

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: P677418

Luminaire Tested: **CCW-SA-1D-735-U-SLR-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677418  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1D-735-U-SLR-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
SLR distribution lens and House Side Shield  
Light Source: (16) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3952.8 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

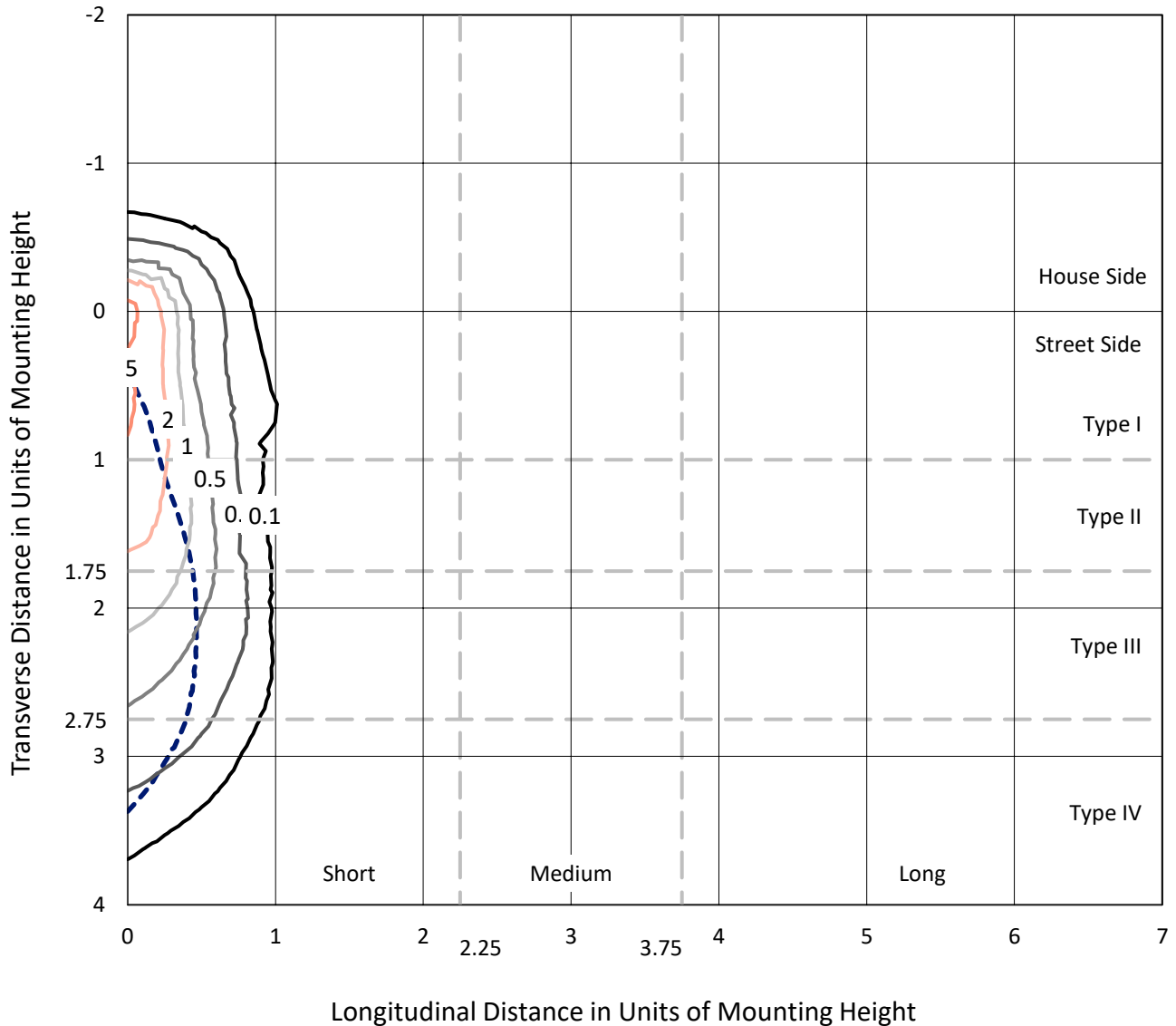
Input Watts (W): 44  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

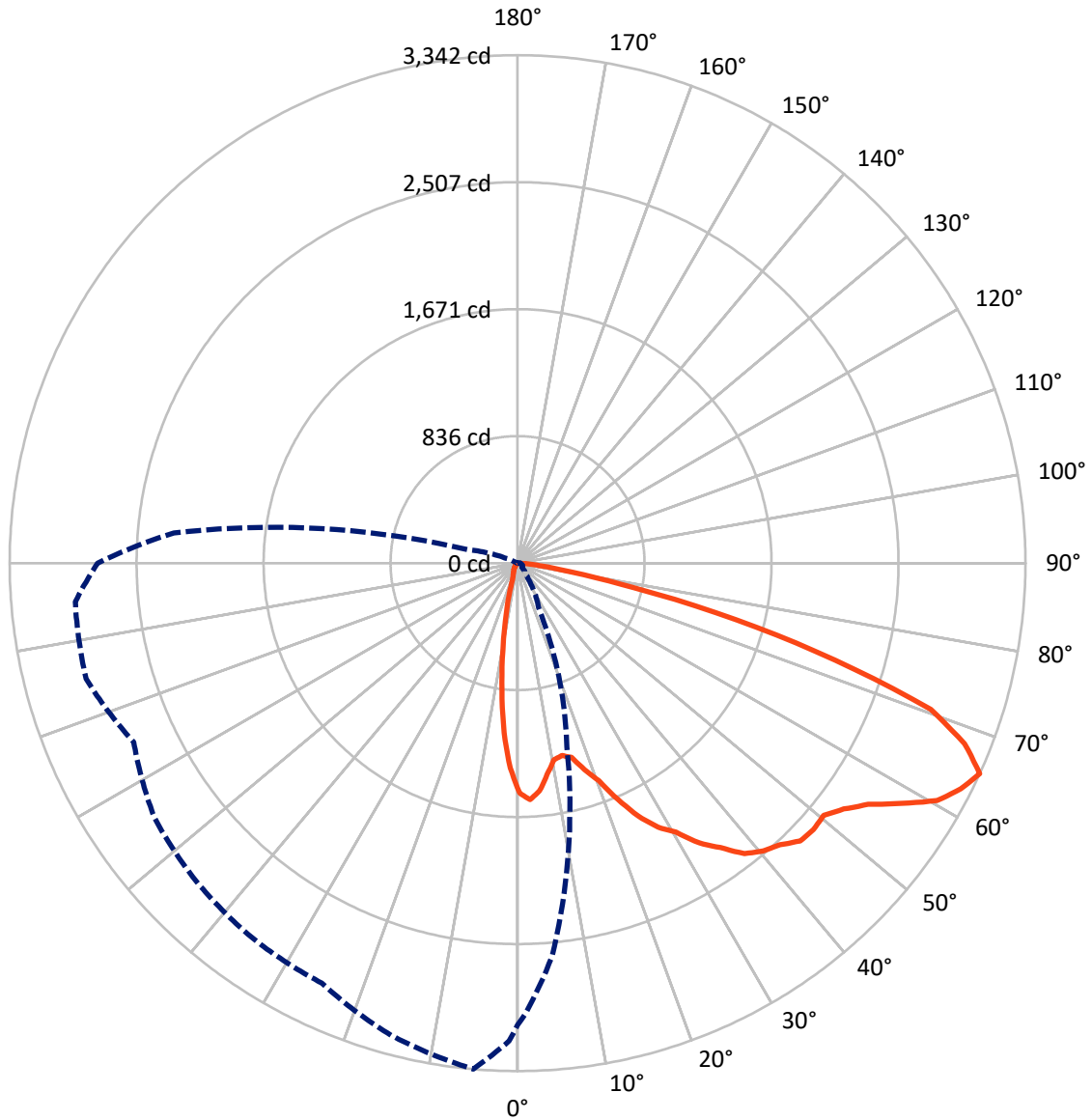
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.7 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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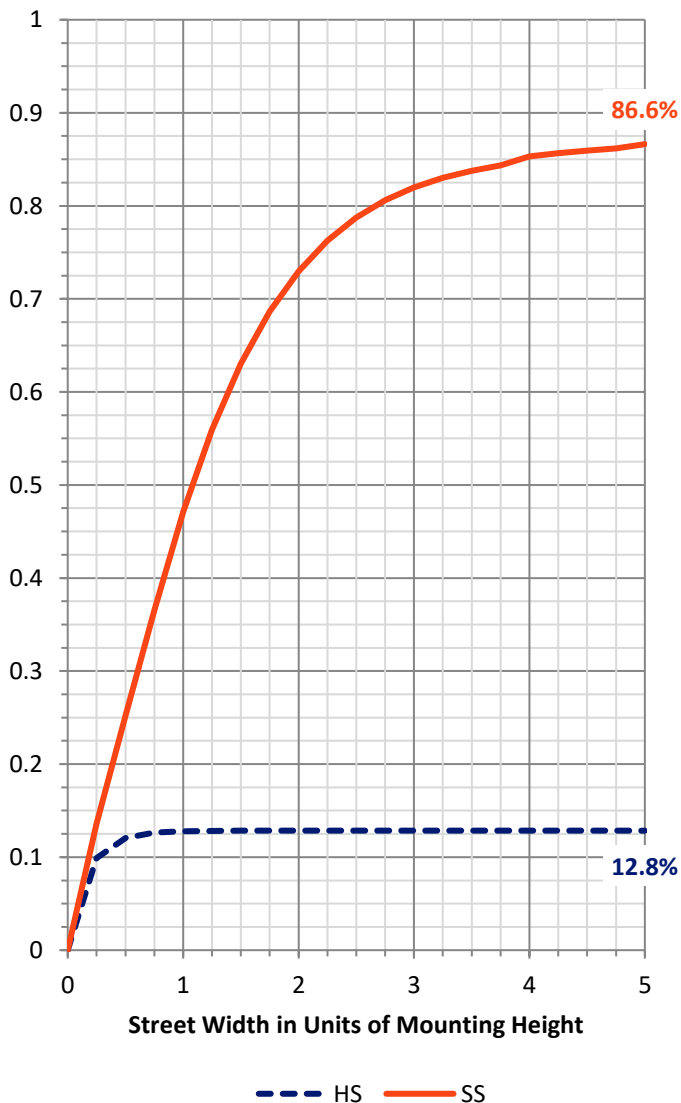
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	513.2	0.0	513.2
	% Fixture	13.0	0.0	13.0
<b>Street Side</b>	Lumens	3439.6	0.0	3439.6
	% Fixture	87.0	0.0	87.0
<b>Total</b>	Lumens	3952.8	0.0	3952.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.5	2.9
10°-20°	221.7	5.6
20°-30°	308.7	7.8
30°-40°	438.7	11.1
40°-50°	608.3	15.4
50°-60°	828.8	21.0
60°-70°	911.2	23.1
70°-80°	447.9	11.3
80°-90°	73.1	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°	3952.8	100.0
0°-180°	3952.8	100.0



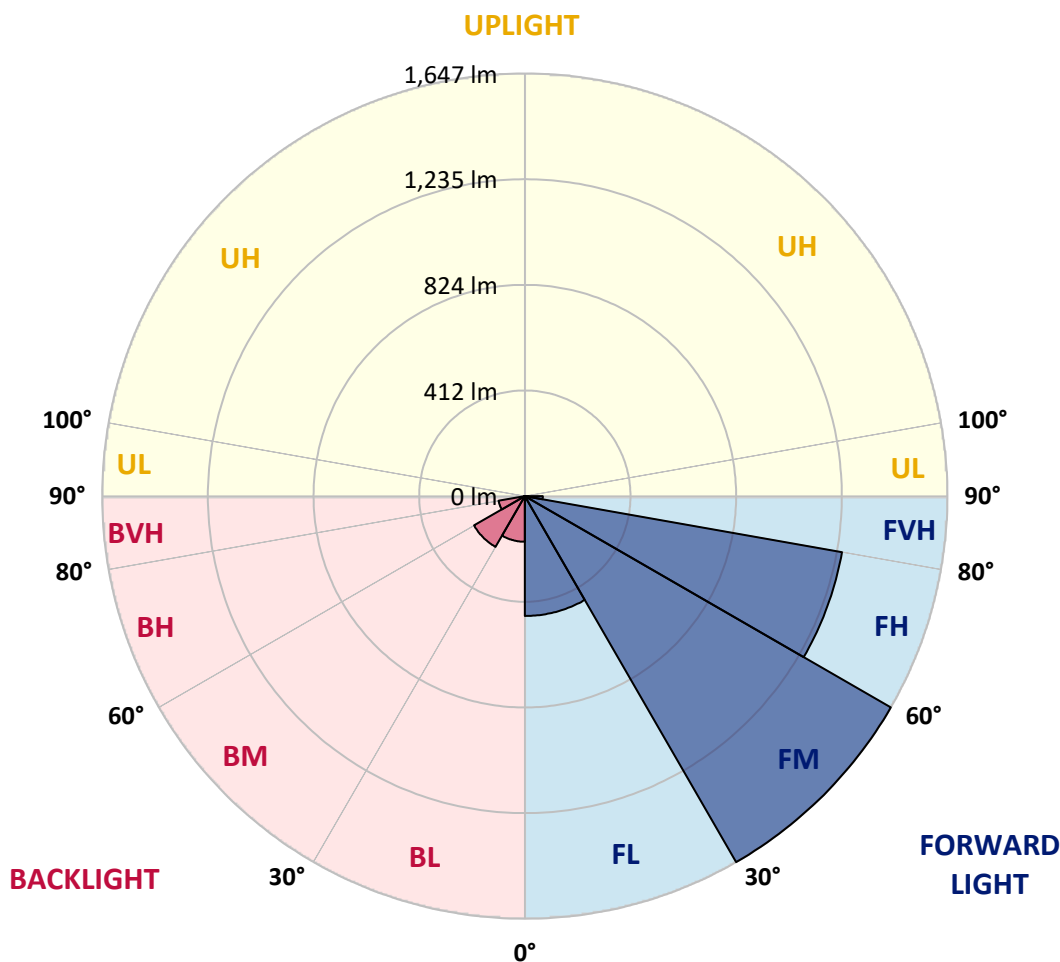
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	467.1	11.8			
