

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: P677388

Luminaire Tested: **CCW-SA-2A-722-U-SLR-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677388  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2A-722-U-SLR-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
SLR distribution lens and House Side Shield  
Light Source: (32) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2896.4 lumens  
Efficiency: N/A  
Efficacy: 80.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

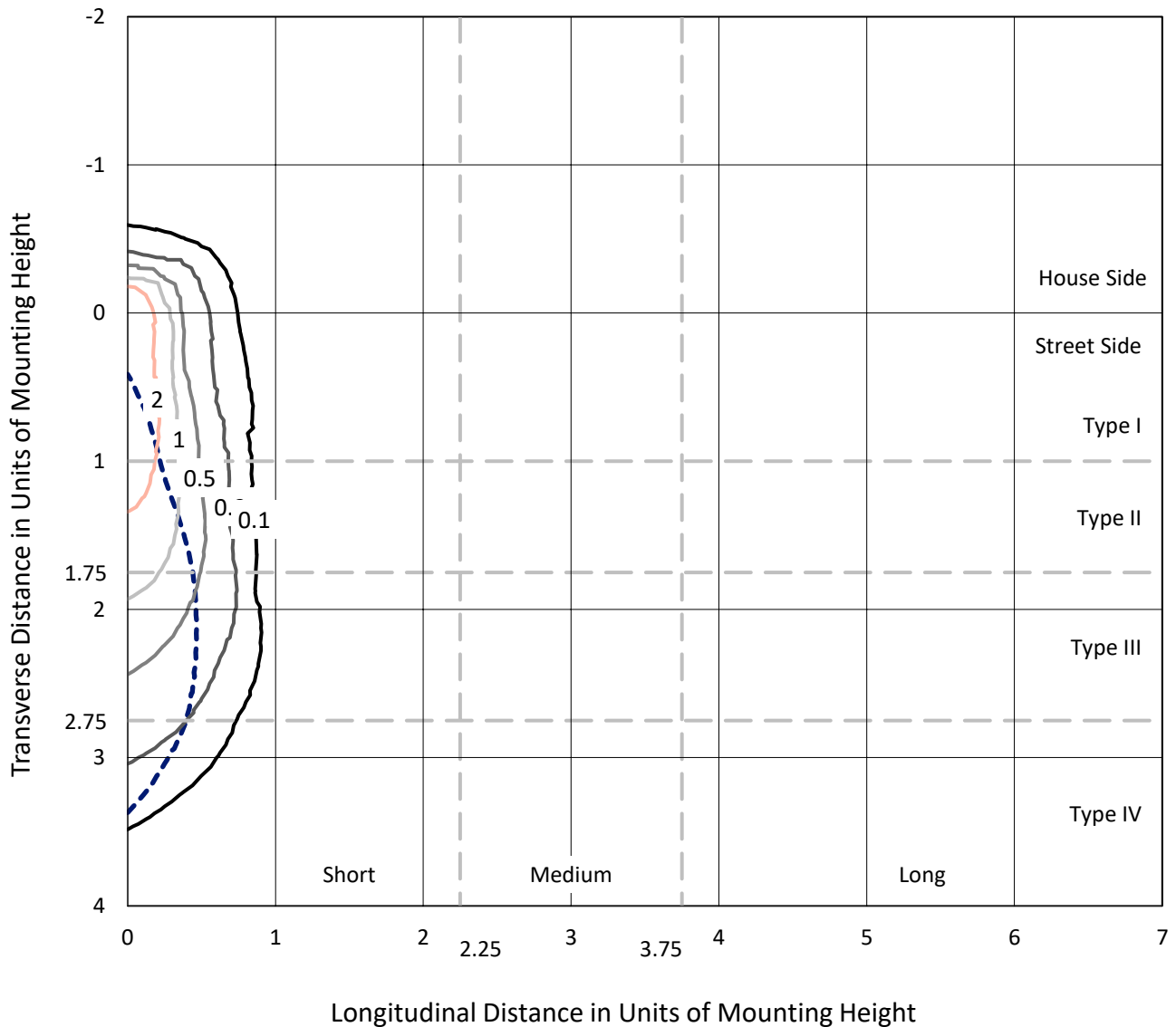
Input Watts (W): 36.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

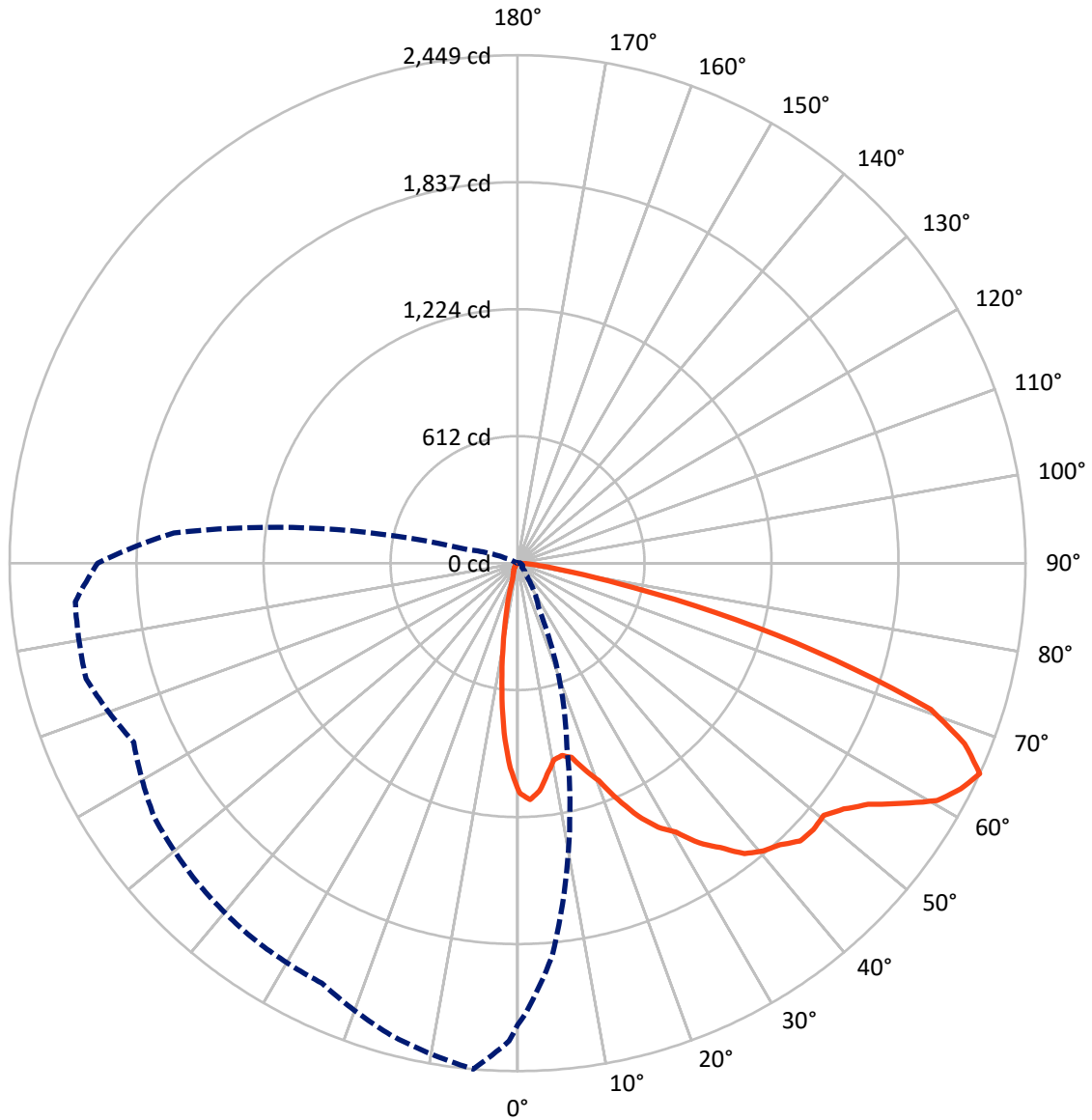
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.9 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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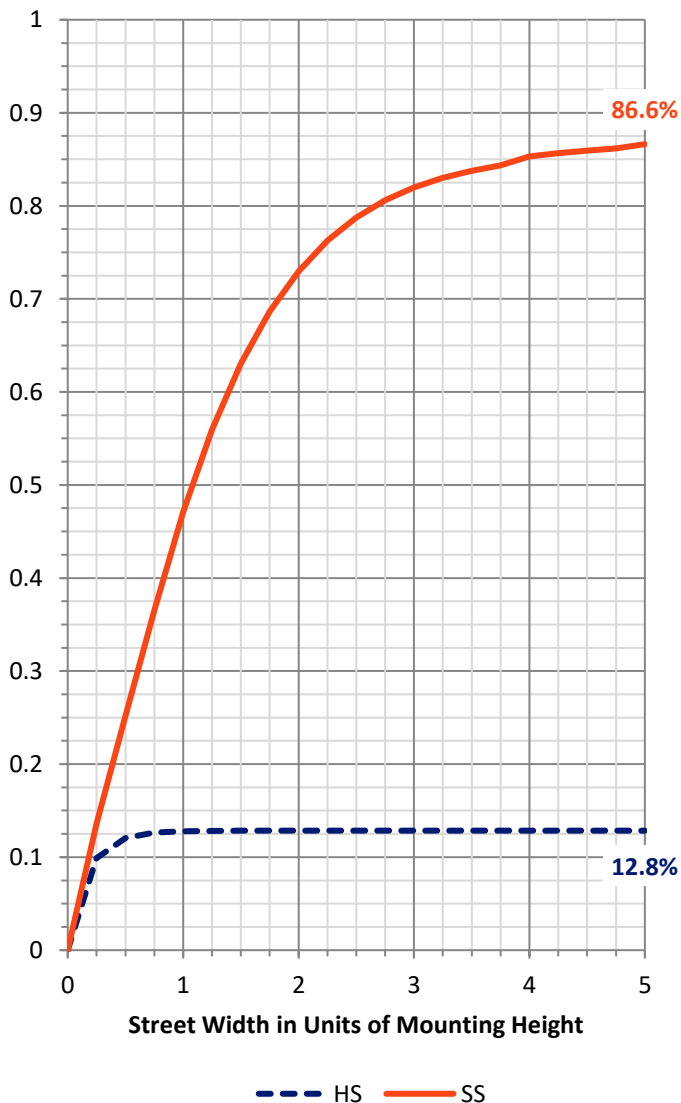
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	376.1	0.0	376.1
	% Fixture	13.0	0.0	13.0
<b>Street Side</b>	Lumens	2520.3	0.0	2520.3
	% Fixture	87.0	0.0	87.0
<b>Total</b>	Lumens	2896.4	0.0	2896.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.9	2.9
10°-20°	162.4	5.6
20°-30°	226.2	7.8
30°-40°	321.4	11.1
40°-50°	445.7	15.4
50°-60°	607.3	21.0
60°-70°	667.7	23.1
70°-80°	328.2	11.3
80°-90°	53.6	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°	2896.4	100.0
0°-180°	2896.4	100.0



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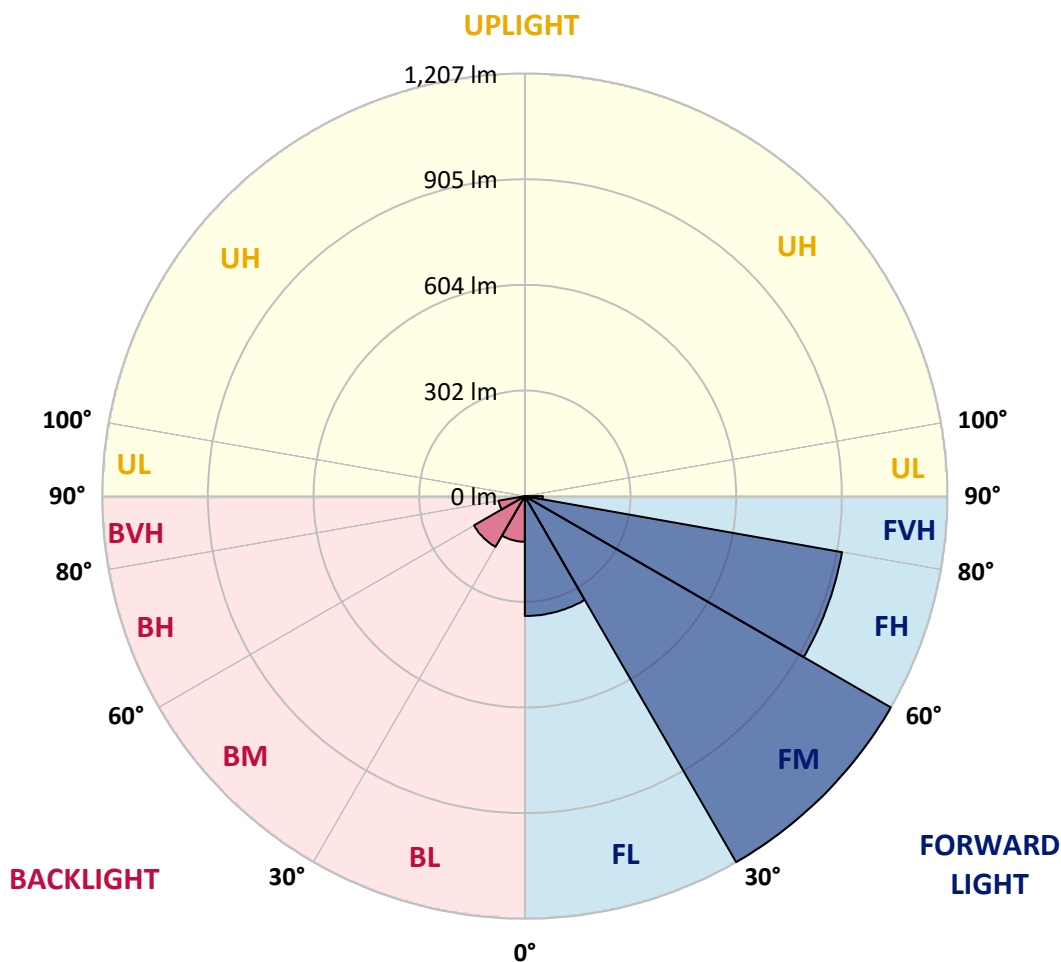
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	342.3	11.8			
FM (30°-60°)	1207.0	41.7			
FH (60°-80°)	919.8	31.8			G1/1800
FVH (80°-90°)	51.2	1.8			G1/100
