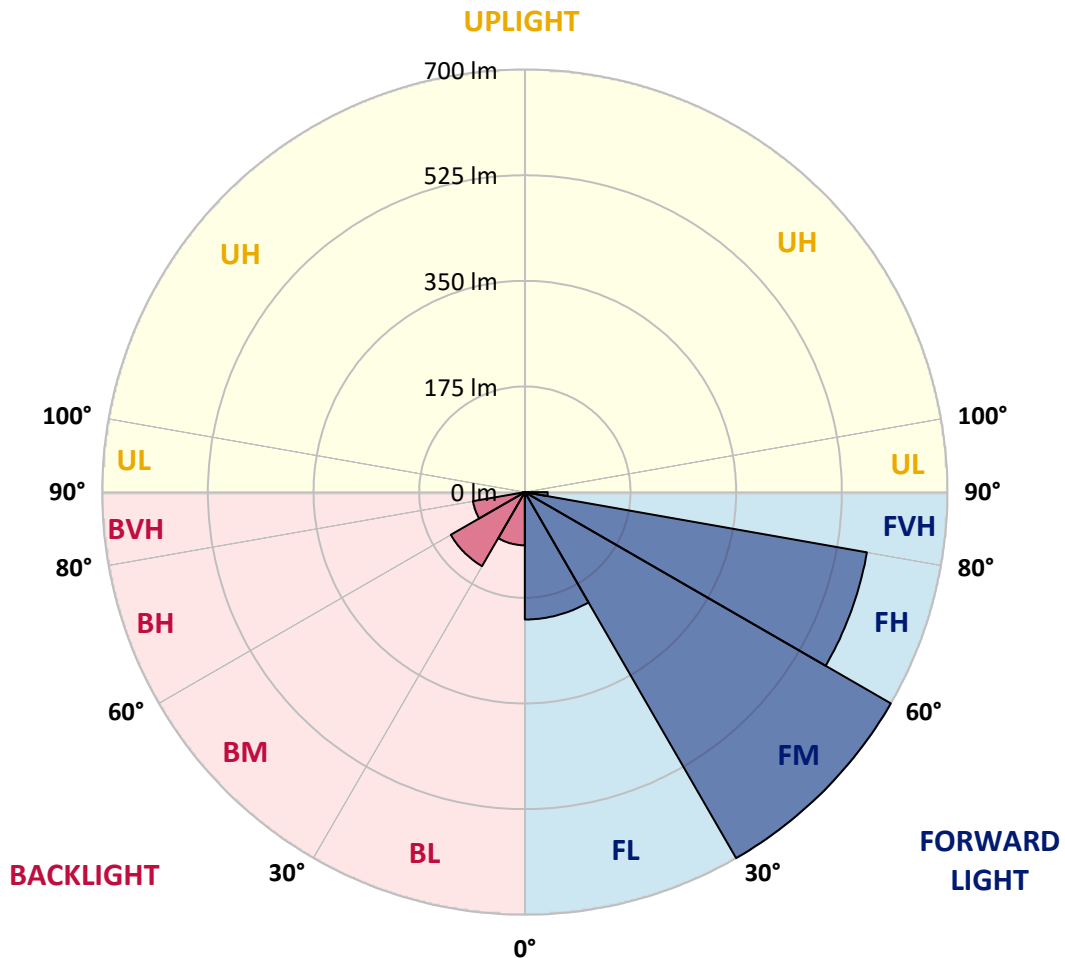


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	211.1	11.4			
FM (30°-60°)	700.5	38.0			
FH (60°-80°)	575.8	31.2			G0/660
FVH (80°-90°)	37.9	2.1			G1/100
BL (0°-30°)	88.1	4.8	B0/110		
BM (30°-60°)	141.6	7.7	B0/220		
BH (60°-80°)	87.3	4.7	B0/110		G0/110
BVH (80°-90°)	3.5	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°	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0
2.5°	721.1	736.4	736.9	743.8	750.7	750.7	766.9	763.0	748.7	746.2	735.9
5°	726.5	731.9	735.9	770.9	800.4	797.5	806.4	800.4	772.8	737.4	713.2
7.5°	679.7	685.6	701.4	761.0	800.9	814.2	831.0	794.0	765.0	700.9	654.5
10°	617.6	628.9	658.0	726.0	775.3	817.7	817.7	788.1	731.9	669.3	612.7
12.5°	583.1	605.8	621.5	690.5	754.6	783.7	782.7	766.9	730.5	651.6	587.5
15°	589.0	595.4	628.9	682.6	725.0	723.5	741.3	736.4	710.7	667.4	596.9
17.5°	616.1	626.0	655.0	682.6	702.8	696.9	696.4	720.1	721.6	694.0	631.9
20°	660.5	689.5	703.3	711.7	687.1	661.9	659.0	692.0	717.6	728.0	673.8
22.5°	731.4	750.7	778.8	735.9	671.8	640.3	634.3	670.8	722.6	768.4	728.0
25°	800.9	815.7	842.8	787.6	689.0	635.8	625.5	657.0	741.3	824.6	793.5
27.5°	874.4	887.2	890.1	825.6	698.4	626.9	614.6	657.0	757.1	854.2	871.9
30°	919.2	934.5	937.5	859.1	713.7	634.3	628.4	660.0	767.9	879.3	928.1
32.5°	969.5	973.4	971.0	865.0	730.5	656.0	631.4	679.7	780.2	909.4	979.4
35°	1029.6	1036.5	1011.4	892.1	767.9	669.8	661.0	703.8	801.4	923.2	1041.5
37.5°	1075.5	1097.2	1040.5	902.5	775.3	698.9	700.4	754.1	816.2	939.9	1110.0
40°	1161.7	1125.2	1089.8	938.0	803.4	748.2	740.3	805.9	866.0	950.8	1154.8
42.5°	1209.0	1189.8	1109.0	941.4	846.8	816.2	818.2	864.5	892.1	981.3	1167.1
45°	1220.9	1200.7	1135.1	943.9	889.7	896.6	930.6	939.4	930.6	1001.5	1190.3
47.5°	1250.9	1207.1	1132.1	976.9	959.1	985.8	1029.1	1048.4	982.8	994.1	1201.2
50°	1245.0	1219.9	1125.7	990.7	1043.9	1114.4	1143.5	1135.6	1041.0	978.9	1189.3
52.5°	1220.4	1193.3	1145.5	1028.2	1123.3	1208.5	1249.0	1229.2	1092.7	1013.4	1181.4
