

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: P677253

Luminaire Tested: **CCW-SA-1E-727-U-SLL-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677253  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1E-727-U-SLL-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/  
SLL distribution lens and House Side Shield  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

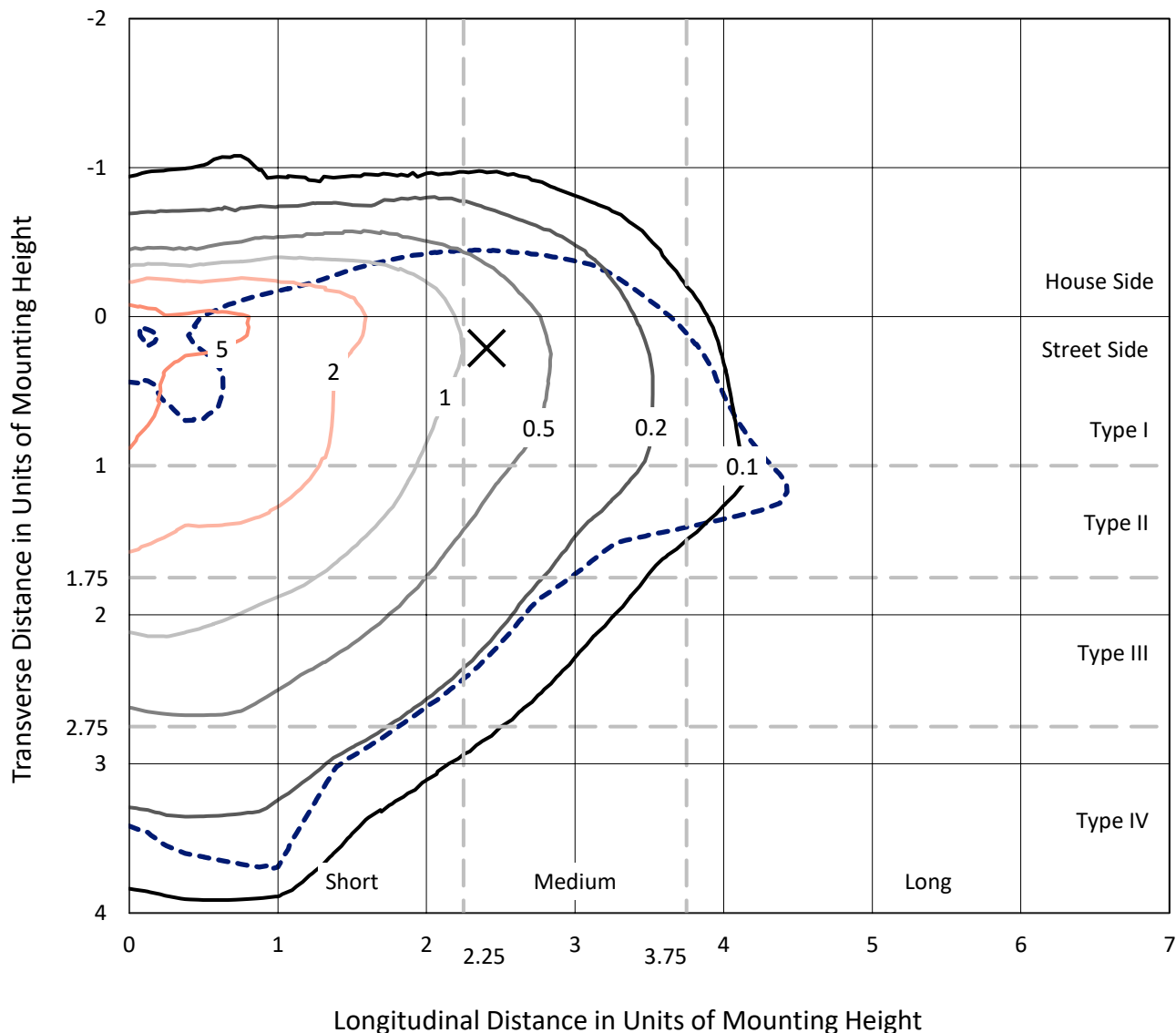
Lumens per Lamp: N/A  
Luminaire Lumens: 4148.5 lumens  
Efficiency: N/A  
Efficacy: 73.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 56.1  
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

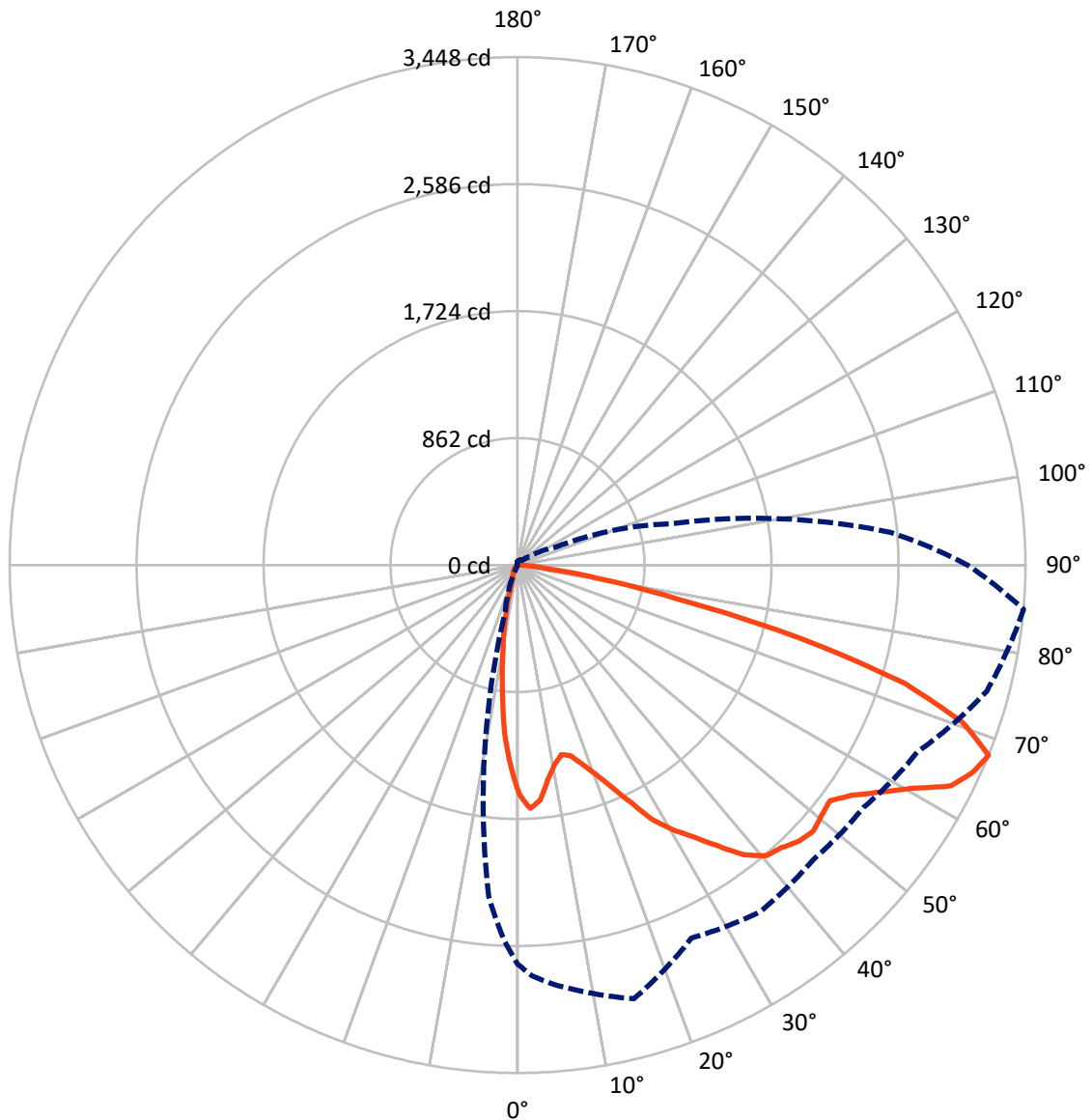
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.8 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	720.3	0.0	720.3
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	3428.2	0.0	3428.2
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	4148.5	0.0	4148.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.5	2.9
10°-20°	232.4	5.6
20°-30°	321.6	7.8
30°-40°	454.4	11.0
40°-50°	618.7	14.9
50°-60°	819.5	19.8
60°-70°	951.5	22.9
70°-80°	538.8	13.0
80°-90°	93.1	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°	4148.5	100.0
0°-180°	4148.5	100.0

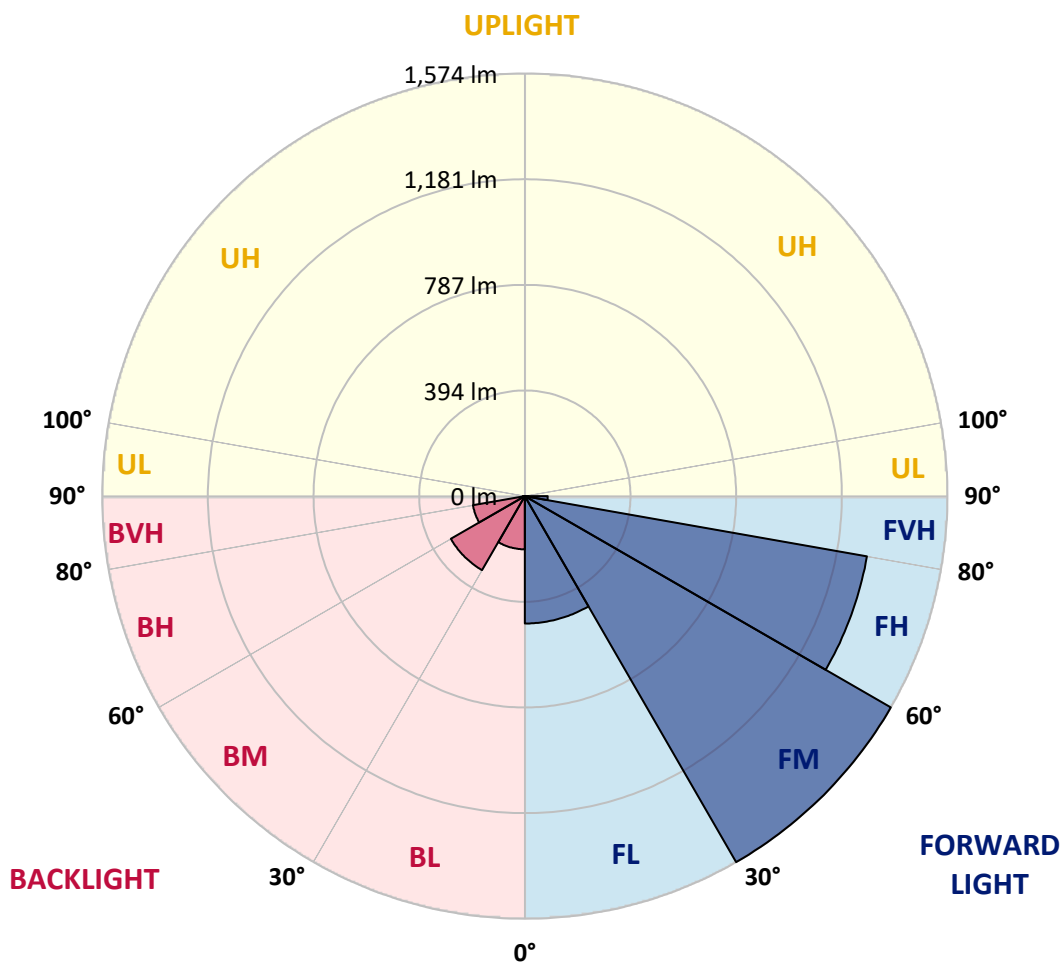


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	474.4	11.4			
FM (30°-60°)	1574.4	38.0			
FH (60°-80°)	1294.1	31.2			G1/1800
FVH (80°-90°)	85.3	2.1			G1/100
BL (0°-30°)	198.0	4.8	B1/500		
BM (30°-60°)	318.3	7.7	B1/1000		
BH (60°-80°)	196.2	4.7	B1/500		G1/500
BVH (80°-90°)	7.8	0.2			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1559.8	1559.8	1559.8	1559.8	1559.8	1559.8	1559.8	1559.8	1559.8	1559.8	1559.8