BL (0°-30°)	130.2	4.5	B1/500		
BM (30°-60°)	167.4	5.8	B0/220		
BH (60°-80°)	76.0	2.6	B0/110		G0/110
BVH (80°-90°)	2.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3
2.5°	1129.9	1143.2	1130.7	1087.0	1079.2	1058.1	1026.1	1023.7	990.2	994.1	976.1
5°	1062.0	1075.3	1048.7	990.9	937.1	894.1	868.3	822.3	812.1	789.5	789.5
7.5°	992.5	991.7	946.4	898.0	817.6	738.7	702.8	636.4	597.4	576.3	556.0
10°	934.7	922.2	894.1	794.2	706.7	624.7	580.2	536.5	495.9	460.7	425.6
12.5°	894.1	901.9	857.4	748.9	635.6	578.6	531.0	484.9	436.5	396.7	357.6
15°	915.2	902.7	850.4	738.7	623.9	545.8	482.6	426.4	372.5	320.2	290.5
17.5°	980.8	948.8	887.1	738.7	599.7	495.9	419.3	353.0	295.2	248.3	211.6
20°	1069.0	1032.3	965.9	766.0	581.8	459.2	354.5	271.0	210.8	167.1	139.0
22.5°	1159.6	1130.7	1030.8	777.0	560.7	410.0	279.6	196.0	140.6	112.4	98.4
25°	1268.1	1227.5	1118.2	820.7	529.4	362.3	220.2	136.7	104.6	89.8	81.2
27.5°	1354.8	1347.8	1200.2	847.3	506.0	323.3	174.1	108.5	86.7	75.7	70.3
30°	1464.1	1425.9	1300.2	900.4	479.5	278.8	145.2	97.6	79.6	67.9	64.0
32.5°	1529.7	1511.8	1352.5	930.0	449.8	242.1	124.9	85.9	72.6	64.0	60.1
35°	1625.0	1589.1	1427.4	948.8	434.2	221.0	112.4	78.1	60.9	52.3	47.6
37.5°	1731.2	1717.9	1517.2	948.0	411.5	208.5	103.9	72.6	57.8	48.4	42.9
40°	1839.7	1785.9	1571.9	969.8	399.8	199.1	97.6	69.5	54.7	46.1	39.0
42.5°	1921.0	1859.3	1635.2	962.0	385.8	182.7	95.3	64.8	52.3	42.2	35.9
45°	1942.8	1921.0	1692.2	959.7	375.6	169.5	91.4	64.0	50.8	39.8	33.6
47.5°	1985.0	1970.2	1762.4	963.6	367.8	159.3	82.0	65.6	48.4	37.5	32.0
50°	2003.7	1977.2	1819.4	973.0	349.8	146.8	73.4	68.7	47.6	36.7	30.5
