

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: P675805

Luminaire Tested: **CCW-SA-2B-722-U-SLL**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675805  
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-SLL  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
SLL distribution lens  
Light Source: (32) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

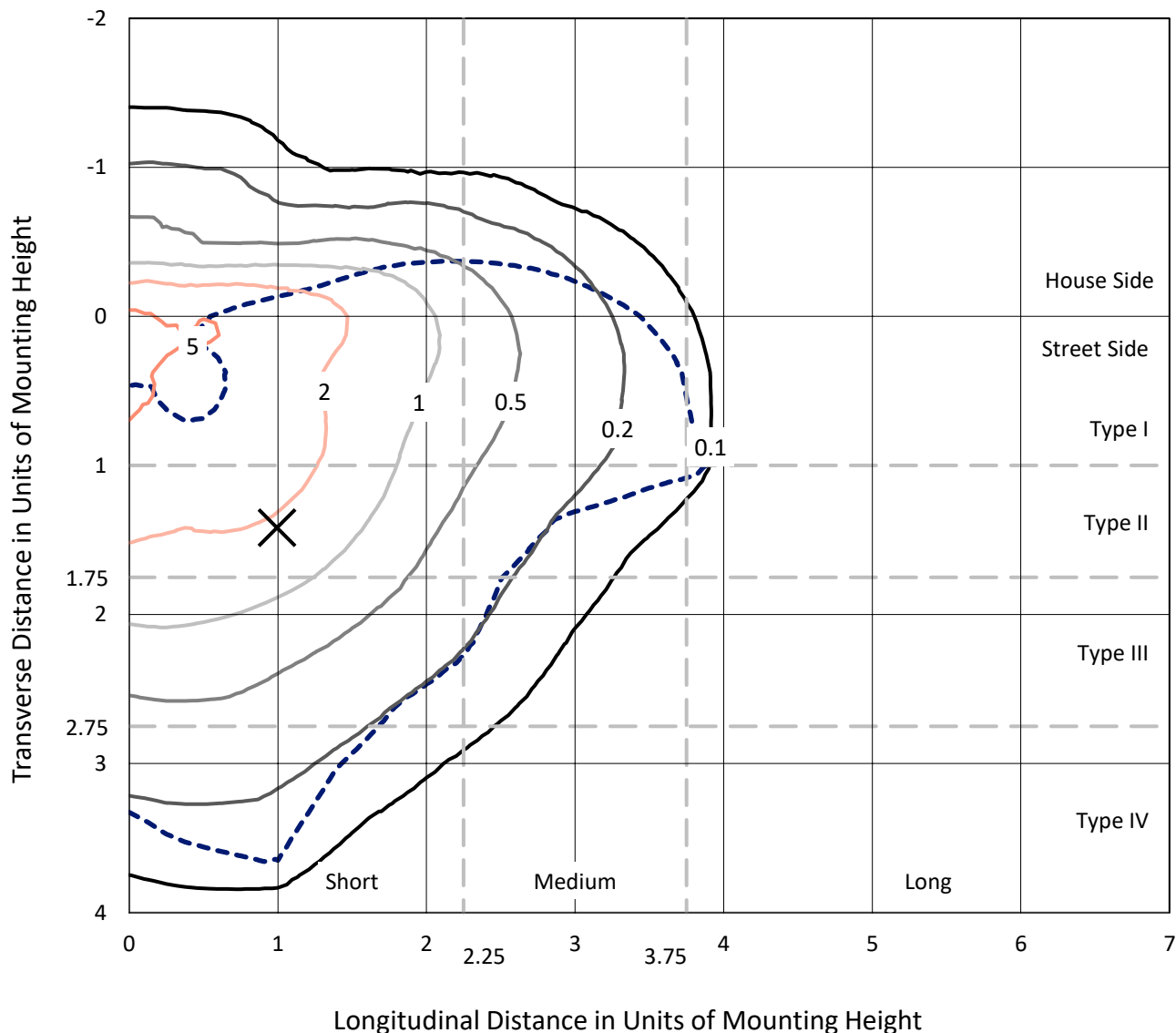
Lumens per Lamp: N/A  
Luminaire Lumens: 4220.9 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

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

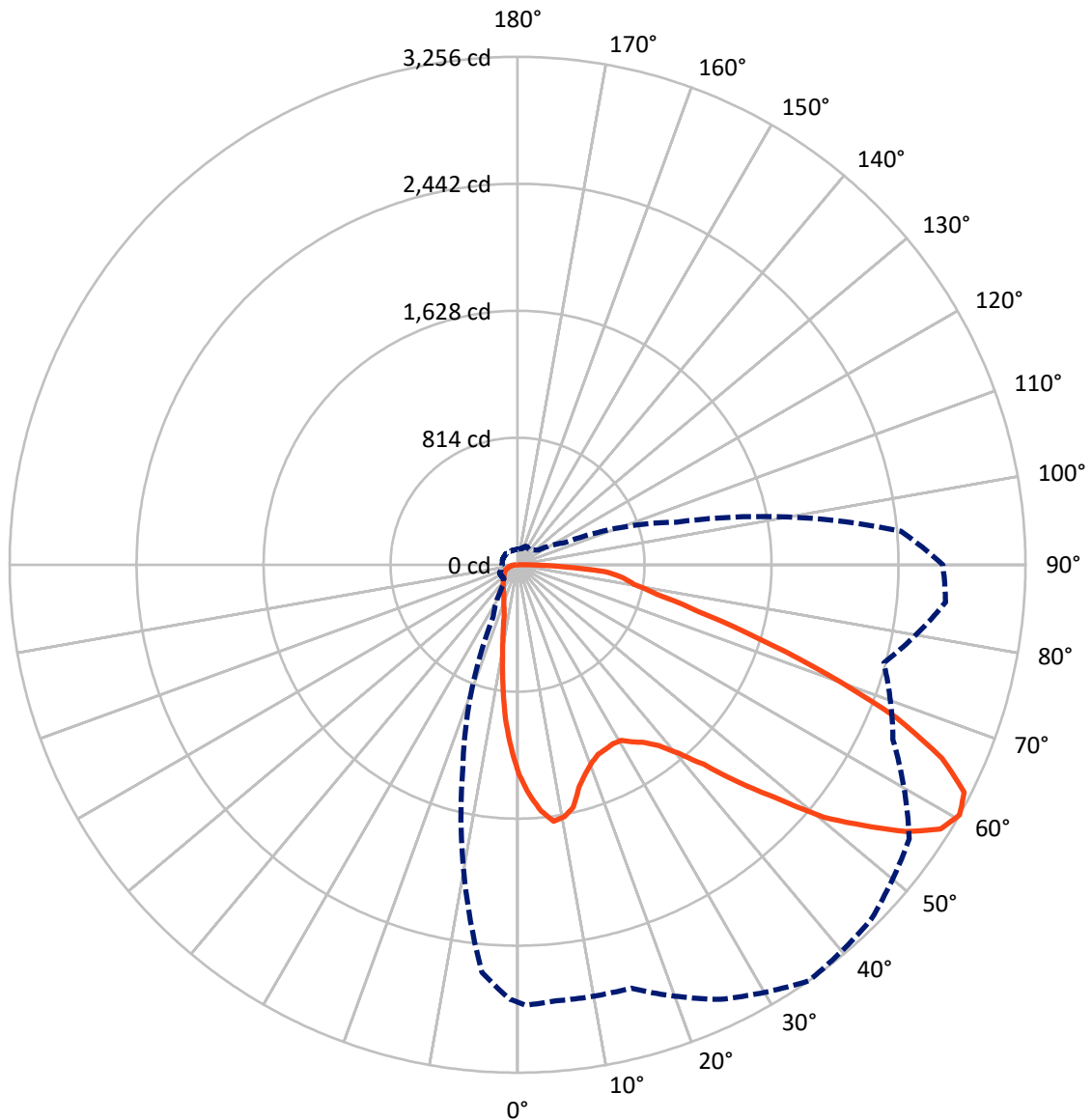
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	803.3	0.0	803.3
	% Fixture	19.0	0.0	19.0
<b>Street Side</b>	Lumens	3417.6	0.0	3417.6
	% Fixture	81.0	0.0	81.0
<b>Total</b>	Lumens	4220.9	0.0	4220.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.7	2.5
10°-20°	221.1	5.2
20°-30°	323.5	7.7
30°-40°	455.8	10.8
40°-50°	626.5	14.8
50°-60°	853.8	20.2
60°-70°	934.4	22.1
70°-80°	539.5	12.8
80°-90°	161.6	3.8
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°	4220.9	100.0
0°-180°	4220.9	100.0



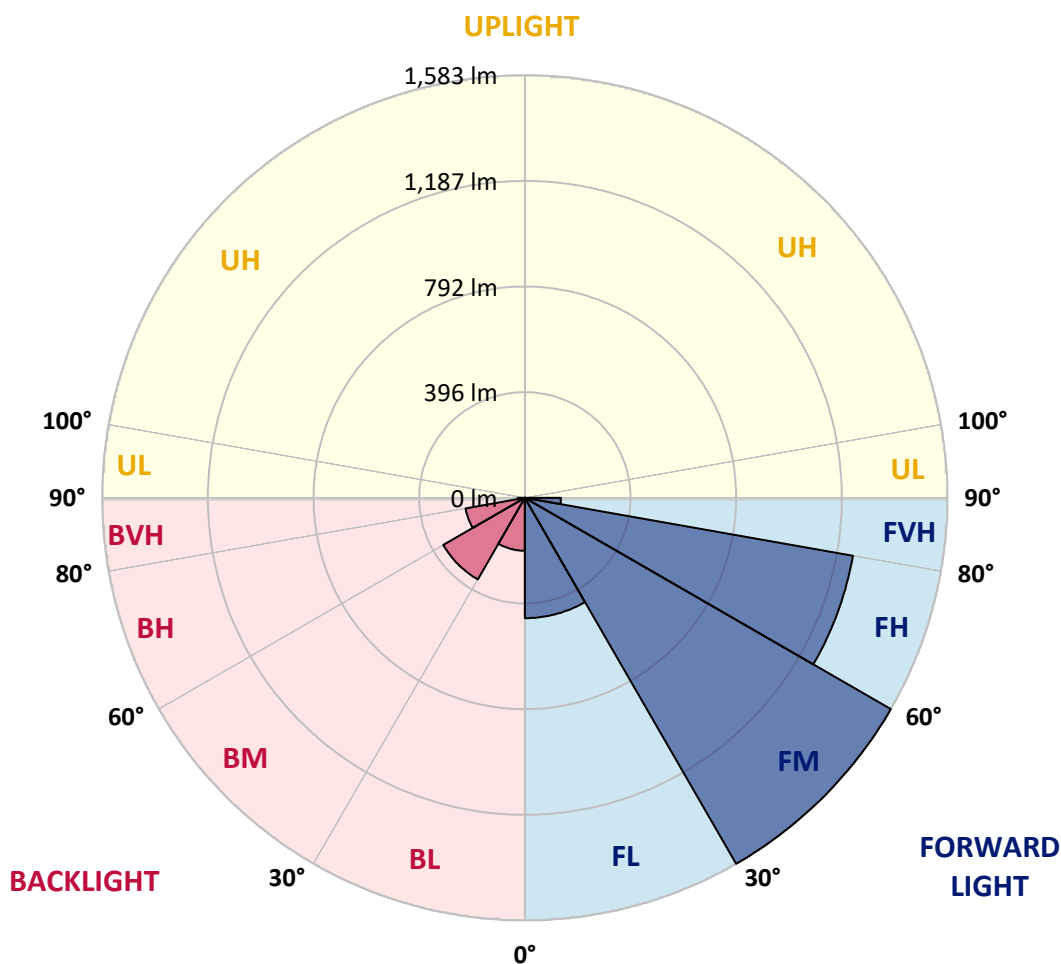
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	450.9	10.7			
FM (30°-60°)	1583.2	37.5			
FH (60°-80°)	1248.3	29.6			G1/1800
FVH (80°-90°)	135.2	3.2			G2/225
BL (0°-30°)	198.5	4.7	B1/500		
BM (30°-60°)	352.9	8.4	B1/1000		
BH (60°-80°)	225.6	5.3	B1/500		G1/500
BVH (80°-90°)	26.3	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1
2.5°	1443.6	1438.0	1443.6	1464.2	1469.8	1479.2	1479.2	1466.1	1441.8	1430.5	1411.8
5°	1475.5	1466.1	1512.9	1556.0	1589.7	1585.9	1554.1	1527.9	1479.2	1406.2	1336.9
7.5°	1411.8	1421.2	1454.9	1567.2	1645.8	1660.8	1610.3	1557.8	1453.0	1351.9	1258.3