FM (30°-60°)	1647.3	41.7			
FH (60°-80°)	1255.4	31.8			G1/1800
FVH (80°-90°)	69.8	1.8			G1/100
BL (0°-30°)	177.7	4.5	B1/500		
BM (30°-60°)	228.5	5.8	B1/1000		
BH (60°-80°)	103.7	2.6	B0/110		G0/110
BVH (80°-90°)	3.3	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°	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2
2.5°	1542.1	1560.2	1543.1	1483.5	1472.8	1444.0	1400.3	1397.1	1351.3	1356.6	1332.1
5°	1449.4	1467.5	1431.2	1352.4	1278.8	1220.2	1185.1	1122.2	1108.3	1077.4	1077.4
7.5°	1354.5	1353.4	1291.6	1225.6	1115.8	1008.2	959.1	868.5	815.3	786.5	758.8
10°	1275.6	1258.6	1220.2	1083.8	964.5	852.6	791.8	732.1	676.7	628.8	580.8
12.5°	1220.2	1230.9	1170.1	1022.0	867.5	789.7	724.7	661.8	595.7	541.4	488.1
15°	1249.0	1231.9	1160.5	1008.2	851.5	744.9	658.6	581.9	508.3	436.9	396.4
17.5°	1338.5	1294.8	1210.6	1008.2	818.5	676.7	572.3	481.7	402.8	338.9	288.8
20°	1458.9	1408.9	1318.3	1045.5	793.9	626.6	483.8	369.8	287.7	228.1	189.7
22.5°	1582.6	1543.1	1406.7	1060.4	765.2	559.5	381.5	267.5	191.8	153.5	134.3
25°	1730.7	1675.3	1526.1	1120.1	722.5	494.5	300.5	186.5	142.8	122.6	110.8
27.5°	1849.0	1839.4	1638.0	1156.3	690.6	441.2	237.7	148.1	118.3	103.4	95.9
30°	1998.2	1946.0	1774.4	1228.8	654.3	380.5	198.2	133.2	108.7	92.7	87.4
32.5°	2087.7	2063.2	1845.8	1269.2	613.8	330.4	170.5	117.2	99.1	87.4	82.1
35°	2217.7	2168.7	1948.1	1294.8	592.5	301.6	153.5	106.6	83.1	71.4	65.0
37.5°	2362.7	2344.5	2070.7	1293.8	561.6	284.5	141.7	99.1	78.9	66.1	58.6
