

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: P677389

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677389  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2B-722-U-SLR-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA 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: 3655.8 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

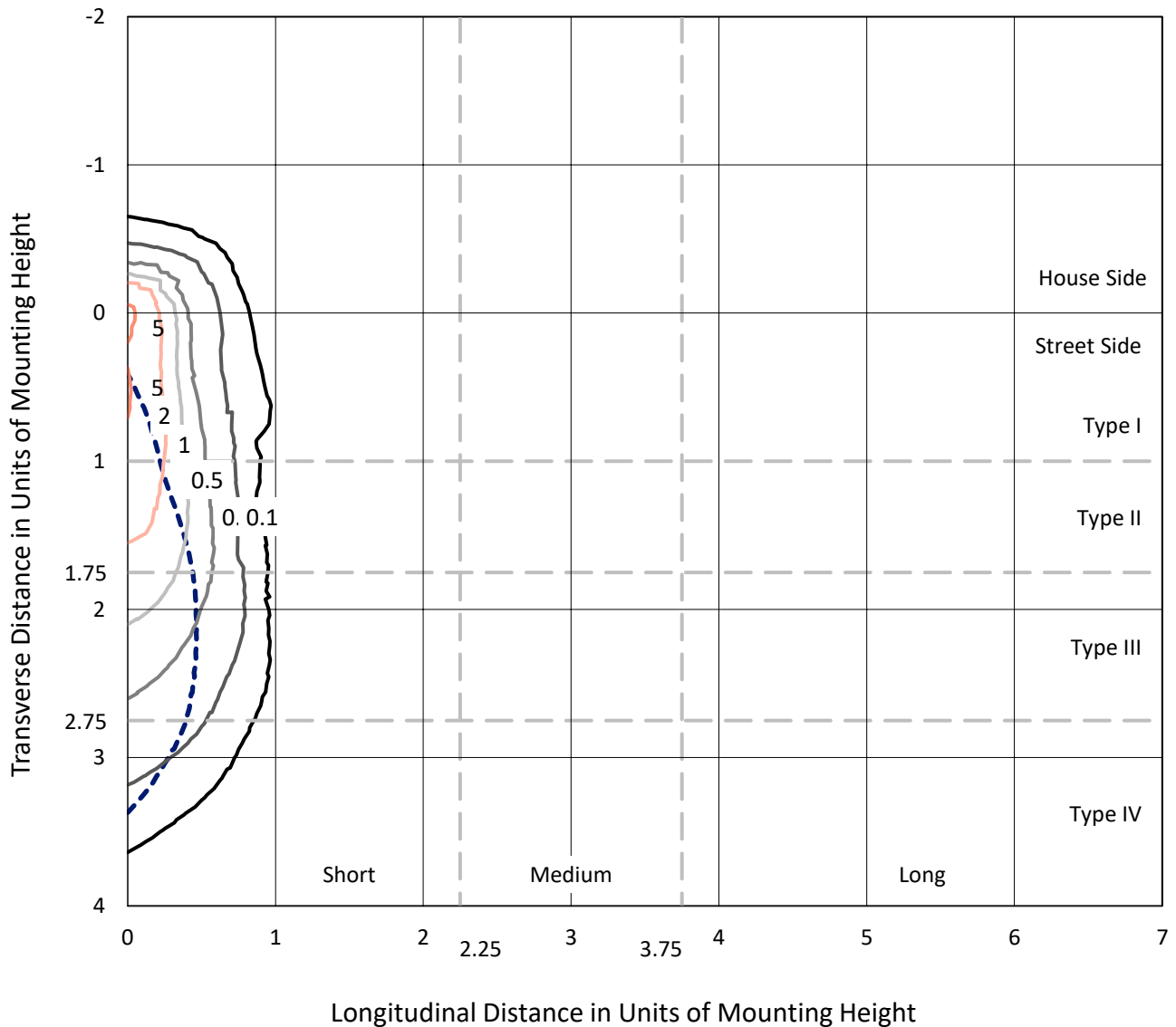
Input Watts (W): 46  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

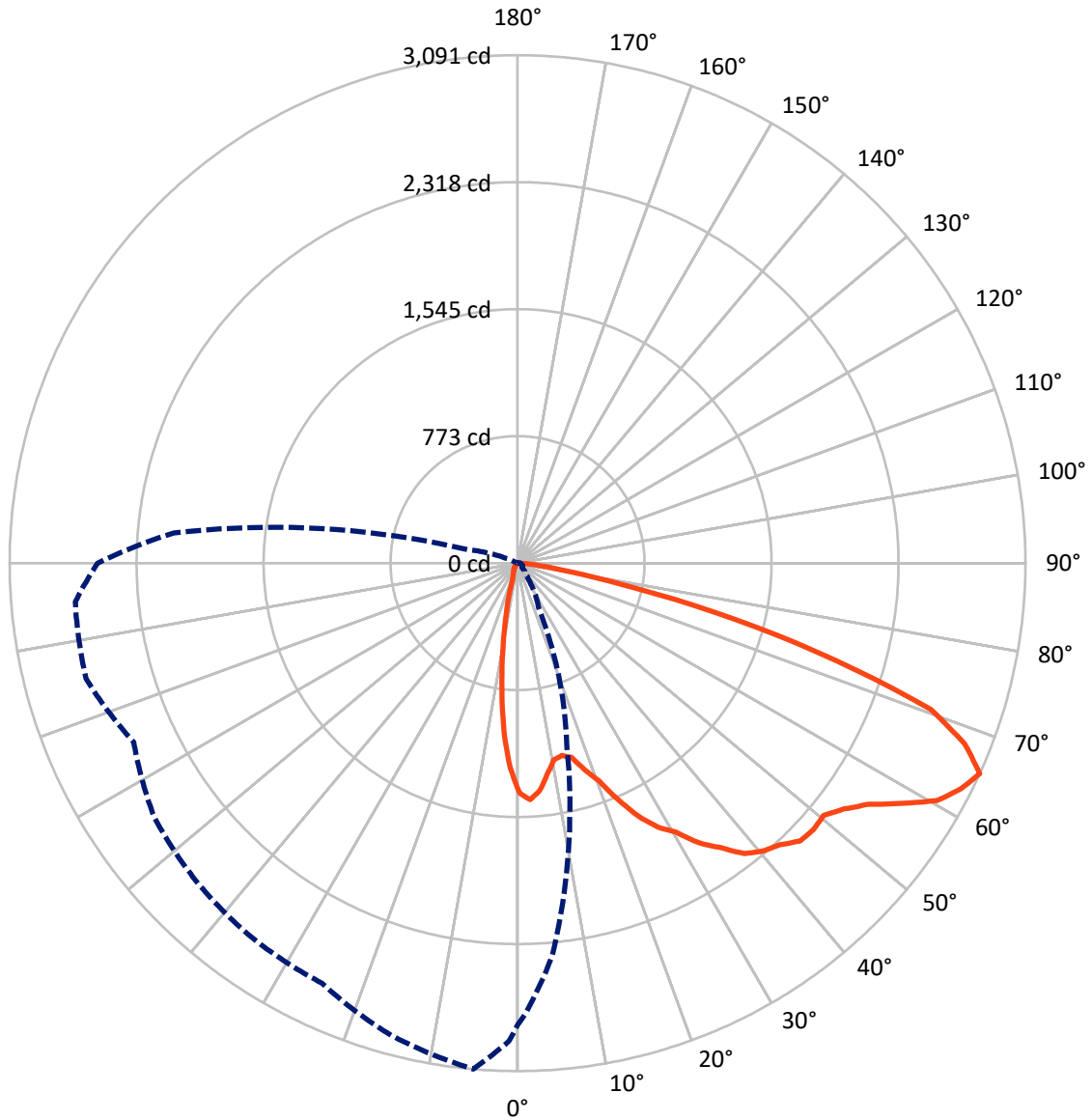
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.2 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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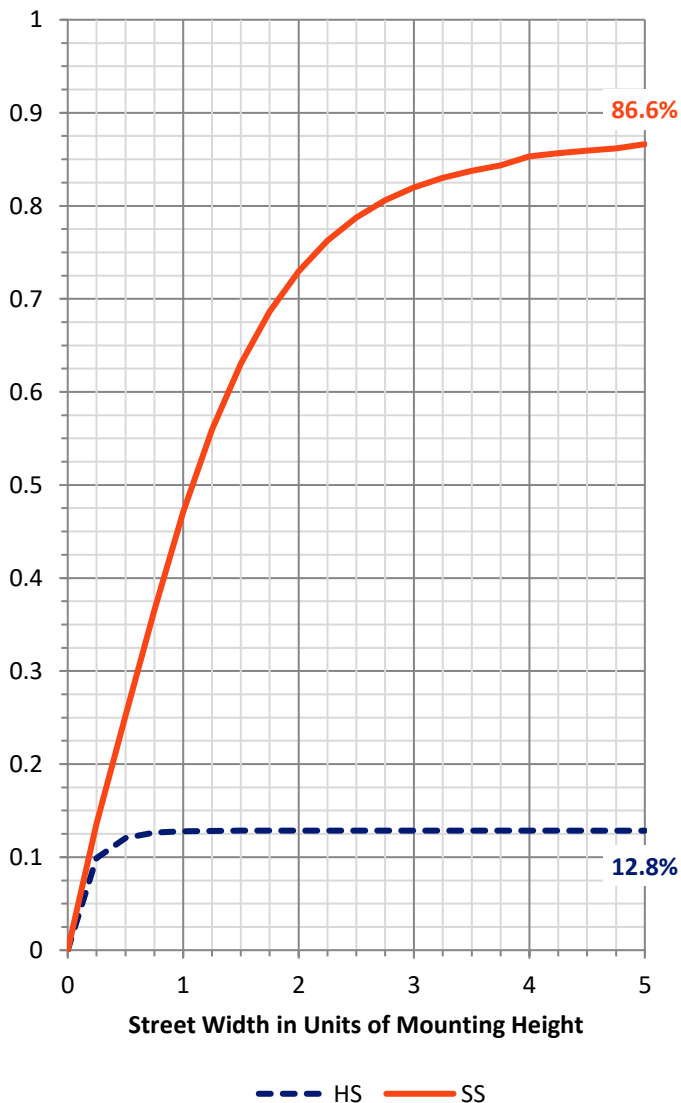
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	474.7	0.0	474.7
	% Fixture	13.0	0.0	13.0
<b>Street Side</b>	Lumens	3181.1	0.0	3181.1
	% Fixture	87.0	0.0	87.0
<b>Total</b>	Lumens	3655.8	0.0	3655.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.9	2.9
10°-20°	205.0	5.6
20°-30°	285.5	7.8
30°-40°	405.7	11.1
40°-50°	562.6	15.4
50°-60°	766.5	21.0
60°-70°	842.7	23.1
70°-80°	414.2	11.3
80°-90°	67.6	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°	3655.8	100.0
0°-180°	3655.8	100.0



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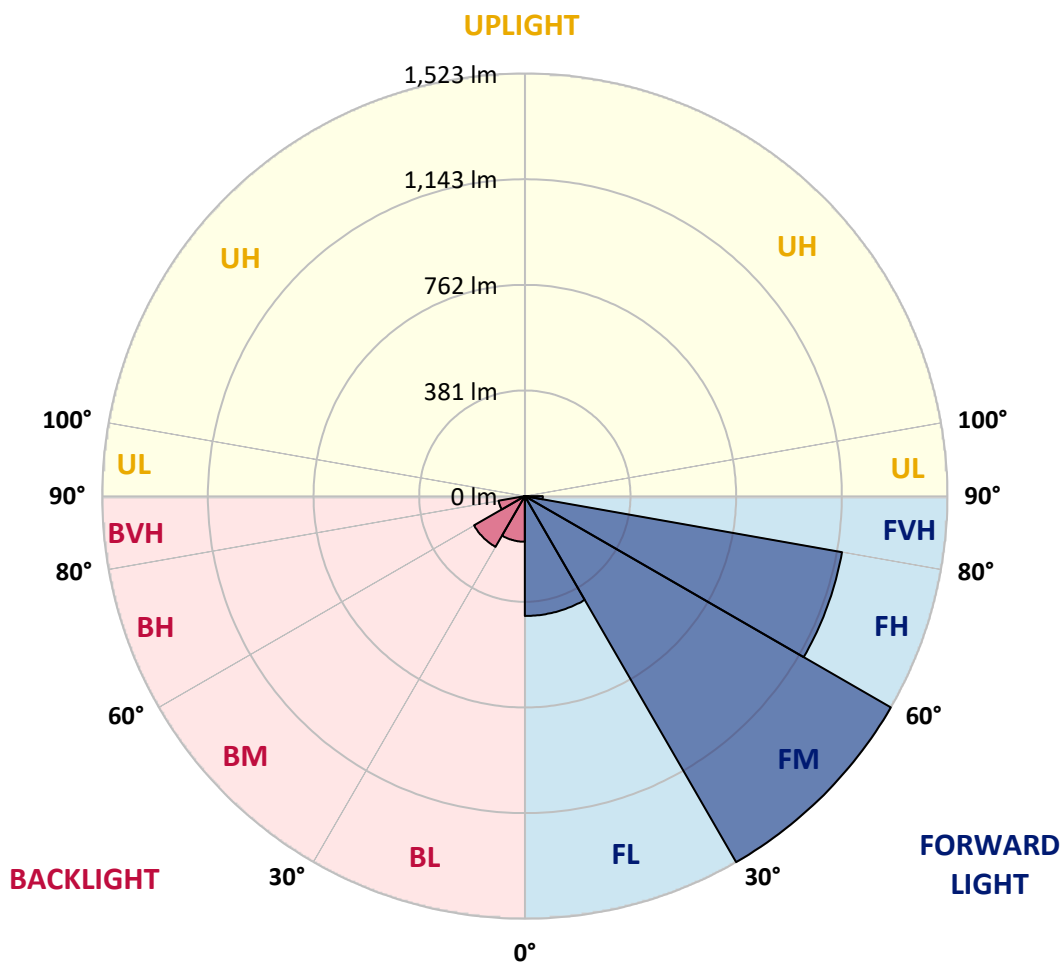
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	432.0	11.8			
FM (30°-60°)	1523.5	41.7			
FH (60°-80°)	1161.0	31.8			G1/1800
FVH (80°-90°)	64.6	1.8			G1/100
BL (0°-30°)	164.3	4.5	B1/500		
BM (30°-60°)	211.3	5.8	B0/220		
BH (60°-80°)	95.9	2.6	B0/110		G0/110