2.5°	1620.7	1655.1	1656.2	1671.7	1687.2	1687.2	1723.8	1714.9	1682.8	1677.2	1654.0
5°	1632.9	1645.1	1654.0	1732.6	1799.1	1792.4	1812.4	1799.1	1737.1	1657.3	1603.0
7.5°	1527.7	1541.0	1576.4	1710.5	1800.2	1830.1	1867.8	1784.7	1719.3	1575.3	1471.2
10°	1388.1	1413.6	1478.9	1631.8	1742.6	1837.9	1837.9	1771.4	1645.1	1504.4	1377.0
12.5°	1310.5	1361.5	1397.0	1552.1	1696.1	1761.4	1759.2	1723.8	1641.8	1464.5	1320.5
15°	1323.8	1338.2	1413.6	1534.3	1629.6	1626.3	1666.2	1655.1	1597.5	1500.0	1341.6
17.5°	1384.8	1406.9	1472.3	1534.3	1579.7	1566.5	1565.3	1618.5	1621.8	1559.8	1420.2
20°	1484.5	1549.8	1580.9	1599.7	1544.3	1487.8	1481.2	1555.4	1613.0	1636.2	1514.4
22.5°	1644.0	1687.2	1750.4	1654.0	1510.0	1439.1	1425.8	1507.7	1624.1	1727.1	1636.2
25°	1800.2	1833.4	1894.4	1770.3	1548.7	1429.1	1405.8	1476.7	1666.2	1853.4	1783.6
27.5°	1965.3	1994.1	2000.7	1855.6	1569.8	1409.1	1381.4	1476.7	1701.6	1919.8	1959.7
30°	2066.1	2100.4	2107.1	1930.9	1604.1	1425.8	1412.5	1483.4	1726.0	1976.3	2086.0
32.5°	2179.1	2187.9	2182.4	1944.2	1641.8	1474.5	1419.1	1527.7	1753.7	2043.9	2201.2
35°	2314.2	2329.7	2273.2	2005.1	1726.0	1505.5	1485.6	1582.0	1801.3	2074.9	2340.8
37.5°	2417.3	2466.0	2338.6	2028.4	1742.6	1570.9	1574.2	1695.0	1834.5	2112.6	2494.8
40°	2611.1	2529.1	2449.4	2108.2	1805.7	1681.7	1663.9	1811.3	1946.4	2137.0	2595.6
42.5°	2717.5	2674.3	2492.6	2115.9	1903.2	1834.5	1839.0	1943.1	2005.1	2205.7	2623.3
45°	2744.1	2698.6	2551.3	2121.5	1999.6	2015.1	2091.6	2111.5	2091.6	2251.1	2675.4
47.5°	2811.6	2713.0	2544.7	2195.7	2155.8	2215.6	2313.1	2356.3	2209.0	2234.5	2699.7
50°	2798.3	2741.8	2530.3	2226.7	2346.4	2504.8	2570.1	2552.4	2339.7	2200.1	2673.2