40°	2510.8	2437.3	2145.3	1323.6	545.6	271.8	133.2	94.8	74.6	62.9	53.3
42.5°	2621.6	2537.4	2231.6	1312.9	526.5	249.4	130.0	88.5	71.4	57.5	49.0
45°	2651.5	2621.6	2309.4	1309.7	512.6	231.3	124.7	87.4	69.3	54.4	45.8
47.5°	2709.0	2688.8	2405.3	1315.1	501.9	217.4	111.9	89.5	66.1	51.2	43.7
50°	2734.6	2698.4	2483.1	1327.9	477.4	200.4	100.2	93.8	65.0	50.1	41.6
52.5°	2840.1	2808.1	2589.7	1364.1	457.2	178.0	88.5	89.5	67.1	46.9	39.4
55°	2943.5	2907.2	2753.8	1447.2	428.4	159.9	75.7	78.9	63.9	42.6	35.2
57.5°	3085.2	3025.5	2863.5	1481.3	402.8	135.3	67.1	65.0	59.7	38.4	30.9
60°	3106.5	3131.0	2847.6	1460.0	376.2	119.4	58.6	50.1	63.9	34.1	26.6
62.5°	3177.9	3075.6	2773.0	1411.0	357.0	109.8	52.2	41.6	55.4	29.8	22.4
65°	3040.4	2964.8	2598.2	1253.3	332.5	110.8	45.8	34.1	35.2	24.5	18.1
67.5°	2839.0	2779.3	2308.3	1081.7	308.0	108.7	40.5	29.8	26.6	21.3	16.0
70°	2491.6	2362.7	1960.9	878.1	271.8	101.2	34.1	26.6	22.4	17.1	11.7
72.5°	1812.8	1760.5	1406.7	678.9	244.0	91.7	32.0	22.4	19.2	12.8	9.6
75°	1220.2	1133.9	887.7	445.5	196.1	79.9	26.6	20.2	14.9	9.6	7.5
77.5°	644.7	609.6	503.0	212.1	108.7	37.3	14.9	11.7	8.5	7.5	4.3
80°	279.2	248.3	217.4	86.3	38.4	17.1	9.6	6.4	5.3	4.3	2.1
82.5°	142.8	136.4	113.0	37.3	22.4	12.8	5.3	4.3	3.2	2.1	1.1
85°	70.3	72.5	59.7	11.7	12.8	7.5	1.1	1.1	0.0	0.0	0.0
87.5°	5.3	5.3	4.3	2.1	3.2	1.1	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°	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2