BVH (80°-90°)	3.0	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°	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6
2.5°	1426.2	1442.9	1427.2	1372.0	1362.1	1335.5	1295.1	1292.1	1249.8	1254.7	1232.0
5°	1340.4	1357.2	1323.7	1250.7	1182.7	1128.5	1096.0	1037.8	1025.0	996.5	996.5
7.5°	1252.7	1251.7	1194.6	1133.5	1031.9	932.4	887.0	803.3	754.0	727.4	701.8
10°	1179.8	1164.0	1128.5	1002.4	892.0	788.5	732.3	677.1	625.9	581.5	537.2
12.5°	1128.5	1138.4	1082.2	945.2	802.3	730.3	670.2	612.1	551.0	500.7	451.4
15°	1155.1	1139.4	1073.3	932.4	787.5	688.9	609.1	538.1	470.1	404.1	366.6
17.5°	1237.9	1197.5	1119.7	932.4	756.9	625.9	529.3	445.5	372.6	313.4	267.1
20°	1349.3	1303.0	1219.2	966.9	734.3	579.5	447.5	342.0	266.1	210.9	175.4
22.5°	1463.6	1427.2	1301.0	980.7	707.7	517.4	352.8	247.4	177.4	141.9	124.2
25°	1600.6	1549.4	1411.4	1035.9	668.2	457.3	277.9	172.5	132.1	113.3	102.5
27.5°	1710.0	1701.2	1514.9	1069.4	638.7	408.0	219.8	137.0	109.4	95.6	88.7
30°	1848.0	1799.7	1641.0	1136.4	605.2	351.9	183.3	123.2	100.5	85.7	80.8
32.5°	1930.8	1908.1	1707.1	1173.9	567.7	305.5	157.7	108.4	91.7	80.8	75.9
35°	2051.1	2005.7	1801.7	1197.5	548.0	278.9	141.9	98.6	76.9	66.0	60.1
37.5°	2185.1	2168.3	1915.0	1196.5	519.4	263.2	131.1	91.7	72.9	61.1	54.2
40°	2322.1	2254.1	1984.0	1224.1	504.6	251.3	123.2	87.7	69.0	58.2	49.3
42.5°	2424.6	2346.7	2063.9	1214.3	486.9	230.6	120.2	81.8	66.0	53.2	45.3
45°	2452.2	2424.6	2135.8	1211.3	474.1	213.9	115.3	80.8	64.1	50.3	42.4
47.5°	2505.4	2486.7	2224.5	1216.2	464.2	201.1	103.5	82.8	61.1	47.3	40.4
50°	2529.1	2495.6	2296.5	1228.1	441.6	185.3	92.6	86.7	60.1	46.3	38.4
52.5°	2626.6	2597.1	2395.0	1261.6	422.8	164.6	81.8	82.8	62.1	43.4	36.5