52.5°	2081.0	2057.6	1897.5	999.5	335.0	130.4	64.8	65.6	49.2	34.4	28.9
55°	2156.8	2130.2	2017.8	1060.4	313.9	117.1	55.4	57.8	46.9	31.2	25.8
57.5°	2260.6	2216.9	2098.2	1085.4	295.2	99.2	49.2	47.6	43.7	28.1	22.6
60°	2276.3	2294.2	2086.5	1069.8	275.6	87.5	42.9	36.7	46.9	25.0	19.5
62.5°	2328.6	2253.6	2031.8	1033.9	261.6	80.4	38.3	30.5	40.6	21.9	16.4
65°	2227.8	2172.4	1903.8	918.3	243.6	81.2	33.6	25.0	25.8	18.0	13.3
67.5°	2080.3	2036.5	1691.4	792.6	225.7	79.6	29.7	21.9	19.5	15.6	11.7
70°	1825.7	1731.2	1436.8	643.4	199.1	74.2	25.0	19.5	16.4	12.5	8.6
72.5°	1328.3	1290.0	1030.8	497.4	178.8	67.2	23.4	16.4	14.1	9.4	7.0
75°	894.1	830.9	650.5	326.4	143.7	58.6	19.5	14.8	10.9	7.0	5.5
77.5°	472.4	446.7	368.6	155.4	79.6	27.3	10.9	8.6	6.2	5.5	3.1
80°	204.6	181.9	159.3	63.3	28.1	12.5	7.0	4.7	3.9	3.1	1.6
82.5°	104.6	100.0	82.8	27.3	16.4	9.4	3.9	3.1	2.3	1.6	0.8
85°	51.5	53.1	43.7	8.6	9.4	5.5	0.8	0.8	0.0	0.0	0.0
87.5°	3.9	3.9	3.1	1.6	2.3	0.8	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°	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3
2.5°	969.1	980.0	961.3	973.0	967.5	969.8	972.2	965.9	967.5	989.4	990.2
5°	776.2	797.3	789.5	800.4	819.1	809.8	818.4	816.8	818.4	821.5	835.5
7.5°	553.6	547.4	562.2	591.1	624.7	645.0	634.9	629.4	626.3	618.5	627.8
10°	417.8	414.6	410.7	419.3	441.2	463.8	476.3	455.3	443.5	428.7	423.2
12.5°	346.7	327.2	316.3	303.0	309.2	329.5	330.3	310.0	291.3	283.5	292.0
15°	273.3	260.0	240.5	221.8	212.4	228.0	214.7	195.2	171.0	167.9	167.1
17.5°	195.2	187.4	173.4	165.5	154.6	150.7	136.7	107.0	89.8	85.1	86.7
20°	132.7	126.5	125.7	118.7	114.0	110.9	88.2	68.7	63.3	64.0	64.8
22.5°	98.4	95.3	91.4	90.6	86.7	82.8	64.8	57.8	53.9	53.9	56.2