2.5°	1322.5	1337.5	1311.9	1327.9	1320.4	1323.6	1326.8	1318.3	1320.4	1350.2	1351.3
5°	1059.3	1088.1	1077.4	1092.3	1117.9	1105.1	1116.9	1114.7	1116.9	1121.1	1140.3
7.5°	755.6	747.1	767.3	806.7	852.6	880.3	866.4	859.0	854.7	844.0	856.8
10°	570.1	565.9	560.6	572.3	602.1	633.0	650.1	621.3	605.3	585.1	577.6
12.5°	473.2	446.5	431.6	413.5	422.0	449.7	450.8	423.1	397.5	386.8	398.6
15°	373.0	354.9	328.2	302.7	289.9	311.2	293.1	266.4	233.4	229.1	228.1
17.5°	266.4	255.8	236.6	225.9	211.0	205.7	186.5	146.0	122.6	116.2	118.3
20°	181.2	172.6	171.6	162.0	155.6	151.3	120.4	93.8	86.3	87.4	88.5
22.5°	134.3	130.0	124.7	123.6	118.3	113.0	88.5	78.9	73.5	73.5	76.7
25°	109.8	107.6	102.3	100.2	98.0	90.6	74.6	67.1	65.0	62.9	66.1
27.5°	93.8	92.7	89.5	86.3	84.2	76.7	65.0	58.6	56.5	56.5	56.5
30°	84.2	84.2	79.9	73.5	73.5	65.0	55.4	51.2	49.0	49.0	48.0
32.5°	78.9	76.7	71.4	67.1	63.9	55.4	49.0	44.8	41.6	41.6	42.6
35°	63.9	63.9	62.9	59.7	55.4	46.9	41.6	37.3	35.2	34.1	35.2
37.5°	56.5	53.3	49.0	50.1	48.0	40.5	35.2	32.0	28.8	28.8	28.8
40°	51.2	48.0	43.7	40.5	39.4	36.2	30.9	25.6	22.4	21.3	21.3
42.5°	45.8	43.7	37.3	32.0	30.9	30.9	23.4	19.2	16.0	16.0	16.0
45°	42.6	39.4	34.1	27.7	22.4	23.4	19.2	13.9	11.7	10.7	10.7
47.5°	40.5	37.3	29.8	23.4	17.1	17.1	13.9	9.6	7.5	6.4	6.4
50°	37.3	34.1	26.6	19.2	12.8	10.7	8.5	5.3	3.2	2.1	2.1
52.5°	35.2	32.0	23.4	16.0	10.7	7.5	5.3	1.1	0.0	0.0	0.0
55°	32.0	27.7	20.2	12.8	8.5	4.3	1.1	0.0	0.0	0.0	0.0
57.5°	27.7	24.5	16.0	9.6	5.3	1.1	0.0	0.0	0.0	0.0	0.0