55°	2722.3	2688.7	2546.8	1338.5	396.2	147.8	70.0	72.9	59.1	39.4	32.5
57.5°	2853.3	2798.1	2648.3	1370.0	372.6	125.2	62.1	60.1	55.2	35.5	28.6
60°	2873.1	2895.7	2633.5	1350.3	347.9	110.4	54.2	46.3	59.1	31.5	24.6
62.5°	2939.1	2844.5	2564.6	1304.9	330.2	101.5	48.3	38.4	51.3	27.6	20.7
65°	2811.9	2742.0	2402.9	1159.1	307.5	102.5	42.4	31.5	32.5	22.7	16.8
67.5°	2625.7	2570.5	2134.8	1000.4	284.8	100.5	37.5	27.6	24.6	19.7	14.8
70°	2304.4	2185.1	1813.5	812.1	251.3	93.6	31.5	24.6	20.7	15.8	10.8
72.5°	1676.5	1628.2	1301.0	627.8	225.7	84.8	29.6	20.7	17.7	11.8	8.9
75°	1128.5	1048.7	821.0	412.0	181.4	73.9	24.6	18.7	13.8	8.9	6.9
77.5°	596.3	563.8	465.2	196.1	100.5	34.5	13.8	10.8	7.9	6.9	3.9
80°	258.2	229.6	201.1	79.8	35.5	15.8	8.9	5.9	4.9	3.9	2.0
82.5°	132.1	126.2	104.5	34.5	20.7	11.8	4.9	3.9	3.0	2.0	1.0
85°	65.1	67.0	55.2	10.8	11.8	6.9	1.0	1.0	0.0	0.0	0.0
87.5°	4.9	4.9	3.9	2.0	3.0	1.0	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6
2.5°	1223.1	1236.9	1213.3	1228.1	1221.2	1224.1	1227.1	1219.2	1221.2	1248.8	1249.8
5°	979.7	1006.3	996.5	1010.2	1033.9	1022.1	1032.9	1030.9	1032.9	1036.9	1054.6
7.5°	698.8	690.9	709.6	746.1	788.5	814.1	801.3	794.4	790.5	780.6	792.4
10°	527.3	523.4	518.4	529.3	556.9	585.5	601.2	574.6	559.8	541.1	534.2
12.5°	437.6	413.0	399.2	382.4	390.3	415.9	416.9	391.3	367.6	357.8	368.6
15°	345.0	328.2	303.6	279.9	268.1	287.8	271.0	246.4	215.8	211.9	210.9
17.5°	246.4	236.5	218.8	208.9	195.2	190.2	172.5	135.0	113.3	107.4	109.4
20°	167.6	159.7	158.7	149.8	143.9	140.0	111.4	86.7	79.8	80.8	81.8
22.5°	124.2	120.2	115.3	114.3	109.4	104.5	81.8	72.9	68.0	68.0	71.0
25°	101.5	99.5	94.6	92.6	90.7	83.8	69.0	62.1	60.1	58.2	61.1