52.5°	2743.0	2682.0	2574.6	2310.9	2524.7	2716.4	2807.2	2762.9	2456.0	2277.7	2655.4
55°	2823.8	2777.3	2632.2	2425.0	2658.8	2902.5	2966.7	2933.5	2598.9	2349.7	2756.2
57.5°	2911.3	2901.4	2788.4	2559.1	2817.2	3094.1	3094.1	3053.1	2723.0	2453.8	2905.8
60°	3037.6	3059.8	2903.6	2647.7	2871.5	3083.1	3243.7	3196.1	2848.2	2636.6	3075.3
62.5°	2996.6	3067.5	3052.0	2838.2	2933.5	3137.3	3224.9	3260.3	3003.3	2859.3	3301.3
65°	2864.8	2940.1	3050.9	2963.4	2887.0	3005.5	3049.8	3157.3	3080.8	3068.7	3394.4
67.5°	2707.5	2789.5	2858.2	3047.6	2792.8	2871.5	2832.7	2867.0	2996.6	3298.0	3447.5
70°	2364.1	2442.7	2551.3	2860.4	2543.5	2472.6	2462.7	2446.1	2647.7	3216.0	3206.0
72.5°	1944.2	1980.8	2160.2	2325.3	1882.2	1868.9	1884.4	1865.6	2099.3	2911.3	2746.3
75°	1455.7	1492.2	1594.1	1785.8	1281.7	1205.3	1293.9	1381.4	1603.0	2259.9	1973.0
77.5°	1094.5	1141.1	1205.3	1336.0	940.5	820.9	833.1	916.2	1158.8	1810.2	1105.6
80°	710.1	704.6	828.6	919.5	707.9	730.1	699.0	760.0	839.7	968.2	565.0
82.5°	409.9	415.4	467.5	527.3	493.0	563.9	406.6	679.1	599.3	394.4	210.5
85°	230.4	240.4	288.0	365.6	309.1	207.2	169.5	336.8	376.7	161.7	101.9
87.5°	23.3	19.9	38.8	138.5	84.2	34.3	51.0	80.9	90.8	60.9	29.9
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1559.8	1559.8	1559.8	1559.8	1559.8	1559.8	1559.8	1559.8	1559.8	1559.8	1559.8
2.5°	1620.7	1620.7	1593.0	1546.5	1527.7	1494.4	1449.0	1463.4	1447.9	1391.4	1377.0
5°	1554.3	1501.1	1443.5	1372.6	1331.6	1247.4	1220.8	1173.2	1180.9	1133.3	1135.5
7.5°	1415.8	1373.7	1276.2	1183.1	1102.3	1029.2	926.1	887.4	849.7	830.9	853.0
10°	1334.9	1256.3	1123.3	1001.5	894.0	828.6	760.0	706.8	658.0	621.5	613.7
12.5°	1276.2	1206.4	1045.8	897.3	813.1	760.0	696.8	623.7	576.1	512.9	494.1