60°	23.4	20.2	12.8	7.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	19.2	17.1	9.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	16.0	12.8	7.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13.9	10.7	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10.7	7.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7.5	5.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	5.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.1	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°	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2
2.5°	1355.6	1387.5	1417.4	1425.9	1449.4	1514.4	1514.4	1545.3	1600.7	1620.9	1625.2
5°	1143.5	1177.6	1184.0	1250.1	1281.0	1347.0	1390.7	1495.2	1558.1	1597.5	1622.0
7.5°	869.6	881.3	905.8	967.7	1028.4	1108.3	1191.5	1324.7	1435.5	1480.3	1563.4
10°	597.9	633.0	686.3	741.7	836.6	925.0	1032.7	1158.4	1294.8	1350.2	1421.6
12.5°	402.8	451.9	537.1	616.0	703.4	792.9	895.2	1063.6	1218.1	1294.8	1366.2
15°	235.5	295.2	368.7	496.6	612.8	713.0	815.3	985.8	1173.3	1272.4	1359.8
17.5°	119.4	137.5	198.2	309.1	462.5	626.6	779.0	996.4	1207.4	1328.9	1401.4
20°	89.5	94.8	111.9	164.1	316.5	517.9	744.9	1012.4	1302.3	1450.4	1489.8
22.5°	77.8	82.1	89.5	106.6	178.0	396.4	697.0	1051.8	1431.2	1570.8	1654.0
25°	66.1	70.3	76.7	87.4	114.0	269.6	638.4	1093.4	1546.3	1722.2	1800.0
27.5°	57.5	60.7	67.1	75.7	92.7	171.6	537.1	1148.8	1722.2	1905.5	1925.7
30°	49.0	52.2	57.5	67.1	78.9	121.5	394.3	1156.3	1819.1	1985.4	2041.9