27.5°	86.7	85.7	82.8	79.8	77.9	71.0	60.1	54.2	52.2	52.2	52.2
30°	77.9	77.9	73.9	68.0	68.0	60.1	51.3	47.3	45.3	45.3	44.4
32.5°	72.9	71.0	66.0	62.1	59.1	51.3	45.3	41.4	38.4	38.4	39.4
35°	59.1	59.1	58.2	55.2	51.3	43.4	38.4	34.5	32.5	31.5	32.5
37.5°	52.2	49.3	45.3	46.3	44.4	37.5	32.5	29.6	26.6	26.6	26.6
40°	47.3	44.4	40.4	37.5	36.5	33.5	28.6	23.7	20.7	19.7	19.7
42.5°	42.4	40.4	34.5	29.6	28.6	28.6	21.7	17.7	14.8	14.8	14.8
45°	39.4	36.5	31.5	25.6	20.7	21.7	17.7	12.8	10.8	9.9	9.9
47.5°	37.5	34.5	27.6	21.7	15.8	15.8	12.8	8.9	6.9	5.9	5.9
50°	34.5	31.5	24.6	17.7	11.8	9.9	7.9	4.9	3.0	2.0	2.0
52.5°	32.5	29.6	21.7	14.8	9.9	6.9	4.9	1.0	0.0	0.0	0.0
55°	29.6	25.6	18.7	11.8	7.9	3.9	1.0	0.0	0.0	0.0	0.0
57.5°	25.6	22.7	14.8	8.9	4.9	1.0	0.0	0.0	0.0	0.0	0.0
60°	21.7	18.7	11.8	6.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	17.7	15.8	8.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	14.8	11.8	6.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	12.8	9.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9.9	6.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6.9	4.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.0	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°	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6
2.5°	1253.7	1283.3	1310.9	1318.7	1340.4	1400.6	1400.6	1429.1	1480.4	1499.1	1503.1
5°	1057.6	1089.1	1095.0	1156.1	1184.7	1245.8	1286.2	1382.8	1441.0	1477.4	1500.1
7.5°	804.3	815.1	837.8	894.9	951.1	1025.0	1101.9	1225.1	1327.6	1369.0	1445.9
10°	552.9	585.5	634.7	686.0	773.7	855.5	955.1	1071.4	1197.5	1248.8	1314.8
12.5°	372.6	417.9	496.7	569.7	650.5	733.3	827.9	983.6	1126.6	1197.5	1263.6