10°	1292.0	1305.1	1378.1	1494.2	1617.8	1642.1	1610.3	1546.6	1421.2	1295.7	1187.1
12.5°	1233.9	1263.9	1306.9	1447.4	1535.4	1593.4	1578.4	1537.2	1396.8	1248.9	1144.0
15°	1233.9	1241.4	1305.1	1423.0	1473.6	1475.5	1481.1	1488.6	1404.3	1269.5	1129.1
17.5°	1273.2	1293.8	1348.1	1421.2	1430.5	1408.1	1408.1	1439.9	1419.3	1327.5	1183.4
20°	1368.7	1361.2	1432.4	1462.4	1411.8	1355.6	1350.0	1404.3	1436.1	1389.3	1282.6
22.5°	1464.2	1497.9	1556.0	1488.6	1394.9	1320.0	1312.6	1380.0	1486.7	1496.1	1396.8
25°	1608.4	1642.1	1672.1	1589.7	1393.1	1310.7	1316.3	1368.7	1548.5	1647.7	1587.8
27.5°	1763.8	1784.4	1827.5	1700.1	1438.0	1299.5	1305.1	1383.7	1606.5	1747.0	1737.6
30°	1851.8	1874.3	1864.9	1720.7	1468.0	1306.9	1292.0	1404.3	1574.7	1747.0	1835.0
32.5°	1937.9	1924.8	1919.2	1754.4	1505.4	1353.8	1316.3	1447.4	1593.4	1775.0	1960.4
35°	2042.8	2024.1	2009.1	1820.0	1567.2	1398.7	1381.8	1503.5	1634.6	1833.1	2061.5
37.5°	2158.9	2158.9	2085.9	1868.7	1640.2	1471.7	1453.0	1584.1	1700.1	1868.7	2200.1
40°	2295.6	2301.2	2172.0	1934.2	1722.6	1587.8	1582.2	1688.9	1763.8	1921.1	2333.0
42.5°	2396.7	2400.4	2246.9	1958.5	1818.1	1748.8	1773.2	1857.4	1836.8	1967.9	2342.4
45°	2466.0	2447.2	2299.3	2027.8	1923.0	1990.4	1997.9	2022.2	1932.3	1996.0	2379.8
47.5°	2499.7	2495.9	2321.8	2108.3	2143.9	2235.7	2278.7	2245.0	2020.3	1966.0	2379.8
50°	2533.4	2501.5	2342.4	2218.8	2359.2	2544.6	2535.2	2473.5	2142.0	2003.5	2344.3
52.5°	2555.8	2527.8	2383.6	2318.0	2565.2	2774.9	2812.4	2698.1	2284.3	2072.8	2361.1
55°	2636.4	2613.9	2507.2	2452.9	2803.0	3018.3	3023.9	2864.8	2434.1	2187.0	2471.6
57.5°	2733.7	2746.8	2677.5	2643.8	2984.6	3196.2	3175.6	2988.4	2561.5	2325.5	2598.9