25°	80.4	78.9	75.0	73.4	71.8	66.4	54.7	49.2	47.6	46.1	48.4
27.5°	68.7	67.9	65.6	63.3	61.7	56.2	47.6	42.9	41.4	41.4	41.4
30°	61.7	61.7	58.6	53.9	53.9	47.6	40.6	37.5	35.9	35.9	35.1
32.5°	57.8	56.2	52.3	49.2	46.9	40.6	35.9	32.8	30.5	30.5	31.2
35°	46.9	46.9	46.1	43.7	40.6	34.4	30.5	27.3	25.8	25.0	25.8
37.5°	41.4	39.0	35.9	36.7	35.1	29.7	25.8	23.4	21.1	21.1	21.1
40°	37.5	35.1	32.0	29.7	28.9	26.5	22.6	18.7	16.4	15.6	15.6
42.5°	33.6	32.0	27.3	23.4	22.6	22.6	17.2	14.1	11.7	11.7	11.7
45°	31.2	28.9	25.0	20.3	16.4	17.2	14.1	10.2	8.6	7.8	7.8
47.5°	29.7	27.3	21.9	17.2	12.5	12.5	10.2	7.0	5.5	4.7	4.7
50°	27.3	25.0	19.5	14.1	9.4	7.8	6.2	3.9	2.3	1.6	1.6
52.5°	25.8	23.4	17.2	11.7	7.8	5.5	3.9	0.8	0.0	0.0	0.0
55°	23.4	20.3	14.8	9.4	6.2	3.1	0.8	0.0	0.0	0.0	0.0
57.5°	20.3	18.0	11.7	7.0	3.9	0.8	0.0	0.0	0.0	0.0	0.0
60°	17.2	14.8	9.4	5.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	14.1	12.5	7.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11.7	9.4	5.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10.2	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7.8	5.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5.5	3.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.8	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°	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3
2.5°	993.3	1016.7	1038.6	1044.8	1062.0	1109.6	1109.6	1132.3	1172.9	1187.7	1190.8
5°	837.9	862.9	867.6	916.0	938.6	987.0	1019.0	1095.6	1141.6	1170.5	1188.5
7.5°	637.2	645.8	663.7	709.0	753.5	812.1	873.0	970.6	1051.8	1084.6	1145.5
10°	438.1	463.8	502.9	543.5	613.0	677.8	756.7	848.8	948.8	989.4	1041.7
