

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: P677387

Luminaire Tested: **CCW-SA-1F-722-U-SLR-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677387  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1F-722-U-SLR-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/  
SLR 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: 3968.9 lumens  
Efficiency: N/A  
Efficacy: 59.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

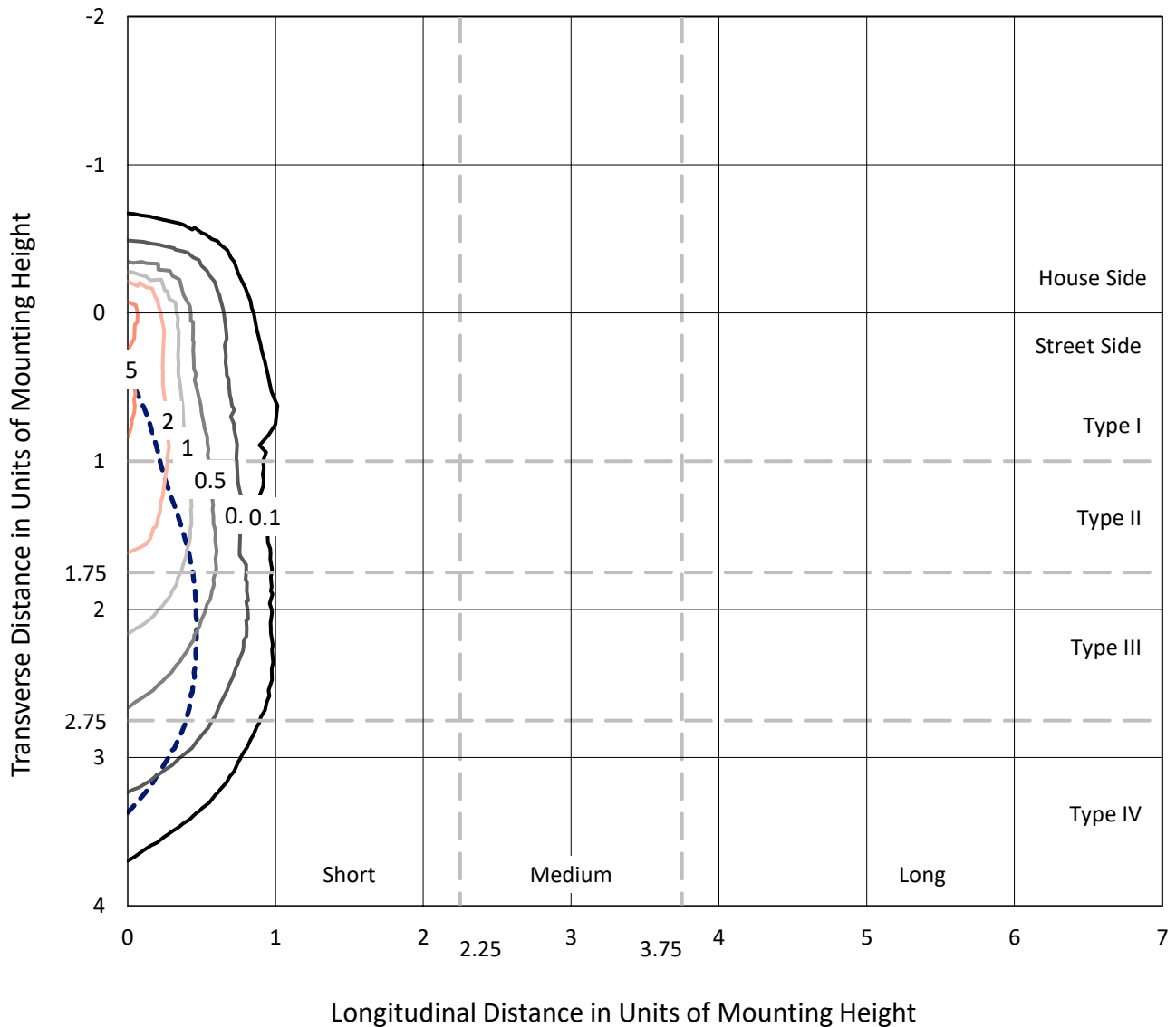
Input Watts (W): 67  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

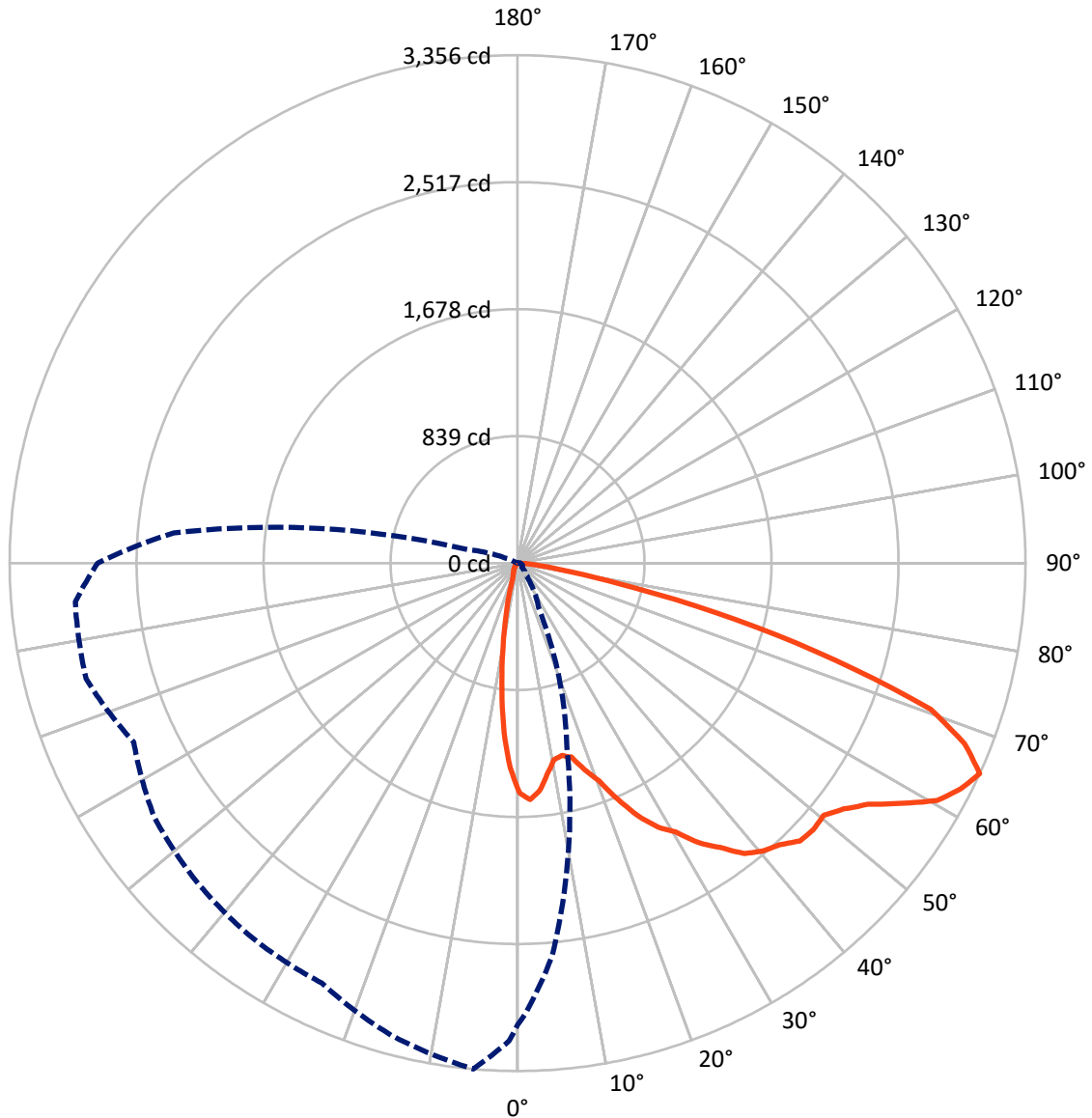
× Max cd  
 - - - 1/2 Max cd



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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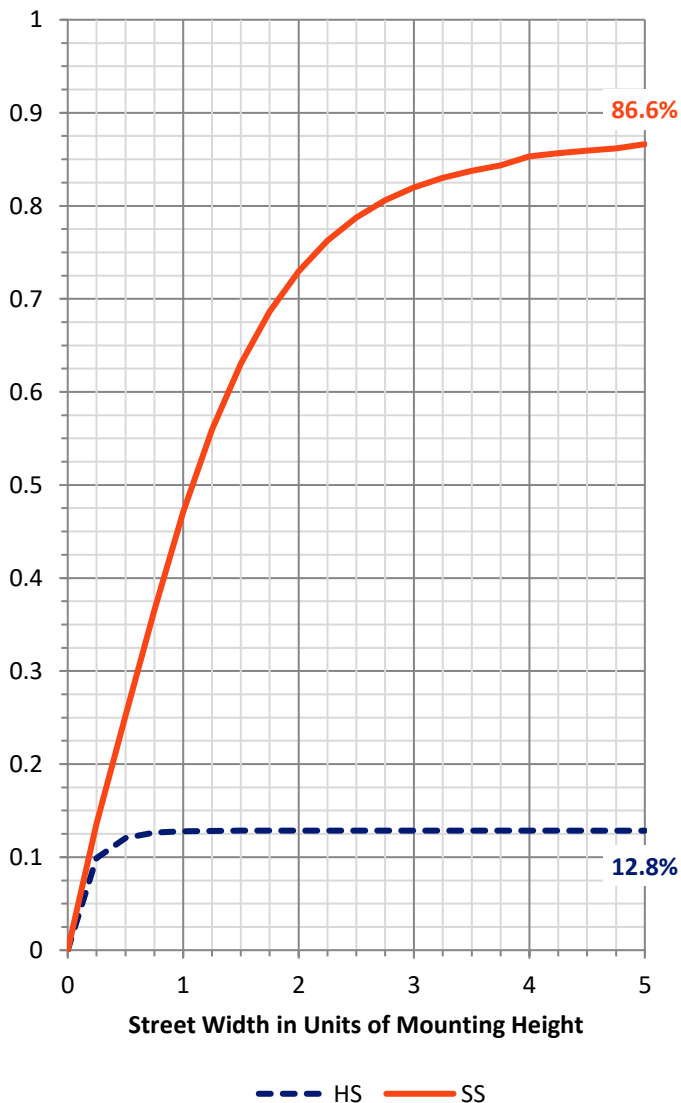
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	515.3	0.0	515.3
	% Fixture	13.0	0.0	13.0
<b>Street Side</b>	Lumens	3453.6	0.0	3453.6
	% Fixture	87.0	0.0	87.0
<b>Total</b>	Lumens	3968.9	0.0	3968.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.9	2.9
10°-20°	222.6	5.6
20°-30°	310.0	7.8
30°-40°	440.4	11.1
40°-50°	610.8	15.4
50°-60°	832.2	21.0
60°-70°	914.9	23.1
70°-80°	449.7	11.3
80°-90°	73.4	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°	3968.9	100.0
0°-180°	3968.9	100.0

**Coefficient of Utilization**



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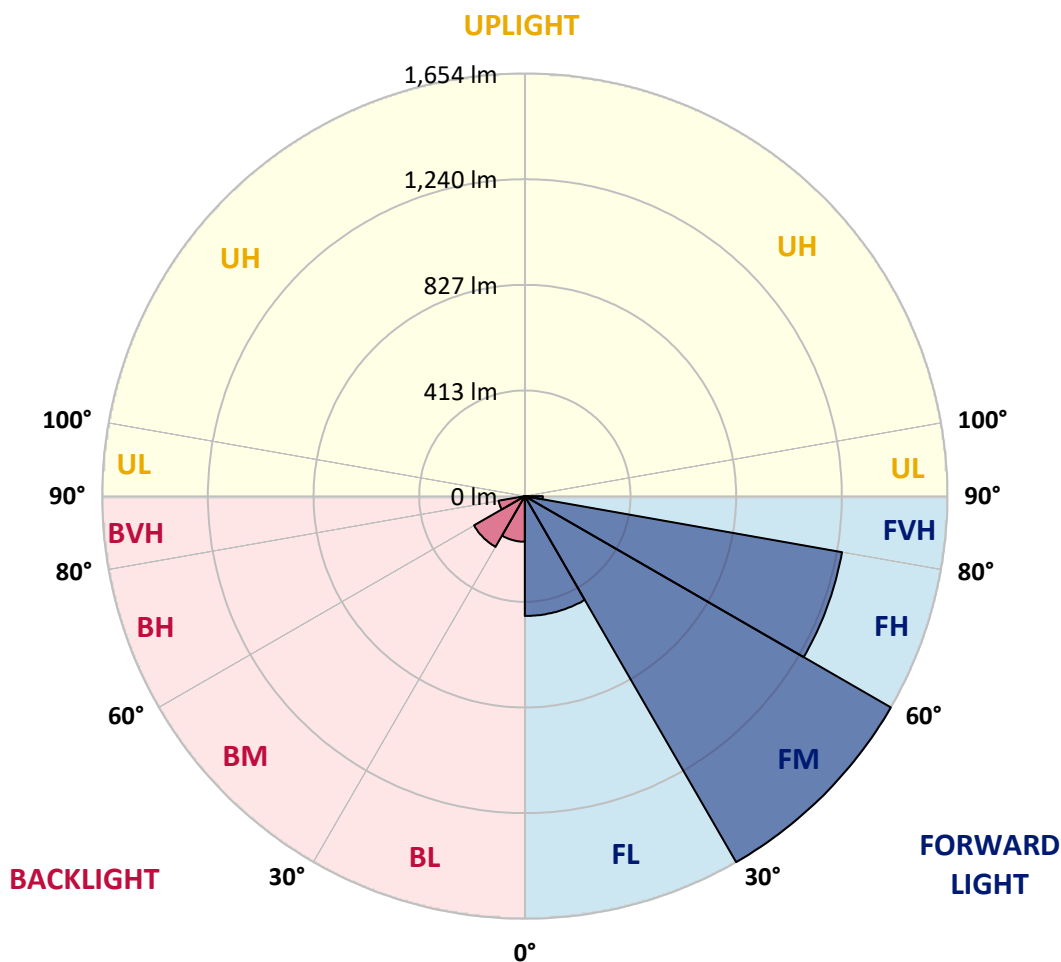
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	469.0	11.8			
FM (30°-60°)	1653.9	41.7			
FH (60°-80°)	1260.5	31.8			G1/1800
FVH (80°-90°)	70.1	1.8			G1/100
BL (0°-30°)	178.4	4.5	B1/500		
BM (30°-60°)	229.4	5.8	B1/1000		