60°	2803.0	2823.6	2806.7	2810.5	3074.5	3256.1	3209.3	3065.1	2655.1	2430.4	2754.3
62.5°	2765.5	2806.7	2876.0	2861.0	3078.2	3213.1	3147.5	2964.0	2666.3	2567.1	2872.3
65°	2662.6	2666.3	2801.1	2883.5	2909.7	2990.2	2904.1	2752.4	2550.2	2651.3	2855.4
67.5°	2398.6	2428.5	2550.2	2711.2	2600.8	2619.5	2612.0	2392.9	2374.2	2593.3	2726.2
70°	2117.7	2138.3	2271.2	2460.3	2196.3	2108.3	2125.2	1962.3	2039.1	2413.5	2466.0
72.5°	1750.7	1763.8	1915.5	2082.1	1761.9	1604.7	1644.0	1511.0	1619.6	2112.1	2080.2
75°	1321.9	1346.3	1464.2	1660.8	1297.6	1196.5	1235.8	1181.5	1282.6	1739.5	1614.0
77.5°	939.9	921.2	1067.3	1299.5	975.5	915.6	919.4	928.7	1037.3	1466.1	1159.0
80°	640.4	646.0	777.0	953.1	765.8	756.5	747.1	822.0	870.7	1160.9	842.6
82.5°	380.1	380.1	524.3	677.8	604.8	681.6	638.5	705.9	681.6	853.8	552.4
85°	177.9	177.9	269.6	488.7	468.1	561.7	477.5	533.6	503.7	595.4	249.0
87.5°	30.0	26.2	54.3	239.7	192.9	219.1	86.1	284.6	316.4	415.7	61.8
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°	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1
2.5°	1391.2	1378.1	1351.9	1318.2	1290.1	1254.5	1243.3	1218.9	1185.2	1181.5	1166.5
5°	1310.7	1265.7	1209.6	1140.3	1093.5	1044.8	1003.6	979.3	951.2	947.4	939.9
7.5°	1222.7	1166.5	1072.9	990.5	910.0	833.2	795.8	749.0	717.1	692.8	681.6
10°	1140.3	1087.9	971.8	859.4	788.3	737.7	692.8	644.1	604.8	574.8	563.6
12.5°	1086.0	1024.2	898.8	792.0	739.6	681.6	631.0	578.6	528.0	488.7	468.1
15°	1061.7	1003.6	876.3	758.3	681.6	601.0	543.0	490.6	428.8	400.7	391.3
17.5°	1119.7	1033.6	868.8	719.0	610.4	518.7	447.5	391.3	346.4	318.3	307.1
20°	1194.6	1087.9	881.9	672.2	543.0	440.0	361.4	301.5	271.5	250.9	249.0
22.5°	1290.1	1168.4	902.5	638.5	468.1	353.9	282.7	247.2	226.6	224.7	220.9