12.5°	295.2	331.1	393.6	451.3	515.4	581.0	655.9	779.3	892.5	948.8	1001.1
15°	172.6	216.3	270.2	363.9	449.0	522.4	597.4	722.3	859.7	932.4	996.4
17.5°	87.5	100.7	145.2	226.5	338.9	459.2	570.8	730.1	884.7	973.8	1026.9
20°	65.6	69.5	82.0	120.3	231.9	379.5	545.8	741.8	954.2	1062.8	1091.7
22.5°	57.0	60.1	65.6	78.1	130.4	290.5	510.7	770.7	1048.7	1151.0	1211.9
25°	48.4	51.5	56.2	64.0	83.6	197.6	467.7	801.2	1133.1	1261.9	1318.9
27.5°	42.2	44.5	49.2	55.4	67.9	125.7	393.6	841.8	1261.9	1396.2	1411.0
30°	35.9	38.3	42.2	49.2	57.8	89.0	288.9	847.3	1333.0	1454.8	1496.2
32.5°	31.2	32.0	36.7	42.9	48.4	70.3	203.0	852.7	1385.3	1530.5	1539.1
35°	25.8	27.3	32.0	35.9	42.2	55.4	153.8	825.4	1453.2	1608.6	1606.3
37.5°	21.1	23.4	26.5	29.7	34.4	46.9	122.6	774.6	1538.3	1729.6	1656.2
40°	16.4	18.7	21.9	25.8	28.9	42.2	92.1	698.1	1627.3	1789.0	1710.9
42.5°	11.7	13.3	16.4	20.3	25.8	35.1	66.4	607.5	1662.5	1858.5	1776.5
45°	8.6	10.2	12.5	17.2	26.5	28.1	46.1	524.7	1700.0	1888.9	1761.7
47.5°	4.7	6.2	9.4	14.8	23.4	21.1	32.8	450.6	1742.9	1916.3	1773.4
50°	1.6	2.3	5.5	15.6	18.7	16.4	25.8	410.7	1785.1	1921.7	1796.8
52.5°	0.0	0.0	3.1	16.4	14.1	12.5	22.6	395.1	1774.2	1938.9	1782.0
55°	0.0	0.0	0.8	7.0	7.8	9.4	18.7	394.3	1851.5	1944.4	1863.2
57.5°	0.0	0.0	0.0	2.3	4.7	7.8	16.4	369.4	1900.7	2080.3	1972.5
60°	0.0	0.0	0.0	0.8	3.1	5.5	12.5	347.5	1950.6	2141.2	2089.6
62.5°	0.0	0.0	0.0	0.0	0.8	2.3	8.6	313.9	1849.9	2136.5	2202.9