15°	1258.5	1173.2	1003.7	856.3	774.4	686.8	614.8	542.8	480.8	414.3	391.1
17.5°	1319.4	1220.8	1002.6	823.1	707.9	613.7	514.0	433.2	370.0	309.1	294.7
20°	1422.4	1271.8	1034.7	803.2	644.7	518.5	405.5	324.6	253.7	213.8	203.8
22.5°	1539.9	1358.2	1038.0	750.0	581.6	423.2	295.8	213.8	173.9	155.1	149.6
25°	1683.9	1496.7	1077.9	706.8	507.4	321.3	210.5	164.0	140.7	129.6	127.4
27.5°	1802.4	1593.0	1121.1	661.4	434.3	238.2	165.1	134.0	121.9	110.8	109.7
30°	1925.4	1703.8	1133.3	633.7	371.1	196.1	141.8	118.5	105.2	99.7	98.6
32.5°	2032.8	1824.6	1172.1	588.3	311.3	172.8	128.5	106.4	97.5	88.6	87.5
35°	2171.3	1894.4	1190.9	563.9	289.1	156.2	117.4	97.5	84.2	78.7	76.4
37.5°	2319.8	1961.9	1203.1	545.0	270.3	146.2	110.8	91.9	79.8	72.0	69.8
40°	2458.2	2057.2	1185.4	521.8	255.9	134.0	106.4	85.3	74.2	66.5	63.1
42.5°	2564.6	2150.3	1179.8	499.6	240.4	129.6	100.8	82.0	69.8	60.9	59.8
45°	2624.4	2213.4	1141.1	481.9	228.2	131.8	98.6	77.5	66.5	58.7	54.3
47.5°	2610.0	2262.2	1151.0	476.4	211.6	123.0	97.5	74.2	60.9	54.3	51.0
50°	2689.8	2360.8	1134.4	458.6	199.4	110.8	106.4	74.2	59.8	52.1	48.7
52.5°	2703.1	2450.5	1169.9	426.5	180.6	101.9	105.2	73.1	57.6	49.9	45.4
55°	2813.9	2554.6	1238.5	408.8	165.1	88.6	96.4	70.9	52.1	45.4	43.2
57.5°	2964.5	2770.6	1282.9	392.2	144.0	77.5	80.9	69.8	47.6	42.1	38.8
60°	3109.6	2857.1	1286.2	362.3	124.1	69.8	63.1	69.8	44.3	37.7	34.3
62.5°	3218.2	2857.1	1264.0	336.8	108.6	62.0	55.4	66.5	39.9	33.2	31.0
65°	3159.5	2780.6	1206.4	315.7	98.6	54.3	47.6	51.0	35.5	28.8	26.6
67.5°	3054.3	2542.4	1079.0	290.2	97.5	47.6	41.0	37.7	31.0	25.5	23.3
70°	2885.9	2221.2	898.4	261.4	95.3	43.2	36.6	32.1	27.7	22.2	19.9
72.5°	2325.3	1834.5	737.8	244.8	93.1	37.7	31.0	27.7	23.3	18.8	16.6