25°	1460.5	1314.4	936.2	593.6	408.2	292.1	241.5	220.9	211.6	206.0	209.7
27.5°	1606.5	1409.9	960.5	565.5	383.8	275.2	234.1	211.6	202.2	200.3	202.2
30°	1692.7	1497.9	953.1	513.0	335.2	262.1	249.0	241.5	222.8	207.8	207.8
32.5°	1771.3	1554.1	951.2	466.2	286.5	219.1	207.8	202.2	213.5	220.9	215.3
35°	1879.9	1642.1	945.6	440.0	265.9	202.2	183.5	168.5	161.0	157.3	162.9
37.5°	1996.0	1702.0	930.6	436.3	254.6	192.9	177.9	162.9	155.4	151.7	149.8
40°	2123.3	1765.7	913.7	417.5	249.0	187.2	172.3	159.2	149.8	144.2	142.3
42.5°	2205.7	1816.2	896.9	408.2	237.8	183.5	166.6	155.4	146.0	138.6	138.6
45°	2252.5	1876.2	880.0	398.8	224.7	185.4	166.6	151.7	140.4	136.7	132.9
47.5°	2273.1	1921.1	874.4	383.8	213.5	177.9	162.9	147.9	136.7	129.2	127.3
50°	2327.4	2016.6	895.0	372.6	200.3	170.4	172.3	146.0	134.8	125.5	123.6
52.5°	2359.2	2093.4	939.9	355.8	191.0	161.0	168.5	142.3	129.2	119.8	119.8
55°	2475.3	2220.7	988.6	342.7	179.8	147.9	155.4	134.8	119.8	114.2	114.2
57.5°	2623.2	2355.5	1029.8	337.0	172.3	138.6	138.6	131.1	114.2	106.7	104.9
60°	2726.2	2466.0	1054.2	333.3	164.8	129.2	123.6	131.1	108.6	101.1	99.2
62.5°	2737.5	2402.3	1029.8	331.4	162.9	119.8	112.3	125.5	103.0	95.5	91.7
65°	2666.3	2273.1	962.4	323.9	161.0	110.5	104.9	108.6	95.5	89.9	86.1
67.5°	2524.0	2063.4	865.1	320.2	159.2	103.0	95.5	93.6	88.0	82.4	78.6
70°	2192.6	1790.0	750.8	303.3	155.4	97.4	86.1	84.3	78.6	74.9	73.0
72.5°	1840.6	1464.2	619.8	280.9	147.9	88.0	78.6	74.9	73.0	67.4	65.5
75°	1409.9	1127.2	496.2	249.0	129.2	78.6	69.3	65.5	63.7	59.9	58.0
77.5°	990.5	838.8	367.0	202.2	108.6	71.2	61.8	58.0	56.2	50.6	50.6
80°	672.2	587.9	249.0	140.4	84.3	58.0	54.3	50.6	46.8	43.1	43.1
82.5°	417.5	411.9	179.8	91.7	61.8	46.8	43.1	43.1	37.4	33.7	33.7
85°	191.0	252.8	125.5	63.7	46.8	35.6	35.6	33.7	30.0	24.3	24.3