BH (60°-80°)	104.1	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°	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3
2.5°	1548.3	1566.5	1549.4	1489.5	1478.8	1449.9	1406.0	1402.8	1356.8	1362.1	1337.5
5°	1455.2	1473.4	1437.0	1357.9	1284.0	1225.2	1189.9	1126.7	1112.8	1081.8	1081.8
7.5°	1360.0	1358.9	1296.9	1230.5	1120.3	1012.2	963.0	872.1	818.6	789.7	761.9
10°	1280.8	1263.7	1225.2	1088.2	968.4	856.0	795.0	735.1	679.5	631.3	583.2
12.5°	1225.2	1235.9	1174.9	1026.1	871.0	792.9	727.6	664.5	598.1	543.6	490.1
15°	1254.1	1236.9	1165.3	1012.2	854.9	747.9	661.3	584.2	510.4	438.7	398.0
17.5°	1343.9	1300.1	1215.5	1012.2	821.8	679.5	574.6	483.6	404.5	340.3	290.0
20°	1464.9	1414.6	1323.6	1049.7	797.2	629.2	485.8	371.3	288.9	229.0	190.5
22.5°	1589.0	1549.4	1412.4	1064.7	768.3	561.8	383.1	268.6	192.6	154.1	134.8
25°	1737.7	1682.1	1532.3	1124.6	725.5	496.5	301.7	187.3	143.4	123.1	111.3
27.5°	1856.5	1846.9	1644.6	1161.0	693.4	443.0	238.6	148.7	118.8	103.8	96.3
30°	2006.3	1953.9	1781.6	1233.7	657.0	382.0	199.0	133.8	109.1	93.1	87.7
32.5°	2096.2	2071.6	1853.3	1274.4	616.3	331.7	171.2	117.7	99.5	87.7	82.4
35°	2226.7	2177.5	1956.0	1300.1	594.9	302.8	154.1	107.0	83.5	71.7	65.3
37.5°	2372.2	2354.0	2079.0	1299.0	563.9	285.7	142.3	99.5	79.2	66.3	58.9
40°	2521.0	2447.1	2154.0	1329.0	547.9	272.9	133.8	95.2	74.9	63.1	53.5
42.5°	2632.3	2547.7	2240.6	1318.3	528.6	250.4	130.5	88.8	71.7	57.8	49.2
45°	2662.2	2632.3	2318.7	1315.1	514.7	232.2	125.2	87.7	69.6	54.6	46.0
47.5°	2720.0	2699.7	2415.0	1320.4	504.0	218.3	112.4	89.9	66.3	51.4	43.9
50°	2745.7	2709.3	2493.1	1333.2	479.4	201.2	100.6	94.2	65.3	50.3	41.7