75°	1610.8	1172.1	568.3	209.4	90.8	34.3	28.8	24.4	19.9	15.5	14.4
77.5°	966.0	783.2	366.7	157.3	59.8	27.7	24.4	18.8	16.6	13.3	12.2
80°	452.0	370.0	148.4	60.9	28.8	19.9	16.6	14.4	13.3	11.1	10.0
82.5°	177.3	156.2	72.0	35.5	23.3	15.5	13.3	12.2	11.1	8.9	7.8
85°	95.3	84.2	34.3	24.4	16.6	11.1	11.1	10.0	8.9	7.8	6.6
87.5°	21.0	15.5	14.4	14.4	12.2	8.9	8.9	7.8	6.6	5.5	4.4
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1559.8	1559.8	1559.8	1559.8	1559.8	1559.8	1559.8	1559.8	1559.8	1559.8	1559.8
2.5°	1369.3	1385.9	1359.3	1375.9	1352.6	1370.4	1372.6	1356.0	1360.4	1382.6	1392.5
5°	1166.5	1155.5	1131.1	1123.3	1124.4	1110.0	1115.6	1123.3	1135.5	1142.2	1162.1
7.5°	840.8	866.3	865.2	884.0	885.1	882.9	867.4	834.2	845.3	836.4	847.5
10°	601.5	612.6	633.7	645.9	668.0	655.8	620.4	607.1	600.4	599.3	610.4
12.5°	480.8	454.2	452.0	456.4	467.5	453.1	435.4	419.9	427.6	443.1	455.3
15°	372.2	350.1	321.3	316.8	319.1	312.4	293.6	273.6	279.2	294.7	303.5
17.5°	285.8	260.3	240.4	227.1	222.7	199.4	171.7	155.1	150.7	149.6	157.3
20°	192.8	188.3	185.0	168.4	168.4	135.2	111.9	99.7	99.7	101.9	103.0
22.5°	144.0	138.5	139.6	136.3	127.4	100.8	88.6	85.3	85.3	87.5	87.5
25°	125.2	117.4	115.2	114.1	105.2	86.4	77.5	74.2	74.2	76.4	76.4
27.5°	106.4	104.1	100.8	96.4	88.6	74.2	68.7	65.4	66.5	67.6	66.5
30°	97.5	91.9	87.5	87.5	78.7	66.5	62.0	59.8	57.6	59.8	60.9
32.5°	86.4	83.1	80.9	77.5	67.6	58.7	54.3	52.1	51.0	51.0	52.1
35°	74.2	74.2	72.0	67.6	58.7	53.2	47.6	45.4	44.3	45.4	45.4
37.5°	66.5	63.1	64.3	59.8	52.1	46.5	41.0	38.8	38.8	37.7	38.8
40°	62.0	56.5	53.2	51.0	46.5	39.9	35.5	33.2	32.1	32.1	32.1
42.5°	55.4	51.0	44.3	43.2	42.1	34.3	28.8	27.7	26.6	25.5	25.5