32.5°	42.6	43.7	50.1	58.6	66.1	95.9	277.1	1163.7	1890.6	2088.8	2100.5
35°	35.2	37.3	43.7	49.0	57.5	75.7	209.9	1126.4	1983.3	2195.3	2192.1
37.5°	28.8	32.0	36.2	40.5	46.9	63.9	167.3	1057.2	2099.4	2360.5	2260.3
40°	22.4	25.6	29.8	35.2	39.4	57.5	125.8	952.7	2220.9	2441.5	2334.9
42.5°	16.0	18.1	22.4	27.7	35.2	48.0	90.6	829.1	2268.9	2536.4	2424.5
45°	11.7	13.9	17.1	23.4	36.2	38.4	62.9	716.2	2320.0	2577.9	2404.2
47.5°	6.4	8.5	12.8	20.2	32.0	28.8	44.8	614.9	2378.6	2615.2	2420.2
50°	2.1	3.2	7.5	21.3	25.6	22.4	35.2	560.6	2436.2	2622.7	2452.2
52.5°	0.0	0.0	4.3	22.4	19.2	17.1	30.9	539.2	2421.3	2646.1	2431.9
55°	0.0	0.0	1.1	9.6	10.7	12.8	25.6	538.2	2526.8	2653.6	2542.8
57.5°	0.0	0.0	0.0	3.2	6.4	10.7	22.4	504.1	2593.9	2839.0	2692.0
60°	0.0	0.0	0.0	1.1	4.3	7.5	17.1	474.2	2662.1	2922.1	2851.8
62.5°	0.0	0.0	0.0	0.0	1.1	3.2	11.7	428.4	2524.6	2915.8	3006.3
65°	0.0	0.0	0.0	0.0	0.0	0.0	7.5	338.9	2271.0	2763.4	2921.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.3	234.5	1988.6	2571.5	2764.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	141.7	1604.9	2255.0	2344.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.7	1145.6	1790.4	1923.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.5	708.7	1308.7	1472.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	459.3	991.1	1117.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	245.1	621.3	722.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	106.6	377.3	434.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.1	229.1	261.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.2	46.9