52.5°	2851.6	2819.5	2600.1	1369.6	459.0	178.7	88.8	89.9	67.4	47.1	39.6
55°	2955.4	2919.0	2764.9	1453.1	430.1	160.5	76.0	79.2	64.2	42.8	35.3
57.5°	3097.7	3037.8	2875.1	1487.3	404.5	135.9	67.4	65.3	59.9	38.5	31.0
60°	3119.1	3143.7	2859.1	1465.9	377.7	119.8	58.9	50.3	64.2	34.2	26.8
62.5°	3190.8	3088.1	2784.2	1416.7	358.5	110.2	52.4	41.7	55.6	30.0	22.5
65°	3052.8	2976.8	2608.7	1258.3	333.8	111.3	46.0	34.2	35.3	24.6	18.2
67.5°	2850.5	2790.6	2317.7	1086.1	309.2	109.1	40.7	30.0	26.8	21.4	16.1
70°	2501.7	2372.2	1968.8	881.7	272.9	101.7	34.2	26.8	22.5	17.1	11.8
72.5°	1820.1	1767.7	1412.4	681.6	245.0	92.0	32.1	22.5	19.3	12.8	9.6
75°	1225.2	1138.5	891.3	447.3	196.9	80.3	26.8	20.3	15.0	9.6	7.5
77.5°	647.4	612.1	505.0	212.9	109.1	37.5	15.0	11.8	8.6	7.5	4.3
80°	280.3	249.3	218.3	86.7	38.5	17.1	9.6	6.4	5.4	4.3	2.1
82.5°	143.4	137.0	113.4	37.5	22.5	12.8	5.4	4.3	3.2	2.1	1.1
85°	70.6	72.8	59.9	11.8	12.8	7.5	1.1	1.1	0.0	0.0	0.0
87.5°	5.4	5.4	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°	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3
2.5°	1327.9	1342.9	1317.2	1333.2	1325.8	1329.0	1332.2	1323.6	1325.8	1355.7	1356.8
5°	1063.6	1092.5	1081.8	1096.8	1122.5	1109.6	1121.4	1119.2	1121.4	1125.7	1144.9
7.5°	758.6	750.1	770.4	810.0	856.0	883.8	869.9	862.4	858.2	847.5	860.3
10°	572.5	568.2	562.8	574.6	604.6	635.6	652.7	623.8	607.8	587.4	580.0
12.5°	475.1	448.3	433.4	415.2	423.7	451.5	452.6	424.8	399.1	388.4	400.2
15°	374.5	356.3	329.6	303.9	291.0	312.4	294.3	267.5	234.3	230.1	229.0
17.5°	267.5	256.8	237.5	226.8	211.9	206.5	187.3	146.6	123.1	116.6	118.8
20°	181.9	173.3	172.3	162.6	156.2	151.9	120.9	94.2	86.7	87.7	88.8