87.5°	59.9	84.3	65.5	28.1	26.2	20.6	20.6	18.7	18.7	15.0	15.0
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°	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1
2.5°	1181.5	1179.6	1179.6	1172.1	1190.9	1190.9	1202.1	1192.7	1198.3	1200.2	1215.2
5°	938.1	953.1	964.3	986.8	999.9	1005.5	1005.5	1020.5	1014.8	1026.1	1048.5
7.5°	687.2	705.9	739.6	767.7	790.2	797.6	795.8	799.5	805.1	792.0	795.8
10°	556.1	543.0	554.2	580.4	601.0	625.4	606.7	604.8	610.4	604.8	616.0
12.5°	464.4	449.4	440.0	440.0	455.0	466.2	460.6	470.0	490.6	496.2	509.3
15°	376.4	363.2	355.8	346.4	361.4	365.1	370.7	383.8	398.8	406.3	421.3
17.5°	301.5	301.5	301.5	294.0	299.6	305.2	307.1	323.9	325.8	333.3	338.9
20°	247.2	252.8	262.1	265.9	271.5	271.5	267.8	277.1	269.6	275.2	279.0
22.5°	222.8	230.3	234.1	235.9	243.4	245.3	235.9	237.8	239.7	234.1	235.9
25°	209.7	213.5	209.7	211.6	213.5	209.7	211.6	215.3	213.5	217.2	215.3
27.5°	204.1	200.3	198.5	196.6	196.6	192.9	194.7	194.7	198.5	200.3	200.3
30°	204.1	198.5	191.0	185.4	185.4	179.8	183.5	187.2	189.1	192.9	192.9
32.5°	209.7	198.5	185.4	179.8	174.1	170.4	174.1	179.8	187.2	189.1	191.0
35°	166.6	172.3	170.4	162.9	161.0	161.0	159.2	159.2	153.5	153.5	151.7
37.5°	149.8	147.9	151.7	153.5	155.4	149.8	149.8	142.3	140.4	142.3	142.3
40°	140.4	140.4	140.4	146.0	147.9	144.2	138.6	134.8	134.8	134.8	136.7
42.5°	136.7	132.9	131.1	134.8	140.4	136.7	131.1	129.2	129.2	131.1	131.1
45°	131.1	129.2	127.3	125.5	132.9	127.3	125.5	123.6	123.6	123.6	125.5
47.5°	125.5	123.6	119.8	119.8	121.7	119.8	118.0	118.0	118.0	121.7	121.7
50°	121.7	119.8	116.1	116.1	116.1	116.1	114.2	114.2	114.2	116.1	118.0
52.5°	116.1	114.2	112.3	110.5	110.5	110.5	110.5	110.5	110.5	112.3	114.2