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°	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2
2.5°	1627.3	1658.2	1670.0	1651.8	1654.0	1616.7	1611.3	1559.1	1537.8	1542.1
5°	1701.9	1746.7	1771.2	1750.9	1705.1	1633.7	1568.7	1506.9	1468.5	1449.4
7.5°	1684.9	1735.0	1765.9	1785.0	1732.8	1617.7	1518.6	1402.5	1353.4	1354.5
10°	1591.1	1695.5	1758.4	1733.9	1709.4	1594.3	1440.8	1315.1	1271.4	1275.6
12.5°	1515.4	1631.6	1668.9	1688.1	1638.0	1546.3	1443.0	1299.1	1250.1	1220.2
15°	1468.5	1554.9	1557.0	1586.8	1566.6	1566.6	1465.3	1324.7	1282.0	1249.0
17.5°	1468.5	1487.7	1485.6	1496.2	1530.3	1570.8	1521.8	1428.0	1343.8	1338.5
20°	1501.6	1441.9	1428.0	1432.3	1461.1	1581.5	1646.5	1529.3	1476.0	1458.9
22.5°	1578.3	1447.2	1363.0	1348.1	1436.6	1580.4	1726.4	1689.1	1596.4	1582.6
25°	1683.8	1437.6	1346.0	1326.8	1393.9	1618.8	1836.2	1843.7	1759.5	1730.7
27.5°	1784.0	1480.3	1343.8	1339.6	1428.0	1610.3	1911.9	1967.3	1872.4	1849.0
30°	1818.1	1522.9	1383.3	1326.8	1440.8	1641.2	1909.7	2054.7	1992.9	1998.2
32.5°	1858.6	1565.5	1387.5	1365.2	1495.2	1691.3	1970.5	2195.3	2150.6	2087.7
35°	1918.3	1623.1	1428.0	1407.8	1533.5	1736.0	1983.3	2298.7	2291.3	2217.7
37.5°	1969.4	1679.5	1512.2	1515.4	1650.8	1808.5	2039.7	2425.5	2412.7	2362.7
40°	2005.6	1758.4	1643.3	1651.8	1753.1	1889.5	2139.9	2489.5	2584.3	2510.8