55°	1256.4	1235.7	1171.1	1078.9	1182.9	1291.3	1319.9	1305.1	1156.3	1045.4	1226.3
57.5°	1295.3	1290.9	1240.6	1138.6	1253.4	1376.6	1376.6	1358.4	1211.5	1091.7	1292.8
60°	1351.5	1361.3	1291.8	1178.0	1277.5	1371.7	1443.2	1422.0	1267.2	1173.1	1368.2
62.5°	1333.2	1364.8	1357.9	1262.8	1305.1	1395.8	1434.8	1450.5	1336.2	1272.1	1468.8
65°	1274.6	1308.1	1357.4	1318.5	1284.4	1337.2	1356.9	1404.7	1370.7	1365.3	1510.2
67.5°	1204.6	1241.1	1271.6	1355.9	1242.6	1277.5	1260.3	1275.6	1333.2	1467.3	1533.8
70°	1051.8	1086.8	1135.1	1272.6	1131.7	1100.1	1095.7	1088.3	1178.0	1430.8	1426.4
72.5°	865.0	881.3	961.1	1034.6	837.4	831.5	838.4	830.0	934.0	1295.3	1221.9
75°	647.6	663.9	709.3	794.5	570.3	536.3	575.7	614.6	713.2	1005.5	877.8
77.5°	487.0	507.7	536.3	594.4	418.5	365.2	370.6	407.6	515.6	805.4	491.9
80°	315.9	313.5	368.7	409.1	315.0	324.8	311.0	338.1	373.6	430.8	251.4
82.5°	182.4	184.8	208.0	234.6	219.3	250.9	180.9	302.1	266.6	175.5	93.6
85°	102.5	107.0	128.1	162.7	137.5	92.2	75.4	149.8	167.6	72.0	45.3
87.5°	10.4	8.9	17.3	61.6	37.5	15.3	22.7	36.0	40.4	27.1	13.3
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°	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0
2.5°	721.1	721.1	708.8	688.1	679.7	664.9	644.7	651.1	644.2	619.1	612.7
5°	691.5	667.9	642.2	610.7	592.4	555.0	543.2	522.0	525.4	504.2	505.2
7.5°	629.9	611.2	567.8	526.4	490.4	457.9	412.0	394.8	378.0	369.7	379.5
10°	593.9	558.9	499.8	445.6	397.8	368.7	338.1	314.5	292.8	276.5	273.1
12.5°	567.8	536.7	465.3	399.2	361.8	338.1	310.0	277.5	256.3	228.2	219.8
15°	559.9	522.0	446.6	381.0	344.5	305.6	273.5	241.5	213.9	184.3	174.0
17.5°	587.0	543.2	446.1	366.2	315.0	273.1	228.7	192.7	164.6	137.5	131.1
20°	632.9	565.8	460.4	357.3	286.9	230.7	180.4	144.4	112.9	95.1	90.7
22.5°	685.1	604.3	461.8	333.7	258.8	188.3	131.6	95.1	77.4	69.0	66.5
25°	749.2	665.9	479.6	314.5	225.7	142.9	93.6	72.9	62.6	57.7	56.7
27.5°	801.9	708.8	498.8	294.3	193.2	106.0	73.4	59.6	54.2	49.3	48.8