45°	52.1	45.4	39.9	34.3	34.3	28.8	24.4	22.2	21.0	19.9	21.0
47.5°	47.6	41.0	34.3	28.8	27.7	23.3	18.8	16.6	15.5	15.5	15.5
50°	45.4	36.6	29.9	24.4	21.0	18.8	14.4	12.2	11.1	11.1	11.1
52.5°	42.1	34.3	26.6	21.0	16.6	14.4	11.1	8.9	7.8	7.8	7.8
55°	37.7	31.0	23.3	17.7	14.4	11.1	7.8	5.5	4.4	4.4	4.4
57.5°	35.5	27.7	19.9	15.5	11.1	7.8	4.4	3.3	3.3	2.2	3.3
60°	32.1	24.4	16.6	12.2	8.9	5.5	3.3	1.1	1.1	1.1	1.1
62.5°	27.7	21.0	14.4	10.0	6.6	3.3	1.1	0.0	0.0	0.0	0.0
65°	23.3	16.6	11.1	7.8	4.4	1.1	0.0	0.0	0.0	0.0	0.0
67.5°	19.9	14.4	8.9	5.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	17.7	12.2	6.6	4.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	14.4	10.0	5.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	12.2	7.8	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.0	5.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.8	4.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	1.1	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°	1559.8	1559.8	1559.8	1559.8	1559.8	1559.8	1559.8	1559.8	1559.8	1559.8
2.5°	1406.9	1400.3	1433.5	1487.8	1515.5	1569.8	1583.1	1617.4	1608.5	1620.7
5°	1164.3	1177.6	1226.4	1306.1	1334.9	1413.6	1487.8	1562.0	1609.7	1632.9
7.5°	864.1	908.4	968.2	1041.3	1115.6	1218.6	1344.9	1431.3	1477.8	1527.7
10°	643.6	691.3	760.0	832.0	952.7	1067.9	1194.2	1301.7	1341.6	1388.1
12.5°	506.3	580.5	660.3	737.8	809.8	919.5	1075.7	1231.9	1275.1	1310.5
15°	352.3	443.1	557.2	658.0	758.9	854.1	1015.9	1205.3	1264.0	1323.8
17.5°	195.0	267.0	397.7	539.5	688.0	834.2	1035.8	1254.0	1342.7	1384.8
20°	113.0	141.8	234.9	403.2	599.3	791.0	1045.8	1346.0	1463.4	1484.5
22.5°	93.1	103.0	132.9	252.6	490.8	763.3	1096.7	1474.5	1594.1	1644.0