65°	0.0	0.0	0.0	0.0	0.0	0.0	5.5	248.3	1664.0	2024.8	2140.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.1	171.8	1457.1	1884.3	2025.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	103.9	1176.0	1652.3	1717.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.5	839.4	1311.9	1409.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0	519.3	958.9	1079.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	336.6	726.2	819.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	179.6	455.3	529.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.1	276.4	318.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	167.9	191.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.8	34.4
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°	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3
2.5°	1192.4	1215.0	1223.6	1210.4	1211.9	1184.6	1180.7	1142.4	1126.8	1129.9
5°	1247.1	1279.9	1297.8	1283.0	1249.4	1197.1	1149.4	1104.2	1076.0	1062.0
7.5°	1234.6	1271.3	1293.9	1308.0	1269.7	1185.4	1112.7	1027.6	991.7	992.5
10°	1165.8	1242.4	1288.4	1270.5	1252.5	1168.2	1055.7	963.6	931.6	934.7
12.5°	1110.4	1195.5	1222.9	1236.9	1200.2	1133.1	1057.3	951.9	916.0	894.1
15°	1076.0	1139.3	1140.9	1162.7	1147.9	1147.9	1073.7	970.6	939.4	915.2
17.5°	1076.0	1090.1	1088.5	1096.4	1121.3	1151.0	1115.1	1046.4	984.7	980.8
20°	1100.3	1056.5	1046.4	1049.5	1070.6	1158.8	1206.5	1120.6	1081.5	1069.0
22.5°	1156.5	1060.4	998.7	987.8	1052.6	1158.0	1265.0	1237.7	1169.8	1159.6
25°	1233.8	1053.4	986.2	972.2	1021.4	1186.2	1345.4	1350.9	1289.2	1268.1
27.5°	1307.2	1084.6	984.7	981.6	1046.4	1179.9	1400.9	1441.5	1372.0	1354.8
30°	1332.2	1115.9	1013.6	972.2	1055.7	1202.5	1399.3	1505.5	1460.2	1464.1
32.5°	1361.8	1147.1	1016.7	1000.3	1095.6	1239.3	1443.8	1608.6	1575.8	1529.7
35°	1405.6	1189.3	1046.4	1031.5	1123.7	1272.0	1453.2	1684.3	1678.9	1625.0