15°	217.8	273.0	341.0	459.3	566.7	659.4	754.0	911.7	1085.2	1176.8	1257.6
17.5°	110.4	127.1	183.3	285.8	427.8	579.5	720.5	921.5	1116.7	1229.1	1296.1
20°	82.8	87.7	103.5	151.8	292.7	479.0	688.9	936.3	1204.4	1341.4	1377.9
22.5°	71.9	75.9	82.8	98.6	164.6	366.6	644.6	972.8	1323.7	1452.8	1529.7
25°	61.1	65.1	71.0	80.8	105.5	249.4	590.4	1011.2	1430.1	1592.7	1664.7
27.5°	53.2	56.2	62.1	70.0	85.7	158.7	496.7	1062.5	1592.7	1762.3	1781.0
30°	45.3	48.3	53.2	62.1	72.9	112.4	364.7	1069.4	1682.4	1836.2	1888.4
32.5°	39.4	40.4	46.3	54.2	61.1	88.7	256.3	1076.3	1748.5	1931.8	1942.6
35°	32.5	34.5	40.4	45.3	53.2	70.0	194.2	1041.8	1834.2	2030.4	2027.4
37.5°	26.6	29.6	33.5	37.5	43.4	59.1	154.7	977.7	1941.7	2183.1	2090.5
40°	20.7	23.7	27.6	32.5	36.5	53.2	116.3	881.1	2054.0	2258.0	2159.5
42.5°	14.8	16.8	20.7	25.6	32.5	44.4	83.8	766.8	2098.4	2345.8	2242.3
45°	10.8	12.8	15.8	21.7	33.5	35.5	58.2	662.3	2145.7	2384.2	2223.5
47.5°	5.9	7.9	11.8	18.7	29.6	26.6	41.4	568.7	2199.9	2418.7	2238.3
50°	2.0	3.0	6.9	19.7	23.7	20.7	32.5	518.4	2253.1	2425.6	2267.9
52.5°	0.0	0.0	3.9	20.7	17.7	15.8	28.6	498.7	2239.3	2447.3	2249.2
55°	0.0	0.0	1.0	8.9	9.9	11.8	23.7	497.7	2336.9	2454.2	2351.7
57.5°	0.0	0.0	0.0	3.0	5.9	9.9	20.7	466.2	2399.0	2625.7	2489.6
60°	0.0	0.0	0.0	1.0	3.9	6.9	15.8	438.6	2462.1	2702.5	2637.5
62.5°	0.0	0.0	0.0	0.0	1.0	3.0	10.8	396.2	2334.9	2696.6	2780.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	6.9	313.4	2100.3	2555.7	2701.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.9	216.8	1839.1	2378.3	2556.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	131.1	1484.3	2085.5	2168.