25°	79.8	87.5	103.0	151.8	371.1	704.6	1128.9	1635.1	1745.9	1800.2
27.5°	70.9	78.7	90.8	111.9	252.6	623.7	1182.0	1780.3	1891.0	1965.3
30°	62.0	68.7	80.9	95.3	175.0	532.9	1227.5	1886.6	2042.8	2066.1
32.5°	55.4	60.9	69.8	82.0	129.6	404.4	1264.0	1996.3	2128.1	2179.1
35°	47.6	54.3	59.8	69.8	98.6	304.6	1241.9	2081.6	2253.3	2314.2
37.5°	42.1	46.5	52.1	58.7	83.1	238.2	1196.4	2183.5	2360.8	2417.3
40°	35.5	38.8	45.4	52.1	75.3	183.9	1144.4	2306.5	2511.4	2611.1
42.5°	29.9	33.2	37.7	48.7	62.0	136.3	1039.1	2401.7	2633.3	2717.5
45°	23.3	27.7	34.3	48.7	49.9	100.8	930.6	2472.6	2702.0	2744.1
47.5°	17.7	22.2	33.2	42.1	39.9	69.8	802.1	2553.5	2772.9	2811.6
50°	13.3	17.7	37.7	36.6	33.2	53.2	721.2	2610.0	2777.3	2798.3
52.5°	8.9	13.3	31.0	27.7	27.7	46.5	699.0	2607.8	2788.4	2743.0
55°	6.6	10.0	17.7	19.9	24.4	41.0	679.1	2690.9	2791.7	2823.8
57.5°	4.4	7.8	12.2	15.5	21.0	35.5	638.1	2790.6	2894.7	2911.3
60°	2.2	5.5	8.9	12.2	17.7	31.0	580.5	2863.7	3019.9	3037.6
62.5°	1.1	3.3	6.6	10.0	14.4	24.4	520.7	2747.4	2965.6	2996.6
65°	0.0	2.2	4.4	6.6	8.9	17.7	423.2	2480.4	2750.7	2864.8
67.5°	0.0	0.0	2.2	4.4	5.5	13.3	319.1	2256.6	2552.4	2707.5
70°	0.0	0.0	1.1	1.1	3.3	10.0	203.8	1868.9	2278.8	2364.1
72.5°	0.0	0.0	0.0	0.0	1.1	6.6	118.5	1388.1	1785.8	1944.2
75°	0.0	0.0	0.0	0.0	0.0	5.5	59.8	892.9	1243.0	1455.7
77.5°	0.0	0.0	0.0	0.0	0.0	4.4	32.1	576.1	916.2	1094.5
80°	0.0	0.0	0.0	0.0	0.0	1.1	18.8	334.6	586.0	710.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.8	164.0	350.1	409.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	87.5	175.0	230.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	12.2	23.3
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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