22.5°	134.8	130.5	125.2	124.1	118.8	113.4	88.8	79.2	73.8	73.8	77.0
25°	110.2	108.1	102.7	100.6	98.4	91.0	74.9	67.4	65.3	63.1	66.3
27.5°	94.2	93.1	89.9	86.7	84.5	77.0	65.3	58.9	56.7	56.7	56.7
30°	84.5	84.5	80.3	73.8	73.8	65.3	55.6	51.4	49.2	49.2	48.2
32.5°	79.2	77.0	71.7	67.4	64.2	55.6	49.2	44.9	41.7	41.7	42.8
35°	64.2	64.2	63.1	59.9	55.6	47.1	41.7	37.5	35.3	34.2	35.3
37.5°	56.7	53.5	49.2	50.3	48.2	40.7	35.3	32.1	28.9	28.9	28.9
40°	51.4	48.2	43.9	40.7	39.6	36.4	31.0	25.7	22.5	21.4	21.4
42.5°	46.0	43.9	37.5	32.1	31.0	31.0	23.5	19.3	16.1	16.1	16.1
45°	42.8	39.6	34.2	27.8	22.5	23.5	19.3	13.9	11.8	10.7	10.7
47.5°	40.7	37.5	30.0	23.5	17.1	17.1	13.9	9.6	7.5	6.4	6.4
50°	37.5	34.2	26.8	19.3	12.8	10.7	8.6	5.4	3.2	2.1	2.1
52.5°	35.3	32.1	23.5	16.1	10.7	7.5	5.4	1.1	0.0	0.0	0.0
55°	32.1	27.8	20.3	12.8	8.6	4.3	1.1	0.0	0.0	0.0	0.0
57.5°	27.8	24.6	16.1	9.6	5.4	1.1	0.0	0.0	0.0	0.0	0.0
60°	23.5	20.3	12.8	7.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	19.3	17.1	9.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	16.1	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	5.4	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	5.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	5.4	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°	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3
2.5°	1361.1	1393.2	1423.1	1431.7	1455.2	1520.5	1520.5	1551.5	1607.2	1627.5	1631.8
5°	1148.1	1182.4	1188.8	1255.1	1286.2	1352.5	1396.4	1501.2	1564.4	1604.0	1628.6
7.5°	873.1	884.9	909.5	971.6	1032.6	1112.8	1196.3	1330.0	1441.3	1486.3	1569.7
10°	600.3	635.6	689.1	744.7	840.0	928.8	1036.8	1163.1	1300.1	1355.7	1427.4