55°	110.5	108.6	106.7	106.7	108.6	108.6	106.7	108.6	106.7	108.6	110.5
57.5°	104.9	103.0	101.1	103.0	104.9	103.0	103.0	103.0	103.0	103.0	104.9
60°	97.4	97.4	97.4	97.4	101.1	101.1	101.1	101.1	97.4	99.2	101.1
62.5°	93.6	91.7	91.7	93.6	95.5	95.5	97.4	95.5	93.6	95.5	95.5
65°	86.1	86.1	86.1	88.0	88.0	89.9	89.9	89.9	88.0	89.9	89.9
67.5°	80.5	80.5	80.5	80.5	84.3	84.3	84.3	84.3	82.4	82.4	84.3
70°	71.2	73.0	71.2	74.9	78.6	76.8	78.6	78.6	76.8	74.9	78.6
72.5°	65.5	65.5	65.5	65.5	71.2	71.2	71.2	73.0	71.2	69.3	71.2
75°	58.0	58.0	58.0	59.9	63.7	63.7	63.7	63.7	63.7	61.8	61.8
77.5°	50.6	52.4	50.6	52.4	56.2	54.3	56.2	58.0	56.2	54.3	54.3
80°	43.1	43.1	43.1	44.9	46.8	46.8	46.8	48.7	46.8	44.9	44.9
82.5°	33.7	33.7	35.6	35.6	37.4	37.4	37.4	39.3	37.4	35.6	35.6
85°	26.2	26.2	26.2	28.1	28.1	30.0	30.0	31.8	31.8	30.0	30.0
87.5°	16.9	15.0	16.9	16.9	18.7	18.7	16.9	15.0	16.9	15.0	13.1
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°	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1
2.5°	1230.2	1263.9	1288.2	1305.1	1329.4	1376.2	1394.9	1428.6	1438.0	1443.6
5°	1057.9	1093.5	1145.9	1183.4	1226.4	1314.4	1381.8	1432.4	1454.9	1475.5
7.5°	829.5	876.3	930.6	979.3	1050.4	1159.0	1247.0	1351.9	1391.2	1411.8
10°	647.9	690.9	750.8	810.8	910.0	1001.7	1127.2	1222.7	1277.0	1292.0
12.5°	546.7	597.3	668.4	741.5	803.3	908.1	1035.4	1174.0	1224.6	1233.9
15°	464.4	533.6	606.7	681.6	752.7	844.5	981.1	1149.7	1224.6	1233.9
17.5°	383.8	445.6	531.8	612.3	694.7	820.1	990.5	1170.3	1245.2	1273.2
20°	305.2	365.1	432.5	533.6	646.0	778.9	1011.1	1239.5	1338.8	1368.7
22.5°	252.8	279.0	344.5	441.9	574.8	750.8	1031.7	1348.1	1453.0	1464.2
25°	220.9	239.7	280.9	372.6	518.7	732.1	1080.4	1473.6	1608.4	1608.4
27.5°	206.0	213.5	241.5	323.9	479.3	715.3	1129.1	1612.1	1737.6	1763.8