30°	856.6	758.1	504.2	281.9	165.1	87.2	63.1	52.7	46.8	44.4	43.9
32.5°	904.4	811.8	521.5	261.7	138.5	76.9	57.2	47.3	43.4	39.4	38.9
35°	966.0	842.8	529.8	250.9	128.6	69.5	52.2	43.4	37.5	35.0	34.0
37.5°	1032.1	872.9	535.3	242.5	120.3	65.1	49.3	40.9	35.5	32.0	31.1
40°	1093.7	915.3	527.4	232.1	113.9	59.6	47.3	38.0	33.0	29.6	28.1
42.5°	1141.0	956.7	524.9	222.3	107.0	57.7	44.9	36.5	31.1	27.1	26.6
45°	1167.6	984.8	507.7	214.4	101.5	58.7	43.9	34.5	29.6	26.1	24.2
47.5°	1161.2	1006.5	512.1	211.9	94.1	54.7	43.4	33.0	27.1	24.2	22.7
50°	1196.7	1050.3	504.7	204.1	88.7	49.3	47.3	33.0	26.6	23.2	21.7
52.5°	1202.6	1090.3	520.5	189.8	80.3	45.3	46.8	32.5	25.6	22.2	20.2
55°	1251.9	1136.6	551.0	181.9	73.4	39.4	42.9	31.5	23.2	20.2	19.2
57.5°	1319.0	1232.7	570.8	174.5	64.1	34.5	36.0	31.1	21.2	18.7	17.3
60°	1383.5	1271.1	572.2	161.2	55.2	31.1	28.1	31.1	19.7	16.8	15.3
62.5°	1431.8	1271.1	562.4	149.8	48.3	27.6	24.6	29.6	17.7	14.8	13.8
65°	1405.7	1237.1	536.7	140.5	43.9	24.2	21.2	22.7	15.8	12.8	11.8
67.5°	1358.9	1131.2	480.1	129.1	43.4	21.2	18.2	16.8	13.8	11.3	10.4
70°	1284.0	988.2	399.7	116.3	42.4	19.2	16.3	14.3	12.3	9.9	8.9
72.5°	1034.6	816.2	328.3	108.9	41.4	16.8	13.8	12.3	10.4	8.4	7.4
75°	716.6	521.5	252.8	93.2	40.4	15.3	12.8	10.8	8.9	6.9	6.4
77.5°	429.8	348.5	163.1	70.0	26.6	12.3	10.8	8.4	7.4	5.9	5.4
80°	201.1	164.6	66.0	27.1	12.8	8.9	7.4	6.4	5.9	4.9	4.4
82.5°	78.9	69.5	32.0	15.8	10.4	6.9	5.9	5.4	4.9	3.9	3.5
85°	42.4	37.5	15.3	10.8	7.4	4.9	4.9	4.4	3.9	3.5	3.0
87.5°	9.4	6.9	6.4	6.4	5.4	3.9	3.9	3.5	3.0	2.5	2.0
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°	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0
2.5°	609.2	616.6	604.8	612.2	601.8	609.7	610.7	603.3	605.3	615.1	619.6
5°	519.0	514.1	503.2	499.8	500.3	493.9	496.3	499.8	505.2	508.2	517.0
7.5°	374.1	385.4	384.9	393.3	393.8	392.8	385.9	371.1	376.1	372.1	377.1
10°	267.6	272.6	281.9	287.3	297.2	291.8	276.0	270.1	267.1	266.6	271.6
12.5°	213.9	202.1	201.1	203.1	208.0	201.6	193.7	186.8	190.3	197.2	202.6