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.2	1059.5	1655.8	1779.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.7	655.4	1210.3	1362.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	424.8	916.6	1033.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	226.7	574.6	668.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.6	348.9	402.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.5	211.9	241.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5	43.4
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°	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6
2.5°	1505.0	1533.6	1544.4	1527.7	1529.7	1495.2	1490.2	1441.9	1422.2	1426.2
5°	1574.0	1615.4	1638.1	1619.4	1577.0	1510.9	1450.8	1393.7	1358.2	1340.4
7.5°	1558.2	1604.6	1633.2	1650.9	1602.6	1496.2	1404.5	1297.1	1251.7	1252.7
10°	1471.5	1568.1	1626.3	1603.6	1580.9	1474.5	1332.5	1216.2	1175.8	1179.8
12.5°	1401.5	1509.0	1543.5	1561.2	1514.9	1430.1	1334.5	1201.5	1156.1	1128.5
15°	1358.2	1438.0	1440.0	1467.6	1448.8	1448.8	1355.2	1225.1	1185.7	1155.1
17.5°	1358.2	1375.9	1373.9	1383.8	1415.3	1452.8	1407.5	1320.7	1242.9	1237.9
20°	1388.7	1333.5	1320.7	1324.7	1351.3	1462.6	1522.8	1414.3	1365.1	1349.3
22.5°	1459.7	1338.5	1260.6	1246.8	1328.6	1461.7	1596.7	1562.2	1476.4	1463.6
25°	1557.3	1329.6	1244.8	1227.1	1289.2	1497.1	1698.2	1705.1	1627.2	1600.6
27.5°	1649.9	1369.0	1242.9	1238.9	1320.7	1489.3	1768.2	1819.4	1731.7	1710.0
30°	1681.4	1408.4	1279.3	1227.1	1332.5	1517.8	1766.2	1900.3	1843.1	1848.0
32.5°	1718.9	1447.9	1283.3	1262.6	1382.8	1564.2	1822.4	2030.4	1989.0	1930.8
35°	1774.1	1501.1	1320.7	1302.0	1418.3	1605.6	1834.2	2126.0	2119.1	2051.1