42.5°	2011.0	1828.7	1793.6	1861.8	1956.6	2015.2	2180.4	2533.2	2669.6	2621.6
45°	2031.2	1940.6	2038.7	2088.8	2166.6	2126.1	2178.3	2607.8	2676.0	2651.5
47.5°	2110.1	2144.2	2267.8	2420.2	2447.9	2314.7	2229.4	2619.5	2712.2	2709.0
50°	2192.1	2362.7	2536.4	2637.6	2672.8	2444.7	2277.4	2609.9	2760.2	2734.6
52.5°	2283.8	2552.4	2802.8	2927.5	2908.3	2588.6	2331.8	2687.7	2848.6	2840.1
55°	2341.3	2637.6	2974.4	3148.1	3133.2	2749.5	2504.4	2799.6	2964.8	2943.5
57.5°	2493.7	2776.1	3144.9	3225.9	3265.3	2960.5	2624.8	2982.9	3061.8	3085.2
60°	2619.5	2866.7	3189.6	3306.9	3320.7	3086.3	2835.8	3171.5	3185.4	3106.5
62.5°	2803.9	2901.9	3094.8	3200.3	3271.7	3157.7	3025.5	3272.8	3183.2	3177.9
65°	2939.2	2786.8	2917.9	2976.5	3022.3	3049.0	3216.3	3342.0	3143.8	3040.4
67.5°	2863.5	2569.4	2544.9	2548.1	2561.9	2722.9	3152.3	3172.6	2924.3	2839.0
70°	2520.4	2108.0	2074.9	2100.5	2031.2	2225.2	2893.4	2883.8	2580.1	2491.6
72.5°	2038.7	1536.7	1480.3	1515.4	1531.4	1737.1	2434.1	2186.8	1882.0	1812.8
75°	1619.9	1126.4	950.6	1035.9	1090.2	1265.0	1901.2	1485.6	1314.0	1220.2
77.5°	1272.4	852.6	739.6	705.5	755.6	919.7	1383.3	780.1	688.4	644.7
80°	806.7	626.6	679.9	630.9	652.2	656.5	720.4	354.9	282.4	279.2
82.5°	486.0	428.4	509.4	280.3	510.5	456.1	299.5	160.9	142.8	142.8
85°	344.2	265.4	175.8	114.0	227.0	250.4	116.2	83.1	72.5	70.3
87.5°	172.6	82.1	39.4	25.6	28.8	46.9	13.9	6.4	6.4	5.3
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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