15°	165.6	155.8	142.9	141.0	141.9	139.0	130.6	121.7	124.2	131.1	135.0
17.5°	127.2	115.8	107.0	101.0	99.1	88.7	76.4	69.0	67.0	66.5	70.0
20°	85.8	83.8	82.3	74.9	74.9	60.1	49.8	44.4	44.4	45.3	45.8
22.5°	64.1	61.6	62.1	60.6	56.7	44.9	39.4	38.0	38.0	38.9	38.9
25°	55.7	52.2	51.3	50.8	46.8	38.4	34.5	33.0	33.0	34.0	34.0
27.5°	47.3	46.3	44.9	42.9	39.4	33.0	30.6	29.1	29.6	30.1	29.6
30°	43.4	40.9	38.9	38.9	35.0	29.6	27.6	26.6	25.6	26.6	27.1
32.5°	38.4	37.0	36.0	34.5	30.1	26.1	24.2	23.2	22.7	22.7	23.2
35°	33.0	33.0	32.0	30.1	26.1	23.7	21.2	20.2	19.7	20.2	20.2
37.5°	29.6	28.1	28.6	26.6	23.2	20.7	18.2	17.3	17.3	16.8	17.3
40°	27.6	25.1	23.7	22.7	20.7	17.7	15.8	14.8	14.3	14.3	14.3
42.5°	24.6	22.7	19.7	19.2	18.7	15.3	12.8	12.3	11.8	11.3	11.3
45°	23.2	20.2	17.7	15.3	15.3	12.8	10.8	9.9	9.4	8.9	9.4
47.5°	21.2	18.2	15.3	12.8	12.3	10.4	8.4	7.4	6.9	6.9	6.9
50°	20.2	16.3	13.3	10.8	9.4	8.4	6.4	5.4	4.9	4.9	4.9
52.5°	18.7	15.3	11.8	9.4	7.4	6.4	4.9	3.9	3.5	3.5	3.5
55°	16.8	13.8	10.4	7.9	6.4	4.9	3.5	2.5	2.0	2.0	2.0
57.5°	15.8	12.3	8.9	6.9	4.9	3.5	2.0	1.5	1.5	1.0	1.5
60°	14.3	10.8	7.4	5.4	3.9	2.5	1.5	0.5	0.5	0.5	0.5
62.5°	12.3	9.4	6.4	4.4	3.0	1.5	0.5	0.0	0.0	0.0	0.0
65°	10.4	7.4	4.9	3.5	2.0	0.5	0.0	0.0	0.0	0.0	0.0
67.5°	8.9	6.4	3.9	2.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	7.9	5.4	3.0	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6.4	4.4	2.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	5.4	3.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.4	2.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.5	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.5	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°	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0
2.5°	626.0	623.0	637.8	661.9	674.3	698.4	704.3	719.6	715.7	721.1
5°	518.0	523.9	545.6	581.1	593.9	628.9	661.9	695.0	716.2	726.5
7.5°	384.4	404.2	430.8	463.3	496.3	542.2	598.4	636.8	657.5	679.7
10°	286.4	307.6	338.1	370.2	423.9	475.1	531.3	579.1	596.9	617.6