12.5°	404.5	453.7	539.3	618.5	706.2	796.1	898.8	1067.9	1223.0	1300.1	1371.8
15°	236.5	296.4	370.2	498.6	615.3	715.8	818.6	989.8	1178.1	1277.6	1365.3
17.5°	119.8	138.0	199.0	310.3	464.4	629.2	782.2	1000.5	1212.3	1334.3	1407.1
20°	89.9	95.2	112.4	164.8	317.8	520.0	747.9	1016.5	1307.6	1456.3	1495.9
22.5°	78.1	82.4	89.9	107.0	178.7	398.0	699.8	1056.1	1437.0	1577.2	1660.7
25°	66.3	70.6	77.0	87.7	114.5	270.7	640.9	1097.8	1552.6	1729.2	1807.3
27.5°	57.8	61.0	67.4	76.0	93.1	172.3	539.3	1153.5	1729.2	1913.2	1933.5
30°	49.2	52.4	57.8	67.4	79.2	122.0	395.9	1161.0	1826.5	1993.4	2050.2
32.5°	42.8	43.9	50.3	58.9	66.3	96.3	278.2	1168.5	1898.2	2097.2	2109.0
35°	35.3	37.5	43.9	49.2	57.8	76.0	210.8	1131.0	1991.3	2204.2	2201.0
37.5°	28.9	32.1	36.4	40.7	47.1	64.2	168.0	1061.5	2107.9	2370.1	2269.5
40°	22.5	25.7	30.0	35.3	39.6	57.8	126.3	956.6	2229.9	2451.4	2344.4
42.5°	16.1	18.2	22.5	27.8	35.3	48.2	91.0	832.5	2278.1	2546.6	2434.3
45°	11.8	13.9	17.1	23.5	36.4	38.5	63.1	719.1	2329.4	2588.4	2414.0
47.5°	6.4	8.6	12.8	20.3	32.1	28.9	44.9	617.4	2388.3	2625.8	2430.0
50°	2.1	3.2	7.5	21.4	25.7	22.5	35.3	562.8	2446.1	2633.3	2462.1
52.5°	0.0	0.0	4.3	22.5	19.3	17.1	31.0	541.4	2431.1	2656.9	2441.8
55°	0.0	0.0	1.1	9.6	10.7	12.8	25.7	540.4	2537.0	2664.4	2553.1
57.5°	0.0	0.0	0.0	3.2	6.4	10.7	22.5	506.1	2604.4	2850.5	2702.9
60°	0.0	0.0	0.0	1.1	4.3	7.5	17.1	476.2	2672.9	2934.0	2863.4
62.5°	0.0	0.0	0.0	0.0	1.1	3.2	11.8	430.1	2534.9	2927.6	3018.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	7.5	340.3	2280.2	2774.6	2932.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.3	235.4	1996.7	2582.0	2775.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	142.3	1611.5	2264.2	2354.