30°	202.2	220.9	235.9	288.4	436.3	668.4	1174.0	1720.7	1849.9	1851.8
32.5°	198.5	194.7	206.0	250.9	383.8	619.8	1211.4	1831.2	1932.3	1937.9
35°	155.4	162.9	181.6	220.9	344.5	584.2	1230.2	1891.1	2037.2	2042.8
37.5°	146.0	155.4	170.4	204.1	318.3	554.2	1235.8	2007.2	2147.7	2158.9
40°	142.3	149.8	161.0	189.1	297.7	516.8	1247.0	2127.1	2310.6	2295.6
42.5°	134.8	144.2	155.4	181.6	280.9	488.7	1248.9	2192.6	2396.7	2396.7
45°	132.9	138.6	151.7	181.6	262.1	464.4	1218.9	2258.1	2495.9	2466.0
47.5°	125.5	136.7	147.9	176.0	239.7	440.0	1183.4	2291.8	2509.0	2499.7
50°	123.6	134.8	153.5	166.6	226.6	428.8	1175.9	2376.1	2535.2	2533.4
52.5°	119.8	131.1	159.2	159.2	209.7	413.8	1211.4	2413.5	2540.9	2555.8
55°	114.2	131.1	147.9	146.0	194.7	395.1	1250.8	2510.9	2640.1	2636.4
57.5°	110.5	127.3	140.4	132.9	177.9	382.0	1308.8	2604.5	2759.9	2733.7
60°	104.9	127.3	125.5	123.6	164.8	370.7	1357.5	2623.2	2786.1	2803.0
62.5°	101.1	132.9	110.5	114.2	153.5	365.1	1336.9	2482.8	2750.6	2765.5
65°	97.4	114.2	101.1	104.9	149.8	353.9	1256.4	2314.3	2597.0	2662.6
67.5°	89.9	93.6	93.6	97.4	146.0	327.7	1091.6	2011.0	2363.0	2398.6
70°	82.4	84.3	84.3	89.9	142.3	297.7	900.6	1739.5	2050.3	2117.7
72.5°	74.9	74.9	74.9	82.4	131.1	273.4	741.5	1336.9	1703.9	1750.7
75°	65.5	65.5	65.5	73.0	118.0	249.0	584.2	994.2	1254.5	1321.9
77.5°	58.0	58.0	56.2	65.5	103.0	202.2	421.3	702.2	883.8	939.9
80°	48.7	46.8	46.8	52.4	80.5	146.0	271.5	496.2	616.0	640.4
82.5°	39.3	37.4	35.6	39.3	58.0	91.7	168.5	346.4	395.1	380.1
85°	37.4	39.3	31.8	30.0	41.2	59.9	106.7	213.5	177.9	177.9
87.5°	15.0	13.1	13.1	11.2	20.6	22.5	46.8	39.3	30.0	30.0
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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