37.5°	1821.4	1553.3	1398.6	1401.5	1526.7	1672.6	1886.5	2243.2	2231.4	2185.1
40°	1854.9	1626.3	1519.8	1527.7	1621.3	1747.5	1979.1	2302.4	2390.1	2322.1
42.5°	1859.8	1691.3	1658.8	1721.9	1809.6	1863.8	2016.6	2342.8	2469.0	2424.6
45°	1878.6	1794.8	1885.5	1931.8	2003.7	1966.3	2014.6	2411.8	2474.9	2452.2
47.5°	1951.5	1983.0	2097.4	2238.3	2263.9	2140.7	2061.9	2422.6	2508.4	2505.4
50°	2027.4	2185.1	2345.8	2439.4	2471.9	2261.0	2106.2	2413.8	2552.7	2529.1
52.5°	2112.2	2360.5	2592.2	2707.5	2689.7	2394.0	2156.5	2485.7	2634.5	2626.6
55°	2165.4	2439.4	2750.8	2911.5	2897.7	2542.9	2316.2	2589.2	2742.0	2722.3
57.5°	2306.3	2567.5	2908.5	2983.4	3019.9	2738.0	2427.6	2758.7	2831.7	2853.3
60°	2422.6	2651.3	2949.9	3058.3	3071.2	2854.3	2622.7	2933.2	2946.0	2873.1
62.5°	2593.1	2683.8	2862.2	2959.8	3025.8	2920.4	2798.1	3026.8	2944.0	2939.1
65°	2718.3	2577.4	2698.6	2752.8	2795.2	2819.8	2974.6	3090.9	2907.5	2811.9
67.5°	2648.3	2376.3	2353.6	2356.6	2369.4	2518.2	2915.4	2934.2	2704.5	2625.7
70°	2331.0	1949.5	1919.0	1942.6	1878.6	2058.0	2675.9	2667.1	2386.2	2304.4
72.5°	1885.5	1421.2	1369.0	1401.5	1416.3	1606.5	2251.1	2022.5	1740.6	1676.5
75°	1498.1	1041.8	879.2	958.0	1008.3	1169.9	1758.3	1373.9	1215.3	1128.5
77.5°	1176.8	788.5	684.0	652.5	698.8	850.6	1279.3	721.5	636.7	596.3
80°	746.1	579.5	628.8	583.5	603.2	607.1	666.3	328.2	261.2	258.2
82.5°	449.4	396.2	471.1	259.2	472.1	421.8	277.0	148.8	132.1	132.1
85°	318.4	245.4	162.6	105.5	209.9	231.6	107.4	76.9	67.0	65.1
87.5°	159.7	75.9	36.5	23.7	26.6	43.4	12.8	5.9	5.9	4.9
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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