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.0	1150.3	1797.6	1931.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.6	711.6	1314.0	1478.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	461.2	995.1	1122.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	246.1	623.8	725.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	107.0	378.8	436.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.2	230.1	262.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.3	47.1
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°	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3
2.5°	1633.9	1665.0	1676.7	1658.5	1660.7	1623.2	1617.9	1565.4	1544.0	1548.3
5°	1708.8	1753.8	1778.4	1758.0	1712.0	1640.3	1575.1	1513.0	1474.5	1455.2
7.5°	1691.7	1742.0	1773.0	1792.3	1739.9	1624.3	1524.8	1408.1	1358.9	1360.0
10°	1597.5	1702.4	1765.5	1740.9	1716.3	1600.8	1446.7	1320.4	1276.5	1280.8
12.5°	1521.6	1638.2	1675.7	1694.9	1644.6	1552.6	1448.8	1304.4	1255.1	1225.2
15°	1474.5	1561.2	1563.3	1593.3	1572.9	1572.9	1471.3	1330.0	1287.2	1254.1
17.5°	1474.5	1493.7	1491.6	1502.3	1536.5	1577.2	1528.0	1433.8	1349.3	1343.9
20°	1507.7	1447.7	1433.8	1438.1	1467.0	1587.9	1653.2	1535.5	1482.0	1464.9
22.5°	1584.7	1453.1	1368.6	1353.6	1442.4	1586.8	1733.4	1696.0	1602.9	1589.0
25°	1690.6	1443.5	1351.4	1332.2	1399.6	1625.4	1843.6	1851.1	1766.6	1737.7
27.5°	1791.2	1486.3	1349.3	1345.0	1433.8	1616.8	1919.6	1975.3	1880.0	1856.5
30°	1825.5	1529.1	1388.9	1332.2	1446.7	1647.8	1917.5	2063.0	2000.9	2006.3
32.5°	1866.1	1571.9	1393.2	1370.7	1501.2	1698.1	1978.5	2204.2	2159.3	2096.2
35°	1926.0	1629.6	1433.8	1413.5	1539.8	1743.1	1991.3	2308.0	2300.5	2226.7