37.5°	1443.1	1230.7	1108.1	1110.4	1209.6	1325.1	1494.6	1777.3	1767.9	1731.2
40°	1469.6	1288.4	1204.1	1210.4	1284.5	1384.5	1568.0	1824.1	1893.6	1839.7
42.5°	1473.5	1340.0	1314.2	1364.2	1433.7	1476.6	1597.7	1856.1	1956.1	1921.0
45°	1488.3	1422.0	1493.8	1530.5	1587.5	1557.8	1596.1	1910.8	1960.8	1942.8
47.5°	1546.1	1571.1	1661.7	1773.4	1793.7	1696.1	1633.6	1919.4	1987.3	1985.0
50°	1606.3	1731.2	1858.5	1932.7	1958.4	1791.3	1668.7	1912.4	2022.5	2003.7
52.5°	1673.4	1870.2	2053.7	2145.1	2131.0	1896.7	1708.6	1969.4	2087.3	2081.0
55°	1715.6	1932.7	2179.4	2306.7	2295.8	2014.7	1835.1	2051.4	2172.4	2156.8
57.5°	1827.3	2034.2	2304.4	2363.7	2392.6	2169.3	1923.3	2185.7	2243.5	2260.6
60°	1919.4	2100.6	2337.2	2423.1	2433.2	2261.4	2077.9	2323.9	2334.0	2276.3
62.5°	2054.5	2126.3	2267.7	2345.0	2397.3	2313.7	2216.9	2398.1	2332.5	2328.6
65°	2153.7	2042.0	2138.0	2181.0	2214.6	2234.1	2356.7	2448.8	2303.6	2227.8
67.5°	2098.2	1882.7	1864.7	1867.1	1877.2	1995.1	2309.8	2324.7	2142.7	2080.3
70°	1846.8	1544.6	1520.4	1539.1	1488.3	1630.5	2120.1	2113.1	1890.5	1825.7
72.5°	1493.8	1126.0	1084.6	1110.4	1122.1	1272.8	1783.5	1602.4	1379.0	1328.3
75°	1186.9	825.4	696.5	759.0	798.8	926.9	1393.1	1088.5	962.8	894.1
77.5°	932.4	624.7	541.9	516.9	553.6	673.9	1013.6	571.6	504.4	472.4
80°	591.1	459.2	498.2	462.3	477.9	481.0	527.9	260.0	206.9	204.6
82.5°	356.1	313.9	373.3	205.4	374.0	334.2	219.4	117.9	104.6	104.6
85°	252.2	194.4	128.8	83.6	166.3	183.5	85.1	60.9	53.1	51.5
87.5°	126.5	60.1	28.9	18.7	21.1	34.4	10.2	4.7	4.7	3.9
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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