12.5°	225.2	258.3	293.8	328.3	360.3	409.1	478.6	548.1	567.3	583.1
15°	156.7	197.2	247.9	292.8	337.6	380.0	452.0	536.3	562.4	589.0
17.5°	86.7	118.8	176.9	240.0	306.1	371.1	460.8	557.9	597.4	616.1
20°	50.3	63.1	104.5	179.4	266.6	351.9	465.3	598.9	651.1	660.5
22.5°	41.4	45.8	59.1	112.4	218.3	339.6	488.0	656.0	709.3	731.4
25°	35.5	38.9	45.8	67.5	165.1	313.5	502.2	727.5	776.8	800.9
27.5°	31.5	35.0	40.4	49.8	112.4	277.5	525.9	792.1	841.3	874.4
30°	27.6	30.6	36.0	42.4	77.9	237.1	546.1	839.4	908.9	919.2
32.5°	24.6	27.1	31.1	36.5	57.7	179.9	562.4	888.2	946.8	969.5
35°	21.2	24.2	26.6	31.1	43.9	135.5	552.5	926.1	1002.5	1029.6
37.5°	18.7	20.7	23.2	26.1	37.0	106.0	532.3	971.5	1050.3	1075.5
40°	15.8	17.3	20.2	23.2	33.5	81.8	509.1	1026.2	1117.4	1161.7
42.5°	13.3	14.8	16.8	21.7	27.6	60.6	462.3	1068.6	1171.6	1209.0
45°	10.4	12.3	15.3	21.7	22.2	44.9	414.0	1100.1	1202.1	1220.9
47.5°	7.9	9.9	14.8	18.7	17.7	31.1	356.8	1136.1	1233.7	1250.9
50°	5.9	7.9	16.8	16.3	14.8	23.7	320.9	1161.2	1235.7	1245.0
52.5°	3.9	5.9	13.8	12.3	12.3	20.7	311.0	1160.2	1240.6	1220.4
55°	3.0	4.4	7.9	8.9	10.8	18.2	302.1	1197.2	1242.1	1256.4
57.5°	2.0	3.5	5.4	6.9	9.4	15.8	283.9	1241.6	1287.9	1295.3
60°	1.0	2.5	3.9	5.4	7.9	13.8	258.3	1274.1	1343.6	1351.5
62.5°	0.5	1.5	3.0	4.4	6.4	10.8	231.7	1222.3	1319.4	1333.2
65°	0.0	1.0	2.0	3.0	3.9	7.9	188.3	1103.6	1223.8	1274.6
67.5°	0.0	0.0	1.0	2.0	2.5	5.9	141.9	1004.0	1135.6	1204.6
70°	0.0	0.0	0.5	0.5	1.5	4.4	90.7	831.5	1013.9	1051.8
72.5°	0.0	0.0	0.0	0.0	0.5	3.0	52.7	617.6	794.5	865.0
75°	0.0	0.0	0.0	0.0	0.0	2.5	26.6	397.3	553.0	647.6
77.5°	0.0	0.0	0.0	0.0	0.0	2.0	14.3	256.3	407.6	487.0
80°	0.0	0.0	0.0	0.0	0.0	0.5	8.4	148.9	260.7	315.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	72.9	155.8	182.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	38.9	77.9	102.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	5.4	10.4
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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