37.5°	1977.4	1686.4	1518.4	1521.6	1657.5	1815.8	2048.0	2435.4	2422.5	2372.2
40°	2013.8	1765.5	1650.0	1658.5	1760.2	1897.1	2148.6	2499.6	2594.8	2521.0
42.5°	2019.1	1836.2	1800.8	1869.3	1964.6	2023.4	2189.3	2543.4	2680.4	2632.3
45°	2039.5	1948.5	2046.9	2097.2	2175.4	2134.7	2187.1	2618.3	2686.8	2662.2
47.5°	2118.6	2152.9	2277.0	2430.0	2457.8	2324.1	2238.5	2630.1	2723.2	2720.0
50°	2201.0	2372.2	2546.6	2648.3	2683.6	2454.6	2286.6	2620.5	2771.4	2745.7
52.5°	2293.1	2562.7	2814.2	2939.3	2920.1	2599.1	2341.2	2698.6	2860.2	2851.6
55°	2350.8	2648.3	2986.4	3160.8	3145.9	2760.7	2514.5	2810.9	2976.8	2955.4
57.5°	2503.8	2787.4	3157.6	3239.0	3278.5	2972.5	2635.5	2995.0	3074.2	3097.7
60°	2630.1	2878.4	3202.6	3320.3	3334.2	3098.8	2847.3	3184.4	3198.3	3119.1
62.5°	2815.2	2913.7	3107.3	3213.3	3285.0	3170.5	3037.8	3286.0	3196.2	3190.8
65°	2951.1	2798.1	2929.7	2988.6	3034.6	3061.3	3229.3	3355.6	3156.6	3052.8
67.5°	2875.1	2579.8	2555.2	2558.4	2572.3	2733.9	3165.1	3185.5	2936.1	2850.5
70°	2530.6	2116.5	2083.3	2109.0	2039.5	2234.2	2905.1	2895.5	2590.5	2501.7
72.5°	2046.9	1543.0	1486.3	1521.6	1537.6	1744.1	2443.9	2195.7	1889.7	1820.1
75°	1626.4	1131.0	954.5	1040.1	1094.6	1270.1	1908.9	1491.6	1319.3	1225.2
77.5°	1277.6	856.0	742.6	708.4	758.6	923.4	1388.9	783.3	691.2	647.4
80°	810.0	629.2	682.7	633.5	654.9	659.1	723.3	356.3	283.6	280.3
82.5°	487.9	430.1	511.5	281.4	512.5	458.0	300.7	161.6	143.4	143.4
85°	345.6	266.4	176.6	114.5	227.9	251.5	116.6	83.5	72.8	70.6
87.5°	173.3	82.4	39.6	25.7	28.9	47.1	13.9	6.4	6.4	5.4
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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